z/OS JES2 Data Areas Volume 1

Version 2 Release 2

GA32-0997-01

Before using this information and the product it supports, be sure to read the general information under “Notices” on page 2029.

September 2015

This edition applies to Version 2 Release 2 of z/OS (5650-ZOS) and to all subsequent releases and modifications until otherwise indicated in new editions.

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586. Structure XMA. 1895
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593. Structure XNFELEM 1970
594. Cross Reference for $XPWORK 1970
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596. Structure XRECMBRE 1983
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601. Structure ZJC 1996
602. Structure ZJC 1996
603. Structure ZJC 1999
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606. Structure JDJSETEL 2006
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611. Structure JRPNELEM 2009
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613. Structure JDINWRKA 2010
614. Structure JDINSTKE 2011
615. Structure JDCIRENT 2011
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617. Structure JDPCWLMT 2012
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624. Structure GRP1210 2018
625. Structure ZJCCNT 2018
626. Cross Reference for $ZJC 2018

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1.

2. This publication contains the contents of what was previously JES2 Data Areas Volumes 1 - 5 ($ALINDEX - $ZJC).

Chapter 1. $ALINDEX Information

$ALINDEX Programming Interface Information

$ALINDEX is a programming interface.

$ALINDEX Heading Information

Common Name:	ALET index table
Macro ID:	$ALINDEX
DSECT Name:	ALINDEX
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	ALIX Offset: ALIID-ALINDEX Length: L'ALIID
Storage Attributes:	Subpool: 229 Key: 1 Residency: Extended private in any address space using JES2 services. Virtual and real storage can be anywhere.
Size:	See ALILEN
Created by:	$ALESERV routine in HASCDSS
Pointed to by:	HXBALIDX field of the HASXB data area
Serialization:	Compare and Swap logic will be used to insert an ALET into the table for the pre-defined ALETs.
Function:	This table is used to index into the JES2 maintained ALETs. It contains data space names and the ALET for this address space to access a space. Pre-defined types are listed first. User defined types are listed later. This table is built and maintained by the $ALESERV service.

$ALINDEX mapping

Table 1. Structure ALINDEX

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ALINDEX	, Cell Pool Index Table
0	(0)	CHARACTER	4	ALIID	ALINDEX Identifier
4	(4)	ADDRESS	1	ALIVRSN	ALINDEX Version
4	(4)	X'1'	0	ALIVNUM	"1" Version number
5	(5)	BITSTRING	3		Reserved
8	(8)	DBL WORD	8	ALISTART(0)	Start of pre-defined ALETs
	Mapping of each ALET entry				
8	(8)	X'0'	0	ALIENAME	"0,8,C'C'" The name of the ALET
8	(8)	X'8'	0	ALIEALET	"8,4,C'A'" The ALET itself
8	(8)	X'C'	0	ALIEFLAG	"12,1,C'B'" ALET flag byte
		1...		ALIEFCOM	"B'10000000'" ALET for SCOPE=COMMON data space
	EQU 13,3 Reserved				
8	(8)	X'10'	0	ALIELEN	"16" Length of an entry

Table 1. Structure ALINDEX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
8	(8)	CHARACTER	8	ALISAPID	SAPID data space
24	(18)	CHARACTER	8	ALIASDS	Address space data space
40	(28)	CHARACTER	8	ALICKVR	Checkpoint versions data space
56	(38)	CHARACTER	8	ALIPSO	Process Sysout Blocks
72	(48)	CHARACTER	8	ALISTAC	Status/cancel blocks
88	(58)	CHARACTER	8	ALINAT	Nodes Attached Table
104	(68)	CHARACTER	8	ALINIT	Nodes Information Table
120	(78)	CHARACTER	8	ALIPCL	Persistent connection
136	(88)	CHARACTER	8	ALITBUF	TCP/IP comm buffers
152	(98)	CHARACTER	8	ALIWTO	SJBLOGQH S35Ds
168	(A8)	CHARACTER	8	ALIJQRB	JQE request blocks
168	(A8)	X'B0'	0	ALISTEND	"*-ALISTART" Size of the pre-defined ALETs
168	(A8)	X'B'	0	ALISTNUM	"ALISTEND/ALIELEN" Number of pre-defined ALETs
168	(A8)	X'B8'	0	ALISTD	"*-ALINDEX" Size of all pre-defined ALETs
184	(B8)	SIGNED	4	ALIWSTRT(0)	Start of dynamic ALETs
184	(B8)	BITSTRING	0	ALIWORK(0)	Dynamic ALET area
184	(B8)	X'F40'	0	ALIWLEN	"*-ALIWSTRT" Size of the dynamic ALET area
184	(B8)	X'FF'	0	ALINUMEN	"(*-ALISTART)/ALIELEN" Total number of entries
184	(B8)	X'1000'	0	ALILEN	"4096" Size of the ALINDEX table

Table 2. Cross Reference for $ALINDEX

Name	Offset	Hex Tag
ALIASDS	18	C1E2C4E2
ALICKVR	28	C3D2E5D9
ALIEALET	8	8
ALIEFCOM	8	80
ALIEFLAG	8	C
ALIELEN	8	10
ALIENAME	8	0
ALIID	0	C1D3C9E7
ALIJQRB	A8	D1D8D9C2
ALILEN	B8	1000
ALINAT	58	D5C1E340
ALINDEX	0	
ALINIT	68	D5C9E340
ALINUMEN	B8	FF
ALIPCL	78	D7C3D340
ALIPSO	38	D7E2D640
ALISAPID	8	E2C1D7C9
ALISTAC	48	E2E3C1C3
ALISTART	8	
ALISTD	A8	B8
ALISTEND	A8	B0
ALISTNUM	A8	B

Table 2. Cross Reference for $ALINDEX (continued)

Name	Offset	Hex Tag
ALITBUF	88	E3C2E4C6
ALIVNUM	4	1
ALIVRSN	4	
ALIWLEN	B8	F40
ALIWORK	B8	
ALIWSTRT	B8	
ALIWTO	98	E6E3D640

$ALINDEX mapping

Chapter 2. $ALIWORK Information

$ALIWORK Heading Information

Common Name:	JES2 ALICE Processor
Macro ID:	$ALIWORK
DSECT Name:	PCE ($ALIWORK is part of the PCE DSECT)
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4
Storage Attributes:	Subpool: See $PCE Key: See $PCE Residency: See $PCE
Size:	See symbol ALCPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by:	See $PCE
Pointed to by:	The $ALIPCE field of the $HCT data area points into the $PCEORG/$PCELAST chain to the ALICET PCE. Since this chain contains all PCEs, use the PCEID field to determine when you have chained past the last PCE of this type. See $PCE for other pointer fields that apply to all PCE types.
Serialization:	Normal PCE dispatch serialization
Function:	The fields in this work area are used by a JES2 ALICE Processor and by its support routines and exits. $DILWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $ALIWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEALIID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

$ALIWORK mapping

Table 3. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
4096	(1000)	ADDRESS	4	ALCJVECT	Address of jobs processed vector
4100	(1004)	SIGNED	4	ALCJLEN	Length of job vector
4104	(1008)	SIGNED	4	ALCHJKEY	Job key for late arrival
4108	(100C)	ADDRESS	4	ALCJVADR	Address within vector for current job
4112	(1010)	SIGNED	4	ALCJVBIT	Bit with byte for curr job
4112	(1010)	X'ED4'	0	ALCPCEWS	"*-PCEWORK" Length of $ALICE PCE

$ALIWORK mapping

Chapter 3. $APT Information

$APT Programming Interface Information

$APT is a programming interface.

$APT Heading Information

Common Name:	NJE/SNA Application Table
Macro ID:	$APT
DSECT Name:	APT
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	APT Offset: APTID Length: 4
Storage Attributes:	Subpool: 0 Key: 1 Residency: VIRTUAL - anywhere REAL - anywhere
Size:	See APTLEN
Created by:	APPLDYN service in HASPSNA
Pointed to by:	$APPLTBL field of the HCT data area APTCHAIN field of the APT data area
Serialization:	JES2 main task
Function:	An APT describes an NJE/SNA application. The APPLIDs defined in APTs match APPLIDs defined to VTAM.

$APT mapping

Table 4. Structure APT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	APT	SNA/NJE APPLICATION DSECT
0	(0)	CHARACTER	4	APTID	CONTROL BLOCK IDENTIFIER
0	(0)	X'1'	0	APTVRNUM	"1" CONTROL BLOCK VERSION EQUATE
4	(4)	ADDRESS	1	APTVRSN	CONTROL BLOCK VERSION
5	(5)	ADDRESS	3		RESERVED FOR FUTURE USE
8	(8)	CHARACTER	8	APTAPLID	APPLICATION ID FROM APPL STMNT
16	(10)	CHARACTER	1	APTCTAB	COMPACTION TABLE NUMBER
17	(11)	BITSTRING	1	APTFLAGS	APPL TABLE FLAG BYTE
		1...		APTFINS	"B'10000000'" APPL IN SESSION
		.1..		APTFOPDP	"B'01000000'" OPNDST ISSUED-AWAITING RESPONSE
		..1.		APTFOPSP	"B'00100000'" OPNSEC ISSUED-AWAITING
		...1		APTFDYN	"B'00010000'" DYNAMICALLY ALLOCATED APT, NOT DUE TO APPL INIT STMT OR $ADD
		.... 1...		APTFANCY	"B'00001000'" Automatically start/restart NJE to this APPL

Table 4. Structure APT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		APTFANCN	"B'00000100'" Never Automatically start/restart NJE to this APPL
18	(12)	CHARACTER	1	APTFEAT	APPL FEATURES-RECV'D IN FM HDR
19	(13)	CHARACTER	1	APTRIDFM	RID FORMATS-RECV'D IN FM HEADER
20	(14)	SIGNED	2	APTNODE	NODE NUMBER WHERE APPL EXISTS
22	(16)	SIGNED	2	APTREST	APPLICATION RESISTANCE
24	(18)	ADDRESS	4	APTCHAIN	ADDR OF NEXT APT
28	(1C)	CHARACTER	8	APTLMODE	VTAM LOGMODE
36	(24)	SIGNED	2	APTLINE	Dedicated line number
38	(26)	SIGNED	2	APTLOGN	LOGON DCT NUMBER
40	(28)	SIGNED	2	APTANINT	Restart interval (minutes)
42	(2A)	BITSTRING	2		Reserved
44	(2C)	SIGNED	4	APTANTIM	NJE disconnect time (STCK)
48	(30)	ADDRESS	8	APTCDCT	CDCT address
56	(38)	ADDRESS	4	APTLOGD	Address of LOGON DCT
60	(3C)	ADDRESS	4	APTLIND	Address of LINE DCT
60	(3C)	X'40'	0	APTLEN	"*-APT" LENGTH OF APT

Table 5. Cross Reference for $APT

Name	Offset	Hex Tag
APT	0	
APTANINT	28	
APTANTIM	2C	
APTAPLID	8	40404040
APTCDCT	30	
APTCHAIN	18	
APTCTAB	10	
APTFANCN	11	4
APTFANCY	11	8
APTFDYN	11	10
APTFEAT	12	
APTFINS	11	80
APTFLAGS	11	0
APTFOPDP	11	40
APTFOPSP	11	20
APTID	0	
APTLEN	3C	40
APTLIND	3C	
APTLINE	24	
APTLMODE	1C	
APTLOGD	38	
APTLOGN	26	
APTNODE	14	0
APTREST	16	
APTRIDFM	13	
APTVRNUM	0	1
APTVRSN	4	

Chapter 4. $ARMG Information

$ARMG Heading Information

Common Name:	JES2 ARM support JESXCF message
Macro ID:	$ARMG
DSECT Name:	ARMG
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'ARMG' Offset: ARMGID-ARMG Length: L'ARMG
Storage Attributes:	Subpool: 0 Key: 1 Residency: Virtual and real storage are anywhere in the private storage of the JES2 address space.
Size:	See ARMGSIZE
Created by:	HASPARM
Pointed to by:	N/A
Serialization:	None required
Function:	Represents a JESXCF message intended for the ARM support processor.

$ARMG mapping

Table 6. Structure ARMG

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ARMG	, JES2 ARM support JESXCF message
0	(0)	CHARACTER	4	ARMGID	Control block eyecatcher
4	(4)	SIGNED	4	ARMGLEN	Length of message
8	(8)	BITSTRING	1	ARMGTYPE	Message type
8	(8)	X'1'	0	ARMGDREG	"1" JES-initiated deregister
9	(9)	BITSTRING	1	ARMGVER	Version
9	(9)	X'1'	0	ARMGVERN	"1" Current version
10	(A)	BITSTRING	1	ARMGSMEM	Sending member number
11	(B)	BITSTRING	1	ARMGRSV1	Reserved for future use
12	(C)	CHARACTER	8	ARMGJTOK(0)	Job token
12	(C)	CHARACTER	4	ARMGJBNM	Job number
16	(10)	CHARACTER	4	ARMGJBKY	Job key
20	(14)	BITSTRING	4	ARMGRSV2	Reserved for future use
20	(14)	X'18'	0	ARMGSIZE	"*-ARMG" Size of ARMG

Table 7. Cross Reference for $ARMG

Name	Offset	Hex Tag
ARMG	0	
ARMGDREG	8	1
ARMGID	0	
ARMGJBKY	10	

Table 7. Cross Reference for $ARMG (continued)

Name	Offset	Hex Tag
ARMGJBNM	C	
ARMGJTOK	C	
ARMGLEN	4	
ARMGRSV1	B	
ARMGRSV2	14	
ARMGSIZE	14	18
ARMGSMEM	A	
ARMGTYPE	8	
ARMGVER	9	
ARMGVERN	9	1

Chapter 5. $ARMT Information

$ARMT Heading Information

Common Name: JES2 ARM support trace record
Macro ID: $ARMT
DSECT Name: ARMT
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: NONE
Storage Attributes: Residency: Resides in a JES2 trace buffer in ECSA.

Size: See ARMTSIZE
Created by: HASPARM
Pointed to by: N/A
Serialization: None required
Function: Maps JES2 trace record 26.

$ARMT mapping

Table 8. Structure ARMT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ARMT	, JES2 ARM support trace record
		Contents of JQE fields at start of ARM request			
0	(0)	BITSTRING	1	ARMTSFL1	JQEFLAG1
1	(1)	BITSTRING	1	ARMTSTYP	JQETYPE
2	(2)	BITSTRING	1	ARMTSBSY	JQEBUSY
3	(3)	BITSTRING	1	ARMTSDEV	JQEDEVID
4	(4)	BITSTRING	1	ARMTSAID	JQEARMID
5	(5)	CHARACTER	8	ARMTSCLS	Job class
		Contents of JQE fields at end of ARM request			
13	(D)	BITSTRING	1	ARMTEFL1	JQEFLAG1
14	(E)	BITSTRING	1	ARMTETYP	JQETYPE
15	(F)	BITSTRING	1	ARMTEBSY	JQEBUSY
16	(10)	BITSTRING	1	ARMTEDEV	JQEDEVID
17	(11)	BITSTRING	1	ARMTEAID	JQEARMID
18	(12)	CHARACTER	8	ARMTECLS	Job class
		Miscellaneous fields			
26	(1A)	BITSTRING	1	ARMTFLG1	ARMFLAG1 in $ARMWORK
27	(1B)	BITSTRING	1	ARMTRSV1	Reserved for future use
28	(1C)	SIGNED	4	ARMTRC	MTRBRC
		SSPJ contents at end of request			
32	(20)	BITSTRING	1	ARMTSSPJ	SSPJ
32	(20)	X'50'	0	ARMTSIZE	"*-ARMT" Size of ARMT

$ARMT mapping

Table 9. Cross Reference for $ARMT

Name	Offset	Hex Tag
ARMT	0	
ARMTEAID	11	
ARMTEBSY	F	
ARMTECLS	12	
ARMTEDEV	10	
ARMTEFL1	D	
ARMTETYP	E	
ARMTFLG1	1A	
ARMTRC	1C	
ARMTRSV1	1B	
ARMTSAID	4	
ARMTSBSY	2	
ARMTSCLS	5	
ARMTSDEV	3	
ARMTSFL1	0	
ARMTSIZE	20	50
ARMTSSPJ	20	
ARMTSTYP	1	

Chapter 6. $ARMWORK Information

$ARMWORK Heading Information

Common Name:	ARM support PCE work area
Macro ID:	$ARMWORK
DSECT Name:	PCE
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4
Storage Attributes:	Subpool: See $PCE Key: See $PCE Residency: See $PCE
Size:	See symbol ARMWKSIZ for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by:	See $PCE
Pointed to by:	$ARMPCE field of the $HCT data area See $PCE for other pointer fields that apply to all PCE types.
Serialization:	Normal PCE dispatch serialization
Function:	The fields in this work area are used by the ARM support processor. $ARMWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $ARMWORK are actually part of the PCE DSECT, but only maps the PCE with the value PCEARMID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

$ARMWORK mapping

Table 10. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
320	(140)	BITSTRING	312		Warm PCE fields
632	(278)	ADDRESS	4	ARMMTRB	Active main task request block
636	(27C)	ADDRESS	4	ARMSSPJ	SSOB extension from active request
640	(280)	SIGNED	4	ARMLINES	LINES counter
644	(284)	SIGNED	4	ARMPUNCH	PUNCH counter
648	(288)	SIGNED	4	ARMXOUT	Records counter
652	(28C)	SIGNED	4	ARMPAGES	PAGES counter
656	(290)	SIGNED	4	ARMBYTES	BYTES counter
660	(294)	SIGNED	4	ARMDSKEY	DS key of last PDDB counted
664	(298)	ADDRESS	4	ARMSQD	SQD for $SUBIT
668	(29C)	ADDRESS	4	ARMQYJQE	JQE whose registration is currently being verified

Table 10. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
672	(2A0)	BITSTRING	4	ARMSAF	System affinity work area
676	(2A4)	BITSTRING	1	ARMFLAG1	Flags
		1...		ARM1ACTV	"B'10000000'" $ACTIVE done
		.1..		ARM1JLOK	"B'01000000'" Job lock acquired
		..1.		ARM1WARM	"B'00100000'" Job was warm started
		...1		ARM1INVQ	"B'00010000'" Invalidate current registration query
677	(2A5)	BITSTRING	1	ARMFLAG2	Serialized flag byte UPDATE USING OIL/NIL
		1...		ARM2MAIL	"B'10000000'" Messages have arrived
678	(2A6)	BITSTRING	2	ARMRSV1	Reserved for future use
680	(2A8)	SIGNED	4	ARMMSGA	XCF message address
684	(2AC)	SIGNED	4	ARMMSGL	XCF message length
688	(2B0)	BITSTRING	8	ARMMSGTK	XCF message token
696	(2B8)	BITSTRING	80	ARMCTRAC	Current trace 26 record
776	(308)	BITSTRING	1	ARMPTRAC	Previous trace 26 record
List form macros					
856	(358)	DBL WORD	8	(0)	
856	(358)	BITSTRING	160	ARMLSTFM	List form macros
1016	(3F8)	CHARACTER	1	ARMLSEND(0)	End of list form area
MACDATE -93/05/10-<1>					
856	(358)	SIGNED	2	M00M1052(0)	IXZXIXMB-1
856	(358)	DBL WORD	8	ARMIXMB(0)	++ IXZXIXMB PARM LIST
856	(358)	BITSTRING	1	ARMIXMB_XVERSION	++ INPUT XVERSION
857	(359)	CHARACTER	6	ARMIXMB_XEYECATCH	++ CONSTANT XEYECATCH
863	(35F)	CHARACTER	1	ARMIXMB_XRSV0001	++ RESERVED XRSV0001
864	(360)	CHARACTER	16	ARMIXMB_XMBOXNAME	++ XMBOXNAME
880	(370)	ADDRESS	4	ARMIXMB_XPOSTXIT	++ XPOSTXIT
884	(374)	ADDRESS	4	ARMIXMB_XPOSTDATA	++ XPOSTDATA
888	(378)	SIGNED	4	ARMIXMB_XPOSTALET	++ XPOSTALET
892	(37C)	SIGNED	4	ARMIXMB_XGROUPTOKEN	++ XGROUPTOKEN
896	(380)	BITSTRING	1	ARMIXMB_XSYSEVENTS	++ FIELD_LABEL
		1...		ARMIXMB_XSYSEVENT_YES	"B'10000000'" ++ XSYSEVENT.YES KEYWORD
		.1..		ARMIXMB_XSYSEVENT_NO	"B'01000000'" ++ XSYSEVENT.NO KEYWORD
896	(380)	X'29'	0	ARMIXMBL	"*-ARMIXMB" ++ LENGTH OF PLIST
				IXZXIXMB-1	
898	(382)	ADDRESS	2	(0)	Ensure area fits
MACDATE -93/05/10-<1>					
856	(358)	SIGNED	2	M00M1054(0)	IXZXIXRM-1
856	(358)	DBL WORD	8	ARMIXRM(0)	++ IXZXIXRM PARM LIST
856	(358)	BITSTRING	1	ARMIXRM_XVERSION	++ INPUT XVERSION
857	(359)	CHARACTER	6	ARMIXRM_XEYECATCH	++ CONSTANT XEYECATCH
863	(35F)	CHARACTER	1	ARMIXRM_XRSV0001	++ RESERVED XRSV0001
864	(360)	CHARACTER	16	ARMIXRM_XMBOXNAME	++ XMBOXNAME
880	(370)	ADDRESS	4	ARMIXRM_XDATA	++ XDATA

Table 10. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
884	(374)	SIGNED	4	ARMIXRM_XDATALEN	++ XDATALEN
888	(378)	BITSTRING	8	ARMIXRM_XMSGTOKEN	++ XMSGTOKEN
896	(380)	SIGNED	4	ARMIXRM_XGROUPTOKEN	++ XGROUPTOKEN
900	(384)	BITSTRING	1	ARMIXRM_XMSGFETCH	++ INPUT
		1...		ARMIXRM_XMSGFETCH_ALL	"B'10000000'" ++ XMSGFETCH.ALL KEYWORD
		.1..		ARMIXRM_XMSGFETCH_MESSAGES	"B'01000000'" ++ XMSGFETCH.MESSAGES KEYWORD
		..1.		ARMIXRM_XMSGFETCH_SYSEVENT	"B'00100000'" ++ XMSGFETCH.SYSEVENT KEYWORD
		...1		ARMIXRM_XMSGFETCH_ACKS	"B'00010000'" ++ XMSGFETCH.ACKS KEYWORD
901	(385)	BITSTRING	1	ARMIXRM_XKEYS	++ FIELD_LABEL
		1...		ARMIXRM_KEYUSED_MSGFETCH	"B'10000000'" ++ KEYUSED.MSGFETCH KEYWORD
901	(385)	X'2E'	0	ARMIXRML	"*-ARMIXRM" ++ LENGTH OF PLIST
				IXZXIXRM-1	
902	(386)	ADDRESS	2	(0)	Ensure area fits
		MACDATE -11/12/03-<1>			
0	(0)	X'358'	0	M00M1055	"ARMIXAC" ++ IXZXIXAC NAME
856	(358)	DBL WORD	8	ARMIXAC(0)	++ IXZXIXAC PARM LIST
856	(358)	BITSTRING	1	ARMIXAC_XVERSION	++ INPUT XVERSION
857	(359)	CHARACTER	6	ARMIXAC_XEYECATCH	++ CONSTANT XEYECATCH
863	(35F)	BITSTRING	1	ARMIXAC_XSTB	++ INPUT
		1...		ARMIXAC_XSTB_NO	"B'10000000'" ++ XSTB.NO KEYWORD
		.1..		ARMIXAC_XSTB_YES	"B'01000000'" ++ XSTB.YES KEYWORD
864	(360)	BITSTRING	8	ARMIXAC_XMSGTOKEN	++ XMSGTOKEN
872	(368)	ADDRESS	4	ARMIXAC_XDATA	++ XDATA
876	(36C)	SIGNED	4	ARMIXAC_XDATALEN	++ XDATALEN
880	(370)	SIGNED	4	ARMIXAC_XUSERRC	++ XUSERRC
884	(374)	SIGNED	4	ARMIXAC_XGROUPTOKEN	++ XGROUPTOKEN
888	(378)	SIGNED	4	ARMIXAC_XSYSRC	++ XSYSRC
892	(37C)	SIGNED	4	ARMIXAC_XSYSRSN	++ XSYSRSN
896	(380)	BITSTRING	1	ARMIXAC_XKEYS	++ FIELD_LABEL
		1...		ARMIXAC_KEYUSED_DATA	"B'10000000'" ++ KEYUSED.DATA KEYWORD
		.1..		ARMIXAC_KEYUSED_DATALEN	"B'01000000'" ++ KEYUSED.DATALEN KEYWORD
		..1.		ARMIXAC_KEYUSED_USERRC	"B'00100000'" ++ KEYUSED.USERRC KEYWORD
		...1		ARMIXAC_KEYUSED_SYSRC	"B'00010000'" ++ KEYUSED.SYSRC KEYWORD
		.... 1...		ARMIXAC_KEYUSED_SYSRSN	"B'00001000'" ++ KEYUSED.SYSRSN KEYWORD
897	(381)	BITSTRING	1	ARMIXAC_XMSGATTR	++ INPUT
		1...		ARMIXAC_XMSGATTR_J3CONNECT	"B'10000000'" ++ XMSGATTR.J3CONNECT KEYWORD
		.1..		ARMIXAC_XMSGATTR_EXPRESS	"B'01000000'" ++ XMSGATTR.EXPRESS KEYWORD
897	(381)	X'2A'	0	ARMIXACL	"*-ARMIXAC" ++ LENGTH OF PLIST

Table 10. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
				IXZXIXAC-1	
898	(382)	ADDRESS	2	(0)	Ensure area fits
1016	(3F8)	X'2B8'	0	ARMPCEWS	"*-PCEWORK" ARM PCE work area length

Table 11. Cross Reference for $ARMWORK

Name	Offset	Hex Tag
ARMBYTES	290	
ARMCTRAC	2B8	
ARMDSKEY	294	
ARMFLAG1	2A4	
ARMFLAG2	2A5	
ARMIXAC	358	
ARMIXAC_KEYUSED_DATA	380	80
ARMIXAC_KEYUSED_DATALEN	380	40
ARMIXAC_KEYUSED_SYSRC	380	10
ARMIXAC_KEYUSED_SYSRSN	380	8
ARMIXAC_KEYUSED_USERRC	380	20
ARMIXAC_XDATA	368	
ARMIXAC_XDATALEN	36C	
ARMIXAC_XEYECATCH	359	
ARMIXAC_XGROUPTOKEN	374	
ARMIXAC_XKEYS	380	
ARMIXAC_XMSGATTR	381	
ARMIXAC_XMSGATTR_EXPRESS	381	40
ARMIXAC_XMSGATTR_J3CONNECT	381	80
ARMIXAC_XMSGTOKEN	360	
ARMIXAC_XSTB	35F	
ARMIXAC_XSTB_NO	35F	80
ARMIXAC_XSTB_YES	35F	40
ARMIXAC_XSYSRC	378	
ARMIXAC_XSYSRSN	37C	
ARMIXAC_XUSERRC	370	
ARMIXAC_XVERSION	358	
ARMIXACL	381	2A
ARMIXMB	358	
ARMIXMB_XEYECATCH	359	
ARMIXMB_XGROUPTOKEN	37C	
ARMIXMB_XMBOXNAME	360	
ARMIXMB_XPOSTALET	378	
ARMIXMB_XPOSTDATA	374	
ARMIXMB_XPOSTXIT	370	
ARMIXMB_XRSV0001	35F	
ARMIXMB_XSYSEVENT_NO	380	40
ARMIXMB_XSYSEVENT_YES	380	80
ARMIXMB_XSYSEVENTS	380	
ARMIXMB_XVERSION	358	

Table 11. Cross Reference for $ARMWORK (continued)

Name	Offset	Hex Tag
ARMIXMBL	380	29
ARMIXRM	358	
ARMIXRM_KEYUSED_MSGFETCH	385	80
ARMIXRM_XDATA	370	
ARMIXRM_XDATALEN	374	
ARMIXRM_XEYECATCH	359	
ARMIXRM_XGROUPTOKEN	380	
ARMIXRM_XKEYS	385	
ARMIXRM_XMBOXNAME	360	
ARMIXRM_XMSGFETCH	384	
ARMIXRM_XMSGFETCH_ACKS	384	10
ARMIXRM_XMSGFETCH_ALL	384	80
ARMIXRM_XMSGFETCH_MESSAGES	384	40
ARMIXRM_XMSGFETCH_SYSEVENT	384	20
ARMIXRM_XMSGTOKEN	378	
ARMIXRM_XRSV0001	35F	
ARMIXRM_XVERSION	358	
ARMIXRML	385	2E
ARMLINES	280	
ARMLSEND	3F8	
ARMLSTFM	358	
ARMMSGA	2A8	
ARMMSGL	2AC	
ARMMSGTK	2B0	
ARMMTRB	278	
ARMPAGES	28C	
ARMPCEWS	3F8	2B8
ARMPTRAC	308	
ARMPUNCH	284	
ARMQYJQE	29C	
ARMRSV1	2A6	
ARMSAF	2A0	
ARMSQD	298	
ARMSSPJ	27C	
ARMXOUT	288	
ARM1ACTV	2A4	80
ARM1INVQ	2A4	10
ARM1JLOK	2A4	40
ARM1WARM	2A4	20
ARM2MAIL	2A5	80
M00M1052	358	
M00M1054	358	
M00M1055	0	358
PCE	0	

Chapter 7. $ASDS Information

$ASDS Heading Information

Common Name:	Address Space Data Space dsect
Macro ID:	$ASDS
DSECT Name:	ASDS
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'JES2ASDS' Offset: ASDSEYEC Length: L'ASDSEYEC
Storage Attributes:	Subpool: 0 Key: 1 Residency: Created via $DSPSERV CREATE SCOPE=ALL. In the JES2ASDS data space.
Size:	See the ASDSLEN equate for the ASDS DSECT and the ASDSELEN equate for the ASDSENT DSECT.
Created by:	The Address Space Data Space is created toward the end of initialization in module HASPIRMA routine IRFINAL. The ASDS DSECT is initialized at that time. An entry is created in the ASDS array every time an address space is started. The entry is described by the ASDSENT DSECT.
Pointed to by:	The CCTASDS field of the $HCCT data area in CSA is the base pointer to first entry in the data space. Each address space can get an ALET to the data space using the $ALESERV ADD service for NAME=ASDS. CCTASDS-ASDSLEN gives a pointer to the header data. CCTASDS+ADSDELEN updates the pointer to the next entry.
Serialization:	JES2 main task serialization for creating and removing ASDS entries. Some fields are updated in the user environment, but those are not updated by the JES2 main task. Read the NOTES section for further information.
Function:	The Address Space Data Space entry will contain shadowed information about jobs going into execution phase. This information will be used by SSIs to extract information about jobs instead of accessing the job's SJB, which can be a volatile control block.

$ASDS mapping

Table 12. Structure ASDS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ASDS	HASP Address Space Data Space DSECT
0	(0)	CHARACTER	8	ASDSEYEC	IRMA.ASDS Eyecatcher-set to unique data space name
8	(8)	ADDRESS	4	ASDSSTRT	IRMA.Origin of ASDS data space
12	(C)	ADDRESS	4	ASDSDSB	IRMA.Address of CSA DSB

Table 12. Structure ASDS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
16	(10)	SIGNED	4	ASDSHIGH	JXQ/UJB.Highest ASID used in ASDS. Full word required for Compare & Swap updt
20	(14)	SIGNED	2	ASDSJ2IH	JXQ.JES2 Initiator Chain Head
22	(16)	SIGNED	2	ASDSJ2IT	JXQ.JES2 Initiator Chain Tail
24	(18)	SIGNED	2	ASDSWLMH	JXQ.WLM Initiator Chain Head
26	(1A)	SIGNED	2	ASDSWLMT	JXQ.WLM Initiator Chain Tail
28	(1C)	SIGNED	2	ASDSSTCH	JXQ.Started Task Chain Head
30	(1E)	SIGNED	2	ASDSSTCT	JXQ.Started Task Chain Tail
32	(20)	SIGNED	2	ASDSTSUH	JXQ.TSO Job Chain Head
34	(22)	SIGNED	2	ASDSTSUT	JXQ.TSO Job Chain Tail
36	(24)	SIGNED	2	ASDSRQJH	JXQ.Request Job ID Chain Head
38	(26)	SIGNED	2	ASDSRQJT	JXQ.Request Job ID Chain Tail
40	(28)	SIGNED	2	ASDSOTHH	JXQ.Uncategorized A/S Chain Hd
42	(2A)	SIGNED	2	ASDSOTHT	JXQ.Uncategorized A/S Chain TL
44	(2C)	BITSTRING	4		Reserved
48	(30)	SIGNED	4	(0)	Align on word boundary
48	(30)	X'30'	0	ASDSLEN	"*-ASDS" ASDS header length

Table 13. Structure ASDSENT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ASDSENT	HASP ASDS Entry DSECT
0	(0)	SIGNED	2	ASEASID	JXQ.ASID of address space
2	(2)	SIGNED	2	ASENEXT	JXQ.Next ASDS entry of this address space type
4	(4)	SIGNED	2	ASEPREV	JXQ.Previous ASDS entry of this address space type
6	(6)	BITSTRING	1	ASEFLAG1	Flag indicator
		1...		ASE1J2I	"B'10000000'" JXQ.JES2 Initiator
		.1..		ASE1WLMI	"B'01000000'" JXQ.WLM Initiator
		..1.		ASE1STC	"B'00100000'" JXQ.STC (not JES2 initiator, Req Job ID)
		...1		ASE1TSO	"B'00010000'" JXQ.Entry for TSO user
		.... 1...		ASE1RQJ	"B'00001000'" JXQ.Request Job ID
		.... .1..		ASE1OTHR	"B'00000100'" JXQ.Uncategorized addr sp
		.... ..1.		ASE1AJOB	"B'00000010'" JXQ.Active job in addr sp
		1		ASE1GONE	"B'00000001'" JXQ.Addr space terminated
		....		ASE1NOTU	"B'00000000'" JXQ.ASDS entry not used b4
7	(7)	BITSTRING	1		Reserved
8	(8)	BITSTRING	8	ASEASCBT	JXQ.Address space token
16	(10)	CHARACTER	8	ASEAJBID	JXQ.Address space job ID (for STC, TSU and INIT jobid)
Job fields					
24	(18)	CHARACTER	8	ASEJCLAS	JXQ.Batch job's job class
32	(20)	CHARACTER	8	ASEJOBNM	JXQ.Batch job name

Table 13. Structure ASDSENT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
40	(28)	CHARACTER	8	ASEJOBID	JXQ.Batch job ID
48	(30)	CHARACTER	8	ASEUSRID	UJB.Batch job user ID
56	(38)	CHARACTER	8	ASESECLB	UJB.Batch job security lbl
64	(40)	CHARACTER	8	ASEWSCN	JXQ.Batch job service class
72	(48)	ADDRESS	4	ASECSCB	UJB.Address of CSCB (in common storage)
	Initiator fields				
76	(4C)	ADDRESS	4	ASIPIT	JXQ.Addr of JES2 Init PIT (in common storage)
80	(50)	CHARACTER	8	ASIWSCNO	JXQ.WLM Initiator service class
88	(58)	BITSTRING	1	ASIWLMIS	JXQ.WLM Initiator Status
		1...		ASIWLMIA	"B'10000000'" WLM Initiator Active
		.1..		ASIWLMII	"B'01000000'" WLM Initiator Inact (selecting job)
	The following two settings are used to request state changes for WLM Initiators and are not a status setting found in field ASIWLMIS (but the settings cannot conflict with other ASIWLMIS status values).				
		.... ..1.		ASIWLMIT	"B'00000010'" Initialize/create WLM Initiator ASDS ent
		1		ASIWLMDS	"B'00000001'" Destroy/remove WLM Initiator ASDS ent
89	(59)	BITSTRING	3		Reserved
92	(5C)	ADDRESS	4	ASESJB	JXQ.SJB address
92	(5C)	X'60'	0	ASDSELEN	"*-ASDSENT" ASDS entry length
96	(60)	ADDRESS	2	(0)	Ensure header length less than entry length

Table 14. Cross Reference for $ASDS

Name	Offset	Hex Tag
ASDS	0	
ASDSDSB	C	
ASDSELEN	5C	60
ASDSENT	0	
ASDSEYEC	0	D1C5E2F2
ASDSHIGH	10	
ASDSJ2IH	14	
ASDSJ2IT	16	
ASDSLEN	30	30
ASDSOTHH	28	
ASDSOTHT	2A	
ASDSRQJH	24	
ASDSRQJT	26	
ASDSSTCH	1C	
ASDSSTCT	1E	
ASDSSTRT	8	
ASDSTSUH	20	

Table 14. Cross Reference for $ASDS (continued)

Name	Offset	Hex Tag
ASDSTSUT	22	
ASDSWLMH	18	
ASDSWLMT	1A	
ASEAJBID	10	
ASEASCBT	8	
ASEASID	0	
ASECSCB	48	
ASEFLAG1	6	
ASEJCLAS	18	
ASEJOBID	28	
ASEJOBNM	20	
ASENEXT	2	
ASEPREV	4	
ASESECLB	38	
ASESJB	5C	
ASEUSRID	30	
ASEWSCN	40	
ASE1AJOB	6	2
ASE1GONE	6	1
ASE1J2I	6	80
ASE1NOTU	6	0
ASE1OTHR	6	4
ASE1RQJ	6	8
ASE1STC	6	20
ASE1TSO	6	10
ASE1WLMI	6	40
ASIPIT	4C	
ASIWLMDS	58	1
ASIWLMIA	58	80
ASIWLMII	58	40
ASIWLMIS	58	
ASIWLMIT	58	2
ASIWSCNO	50	

Chapter 8. $ASSTTAB Information

$ASSTTAB Heading Information

Common Name: Migration assistant table
Macro ID: $ASSTTAB
DSECT Name: ASSTTAB
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'ASST'
Offset: ASSTAB-ASST
Length: 4
Storage Attributes: Subpool: 0 for the JES2 main copy;
Key: 1
Residency: Virtual is in 31 bit storage in the JES2 address space. There are no restrictions on real storage.

Size: See ASSTTSZ
Created by: Source DAS migration phase DAS7PHAS = DAS7SET1.
Pointed to by: ASTTABLE field of the $DTEASST data area
Serialization: Each field is set either by SPOL PCE or migration assistant subtask. See fields for further definition.
Function: The ASSTTAB is owned by a migration assistant subtask. There are 253 entries in the table. Each entry may represent an active spool migration Source -> Target. An entry is actively in use if the source volid is set within the entry.

$ASSTTAB mapping

Table 15. Structure ASSTTAB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ASSTTAB	Migartion table entry
0	(0)	CHARACTER	4	ASSTID	Table ID -> ASST
		ASSMIGRA, ASSVOLID set at $ASSTTAB initialization			
4	(4)	BITSTRING	1	ASSMIGRA	Migration specifc info
		1...		ASSMOVE	"B'10000000'" Migration is a move
		.1..		ASSMERGE	"B'01000000'" Migration is a merge
		..1.		ASSATTH	"B'00100000'" Assistant attached unique JES XCF group
		...1		ASSRECV	"B'00010000'" $ASSTTAB created under ASSISTANT or or FULL-RECOVERY
5	(5)	CHARACTER	6	ASSVOLID	Source volser. If set - then denotes entry inuse.
11	(B)	BITSTRING	1	ASSCOMPL	Migration percent complete

Table 15. Structure ASSTTAB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Source DAS information: (Used for dataset deallocation). State captured early on in phase - DAS7SET1 on call to $ASSTTAB initialization. This information will used at the end of migration to deallocate each member from the original source dataset. This allows the customer to roll the DASD out at migration end.			
12	(C)	BITSTRING	1	ASSSRCST	Source dataset info
16	(10)	SIGNED	4	(0)	Alignment
16	(10)	BITSTRING	32	ASSENQTK	ISGENQ token
48	(30)	ADDRESS	4	ASSUCBPT	UCB address
52	(34)	ADDRESS	4	ASSSRDAS	Source DAS address
56	(38)	CHARACTER	8	ASSGROUP	Note: migration XCF group name. Note: XX is source DASEXTNO.
64	(40)	CHARACTER	16	ASSMEMNM	Member name - used for attach of XCF group
80	(50)	SIGNED	4	ASJDIAG	JESXCF service diag area
84	(54)	ADDRESS	4	ASSTOKEN	JESXCF group token to use when sending to MG$VOLSER
88	(58)	BITSTRING	8	ASSSRESV	Reserved
96	(60)	BITSTRING	1	ASSSREXT	Extent number of source
		END soucce DAS information: Target volume dataset information			
97	(61)	BITSTRING	32	ASSTNQTK	ISGENQ token - Only move
129	(81)	BITSTRING	64	ASSTRPS	RPS Table for this device Move and merge
		The following fields are valid for both move and merge. ASSTDEBE, ASSTKCYL, ASSTEXTN, ASSTFLG1, ASSTNRTK, ASSTSTRT			
193	(C1)	BITSTRING	19	ASSTDEBE	DEB extent for this volume
212	(D4)	SIGNED	4	ASSTKCYL	Tracks per cylinder
216	(D8)	BITSTRING	1	ASSTEXTN	Extent number of target
217	(D9)	BITSTRING	1	ASSTFLG1	Target flag byte
		1...		ASST1RPS	"B'10000000'" RPS supported
218	(DA)	SIGNED	2	ASSTNRTK	Number of records per track
220	(DC)	SIGNED	4	ASSTSTRT	Start track of data set
		Both ASSTRACS and ASSTBITB are set at ASSTTAB init called from DADMSET1.			
224	(E0)	SIGNED	4	ASSTRACS	Number of tracks represented by track bitmap.
232	(E8)	ADDRESS	8	ASSTBITB	Address of bitmap in 64 bit common storage
		END target DAS information: Miscellaneous information:			
240	(F0)	BITSTRING	4	ASMEMACK	Copy of migrator ACK list for start phase 1, start phase 2, end migration or cancel.
244	(F4)	BITSTRING	1	ASMIGTSK	Current migrator subtask state
245	(F5)	ADDRESS	1	ASSMIGTR	Migrator ID to be used when ACKING a migrator request

Table 15. Structure ASSTTAB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		TLBM information			
248	(F8)	SIGNED	4	ASSTLBM	Relative track at which the TLBM starts on target volume.
252	(FC)	SIGNED	4	ASRECORD	Number of records consumed by TLBM
256	(100)	BITSTRING	1	ASTLBM	TLBM state
		1...		ASTLBMWR	"B'10000000'" TLBM has been written to target dataset
260	(104)	SIGNED	4	(0)	Align
		End TLBM information			
260	(104)	CHARACTER	10		QWORD alignment
272	(110)		1	(0)	Quadword alignment
272	(110)	X'110'	0	ASSENTLN	"*-ASSTTAB" Length of table entry
272	(110)	X'10CD0'	0	ASSTABSZ	"ASSENTLN*253" Table length

Table 16. Cross Reference for $ASSTTAB

Name	Offset	Hex Tag
ASJDIAG	50	
ASMEMACK	F0	
ASMIGTSK	F4	0
ASRECORD	FC	
ASSATTH	4	20
ASSCOMPL	B	
ASSENQTK	10	
ASSENTLN	110	110
ASSGROUP	38	E2E8E2D4
ASSMEMNM	40	
ASSMERGE	4	40
ASSMIGRA	4	
ASSMIGTR	F5	
ASSMOVE	4	80
ASSRECV	4	10
ASSSRCST	C	
ASSSRDAS	34	
ASSSRESV	58	
ASSSREXT	60	
ASSTABSZ	110	10CD0
ASSTBITB	E8	
ASSTDEBE	C1	
ASSTEXTN	D8	
ASSTFLG1	D9	
ASSTID	0	
ASSTKCYL	D4	
ASSTLBM	F8	
ASSTNQTK	61	
ASSTNRTK	DA	

Table 16. Cross Reference for $ASSTTAB (continued)

Name	Offset	Hex Tag
ASSTOKEN	54	
ASSTRACS	E0	
ASSTRPS	81	0
ASSTSTRT	DC	
ASSTTAB	0	
ASST1RPS	D9	80
ASSUCBPT	30	
ASSVOLID	5	
ASTLBM	100	
ASTLBMWR	100	80

Chapter 9. $ASYWORK Information

$ASYWORK Heading Information

Common Name:	JES2 Asynchronous I/O PCE Work Area
Macro ID:	$ASYWORK
DSECT Name:	PCE ($ASYWORK is part of the PCE DSECT)
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4
Storage Attributes:	Subpool: See $PCE Key: See $PCE Residency: See $PCE
Size:	See symbol ASYPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by:	See $PCE
Pointed to by:	The $ASYNPCE field of the $HCT data area See $PCE for other pointer fields that apply to all PCE types.
Serialization:	Normal PCE dispatch serialization
Function:	The fields in this area are used by the JES2 Asynchronous I/O Processor and by its support routines and exits. $ASYWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $ASYWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEASYID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

$ASYWORK mapping

Table 17. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
320	(140)	DBL WORD	8	(0)	Force double-word alignment
320	(140)	X'0'	0	ASYPCEWS	"*-PCEWORK" Length of work area

Chapter 10. $AUXCB Information

$AUXCB Heading Information

Common Name:	AUX address space control block
Macro ID:	$AUXCB
DSECT Name:	AUXCB
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	AUXC Offset: AXBID Length: L'AXBID
Storage Attributes:	Subpool: 241 Key: 1 Residency: Virtual and real storage are anywhere (above or below 16M) in common storage (CSA).
Size:	See AXBLEN
Created by:	HASCSRAX
Pointed to by:	CCTAUXCB field of the $HCCT data area
Serialization:	Only updated by HASCSRAX while running under the JES2 main task.
Function:	This DSECT maps the data associated with the JES2 AUX address address space. It is used during JES2 initialization and termination processing to create and later delete the address space.

$AUXCB mapping

Table 18. Structure AUXCB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	AUXCB	, Define DSECT
0	(0)	CHARACTER	4	AXBID	Eyecatcher
4	(4)	ADDRESS	1	AXBVER	Version
4	(4)	X'1'	0	AXBVERN	"1" Current version
5	(5)	BITSTRING	3		Reserved for future use
8	(8)	CHARACTER	8	AXBNAME	Address space name
16	(10)	BITSTRING	24	AXBODA	ASCRE output area (IHAASEO)
40	(28)	SIGNED	4	AXBECB	JES2AUX "existence" ECB
44	(2C)	SIGNED	4	AXBSTECB	JES2AUX response ECB
48	(30)	ADDRESS	4	AXBPWORK	Address of working storage in the AUX address space.
52	(34)	ADDRESS	4	AXBGTKN	Group token for data retrieval JESXCF group
56	(38)	DBL WORD	8	(0)	
56	(38)	X'38'	0	AXBLEN	"*-AUXCB" Length of AUXCB

Table 19. Cross Reference for $AUXCB

Name	Offset	Hex Tag
AUXCB	0	
AXBECB	28	

Table 19. Cross Reference for $AUXCB (continued)

Name	Offset	Hex Tag
AXBGTKN	34	
AXBID	0	C1E4E7C2
AXBLEN	38	38
AXBNAME	8	D1C5E2F2
AXBODA	10	
AXBPWORK	30	
AXBSTECB	2C	
AXBVER	4	
AXBVERN	4	1

Chapter 11. $BERT Information

$BERT Heading Information

Common Name: HASP Block Extension Reuse Table
Macro ID: $BERT
DSECT Name: BERT
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: None
Storage Attributes: Subpool: 0, 231, dataspace
Key: 1
Residency: Virtual storage is anywhere (below or above 16M) in the JES2 address space. Virtual storage for the APPLCOPY is in ECSA. Real storage is anywhere.

Size: See BRTLEN
Created by: JES2 initialization processing
Pointed to by: $BERTPTR field of the $HCT data area
Serialization: The JES2 Checkpoint data set lock ($QSUSE). The lock entry in the 1st $BERT (BRTLOCK) is also used for serialization.
Function: This control block maps the header and the entries in the BERT CTENT on the JES2 checkpoint. These entries are used as a pool of storage in the checkpoint by various services.

$BERT mapping

Table 20. Structure BERT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	BERT	, Block Extension Reuse Table
0	(0)	X'1'	0	BERTVERS	"1" BERT version number
0	(0)	BITSTRING	4	BRTWALLY(0)	Composite of TYPE and CB
0	(0)	BITSTRING	1	BRTTYPE	Control block type
0	(0)	X'0'	0	BRTINT	"$DGBINT" Internal control block
0	(0)	X'1'	0	BRTJQE	"$DGBJQE" JQE extension
0	(0)	X'2'	0	BRTCAT	"$DGBCAT" Class attribute table
0	(0)	X'3'	0	BRTWSCQ	"$DGBWSCQ" WLM service class queue
		1111 1111		BRTFREE	"X'FF'" Free BERT
1	(1)	BITSTRING	3	BRTCB	Related control block index
4	(4)	BITSTRING	1	BRTSEQ	Sequence number
5	(5)	BITSTRING	3	BRTNEXT	Next BERT in CB chain
8	(8)	BITSTRING	2		Reserved for future use
8	(8)	X'A'	0	BRTPRLEN	"*-BERT" Length of BERT prefix
10	(A)	BITSTRING	54	BRTDATA	Data area for BERTIEs
10	(A)	X'40'	0	BRTLEN	"*-BERT" Total size of a BERT

Special wally values for internal BERTs used by the DOGBERT service internally.

Table 20. Structure BERT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		....		BRTWYDYN	"X'00000000'" Wally for dynamic heads (BRTPBERT.BRTNEXT chain)
10	(A)	BITSTRING	0	BRTWYNAM	"X'00001000'" Named internal CBs header (BRTPINTH chain)
10	(A)	BITSTRING	0	BRTWYNIB	"X'00800000'" Named internal CBs combined with CB number

Table 21. Structure BERTIE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	BERTIE	, BERT information element
0	(0)	BITSTRING	1	BRTIID	Section identifier
		1111 111.		BRTIICNT	"X'FE'" Continued in next BERT
		1111 1111		BRTIIEND	"X'FF'" End of BERTIEs
1	(1)	BITSTRING	1	BRTILEN	Length of BERTIE data (does not include this prefix)
1	(1)	X'2'	0	BRTIPLEN	"*-BERTIE" Prefix area length
2	(2)	BITSTRING	1	BRTIDATA(0)	Start of actual data

Table 22. Structure BERTI0

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	BERTI0	, Type 0 BERTIE
0	(0)	BITSTRING	1	BRT0LOCK	Lock byte (QSESIBSY value)
1	(1)	BITSTRING	1	BRT0FLG0	Type 0 flag byte
		1111		BRT0USEQ	"B'11110000'" Update sequence counter (4 bit count)
1	(1)	X'2'	0	BRT0LEN1	"*-BERTI0" Minimum type 0 BERTIE
2	(2)	BITSTRING	1	BRT0FLAG	General flags for chaining
3	(3)	BITSTRING	3	BRT0NXT1	1st CB chain field
6	(6)	BITSTRING	3	BRT0NXT2	2nd CB chain field
9	(9)	BITSTRING	1	BRT0KEY(0)	Search key
9	(9)	X'9'	0	BRT0LEN2	"*-BERTI0" Size with search key (plus key len)

Table 23. Structure BRTPREF

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	BRTPREF	, BERT CTENT prefix area
0	(0)	BITSTRING	10	BRTPBERT	Start with a standard prefix
10	(A)	SIGNED	2	BRTPLEN	Size of BERT perfix
12	(C)	SIGNED	4	BRTPFREE	Index of 1st free BERT
16	(10)	SIGNED	4	BRTPFNUM	Number of free BERTs
20	(14)	SIGNED	4	BRTPMAP	BERT token for NAME to ID map
24	(18)	BITSTRING	1	BRTPMXTY	Max known BERT type
25	(19)	BITSTRING	3		Reserved for future use
28	(1C)	SIGNED	4	(2)	Reserved for future use

BERT queue heads. There is one per entry even if they are not used. These must be in the same order as the ID number of control blocks.

Table 23. Structure BRTPREF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
28	(1C)	X'0'	0	BRTPQHED	"0,4,C'F'" Queue head part of entry
28	(1C)	X'4'	0	BRTPQHNM	"4,4,C'F'" Number of elements on queue
28	(1C)	X'8'	0	BRTPQHDL	"8"
36	(24)	SIGNED	4	BRTPQHDS(0)	--+ Start of queue heads
36	(24)	SIGNED	4	BRTPJQE	| First JQE BERT (not used)
40	(28)	SIGNED	4	BRTPJQEN	| Number of JQEs (not used)
44	(2C)	SIGNED	4	BRTPCAT	| First CAT BERT
48	(30)	SIGNED	4	BRTPCATN	| Number of CATs defined
52	(34)	SIGNED	4	BRTPWSCQ	| First WSCQ BERT
56	(38)	SIGNED	4	BRTPWSCN	--+ Number of WSCQs defined
56	(38)	X'3'	0	BRTPQHDN	"(*-BRTPQHDS)/BRTPQHDL" Number of queue heads
56	(38)	X'3'	0	BRTPQHMX	"(*-BRTPQHDS)/BRTPQHDL" Max queue heads
		BRTPINTH is a pointer to a chain of BERTs that represents the internal named BERT pointer structure. Named internal BERTs each have a number assigned using the BERTMAP and that number indexes into this structure. The 0th entry in the pointer structure is not used.			
60	(3C)	SIGNED	4	BRTPINTH	Named internal BERT pointer structure
60	(3C)	X'40'	0	BRTPSIZE	"*-BRTPREF" Size of prefix area
64	(40)	ADDRESS	2	(0)	Verify size

Table 24. Structure BRTMAP

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	BRTMAP	, BERTIE name to ID table
0	(0)	CHARACTER	8	BRTMNAME	Name of BERTIE (A value of all FF indicates end of table)
8	(8)	BITSTRING	1	BRTMTYPE	Control block type (see BRTTYPE for a list of valid values)
9	(9)	BITSTRING	1	BRTMID	ID assigned to this BERTIE name
10	(A)	BITSTRING	2		Reserved
12	(C)	SIGNED	4	(2)	Reserved for future use
12	(C)	X'14'	0	BRTMLEN	"*-BRTMAP" Length of map entry

Table 25. Structure BRTCNT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	BRTCNT	, BERT count array
0	(0)	CHARACTER	8	BRTCNAME	Name of BERT entry
8	(8)	BITSTRING	1	BRTCID	Control block type
9	(9)	BITSTRING	3		Reserved
12	(C)	SIGNED	4	BRTCMAIN	Sequence one BERT count
16	(10)	SIGNED	4	BRTCNUM	Total BERT count
16	(10)	X'14'	0	BRTCLEN	"*-BRTCNT" Size of an entry

Table 25. Structure BRTCNT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
16	(10)	X'1400'	0	BRTCSIZE	"BRTCLEN*256" Size of a full array

Table 26. Cross Reference for $BERT

Name	Offset	Hex Tag
BERT	0	
BERTIE	0	
BERTI0	0	
BERTVERS	0	1
BRTCAT	0	2
BRTCB	1	
BRTCID	8	
BRTCLEN	10	14
BRTCMAIN	C	
BRTCNAME	0	
BRTCNT	0	
BRTCNUM	10	
BRTCSIZE	10	1400
BRTDATA	A	
BRTFREE	0	FF
BRTIDATA	2	
BRTIICNT	0	FE
BRTIID	0	
BRTIIEND	0	FF
BRTILEN	1	
BRTINT	0	0
BRTIPLEN	1	2
BRTJQE	0	1
BRTLEN	A	40
BRTMAP	0	
BRTMID	9	
BRTMLEN	C	14
BRTMNAME	0	
BRTMTYPE	8	
BRTNEXT	5	
BRTPBERT	0	
BRTPCAT	2C	
BRTPCATN	30	
BRTPFNUM	10	
BRTPFREE	C	
BRTPINTH	3C	
BRTPJQE	24	
BRTPJQEN	28	
BRTPLEN	A	
BRTPMAP	14	
BRTPMXTY	18	
BRTPQHDL	1C	8

Table 26. Cross Reference for $BERT (continued)

Name	Offset	Hex Tag
BRTPQHDN	38	3
BRTPQHDS	24	
BRTPQHED	1C	0
BRTPQHMX	38	3
BRTPQHNM	1C	4
BRTPREF	0	
BRTPRLEN	8	A
BRTPSIZE	3C	40
BRTPWSCN	38	
BRTPWSCQ	34	
BRTSEQ	4	
BRTTYPE	0	
BRTWALLY	0	
BRTWSCQ	0	3
BRTWYDYN	A	0
BRTWYNAM	A	1000
BRTWYNIB	A	800000
BRT0FLAG	2	
BRT0FLG0	1	
BRT0KEY	9	
BRT0LEN1	1	2
BRT0LEN2	9	9
BRT0LOCK	0	
BRT0NXT1	3	
BRT0NXT2	6	
BRT0USEQ	1	F0

Chapter 12. $BERTTAB Information

$BERTTAB Programming Interface Information

$BERTTAB is a programming interface.

$BERTTAB Heading Information

Common Name: BERT table entry
Macro ID: $BERTTAB
DSECT Name: BRTT
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: None
Storage Attributes:
```
Subpool:   N/A
Key:       N/A
Residency: These table entries are part of the HASJES20 load
module and are located below 16M.  Real storage can
be anywhere.
```

Size: See BRTTELEN
Created by: $BERTTAB macro expantion in HASPTAB
Pointed to by:
```
MCTBRTTU field of the $MCT     data area
MCTBRTTH field of the $MCT     data area
```
Serialization: None required
Function:
```
This DSECT maps entries in the BERT table pairs
which describe variable extensions to JES2 CKPTed
control blocks.
```

$BERTTAB mapping

Table 27. Structure BRTT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	BRTT	
0	(0)	CHARACTER	8	BRTTNAME	Name of section (<KEY> if key entry)
8	(8)	BITSTRING	1	BRTTTYPE	Control block type
8	(8)	X'0'	0	BRTTINT	"$DGBINT" Named internal CB
8	(8)	X'1'	0	BRTTJQE	"$DGBJQE" JQE extension
8	(8)	X'2'	0	BRTTCAT	"$DGBCAT" Class attribute table
8	(8)	X'3'	0	BRTTWSCQ	"$DGBWSCQ" WLM service class queue
8	(8)	X'FF'	0	BRTTDYN	"$DGBDYN" Dynamically defined type
9	(9)	BITSTRING	1	BRTTFLAG	General flag byte
		1...		BRTTUSER	"B'10000000'" USER table (not HASP)
		.1..		BRTTKEY	"B'01000000'" This entry describes a flag
		..1.		BRTTOFFV	"B'00100000'" The offset of this entry is dynamically generated

Table 27. Structure BRTT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		BRTTOLAP	"B'00010000'" This entry may overlap other entries in this CB
10	(A)	SIGNED	2	BRTTOFF	Offset of data area
12	(C)	BITSTRING	1	BRTTLEN	Length of section
13	(D)	BITSTRING	1	BRTTFILL	Fill character
14	(E)	BITSTRING	2		Reserved
16	(10)	CHARACTER	8	BRTTTNAM	CB type name
24	(18)	SIGNED	4	(0)	Align BRTT entry
24	(18)	X'18'	0	BRTTELEN	"*-BRTT" Length of BRTT entry DSECT

Table 28. Cross Reference for $BERTTAB

Name	Offset	Hex Tag
BRTT	0	
BRTTCAT	8	2
BRTTDYN	8	FF
BRTTELEN	18	18
BRTTFILL	D	
BRTTFLAG	9	
BRTTINT	8	0
BRTTJQE	8	1
BRTTKEY	9	40
BRTTLEN	C	
BRTTNAME	0	
BRTTOFF	A	
BRTTOFFV	9	20
BRTTOLAP	9	10
BRTTTNAM	10	
BRTTTYPE	8	
BRTTUSER	9	80
BRTTWSCQ	8	3

Chapter 13. $BLDMSGL Information

$BLDMSGL Programming Interface Information

$BLDMSGL is a programming interface.

$BLDMSGL Heading Information

Common Name: Build Message Parameter List
Macro ID: $BLDMSGL
DSECT Name: BLD
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'BLD '
Offset: BLDID-BLD
Length: 4
Storage Attributes: Subpool: Subpool 1 for the $BLDMSG MF=(I) case;
Subpool is unknown if $BLDMSG
MF=(E,address) case.
Key: 1
Residency: JES2 address space. Virtual and Real are above
or below the 16M line.

Size: See BLDSIZE
Created by: $BLDMSG macro
Pointed to by: R1 when routine $MSGSCAN is called
Serialization: JES2 main task re-entrancy.
Function: This control block contains all the information
needed to invoke $SCAN to create a message. It also
has the information necessary to write the message
lines created by $SCAN as part of the "DISPRTN"
operand of the $SCAN macro.

$BLDMSGL mapping

Table 29. Structure BLD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	BLD	HASP $BLDMSG PARM LIST DSECT
0	(0)	CHARACTER	4	BLDID	EBCDIC CONTROL BLOCK ID, SET BY $GETWORK VIA USE=BLD
4	(4)	BITSTRING	4	BLDCONID	Console id
8	(8)	ADDRESS	4	BLDCART	Address of the CART
12	(C)	ADDRESS	4	BLDJOBID	Pointer for given jobid
16	(10)	ADDRESS	4	BLDCBA	Control block address
20	(14)	ADDRESS	4	BLDISPR	Display routine address
24	(18)	ADDRESS	4	BLDADDR(6)	Work area definitions
WORK AREA DEFINITION IF BLD1WTOR IS ON					
24	(18)	ADDRESS	4	BLDECB	ADDRESS OF ECB
28	(1C)	ADDRESS	4	BLDREPLY	ADDRESS OF REPLY AREA
32	(20)	ADDRESS	4	BLDLEN	LENGTH OF REPLY AREA
36	(24)	BITSTRING	8	BLDWORK(0)	Work area used by $REPLY

Table 29. Structure BLD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
36	(24)	SIGNED	4	BLDDOMID	MESSAGE ID USED IN DOM MACRO
40	(28)	SIGNED	4	BLDHUHDM	DOM ID FOR HUH MESSAGE
44	(2C)	ADDRESS	4	BLDREPV	Address of reply vector
		WORK AREA DEFINITION IF BLD1WTO OR BLD1CMB IS ON			
24	(18)	DBL WORD	8	BLDMTMSP	Message timestamp
32	(20)	SIGNED	4	BLDJGIDX	Jobgroup JQE index
36	(24)	SIGNED	4	BLDCNNCT	CONNECT ID FOR MULTI-LINE WTO
40	(28)	SIGNED	4	BLDJGKEY	Jobgroup JQE job key
44	(2C)	SIGNED	4	BLDRSAVE	Save area for one register
48	(30)	ADDRESS	4	BLDCR11	R11 of caller for $BLDMSG
52	(34)	BITSTRING	2	BLDROUT	Route code for message
54	(36)	BITSTRING	2	BLDDESC	Descriptor codes for msg
56	(38)	CHARACTER	4	BLDMSGID	MESSAGE ID
60	(3C)	BITSTRING	1	BLDSEPAR	Separator character
61	(3D)	BITSTRING	1	BLDFLAG1	Flag byte
		1...		BLD1WTO	"B'10000000'" BUILD WTO OR MLWTO MF=L
		.1..		BLD1WTOR	"B'01000000'" BUILD WTOR MF=L
		..1.		BLD1CMB	"B'00100000'" BUILD CMB
		...1		BLD1WAIT	"B'00010000'" $WAIT IS ALLOWED
		.... 1...		BLD1JQE	"B'00001000'" Prefix job id from JQE
		.... .1..		BLD1JID	"B'00000100'" Prefix job id from given id
		.... ..1.		BLD1REPV	"B'00000010'" Reply vector proc. required
		1		BLD1GETW	"B'00000001'" This area obtained via $GETWORK
62	(3E)	BITSTRING	1	BLDISPER	'DISPER' character
63	(3F)	BITSTRING	1	BLDFLAG2	Flag byte 2
		1...		BLD2LOGO	"B'10000000'" LOGONLY=YES is specified
		.1..		BLD2ROUT	"B'01000000'" Route codes are set
		..1.		BLD2DESC	"B'00100000'" Descriptor codes are set
		...1		BLD2LONG	"B'00010000'" LONG=YES is specified
		.... 1...		BLD2GETC	"B'00001000'" This area obtained via $GETHP
		.... .1..		BLD2HCCT	"B'00000100'" Display routine R11=HCCT
		.... ..1.		BLD2HCT	"B'00000010'" Display routine R11=HCT
		1		BLD2NMUL	"B'00000001'" MULTI=NO is specified
64	(40)	BITSTRING	1	BLDFLAG3	Flag byte 3
		1...		BLD3BRAN	"B'10000000'" BRANCH=YES is specified
		.1..		BLD3DEST	"B'01000000'" DEST= is specified
		..1.		BLD3JGR	"B'00100000'" JOBGROUP=YES specified

Table 29. Structure BLD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
65	(41)	CHARACTER	8	BLDDESTN	Symbolic name of dest.
73	(49)	BITSTRING	15		Reserved for future use
88	(58)	ADDRESS	4	(0)	Ensure multiple of 4
88	(58)	X'58'	0	BLDSIZE	"*-BLD"

Table 30. Cross Reference for $BLDMSGL

Name	Offset	Hex Tag
BLD	0	
BLDADDR	18	
BLDCART	8	
BLDCBA	10	
BLDCNNCT	24	
BLDCONID	4	
BLDCR11	30	
BLDDESC	36	
BLDDESTN	41	
BLDDOMID	24	
BLDECB	18	
BLDFLAG1	3D	
BLDFLAG2	3F	
BLDFLAG3	40	
BLDHUHDM	28	
BLDID	0	
BLDISPER	3E	
BLDISPR	14	
BLDJGIDX	20	
BLDJGKEY	28	
BLDJOBID	C	
BLDLEN	20	
BLDMSGID	38	
BLDMTMSP	18	
BLDREPLY	1C	
BLDREPV	2C	
BLDROUT	34	
BLDRSAVE	2C	
BLDSEPAR	3C	
BLDSIZE	58	58
BLDWORK	24	
BLD1CMB	3D	20
BLD1GETW	3D	1
BLD1JID	3D	4
BLD1JQE	3D	8
BLD1REPV	3D	2
BLD1WAIT	3D	10
BLD1WTO	3D	80
BLD1WTOR	3D	40
BLD2DESC	3F	20
BLD2GETC	3F	8

Table 30. Cross Reference for $BLDMSGL (continued)

Name	Offset	Hex Tag
BLD2HCCT	3F	4
BLD2HCT	3F	2
BLD2LOGO	3F	80
BLD2LONG	3F	10
BLD2NMUL	3F	1
BLD2ROUT	3F	40
BLD3BRAN	40	80
BLD3DEST	40	40
BLD3JGR	40	20

Chapter 14. $BUFFER Information

$BUFFER Programming Interface Information

$BUFFER is a programming interface.

$BUFFER Heading Information

Common Name:	HASP Buffer
Macro ID:	$BUFFER
DSECT Name:	BFPDSECT, SPBRECD, BFD
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'BUF ' Offset: BFPID-BFPDSECT Length: 4
Storage Attributes:	Subpool: BSC buffers are in subpool 6. VTAM buffers are in subpool 16. HASP buffers are in subpool 8. UBUF, PBUF, HBUF, GBUF and SUBST buffers are in subpool 229. CB buffers in the JES2 main task environment are in subpool 7. CB buffers in the USER environment are in subpool 230. PAGE buffers are in subpool 14. PP buffers are in subpool 15. Key: BSC, VTAM, HASP, CB, HBUF, GBUF, PAGE and PP buffers are in key 1. UBUF buffers are in the key of the associated TCB. PBUF buffers are in key 5. Residency: Virtual and real storage for BSC, HASP, PAGE and PP buffers are below 16M in the private storage of the JES2 address space. Virtual and real storage for VTAM and CB (main task) buffers are anywhere (above or below 16M) in the private storage of the JES2 address space. Virtual and real storage for UBUF, PBUF, HBUF and GBUF buffers are above or below 16M in the address space of the application for which the I/O is being done. Virtual storage for CB buffers (USER environment) is anywhere (above or below 16M) except for CB buffers used for JCTs which must be below 16M. Real storage for CB buffers in the USER environment is anywhere.

$BUFFER Heading Information

Size: The size varies depending on the type of buffer. The size of BSC buffers is specified by the initialization statement TPDEF BELOWBUF= SIZE=. The size of VTAM buffers is specified by the initialization statement TPDEF EXTBUF= SIZE. PAGE, PBUF, UBUF, HBUF and GBUF buffers are 4096 bytes. The size of HASP and CB buffers is specified by the initialization statement SPOOLDEF BUFSIZE=. The following formula gives the size for PP buffers:

```
-  2X + (BUFFER PREFIX AREA)
-  WHERE X = MAX ($NOPRCCW*8+PCIESIZE+JOESIZE,
-                 $NOPUCCW*8+PCIESIZE+JOESIZE,
-                 ($TCELSIZ*4-3)*4)
```

Created by: In environments other than the USER environment, the storage is obtained by the $CPOOL services called during JES2 initialization, or by the $GETBUF service. In the USER environment, storage is obtained via $GETBUF.
The control block is filled in by: bi-synch processing for BSC buffers, SNA processing for VTAM buffers, print/punch processing for PAGE and PP buffers, HASP Access Method (HAM) for PBUF, UBUF, HBUF and GBUF buffers, $CBIO services for CB buffers, and various JES2 processors for HASP buffers.

Pointed to by:

BATBUF field of the $BAT data area
BUFCHAIN field of the $BUFFER data area
BUFCHEQ field of the $BUFFER data area
DCTBUFAD field of the $DCT data area
MDCTOBUF field of the $DCT data area
RIDUBF field of the $DCT data area
RIDPBF field of the $DCT data area
DSSABUF field of the $DSSCB data area
DSSNBUF field of the $DSSCB data area
GCBMBUF field of the $GCB data area
$ASYNCQ field of the $HCT data area
$MIGRIOQ field of the $HCT data area
$BSCCHEQ field of the $HCT data area
$MCONMSG field of the $HCT data area
$RPLCOMQ field of the $HCT data area
$XFRBEND field of the $HCT data area
HFCTBUFS field of the $HFCT data area
ICEINHD field of the $ICE data area
ICEINTL field of the $ICE data area
ICEOUTBF field of the $ICE data area
ICEOUTHD field of the $ICE data area
ICEOUTTL field of the $ICE data area
ICEBUFAD field of the $ICE data area
JIBCPBUF field of the $JIB data area
MLMRLPQ field of the $MLMWORK data area
MLMBSCQ field of the $MLMWORK data area
PCEBUFAD field of the $PCE data area
PCIBUFAD field of the $PCIE data area
PCTINQ field of the $PCT data area
PCTVINQ field of the $PCT data area
PCTSINQ field of the $PCT data area
SDBUBF field of the $SDB data area
SDBPBF field of the $SDB data area
SDBCBF field of the $SDB data area
SDBCBFC field of the $SDB data area
SDBCBF1 field of the $SDB data area
SDBGBF field of the $SDB data area
SDBHBF field of the $SDB data area
SJBSWBUF field of the $SJB data area
Some pointers within control blocks in buffers point to other control blocks in buffers (for example, $JCT and $IOT).
Various fields in the processor work areas, parameter lists and exit parameter lists (XPL).

Serialization:

Compare and swap logic is used to chain and dechain buffers. Buffers are used in JES2 and application tasks as well as in asynchronous I/O processing (IRBs, SRBs, appendages). Implicit additional serialization is provided by the SJB lock and/or the Local lock in the USER environment and JES2 reentrancy techniques in the JES2 main task environment.

$BUFFER Heading Information

Function: Buffers are used to buffer data as part of the JES2 processing for spool data sets or devices. They are used to hold data, channel programs and parameter lists for interfacing with MVS IOS, VTAM and other I/O access methods.
There are multiple types of buffers mapped by $BUFFER. Many types of buffers have control blocks associated with them that contain additional information required to use the buffer for I/O (for example, channel programs).
A HASP buffer is a local buffer used to read or write SYSIN or SYSOUT data.
A BSC buffer is a teleprocessing buffer used for BSC NJE and RJE.
A VTAM buffer is a teleprocessing buffer used for SNA NJE and RJE.
A PAGE buffer is a local 4096-byte buffer used for I/O to local non-impact printers supported directly by JES2. PAGE buffers are also used for BSAM spool offload I/O.
A PP buffer is a local print/punch buffer that contains an IOB and the CCWs required to do I/O from PAGE buffers to local non-impact printers.
A PROT buffer (PBUF) is a protected buffer used for spool I/O by the HASP Access Method (HAM).
An UNPROT buffer (UBUF) is an unprotected buffer used as a staging area for HAM. No I/O is actually done using this buffer. When a UBUF being used for output is full or input needs to be replenished, an associated PBUF is used.
A CB buffer is a control block buffer used by the $CBIO service for I/O.
A HOLD buffer (HBUF) is an unprotected buffer which is used for GET/UPDATE by HAM. A GBUF is a protected HOLD buffer used for GET/UPDATE.
For additional information see $GETBUF, $CBIO and $EXCP in "JES2 Customization".

$BUFFER mapping

Table 31. Structure BFPDSECT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	BFPDSECT	START OF BUFFER PREFIX
0	(0)	CHARACTER	4	BFPID	BUFFER INDENTIFIER
4	(4)	SIGNED	4	BFPBAT	ADDRESS OF AUXILIARY BUFFER
4	(4)	X'4'	0	BFPSWEL	"BFPBAT,,C'A'" Address of SWEL (TP buffers in process of signon only)
8	(8)	ADDRESS	4	BUFCHAIN	BUFFER CHAIN FIELD
12	(C)	BITSTRING	1	BUFTYPE	BUFFER TYPE
		....		BUFLOCAL	"B'00000000'" LOCAL BUFFER
		The BUFFIX and BUFMULT EQUs are the same as $GTB1FIX and $GTB1MUL EQUs in $PARMLST			
		1...		BUFFIX	"B'10000000'" Page-fix request

Table 31. Structure BFPDSECT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		BUFMULT	"B'01000000'" Multiple buffer request
		..1.		BUFIOB	"B'00100000'" IOB in front of the buffer
		...1		BUFRPL	"B'00010000'" RPL IN FRONT OF BUFFER
		.... 1...		BUFDECB	"B'00001000'" DECB IN FRONT OF BUFFER
		.... .111		BUFBPMT	"B'00000111'" Buffer type (see below)
		1		BPMTBSC	"B'00000001'" BSC buffer type
		.... ..1.		BPMTCB	"B'00000010'" CB buffer type
		11		BPMTHASP	"B'00000011'" HASP buffer type
		.... .1..		BPMTPAGE	"B'00000100'" PAGE buffer type
		.... .1.1		BPMTPP	"B'00000101'" Print/Punch buffer type
		.... .11.		BPMTVTAM	"B'00000110'" VTAM buffer type
		.... .111		BPMTHAM	"B'00000111'" HAM HDB buffer
		1111 1111		BPMTUSCB	"B'11111111'" User environment CB buffer
12	(C)	X'21'	0	BUFBSC	"BUFLOCAL+BUFIOB+BPMTBSC"
12	(C)	X'22'	0	BUFCB	"BUFLOCAL+BUFIOB+BPMTCB"
12	(C)	X'23'	0	BUFHASP	"BUFLOCAL+BUFIOB+BPMTHASP"
12	(C)	X'16'	0	BUFVTAM	"BUFRPL+BPMTVTAM"
12	(C)	X'24'	0	BUFPAGE	"BUFLOCAL+BUFIOB+BPMTPAGE"
12	(C)	X'C'	0	BUFSPXFR	"BUFLOCAL+BUFDECB+BPMTPAGE"
12	(C)	X'25'	0	BUFPP	"BUFLOCAL+BUFIOB+BPMTPP"
13	(D)	CHARACTER	1	BUFECBCC	I/O COMPLETION CODE
		1		BUFCCFCB	"X'01'" HASPIMAG - BAD FCB
14	(E)	BITSTRING	1	BUFFLAG1	Buffer flag byte
		1...		BFPTHMGR	"B'10000000'" BUFFER BELONGS TO PATH MGR
		WARNING - The bit below has a different use depending on the Environment.			
		.1..		BUF1WIN	"B'01000000'" User ENV - Write in progress flag (only used by USER ENV I/O)
		.1..		BUF1EXVR	"B'01000000'" Main Task ENV - On REDO issue EXCPVR instead of EXCP (only used by MAIN TASK I/O).
		..1.		BUF1SINT	"B'00100000'" Simulated I/O error
		...1		BUF1PERM	"B'00010000'" Permanent I/O error
		.... 1...		BUF1CHEN	"B'00001000'" Channel end appendage processed buffer
		.... .1..		BUF1DASD	"B'00000100'" I/O to DASD device
		.... ..1.		BUF1REDO	"B'00000010'" Redo I/O (only used by MAIN TASK I/O).

Table 31. Structure BFPDSECT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1		BUF1MIGO	"B'00000001'" During spool migration, override mapped volume consideration (only used by MAIN TASK I/O).
15	(F)	BITSTRING	1	BUFMIGTC	Migration transition count (only used by MAIN TASK I/O).
16	(10)	ADDRESS	4	BFPDCT	ADDRESS OF DEVICE CONTROL TABLE
20	(14)	ADDRESS	4	BFPEWF	PCE WITH EWF TO POST OR EXIT ADDRESS
20	(14)	X'18'	0	BFPLEN	"*-BFPDSECT" LENGTH OF BUFFER PREFIX
24	(18)	BITSTRING	1	BUFIOBST	Define IOB work area
		Remapping of fields inside a standard IOB			
24	(18)	X'2C'	0	TPBMXREC	"IOBINCAM,1,C'C'" Max RJE output record count
24	(18)	X'2D'	0	IOBECBSV	"IOBINCAM+1,1" I/O COMPLETION SAVE AREA
24	(18)	X'30'	0	TPBLCCC	"IOBXTENT,1,C'C'" Last rmt output command op.
24	(18)	X'30'	0	TPBLCCAD	"IOBXTENT,4,C'A'" Addr of last remote CC
24	(18)	X'30'	0	IOBXTENT	"IOBM,1,C'C'" DEB extent
		Note that last 4 bytes of IOBSEEK overlap TPBFDATA, which is not used in a buffer for DASD I/O.			
60	(3C)	CHARACTER	1	TPBRECNT(0)	CURRENT REMOTE OUTPUT RECORD COUNT
60	(3C)	SIGNED	4	TPBFDATA	REMOTE DATA POINTER
64	(40)	CHARACTER	1	LCBMCB	REMOTE MODE BYTE
64	(40)	X'40'	0	PPBFLAG1	"LCBMCB" IOB BUFF WHERE LAST PCI
65	(41)	CHARACTER	1	BUFCHOFF(0)	OFFSET OF 1ST BUFFER IN TRACKCELL
65	(41)	CHARACTER	1	LCBACK	REMOTE NEXT ACKNOWLEDGEMENT
66	(42)	SIGNED	2	BUFCHNCT(0)	COUNT OF BUFFERS IN CHAIN
66	(42)	SIGNED	2	LCBRCB	REMOTE RESPONSE CONTROL BLOCK
68	(44)	SIGNED	4	BUFCHECB(0)	$EXCP ECB
68	(44)	SIGNED	4	BUFCHEQ	Channel end queue chain
72	(48)	DBL WORD	8	IOBCCW1	CHANNEL COMMAND WORD 1
80	(50)	DBL WORD	8	IOBCCW2	CHANNEL COMMAND WORD 2
88	(58)	DBL WORD	8	IOBCCW3	CHANNEL COMMAND WORD 3
96	(60)	DBL WORD	8	IOBCCW4	CHANNEL COMMAND WORD 4
		PP BUFFER SYNCHRONIZATION INFORMATION			
72	(48)	SIGNED	4	PPBPCIE	ADDRESS OF ACTIVE PCIE
76	(4C)	SIGNED	4	PPBCCWNX	ADDRESS OF NEXT CCW AREA
80	(50)	SIGNED	4	PPBLVCCN	LAST-VALID CCW IN NEXT AREA
84	(54)	BITSTRING	6	PPBCMQTR	Current punch
90	(5A)	CHARACTER	2	PPBCRCB	restart fields
92	(5C)	CHARACTER	1	PPBCBOFF	(keep together)
93	(5D)	BITSTRING	6	PPBNMQTR	Next punch
99	(63)	CHARACTER	2	PPBNRCB	restart fields
101	(65)	CHARACTER	1	PPBNBOFF	(keep together)
102	(66)	CHARACTER	2	PPBDISPL	OFFSET OF 2ND IOB BUFFER

Table 31. Structure BFPDSECT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
60	(3C)	SIGNED	4	PPBLVCCC	LAST VALID CCW IN CURRENT AREA
		Define memory-only fields for control block I/O. These utility fields will be accessed using definitions in the control blocks using the fields (for example the IOT). The access will be via the use of EQU. For example IOTIOT (a memory chain pointer for the IOT) could be defined as: IOTIOT EQU BUFMEMW1-BFPDSECT+IOT The advantage of defining the fields at this point in the buffer is that this part of the buffer is never written to SPOOL and thus there is no exposure to residual data being available when the buffer is read from SPOOL later. This area is zeroed in the $CBIO support routines just before a control block is read.			
56	(38)	DBL WORD	8	BUFMEMD1	Memory-only double word
64	(40)	ADDRESS	4	BUFMEMW1	First memory-only word
68	(44)	ADDRESS	4	BUFMEMW2	Second memory-only word
72	(48)	ADDRESS	4	BUFMEMW3	Third memory-only word
76	(4C)	ADDRESS	4	BUFMEMW4	Fourth memory-only word
		Flag byte BUFMEMF1 is currently defined to use only for control block I/O (eg. IOT.) For general use (eg. HDB buffers), flag byte BUFMEMF4 should be used with neccessary bit definitions defined in corresponding DSECT.			
80	(50)	BITSTRING	1	BUFMEMF1	First memory-only flag
80	(50)	X'50'	0	BUFMFLG1	"BUFMEMF1" Memory only flag
		1...		BUFM1CKP	"B'10000000'" Control block needs to be written to SPOOL
		.1..		BUFM1CK2	"B'01000000'" Secondary CKPT flag (only set for IOTs)
81	(51)	BITSTRING	1	BUFMEMF2	Second memory-only flag
82	(52)	BITSTRING	1	BUFMEMF3	Third memory-only flag
83	(53)	BITSTRING	1	BUFMEMF4	Fourth memory-only flag. For general use, see specific control block for bit definitions.
84	(54)	ADDRESS	4	BUFMEMW5	Fifth memory-only word
88	(58)	ADDRESS	4	BUFMEMW6	Sixth memory-only word
92	(5C)	ADDRESS	4	BUFMEMW7	Seventh memory-only word
96	(60)	ADDRESS	4	BUFSJIOB	SJIOB address ($CBIO in USER environment)
100	(64)	ADDRESS	4	BUFWRTBK	Buffer backward chain pointer during CB chain write in user environment
100	(64)	X'38'	0	BUFMEM	"BUFMEMD1,*-BUFMEMD1,C'X'" Name of composite area
		An assembly error on the following statement implies that there has been too much "redefinition" of the buffer prefix area. Ensure the redefinition does not exceed 6 double words.			
104	(68)	ADDRESS	2	(0)	See above
		Start of data area in SPOOL buffers			

Table 31. Structure BFPDSECT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
104	(68)	DBL WORD	8	BUFSTART(0)	START OF BUFFER WORK SPACE
The following sub-section, generated by the SPID macro, must reside immediately after the I/O control data in every spool buffer. The following fields are defined: Eyecatcher - 4 bytes Job name - 8 bytes Job number - 4 bytes Job key - 4 bytes Dataset key - 4 bytes (or reserved if not applicable)					
104	(68)	CHARACTER	4	HDBID	Eyecatcher
108	(6C)	CHARACTER	8	HDBJNAME	Job name
116	(74)	SIGNED	4	HDBJBNUM	Job number
120	(78)	BITSTRING	8	HDBKEY(0)	Record verification key
120	(78)	SIGNED	4	HDBJBKEY	Job key
124	(7C)	SIGNED	4	HDBDSKEY	Dataset key
124	(7C)	X'18'	0	HDBSPLNG	"*-HDBID"
128	(80)	SIGNED	4	HDBNXTRK	HASP DATA BLOCK CHAIN TRACK
132	(84)	SIGNED	4		Reserved
132	(84)	X'88'	0	HDBSTART	"*" HASP DATA BLOCK START
BSC TP buffer fields					
104	(68)	DBL WORD	8	IOBCCW5	CHANNEL COMMAND WORD 5
112	(70)	DBL WORD	8	IOBCCW6	CHANNEL COMMAND WORD 6
120	(78)	DBL WORD	8	IOBCCW7	CHANNEL COMMAND WORD 7
128	(80)	DBL WORD	8	IOBCCW8	CHANNEL COMMAND WORD 8
128	(80)	X'70'	0	BUFIOBSZ	"*-BUFIOBST" IOB LENGTH
136	(88)	SIGNED	4	TPBUFST(0)	START OF REMOTE BUFFER WORK SPACE
136	(88)	X'F78'	0	$MAXTPBS	"(4096+7-(TPBUFST-BFPDSECT))/8*8" Max bisynch buffer size
136	(88)	X'7F00'	0	$SNABFMX	"(32768-256)" Max SNA buffer size
SPOOL OFFLOAD BUFFER FORMAT. THE FIELD SPBSTART MUST ALWAYS BE X'36' BYTES INTO THE BUFFER TO ENSURE A CONSISTENT AMOUNT OF DATA IS BEING READ OR WRITTEN.					
24	(18)	SIGNED	4	SPBCHAN2	SECONDARY BUFFER CHAIN FIELD
28	(1C)	SIGNED	4	SPBFDATA	POINTER TO NEXT RECORD
32	(20)	SIGNED	2	SPBRECNT	SPOOL TRANSFER BUFFER REC CNT
34	(22)	BITSTRING	1	SPBFLAG1	SPOOL OFFLOAD BUFFER FLAGS
54	(36)	BITSTRING	1	SPBSTART(0)	START OF DATA SECTION OF BUFFER

Table 32. Structure SPBRECD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SPBRECD	, START OF LOGICAL RECORD
0	(0)	BITSTRING	1	SPBRCB	RECORD RCB
1	(1)	BITSTRING	1	SPBSRCB	RECORD SRCB
2	(2)	BITSTRING	1	SPBTYPE	RECORD TYPE
3	(3)	BITSTRING	2	SPBDLEN	RECORD LENGTH FOR DATA RECORD
5	(5)	BITSTRING	1	SPBRDATA(0)	START OF DATA PORTION OF RECORD

Table 32. Structure SPBRECD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
5	(5)	X'0'	0	SPBHDR	"SPBRCB,*-SPBRCB" DISPL AND LENGTH OF RECORD HDR
5	(5)	X'3'	0	SPBEOFID	"SPBDLEN" EOF TYPE FOR EOF RECORD
	SPBTYPE DEFINITIONS				
5	(5)	X'1'	0	SPBTYPD	"1" TYPE IS DATA RECORD
5	(5)	X'2'	0	SPBTYPEF	"2" TYPE IS EOF RECORD
5	(5)	X'3'	0	SPBTYPEB	"3" TYPE IS END OF BUFFER RECORD
	SPBEOFID DEFINITIONS				
5	(5)	X'1'	0	SPBEOFOK	"1" NORMAL EOF REACHED
5	(5)	X'2'	0	SPBEOFAB	"2" ABNORMAL EOF REACHED
	SPBFLAG1 DEFINITIONS				
		1...		SPBSYNAD	"B'10000000'" PERM I/O ERROR HAS OCCURED
		.1..		SPBEODAD	"B'01000000'" END OF DATA HAS OCCURED
		..1.		SPBSKIP	"B'00100000'" BUFFER IS TO BE SKIPPED

Table 33. Structure BFD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	BFD	Start of HAM buffer prefix
0	(0)	CHARACTER	4	BFDID	Buffer identifier
4	(4)	SIGNED	4	BFDBAT	Address of auxiliary buffer
8	(8)	ADDRESS	4	BFDCHAIN	Buffer chain field
12	(C)	BITSTRING	1	BFDTYPE	Buffer type (see BUFTYPE)
13	(D)	BITSTRING	1	BFDMIGT	Migration transition count captured from DAS when I/O is queued
14	(E)	SIGNED	2	BFDLEN	Length remaining in buffer
16	(10)	DBL WORD	8	(0)	Alignment for BFDCCWS
16	(10)	BITSTRING	56	BFDCCWS	CCWs for write processing
16	(10)	CHARACTER	8	BFDFSRBA	First seg spanned RBA addr
24	(18)	SIGNED	4	BFDSPNRG(4)	Suspended GET R2-R5
40	(28)	SIGNED	4	BFDSPNR9	R9 and
44	(2C)	SIGNED	4	BFDSPNRC	R12 save area
48	(30)	ADDRESS	4	BFDSCDR	SPOOL data record in UBF (indexed DS GET)
52	(34)	BITSTRING	7	BFDSCDWK	SCDR work area (part of BUFMEMD1)
59	(3B)	BITSTRING	1	BFDCCWRK	Carriage control work area
60	(3C)	BITSTRING	1	BFDFLAG3	More flags: (also part of BUFMEMD1)
		1...		BFD3RDYR	"B'10000000'" record with result of sym substitution is in a substitution buffer in SDBYSUBF
64	(40)	SIGNED	8	BFDCRECN	Current record number (also BUFMEMW1/BUFMEMW2)
72	(48)	ADDRESS	4	BFDSDB	In HAM, addr of owning SDB

Table 33. Structure BFD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
72	(48)	X'48'	0	BFDPCE	"BFDSDB,4,C'A'" In HAM, addr of owning PCE
76	(4C)	BITSTRING	1	BFDECBCC(0)	I/O completion code
76	(4C)	SIGNED	4	BFDECB	ECB on which to wait (also BUFMEMW4)
80	(50)	BITSTRING	1	BFDFLAG1	Flag byte 1 (also BUFMEMF1)
		1...		BFD1EOB	"B'10000000'" END-OF-BUFFER indicator
		.1..		BFD1PUAC	"B'01000000'" PUT update active
		..1.		BFD1MQTR	"B'00100000'" BFDTRK contains an MQTR
		...1		BFD1ENDR	"B'00010000'" ENDREQ created buffer
		.... 1...		BFD1RSKP	"B'00001000'" Records skipped due to I/O error on GET
	BFDFLAG1 flags, for internal reader only				
		.... 1...		BFD1IEOF	"B'00001000'" PUT request for EOF
		.... .1..		BFD1IDEL	"B'00000100'" PUT req for DEL or PURGE
		.... ..1.		BFD1IERQ	"B'00000010'" ENDREQ request
		1		BFD1ICLS	"B'00000001'" CLOSE request
81	(51)	BITSTRING	1	BFDFLAG2	Flag byte 2 (also IOTFLAG5, BUFMEMF2)
		1...		BFD2CSDB	"B'10000000'" Buffer queue for HAM PUT
		.1..		BFD2CSFR	"B'01000000'" HAM PUT should free bfr
		..1.		BFD2RPBF	"B'00100000'" Try again to fill PBF
		...1		BFD2IOE	"B'00010000'" I/O error encountered
		.... 1...		BFD2PCE	"B'00001000'" PCE owns I/O
		.... .1..		BFD2SRBF	"B'00000100'" SRB failed to obtain bfr
		.... ..1.		BFD2MGSK	"B'00000010'" Skip migration processing
		1		BFD2SOVR	"B'00000001'" Source override - use source DAS for I/O
	BFDTRK/BFDTRKQ use BUFMEMF3/BUFMEMF4/BUFMEMW5				
82	(52)	BITSTRING	4	BFDTRK(0)	Track address of buffer
82	(52)	BITSTRING	6	BFDTRKQ	MQTR address of buffer
	BFDRBA uses BUFMEMW6/BUFMEMW7				
88	(58)	DBL WORD	8	(0)	Alignment for BFDRBA
88	(58)	CHARACTER	8	BFDRBA	Relative block address
96	(60)	ADDRESS	4	BFDTCB	TCB address for FREEMAIN
100	(64)	ADDRESS	4	BFDLOC	Current location in buffer
104	(68)	DBL WORD	8	BFDSTART(0)	Start of data in buffer
	Fields only used for substitution buffer (TYPE=SUBST).				

Table 33. Structure BFD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
104	(68)	SIGNED	4	BFDYSLEN	Allocated buffer size
108	(6C)	SIGNED	4	BFDYSSAV(18)	Save area for HAM use
180	(B4)	CHARACTER	20	BFDYSRCN	Left adjusted printable record number (logging)
200	(C8)	SIGNED	4	BFDYSRNL	Length of rec number
204	(CC)	CHARACTER	12	BFDYSTRN	Printable truncate position (used for logging)
216	(D8)	BITSTRING	1	BFDYSPRM(0)	Substitution service parameter list
216	(D8)	BITSTRING	1	(0)	End of SUBST fields
216	(D8)	ADDRESS	2	(0)	
216	(D8)	ADDRESS	2	(0)	
216	(D8)	ADDRESS	2	(0)	
216	(D8)	ADDRESS	2	(0)	
216	(D8)	ADDRESS	2	(0)	
216	(D8)	ADDRESS	2	(0)	
216	(D8)	ADDRESS	2	(0)	
216	(D8)	ADDRESS	2	(0)	
216	(D8)	ADDRESS	2	(0)	
216	(D8)	ADDRESS	2	(0)	
216	(D8)	ADDRESS	2	(0)	
216	(D8)	X'1000'	0	BFDSIZE	"4096" Length of data set buffer
216	(D8)	X'798'	0	$MINBFSZ	"(2048+7-(BUFSTART-BFPDSECT))/8*8" Min HASP buffer size
216	(D8)	X'F98'	0	$MAXBFSZ	"(4096+7-(BUFSTART-BFPDSECT))/8*8" Max HASP buffer size

Table 34. Structure SCDREC

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SCDREC	
0	(0)	ADDRESS	1	SCDLEN	Length of record
1	(1)	BITSTRING	6	SCDSTCKE	STCKE of PUT
1	(1)	X'7'	0	SCDTSLEN	"*-SCDREC" Length of PUT timestamp

Table 35. Cross Reference for $BUFFER

Name	Offset	Hex Tag
$MAXBFSZ	D8	F98
$MAXTPBS	88	F78
$MINBFSZ	D8	798
$SNABFMX	88	7F00
BFD	0	
BFDBAT	4	
BFDCCWRK	3B	
BFDCCWS	10	
BFDCHAIN	8	
BFDCRECN	40	
BFDECB	4C	
BFDECBCC	4C	

Table 35. Cross Reference for $BUFFER (continued)

Name	Offset	Hex Tag
BFDFLAG1	50	
BFDFLAG2	51	
BFDFLAG3	3C	
BFDFSRBA	10	
BFDID	0	
BFDLEN	E	
BFDLOC	64	
BFDMIGT	D	
BFDPCE	48	48
BFDRBA	58	
BFDSCDR	30	
BFDSCDWK	34	
BFDSDB	48	
BFDSIZE	D8	1000
BFDSPNRC	2C	
BFDSPNRG	18	
BFDSPNR9	28	
BFDSTART	68	
BFDTCB	60	
BFDTRK	52	
BFDTRKQ	52	
BFDTYPE	C	
BFDYSLEN	68	
BFDYSPRM	D8	
BFDYSRCN	B4	
BFDYSRNL	C8	
BFDYSSAV	6C	
BFDYSTRN	CC	
BFD1ENDR	50	10
BFD1EOB	50	80
BFD1ICLS	50	1
BFD1IDEL	50	4
BFD1IEOF	50	8
BFD1IERQ	50	2
BFD1MQTR	50	20
BFD1PUAC	50	40
BFD1RSKP	50	8
BFD2CSDB	51	80
BFD2CSFR	51	40
BFD2IOE	51	10
BFD2MGSK	51	2
BFD2PCE	51	8
BFD2RPBF	51	20
BFD2SOVR	51	1
BFD2SRBF	51	4
BFD3RDYR	3C	80
BFPBAT	4	
BFPDCT	10	
BFPDSECT	0	

Table 35. Cross Reference for $BUFFER (continued)

Name	Offset	Hex Tag
BFPEWF	14	
BFPID	0	
BFPLEN	14	18
BFPSWEL	4	4
BFPTHMGR	E	80
BPMTBSC	C	1
BPMTCB	C	2
BPMTHAM	C	7
BPMTHASP	C	3
BPMTPAGE	C	4
BPMTPP	C	5
BPMTUSCB	C	FF
BPMTVTAM	C	6
BUFBPMT	C	7
BUFBSC	C	21
BUFCB	C	22
BUFCCFCB	D	1
BUFCHAIN	8	
BUFCHECB	44	
BUFCHEQ	44	
BUFCHNCT	42	
BUFCHOFF	41	
BUFDECB	C	8
BUFECBCC	D	
BUFFIX	C	80
BUFFLAG1	E	
BUFHASP	C	23
BUFIOB	C	20
BUFIOBST	18	
BUFIOBSZ	80	70
BUFLOCAL	C	0
BUFMEM	64	38
BUFMEMD1	38	
BUFMEMF1	50	
BUFMEMF2	51	
BUFMEMF3	52	
BUFMEMF4	53	
BUFMEMW1	40	
BUFMEMW2	44	
BUFMEMW3	48	
BUFMEMW4	4C	
BUFMEMW5	54	
BUFMEMW6	58	
BUFMEMW7	5C	
BUFMFLG1	50	50
BUFMIGTC	F	
BUFMULT	C	40
BUFM1CKP	50	80
BUFM1CK2	50	40

Table 35. Cross Reference for $BUFFER (continued)

Name	Offset	Hex Tag
BUFPAGE	C	24
BUFPP	C	25
BUFRPL	C	10
BUFSJIOB	60	
BUFSPXFR	C	C
BUFSTART	68	
BUFTYPE	C	
BUFVTAM	C	16
BUFWRTBK	64	
BUF1CHEN	E	8
BUF1DASD	E	4
BUF1EXVR	E	40
BUF1MIGO	E	1
BUF1PERM	E	10
BUF1REDO	E	2
BUF1SINT	E	20
BUF1WIN	E	40
HDBDSKEY	7C	
HDBID	68	
HDBJBKEY	78	
HDBJBNUM	74	
HDBJNAME	6C	
HDBKEY	78	
HDBNXTRK	80	
HDBSPLNG	7C	18
HDBSTART	84	88
IOBCCW1	48	
IOBCCW2	50	
IOBCCW3	58	
IOBCCW4	60	
IOBCCW5	68	
IOBCCW6	70	
IOBCCW7	78	
IOBCCW8	80	
IOBECBSV	18	2D
IOBXTENT	18	30
LCBACK	41	
LCBMCB	40	
LCBRCB	42	
PPBCBOFF	5C	
PPBCCWNX	4C	
PPBCMQTR	54	
PPBCRCB	5A	
PPBDISPL	66	
PPBFLAG1	40	40
PPBLVCCC	3C	
PPBLVCCN	50	
PPBNBOFF	65	
PPBNMQTR	5D	

Table 35. Cross Reference for $BUFFER (continued)

Name	Offset	Hex Tag
PPBNRCB	63	
PPBPCIE	48	
SCDLEN	0	
SCDREC	0	
SCDSTCKE	1	
SCDTSLEN	1	7
SPBCHAN2	18	
SPBDLEN	3	
SPBEODAD	5	40
SPBEOFAB	5	2
SPBEOFID	5	3
SPBEOFOK	5	1
SPBFDATA	1C	
SPBFLAG1	22	
SPBHDR	5	0
SPBRCB	0	
SPBRDATA	5	
SPBRECD	0	
SPBRECNT	20	
SPBSKIP	5	20
SPBSRCB	1	
SPBSTART	36	
SPBSYNAD	5	80
SPBTYPD	5	1
SPBTYPE	2	
SPBTYPEB	5	3
SPBTYPEF	5	2
TPBFDATA	3C	
TPBLCCAD	18	30
TPBLCCC	18	30
TPBMXREC	18	2C
TPBRECNT	3C	
TPBUFST	88	

Chapter 15. $CADDR Information

$CADDR Heading Information

Common Name: Common storage address table
Macro ID: $CADDR
DSECT Name: CADDR
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'CADD'
Offset: CADDRID-CADDR
Length: 4
Storage Attributes: Subpool: 241
Key: 1
Residency: Virtual and real storage can be either above or below the 16M line, in common storage.

Size: See the CADDRLEN equate.
Created by: The CADDR is created during JES2 initialization, when JES2 common storage code modules are loaded.
Pointed to by: CCTCADDR field of the $HCCT data area
Serialization: The CADDR should be considered as read-only once the initialization processing that builds it completes.
Function: The CADDR contains the addresses of all JES2 common storage service routines to which access is required from multiple assembly modules or installation exits. This table may be used by $CALL to locate routines residing in common storage in the JES2 address space. $CALL uses this table to find either the address or PC number for the called routine. JES2 service routine addresses are normally defined using the $ENTRY macro (common storage service routine addresses MUST be defined using $ENTRY). When $ENTRY is used in base IBM JES2 product modules which are assembled using the USER assembly environment, it builds information about the entry point in the module. The information is then used during JES2 initialization to resolve the routine's address to the appropriate CADDR field.

$CADDR mapping

Table 36. Structure CADDR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CADDR	, JES2 Common storage routine ADDRess table dsect
0	(0)	CHARACTER	4	CADDRID	CADDR TABLE EYECATCHER
4	(4)	ADDRESS	1	CADDRVSN	VERSION NUMBER FIELD
4	(4)	X'7'	0	CADDRVNM	"7" Current version number
5	(5)	BITSTRING	3		RESERVED FOR FUTURE USE

Table 36. Structure CADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Fields from CADDREQS through CADDREQE are resolved from the MTEs ($ENTRY information) in IBM JES2 product modules loaded to common storage. They must all be either non-zero or defined in an exception table after that resolution.			
8	(8)	ADDRESS	4	CADDREQS(0)	Start of fields that must be non-zero after loading common storage modules and resolving CADDR values from module MTEs
		MODULE HASCARMS ROUTINES LISTED ALPHABETICALLY			
8	(8)	ADDRESS	4	C@CPJAFF	Set local affinity
12	(C)	ADDRESS	4	C@CPJCLINI	Initialize PJCL queue
16	(10)	ADDRESS	4	C@CPJCLTRM	Terminate PJCL queue
		MODULE HASCARSO ROUTINES LISTED ALPHABETICALLY			
20	(14)	ADDRESS	4	C@ARMEOJ	Notify ARM of end of job
		MODULE HASCBLDM ROUTINES LISTED ALPHABETICALLY			
24	(18)	ADDRESS	4	C@$MSGDISR	$BLDMSG default display rtn
28	(1C)	ADDRESS	4	C@$MSGSCAN	$BLDMSG service routine
32	(20)	ADDRESS	4	C@$REPLY	$REPLY service routine
36	(24)	ADDRESS	4	C@PREJOBNM	Display current jobname
40	(28)	ADDRESS	4	C@PREREPGC	Display record/page count in HASP150 routine
		Module HASCCNVS routines listed alphabetically			
44	(2C)	ADDRESS	4	C@CALLCI	Convert and interpret a job
48	(30)	ADDRESS	4	C@CNVCLNUP	C/I subtask cleanup routine
52	(34)	ADDRESS	4	C@CNVSETUP	C/I subtask setup routine
56	(38)	ADDRESS	4	C@COPNPROC	PROCLIB OPEN/CLOSE routine
60	(3C)	ADDRESS	4	C@JCISUB	C/I subtask in C/I addrspac
64	(40)	ADDRESS	4	C@PROCALCS	Subtask PROCLIB allocation
68	(44)	ADDRESS	4	C@XCNRECOV	General CNVS subtask recov
72	(48)	ADDRESS	4	C@XINTKEY	Locate internal text string
76	(4C)	ADDRESS	4	C@XJDTKEY	Locate internal text string (JDT keyword)
		Module HASCDAU Routines Listed Alphabetically			
80	(50)	ADDRESS	4	C@$ALLDAU	Allocate daughter IOT
84	(54)	ADDRESS	4	C@$UALDAU	Unallocate daughter IOT
		MODULE HASCDSAL ROUTINES LISTED ALPHABETICALLY			
88	(58)	ADDRESS	4	C@$DSCTBLD	Fill in DSCT
92	(5C)	ADDRESS	4	C@$PDBBLD	GET A PDDB SLOT ROUTINE
96	(60)	ADDRESS	4	C@$PDBDEFS	Default some PDDB fields
100	(64)	ADDRESS	4	C@HALFDSNR	Find data set name
104	(68)	ADDRESS	4	C@HALOMERG	Find MERGE=YES SWB
108	(6C)	ADDRESS	4	C@HALOPDBI	FINISH SYSOUT PDDB INIT
112	(70)	ADDRESS	4	C@HALRDCAT	Read data set catalog
116	(74)	ADDRESS	4	C@HALUNAL	UNALLOCATE A DATASET ROUTINE
120	(78)	ADDRESS	4	C@HIOTSPIN	SPIN THE ARGUMENT IOT
124	(7C)	ADDRESS	4	C@HNDUPDTE	Update SWB NOTIFY keyword

Table 36. Structure CADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
128	(80)	ADDRESS	4	C@HNOTIFY	Determine nodes/userids for notify msg
132	(84)	ADDRESS	4	C@HBSRBLDL	Rebuild syslog chain
136	(88)	ADDRESS	4	C@JESLOGC	JESLOG conversion routine
	MODULE HASCDSOC ROUTINES LISTED ALPHABETICALLY				
140	(8C)	ADDRESS	4	C@DSOPEN	DATA SET OPEN ROUTINE
144	(90)	ADDRESS	4	C@HFEXFSPC	SPC Finalization
148	(94)	ADDRESS	4	C@HFEXJESL	Extend JESLOG data set
152	(98)	ADDRESS	4	C@HFEXSDET	JESLOG/Spin-any Spin determination
156	(9C)	ADDRESS	4	C@HFEXSPIN	Spin JESLOG/Spin-any D S
160	(A0)	ADDRESS	4	C@HFOPSUB	ACB FAKE OPEN ROUTINE
164	(A4)	ADDRESS	4	C@HOCSETUP	RESTART/OPEN/CLOSE SETUP ROUTINE
168	(A8)	ADDRESS	4	C@SSVCLSC	CONVERTER FAKE CLOSE
172	(AC)	ADDRESS	4	C@SSVOPNC	CONVERTER FAKE OPEN
	MODULE HASCDSS ENTRY POINT.				
176	(B0)	ADDRESS	4	C@$ALESERV	ALET management service
180	(B4)	ADDRESS	4	C@DSPSERV	Data space service entry
	Module HASCENF routines and tokens listed alphabetically.				
184	(B8)	ADDRESS	4	C@ENFISSUE	ENF issue service
188	(BC)	ADDRESS	4	K@ENF58CDC	Copy ENF 58 info to CDCT
192	(C0)	ADDRESS	4	K@ENF70CDC	Copy ENF 70 info to CDCT
	The list of ENF routines must be contiguous and the routines must appear in the same order as the ENFREQ LISTENs appear in the $CSVLIST macro.				
196	(C4)	ADDRESS	4	CADDRENFBEG(0)	Start of ENF entries
196	(C4)	ADDRESS	4	CADDR@ENF35	Code 35 - CF structure
200	(C8)	ADDRESS	4	CADDR#ENF35	status change
204	(CC)	ADDRESS	4	CADDR@ENF41GL	Code 41 - VARY WLM,POLICY=
208	(D0)	ADDRESS	4	CADDR#ENF41GL	in goal mode done
212	(D4)	ADDRESS	4	CADDR@ENF41CP	Code 41 - VARY WLM,POLICY=
216	(D8)	ADDRESS	4	CADDR#ENF41CP	in compatibility mode done
220	(DC)	ADDRESS	4	CADDR@ENF42	Code 42 - MODIFY WLM,
224	(E0)	ADDRESS	4	CADDR#ENF42	MODE=GOAL done
228	(E4)	ADDRESS	4	CADDR@ENF46	Code 46 - OMVS active
232	(E8)	ADDRESS	4	CADDR#ENF46	or inactive
236	(EC)	ADDRESS	4	CADDR@ENF51	Code 51 - GRS local ENQ
240	(F0)	ADDRESS	4	CADDR#ENF51	contention
244	(F4)	ADDRESS	4	CADDR@ENF53	Code 53 - local time
248	(F8)	ADDRESS	4	CADDR#ENF53	offset change
252	(FC)	ADDRESS	4	CADDR@ENF56	Code 56 - RESET job
256	(100)	ADDRESS	4	CADDR#ENF56	command issued
260	(104)	ADDRESS	4	CADDR@ENF57CM	Code 57 - MODIFY WLM,
264	(108)	ADDRESS	4	CADDR#ENF57CM	RESOURCE command issued
268	(10C)	ADDRESS	4	CADDR@ENF57RV	Code 57 - Scheduling chg
272	(110)	ADDRESS	4	CADDR#ENF57RV	due to WLM recovery
276	(114)	ADDRESS	4	CADDR@ENF58NR	Code 58 - ENF for data set
280	(118)	ADDRESS	4	CADDR#ENF58NR	event

Table 36. Structure CADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
284	(11C)	ADDRESS	4	CADDR@ENF62RL	Code 62 - RACF RACLIST
288	(120)	ADDRESS	4	CADDR#ENF62RL	class change
292	(124)	ADDRESS	4	CADDR@ENF62RF	Code 62 - RACF RACLIST
296	(128)	ADDRESS	4	CADDR#ENF62RF	REFRESH class change
300	(12C)	ADDRESS	4	CADDR@ENF62NR	Code 62 - RACF NORACLIST
304	(130)	ADDRESS	4	CADDR#ENF62NR	class change
308	(134)	ADDRESS	4	CADDR@ENF70NR	Code 70 - JES job change
312	(138)	ADDRESS	4	CADDR#ENF70NR	event
312	(138)	X'F'	0	CADDRENFNUM	"(*-CADDRENFBEG)/8" Number of ENF entries
		MODULE HASCGGKY ROUTINES LISTED ALPHABETICALLY			
316	(13C)	ADDRESS	4	C@$GKGET	Get grouping keys
320	(140)	ADDRESS	4	C@$GKINIT	Initialize grouping keys
324	(144)	ADDRESS	4	C@$GKTERM	Terminate grouping keys
		MODULE HASCGGST ROUTINES LISTED ALPHABETICALLY			
328	(148)	ADDRESS	4	C@$GASSIGN	Assign grouping token
332	(14C)	ADDRESS	4	C@$GSINIT	Initialize grouping strings
336	(150)	ADDRESS	4	C@$GSTERM	Terminate grouping strings
		Module HASCHAM routines listed alphabetically			
340	(154)	ADDRESS	4	CADDR@HAMAVT	HAM appendage vector table, not for $CALL, data only
344	(158)	ADDRESS	4	C@HAMNULL	'Null' acsmeth interface
348	(15C)	ADDRESS	4	C@HAMPSTER	HAM Post Exit routine
352	(160)	ADDRESS	4	C@HASPAMI	Access method interface
356	(164)	ADDRESS	4	C@HGETCHN	Get next buffer/record
360	(168)	ADDRESS	4	K@HPOSTECB	Post a HAM ECB
		Module HASCINJR routines listed alphabetically			
364	(16C)	ADDRESS	4	C@CCLSSYSI	Common CLOSE sysin data set
368	(170)	ADDRESS	4	C@CEXITACT	Accounting card exit (53)
372	(174)	ADDRESS	4	C@CEXITCRD	RDR card exits (52 and 54)
376	(178)	ADDRESS	4	C@CINITJRW	Initialize new JRW
380	(17C)	ADDRESS	4	C@CIOTCLN	Common clean up IOT service
384	(180)	ADDRESS	4	C@CIRDRPUT	Internal reader PUT service
388	(184)	ADDRESS	4	C@CJOBBLD	Common job build service
392	(188)	ADDRESS	4	C@CJOBVFY	Common job verification
396	(18C)	ADDRESS	4	C@CLEANJRW	Clean storage assoc w JRW
400	(190)	ADDRESS	4	C@CPROCCRD	Common JCL/JECL card proc
404	(194)	ADDRESS	4	C@CPUT	Common JCL PUT service
408	(198)	ADDRESS	4	C@CSETVECT	Set routine address vector
412	(19C)	ADDRESS	4	C@CSPLOPN	Common OPEN spool data set
416	(1A0)	ADDRESS	4	C@CXMTRTNE	Common XMIT processing rtn
420	(1A4)	ADDRESS	4	C@IRCLNUP	Internal Reader Cleanup
		MODULE HASCJBST ROUTINES LISTED ALPHABETICALLY			
424	(1A8)	ADDRESS	4	C@$ASDCCLR	ASDS entry clear
428	(1AC)	ADDRESS	4	C@$ASDCUPD	ASDS entry update
432	(1B0)	ADDRESS	4	C@BLDSYSDS	Build system data sets
436	(1B4)	ADDRESS	4	C@GRPINIT	Initialize grouping strings
440	(1B8)	ADDRESS	4	C@HFJOBLOG	PLACE TITLE IN JES2 JOB LOG

Table 36. Structure CADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
444	(1BC)	ADDRESS	4	C@HFJLOGTM	Add date line to JOB LOG
448	(1C0)	ADDRESS	4	C@HFJDLINE	Create date line
452	(1C4)	ADDRESS	4	C@HJE000	COMMON JOB TERMINATION ROUTINE
456	(1C8)	ADDRESS	4	C@HJSMAKSL	MAKE A SLOT FOR A SYSTEM PDDB
460	(1CC)	ADDRESS	4	C@JBFOUND	JOB SELECT SET UP ROUTINE
464	(1D0)	ADDRESS	4	C@JBSELECT	JOB SELECT SELECTION ROUTINE
468	(1D4)	ADDRESS	4	C@JOBSTATS	UPDATE JCT STATS ROUTINE
472	(1D8)	ADDRESS	4	C@JSOPSSDS	OPEN SUBSYSTEM DATASETS ROUTINE
476	(1DC)	ADDRESS	4	C@JSREOPEN	JOB SELECT DS REOPEN RTN
480	(1E0)	ADDRESS	4	C@SWAREAD	SWA read/relocate service
MODULE HASCJBTR ROUTINES LISTED ALPHABETICALLY					
484	(1E4)	ADDRESS	4	C@$UCBINDX	Reset Attn Index in UCB
488	(1E8)	ADDRESS	4	C@CLEANBAT	Cleanup BATs
492	(1EC)	ADDRESS	4	C@EOBLOB	Clean up BLOB
496	(1F0)	ADDRESS	4	C@EOTFDCON	ISSUE FSI DISCONNECT REQUEST
MODULE HASCJZDN ROUTINES LISTED ALPHABETICALLY					
500	(1F4)	ADDRESS	4	K@PROCJZDN	Dep Job Control request processing routine.
MODULE HASCLINK ROUTINES LISTED ALPHABETICALLY					
504	(1F8)	ADDRESS	4	C@$CGETABL	$GETABLE service routine
508	(1FC)	ADDRESS	4	C@$CRETANY	$RETURN SERVICE ROUTINE
512	(200)	ADDRESS	4	C@$CRETRN	$RETURN SERVICE ROUTINE
516	(204)	ADDRESS	4	C@$CSAVANY	$SAVE SERVICE ROUTINE
520	(208)	ADDRESS	4	C@$CSAVE	$SAVE SERVICE ROUTINE
524	(20C)	ADDRESS	4	C@$DYNLPA	Dynamic LPA exit routine
528	(210)	ADDRESS	4	C@$ECBEXIT	ECB post processing exit
532	(214)	ADDRESS	4	C@$ECBPOST	Post ECB from POST exit
536	(218)	ADDRESS	4	C@$FBUFRTN	Routine to free buffers with LOCAL lock held
540	(21C)	ADDRESS	4	C@$FRECEL	FREE A CSA CELL
544	(220)	ADDRESS	4	C@$GETCEL	OBTAIN A CSA CELL
548	(224)	ADDRESS	4	K@$GETHP	HIGH PRIVATE STORAGE CELLS
552	(228)	ADDRESS	4	C@$HGFMAIN	HGFMAIN GET/FREE MAIN SERVICES (REGS=SAVE/REGS=USE)
556	(22C)	ADDRESS	4	K@$HGFMANK	HGFMAIN GET/FREE MAIN SERVICES (REGS=SYSTEM)
560	(230)	ADDRESS	4	C@$MLTFBUF	MULTIPLE BUFFER FREE ROUTINE
564	(234)	ADDRESS	4	K@$MODLOC	Locate a module (MVS style)
568	(238)	ADDRESS	4	C@$MSDDUMP	Multi System Dump Routine
572	(23C)	ADDRESS	4	C@$SSIAUTH	SSI authorization service
576	(240)	ADDRESS	4	C#$SSIAUTH	SSI auth PC number
580	(244)	ADDRESS	4	C@$SSIBEGN	SSI INTERFACE BEGIN ROUTINE
584	(248)	ADDRESS	4	C@$SSIEND	SSI INTERFACE END ROUTINE
588	(24C)	ADDRESS	4	C@$SYMREC	ENTRY TO $SYMREC ROUTINE
592	(250)	ADDRESS	4	C@ABNDADJ	Adjust ABEND loc for ILC
596	(254)	ADDRESS	4	C@ABNDSKIP	Determine if SDUMP needed
600	(258)	ADDRESS	4	C@FINDMOD	Find LMT/MIT for a module containing a given address
604	(25C)	ADDRESS	4	C@FRETRE	FREE TCB RECOVERY ELEMENT
608	(260)	ADDRESS	4	C@GETTRE	GET TCB RECOVERY ELEMENT

Table 36. Structure CADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
612	(264)	ADDRESS	4	C@FINDLMOD	Locate load module by addr
616	(268)	ADDRESS	4	C@MBSCATTN	BSC CTC Attention routine
620	(26C)	ADDRESS	4	C@RECOVERY	SSI RECOVERY ROUTINE
624	(270)	ADDRESS	4	C@SSIFINE	SSI INTERFACE FINISH ROUTINE
628	(274)	ADDRESS	4	C@SSISESTA	SSI $ESTAE ROUTINE
632	(278)	ADDRESS	4	C@SSISETUP	SSI INTERFACE SETUP ROUTINE
636	(27C)	ADDRESS	4	CADDR@CNTBITAB	TRT table for $CNTBIT macro
640	(280)	ADDRESS	4	CADDR@TRJNAME	Table for BAD_JOBNAME_CHAR
	Module HASCNJAS entries listed alphabetically				
644	(284)	ADDRESS	4	C@$FRETBUF	$FRETBUF service
648	(288)	ADDRESS	4	C@$GETTBUF	$GETTBUF service
652	(28C)	ADDRESS	4	C@$NSSTLOK	Obtain/Release NSST lock
656	(290)	ADDRESS	4	C@DELJ2SRV	Delete JES2 server addrspc
660	(294)	ADDRESS	4	C@GETJ2SRV	Start JES2 server addrspc
	MODULE HASCNJE ROUTINES listed alphabetically				
664	(298)	ADDRESS	4	C@NJEFOPEN	NJE Fake Open
668	(29C)	ADDRESS	4	C@NJEFREBF	Free NJE CB buffers
672	(2A0)	ADDRESS	4	C@NJEHBLD	NJE Header build routine
676	(2A4)	ADDRESS	4	C@NJEHDADD	Add NJE header section
680	(2A8)	ADDRESS	4	C@NJEHDEXP	Expand NJE header section
684	(2AC)	ADDRESS	4	C@NJEHDMAK	Create NJE header
688	(2B0)	ADDRESS	4	C@NJEHDRDU	NJE header read routine
692	(2B4)	ADDRESS	4	C@NJEHDREM	Delete NJE header section
696	(2B8)	ADDRESS	4	C@NJEHDVAL	HDR/TRL Validate routine
700	(2BC)	ADDRESS	4	C@NJEHDWRU	NJE header write routine
704	(2C0)	ADDRESS	4	C@NJEPORCV	NJE post-receive header rtn
708	(2C4)	ADDRESS	4	C@NJEPRXMT	NJE pre-xmit header rtn
712	(2C8)	ADDRESS	4	C@NJETBLD	Build job trailer
716	(2CC)	ADDRESS	4	C@NJETRACE	NJE rolling trace
720	(2D0)	ADDRESS	4	C@HASPNACT	Entry to HASPNACT routine
724	(2D4)	ADDRESS	4	C@PREMG529	MSG529 $BLDMSG TEXT prescan
728	(2D8)	ADDRESS	4	C@RNODEBAD	Entry to RNODEBAD routine
	Module HASCNJEX entries listed alphabetically				
732	(2DC)	ADDRESS	4	C@NJEXARR	NJE/TCP recovery ARR
736	(2E0)	ADDRESS	4	C@NJEXASEA	Server early addrspc init
740	(2E4)	ADDRESS	4	C@NJEXASIN	Server addrspc init
744	(2E8)	ADDRESS	4	C@NJEXASRQ	Server addrspc request
748	(2EC)	ADDRESS	4	C@NJEXASTM	Server addrspc term
752	(2F0)	ADDRESS	4	C@NJEXCREQ	Connection Request
756	(2F4)	ADDRESS	4	C@NJEXIREC	Server inbound NCC/NMR
760	(2F8)	ADDRESS	4	C@NJEXISIN	Server inbound SYSIN
764	(2FC)	SIGNED	4	C#NJEXISIN	NJE/TCP inbound SYSIN PC
768	(300)	ADDRESS	4	C@NJEXISOT	Server inbound SYSOUT
772	(304)	SIGNED	4	C#NJEXISOT	NJE/TCP inbound SYSOUT PC
776	(308)	ADDRESS	4	C@NJEXOSIN	Server outbound SYSIN
780	(30C)	SIGNED	4	C#NJEXOSIN	NJE/TCP outbound SYSIN PC
784	(310)	ADDRESS	4	C@NJEXOSOT	Server outbound SYSOUT
788	(314)	SIGNED	4	C#NJEXOSOT	NJE/TCP outbound SYSOUT PC
792	(318)	ADDRESS	4	C@NJEXSTIN	Server subtask init
796	(31C)	ADDRESS	4	C@NJEXSTNM	Server subtask message

Table 36. Structure CADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
800	(320)	SIGNED	4	C#NJEXSTNM	NJE/TCP subtask message PC
804	(324)	ADDRESS	4	C@NJEXSTRQ	Server subtask request
808	(328)	SIGNED	4	C#NJEXSTRQ	NJE/TCP subtask request PC
812	(32C)	ADDRESS	4	C@NJEXSTTM	Server subtask term
816	(330)	ADDRESS	4	C@NJEXTRAC	Tracing routine
820	(334)	SIGNED	4	C#NJEXTRAC	NJE/TCP general trace PC
Module HASCNJGP entries listed alphabetically					
824	(338)	ADDRESS	4	C@HA$CNJGP	Entry point for GP subtask
828	(33C)	ADDRESS	4	C@NJGPRCOV	Recovery routine
832	(340)	ADDRESS	4	C@$CSUBIT	$SUBIT Routine
Module HASCNJJR entries listed alphabetically					
836	(344)	ADDRESS	4	C@NJJRJOBH	Process NJE job header
840	(348)	ADDRESS	4	C@NJJRMAIN	NETSRV addrspc main line
844	(34C)	ADDRESS	4	C@NJJRTERM	Job rcvr resource cleanup
848	(350)	ADDRESS	4	C@NJOBWTO	Job rcvr notify message
852	(354)	ADDRESS	4	C@RNJEHDTR	Verify/expand job headers
Module HASCNJJT entries listed alphabetically					
856	(358)	ADDRESS	4	C@NJJTJOBH	Build job header
860	(35C)	ADDRESS	4	C@NJJTJOBT	Build job trailer
864	(360)	ADDRESS	4	C@NJJTMAIN	NETSRV addrspc main line
868	(364)	ADDRESS	4	C@NJJTNTFY	Job Xmitter Notify Message
872	(368)	ADDRESS	4	C@NJJTTERM	Job Xmitter Cleanup rtn
876	(36C)	ADDRESS	4	C@NJTAUTH	JESSPOOL class authorizatin
Module HASCNJRC entries listed alphabetically					
880	(370)	ADDRESS	4	C@NJEABSNP	Entry point for subtask
Module HASCNJRQ entries listed alphabetically					
884	(374)	ADDRESS	4	C@HA$CNJRQ	Entry point for subtask
888	(378)	ADDRESS	4	C@NJRQRCOV	Recovery routine
892	(37C)	ADDRESS	4	C@NJRQENQ	Queue request to server
Module HASCNJSR entries listed alphabetically					
896	(380)	ADDRESS	4	C@NJSRJOBH	Process NJE job header
900	(384)	ADDRESS	4	C@NJSRJOBT	Process NJE job trailer
904	(388)	ADDRESS	4	C@NJSRMAIN	NETSRV addrspc main line
908	(38C)	ADDRESS	4	C@NJSRNTFY	Process NJE notify message
912	(390)	ADDRESS	4	C@NJSRPDDB	Process dataset header
916	(394)	ADDRESS	4	C@NJSRSIGN	Build sign-on message
920	(398)	ADDRESS	4	C@NJSRTERM	SYSOUT Receiver Cleanup rtn
924	(39C)	ADDRESS	4	C@NJSRNCOD	Encode nodename
928	(3A0)	ADDRESS	4	C@NSRAUTH	NJE authority checking
932	(3A4)	ADDRESS	4	C@NJSROPTB	Extract OPTB values to PDDB
MODULE HASCNJST ROUTINES listed alphabetically					
936	(3A8)	ADDRESS	4	C@NJSTMAIN	NETSRV addrspc main line
940	(3AC)	ADDRESS	4	C@NJSTOPTB	OPTB section subroutine
944	(3B0)	ADDRESS	4	C@NJSTTERM	SYSOUT Xmitter Cleanup rtn
948	(3B4)	ADDRESS	4	C@NSTAUTH	Data set authorization rtn.
952	(3B8)	ADDRESS	4	C@NSTCDSH	Update dataset header

Table 36. Structure CADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
956	(3BC)	ADDRESS	4	C@NSTCJBH	Update Job Header
960	(3C0)	ADDRESS	4	C@NSTCJBT	Update Job Trailer
	Module HASCOFST entries listed alphabetically				
964	(3C4)	ADDRESS	4	CADDR@OCOOFFST	Offset table for O C O code (data only, not $CALLable) O C O code cannot use this CADDR field, as the CADDR is not frozen.
	Module HASCPHAM routines listed alphabetically				
968	(3C8)	ADDRESS	4	C@ABEND722	Issue 722 ABEND
972	(3CC)	ADDRESS	4	C@ALCSSTB	Allocate substitution buf
976	(3D0)	ADDRESS	4	C#ALCSSTB	Allocate SST buf PC number
980	(3D4)	ADDRESS	4	C@ALCSBRY	Allocate SST buf ARR rtn
984	(3D8)	ADDRESS	4	C@CNIN2OUT	Convert SDB from input to output mode
988	(3DC)	ADDRESS	4	C@FREPBLOK	Free protected block
992	(3E0)	ADDRESS	4	C@FRESDBLK	Unserialize the SDB
996	(3E4)	ADDRESS	4	C@FRESDBL2	Unserialize the SDB with SDBIVSDB POST code
1000	(3E8)	ADDRESS	4	C@FRIRWDLK	Free IRWD lock
1004	(3EC)	ADDRESS	4	C@GETPBLOK	Obtain GET protected block
1008	(3F0)	ADDRESS	4	C@GETSDBLK	Serialize the SDB
1012	(3F4)	ADDRESS	4	C@GETSDBL2	Get SDB lock with no WAIT
1016	(3F8)	ADDRESS	4	C@GTIRWDLK	Get IRWD lock
1020	(3FC)	ADDRESS	4	C@HINTRDR	Prot INTRDR service entry
1024	(400)	ADDRESS	4	C#HINTRDR	Prot INTRDR PC number
1028	(404)	ADDRESS	4	C@HINTRREC	Prot INTRDR recovery rtn
1032	(408)	ADDRESS	4	C@HIOCHECK	Start HAM I/O if needed
1036	(40C)	ADDRESS	4	C#HIOCHECK	Start HAM I/O PC number
1040	(410)	ADDRESS	4	C@HIOCKRY	Start HAM I/O recovery rtn
1044	(414)	ADDRESS	4	C@HMIGTRK	Track processing during volume migration
1048	(418)	ADDRESS	4	C@HPUTFULL	Write complete HDB/IOT
1052	(41C)	ADDRESS	4	C@HWAITBUF	Wait for all I/O to end
1056	(420)	ADDRESS	4	C@LOGISST	Log symbol substitution
1060	(424)	ADDRESS	4	C#LOGISST	Log sym subst PC number
1064	(428)	ADDRESS	4	C@LOGSTRY	Log sym subst recovery rtn
1068	(42C)	ADDRESS	4	C@OBTGBAT	Obtain BAT for GET request
1072	(430)	ADDRESS	4	C@PROTENDR	Protected Endreq entry pt
1076	(434)	ADDRESS	4	C#PROTENDR	Protected Endreq PC number
1080	(438)	ADDRESS	4	C@PRENRREC	Protected Endreq recov rtn
1084	(43C)	ADDRESS	4	C@PROTGET	Protected Get entry point
1088	(440)	ADDRESS	4	C#PROTGET	Protected Get PC number
1092	(444)	ADDRESS	4	C@PRGETREC	Protected Get recovery rtn
1096	(448)	ADDRESS	4	C@PROTPUT	Protected Put entry point
1100	(44C)	ADDRESS	4	C#PROTPUT	Protected Put PC number
1104	(450)	ADDRESS	4	C@PRPUTREC	Protected Put recovery rtn
1108	(454)	ADDRESS	4	C@PROTPNT	Protected Point entry point
1112	(458)	ADDRESS	4	C#PROTPNT	Protected Point PC number
1116	(45C)	ADDRESS	4	C@PRPNTREC	Protected Point recovery rt
1120	(460)	ADDRESS	4	C@PROTSRB	Protected Get SRB entry pnt

Table 36. Structure CADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1124	(464)	ADDRESS	4	C#PROTSRB	Protected Get SRB PC number
1128	(468)	ADDRESS	4	C@PRSRBREC	Protected SRB recovery rtn
1132	(46C)	ADDRESS	4	C@RELGBAT	Release BAT for GET request
1136	(470)	ADDRESS	4	C@SVCADDCT	Add packed decimal
1140	(474)	ADDRESS	4	C@UPDDSCA	Update current DSCA pointer
MODULE HASCPOOL ROUTINES LISTED ALPHABETICALLY					
1144	(478)	ADDRESS	4	C@CPBUILD	CPool build entry point
1148	(47C)	ADDRESS	4	C#CPBUILD	CPool build PC number
1152	(480)	ADDRESS	4	C@CPBREC	CPool build recovery rtn
1156	(484)	ADDRESS	4	C@CPCONTRA	CPool contract service
1160	(488)	ADDRESS	4	C#CPCONTRA	CPool contract PC number
1164	(48C)	ADDRESS	4	C@CPCREC	CPool contract recovery rtn
1168	(490)	ADDRESS	4	C@CPDELETE	CPool delete entry point
1172	(494)	ADDRESS	4	C#CPDELETE	CPool delete PC number
1176	(498)	ADDRESS	4	C@CPDREC	CPool delete recovery rtn
1180	(49C)	ADDRESS	4	C@CPEXPAND	CPool expand entry point
1184	(4A0)	ADDRESS	4	C#CPEXPAND	CPool expand PC number
1188	(4A4)	ADDRESS	4	C@CPXREC	CPool expand recovery rtn
1192	(4A8)	ADDRESS	4	C@CPFREE	CPool free entry point
1196	(4AC)	ADDRESS	4	C#CPFREE	CPool free PC number
1200	(4B0)	ADDRESS	4	C@CPFREC	CPool free recovery rtn
1204	(4B4)	ADDRESS	4	C@CPGET	CPool get entry point
1208	(4B8)	ADDRESS	4	C#CPGET	CPool get PC number
1212	(4BC)	ADDRESS	4	C@CPGREC	CPool get recovery rtn
1216	(4C0)	ADDRESS	4	C@CPINIT	CPool initialization
1220	(4C4)	ADDRESS	4	C@CPMODIFY	CPool modify entry point
1224	(4C8)	ADDRESS	4	C#CPMODIFY	CPool modify PC number
1228	(4CC)	ADDRESS	4	C@CPMREC	CPool modify recovery rtn
1232	(4D0)	ADDRESS	4	C@CPQCELL	CPool query cell entry pt
1236	(4D4)	ADDRESS	4	C#CPQCELL	CPool query call PC number
1240	(4D8)	ADDRESS	4	C@CPQCREC	CPool query cell recovery
1244	(4DC)	ADDRESS	4	C@CPQEXT	CPool query extent entry pt
1248	(4E0)	ADDRESS	4	C#CPQEXT	CPool query extent PC numb
1252	(4E4)	ADDRESS	4	C@CPQXREC	CPool query extent recovery
1256	(4E8)	ADDRESS	4	C@CPQPOOL	CPool query pool entry pt
1260	(4EC)	ADDRESS	4	C#CPQPOOL	CPool query pool PC number
1264	(4F0)	ADDRESS	4	C@CPQPREC	CPool query pool recovery
1268	(4F4)	ADDRESS	4	C@CPTERM	CPool termination
1272	(4F8)	ADDRESS	4	CADDR@CPLTABS	CPool table of JES2 pools, not for $CALL, data only
MODULE HASCQUEU ROUTINES LISTED ALPHABETICALLY					
1276	(4FC)	ADDRESS	4	K@AVLINST	AVL tree - insert
1280	(500)	ADDRESS	4	K@AVLTRVS	AVL tree traversal
1284	(504)	ADDRESS	4	K@AVLDELET	AVL tree - delete
MODULE HASCRQUE ROUTINES LISTED ALPHABETICALLY					
1288	(508)	ADDRESS	4	C@$RQUEACT	Activate service
1292	(50C)	ADDRESS	4	C@$RQUECMP	Wait for completion
1296	(510)	ADDRESS	4	C@$RQUEDEA	Deactivate service
1300	(514)	ADDRESS	4	C@$RQUEDEQ	Dequeue MTRB service
1304	(518)	ADDRESS	4	C@$RQUEEXE	Execute request

Table 36. Structure CADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1308	(51C)	ADDRESS	4	C@$RQUEGET	Get request
1312	(520)	ADDRESS	4	C@$RQUERET	Return request
		Module HASCSAPI Routines listed alphabetically			
1316	(524)	ADDRESS	4	C@CSPEOX	Scan SAPIDs for terminating TCB or memory
		Module HASCSCAN Routines listed alphabetically			
1320	(528)	ADDRESS	4	C@$SCAN	$SCAN main routine
1324	(52C)	ADDRESS	4	C@$SCANB	$SCANB service routine
1328	(530)	ADDRESS	4	C@$SCANCOM	$SCANCOM service routine
1332	(534)	ADDRESS	4	C@$SCAND	$SCAN Main routine
1336	(538)	ADDRESS	4	C@BACKRETN	BACKRETN Service Routine
1340	(53C)	ADDRESS	4	C@PREDNAME	PRESCAN to display keyword
1344	(540)	ADDRESS	4	C@PREFILT	Prescan to apply filters
1348	(544)	ADDRESS	4	C@RESTORE	RESTORE Service Routine
1352	(548)	ADDRESS	4	C@SCANDIAG	$SCANDIA Service routine
1356	(54C)	ADDRESS	4	C@SCNDBRNG	RESTORE Service Routine
1360	(550)	ADDRESS	4	CADDR@SCNDIAGT	Diagnostic message table
1364	(554)	ADDRESS	4	C@SCNDGRTN	RESTORE Service Routine
1368	(558)	ADDRESS	4	C@SCNDVVAL	RESTORE Service Routine
		MODULE HASCSIJI ROUTINES LISTED ALPHABETICALLY			
1372	(55C)	ADDRESS	4	C@DATASERV	JOB INFORMATION SERVICE
1376	(560)	ADDRESS	4	C@REFRDSRV	Refresh non-CKPT data
		Module HASCSIJP routines listed alphabetically			
1380	(564)	ADDRESS	4	K@JPXIBLD	Build JESplex info array subroutine
1384	(568)	ADDRESS	4	C@PRIPRINI	Initiator processing entry
1388	(56C)	ADDRESS	4	C@PRITORD	Initiator data SSI
1392	(570)	ADDRESS	4	C@PRJPCLS	Job class data SSI
1396	(574)	ADDRESS	4	C@PRJPLEX	JESplex data SSI
1400	(578)	ADDRESS	4	C@PRJPNJN	NJE node SSI
1404	(57C)	ADDRESS	4	C@PRJPROC	PROCLIB data SSI
1408	(580)	ADDRESS	4	C@PRJPSPL	Spool data SSI
1412	(584)	ADDRESS	4	K@PRSMIGD	Spool data SSI - Migration data subroutine
		MODULE HASCSIRQ ROUTINES LISTED ALPHABETICALLY			
1416	(588)	ADDRESS	4	C@$DESTCHK	AUTHORIZE TRANSMIT TO DEST
1420	(58C)	ADDRESS	4	C@$NOTIFY	Send notify message
1424	(590)	ADDRESS	4	K@MCSFLUSH	MCS flush routine
1428	(594)	ADDRESS	4	C@TSCNVJB	CONVERT EXT JOB ID TO JOB NUM
1432	(598)	ADDRESS	4	K@USERDEST	VERIFY DESTINATION
1436	(59C)	ADDRESS	4	C@USERSUB	USER/SUBTASK EXIT EFFECTOR
1440	(5A0)	ADDRESS	4	C@USRNEWND	Assign new node to dest
1444	(5A4)	ADDRESS	4	C@WTALOGQ	Flush S35D Joblog queue
1448	(5A8)	ADDRESS	4	C@WTASRBQI	Schedule JOBLOG SRB immed
		Module HASCSISC routines listed alphabetically			
1452	(5AC)	ADDRESS	4	K@CNVDEVID	Convert DEVID to EBCDIC
1456	(5B0)	ADDRESS	4	K@CRJOES	Create JOEs from PDDB

Table 36. Structure CADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1460	(5B4)	ADDRESS	4	C@CVDEVID	Process device ID to name conversion
1464	(5B8)	ADDRESS	4	K@ESWFREE	Free ESWORK area
1468	(5BC)	ADDRESS	4	K@MODJXACK	MODJOB ACK rsp msg exit rtn
1472	(5C0)	ADDRESS	4	C@PRJBCLD	Process job class info
1476	(5C4)	ADDRESS	4	C@PRSPLIO	Process spool I/O info
	Module HASCSJFA Routines Listed Alphabetically				
1480	(5C8)	ADDRESS	4	C@HSJFACC	MVS SJFACC Routine
	Module HASCSJFS Routines Listed Alphabetically				
1484	(5CC)	ADDRESS	4	C@HASJFREQ	SJFREQ Service Routine
1488	(5D0)	ADDRESS	4	C@HASJIDST	IPADDR/DEST Process - CSJFS
1492	(5D4)	ADDRESS	4	C@SFLOPDDB	Locate PDDB using CTOKEN
1496	(5D8)	ADDRESS	4	C@SJFSWBRD	SWB Read Service Routine
1500	(5DC)	ADDRESS	4	C@SWBTUMRG	SWB Merge Service Routine
1504	(5E0)	ADDRESS	4	C@TUXTRACT	TU extraction - HASCSJFS
	Module HASCSRAX routines listed alphabetically				
1508	(5E4)	ADDRESS	4	C@GETJ2AUX	Access aux address space
1512	(5E8)	ADDRESS	4	C@DELJ2AUX	Delete aux address space
1516	(5EC)	ADDRESS	4	C@SRXEMSG	Issue error message for JES2AUX subtasks
1520	(5F0)	ADDRESS	4	K@ZGLLMSG	Log message for a jobgroup
	Module HASCSRCI routines listed alphabetically				
1524	(5F4)	ADDRESS	4	C@CMNFCICB	Free CICB data area
1528	(5F8)	ADDRESS	4	C@CMNINIT	JES2 C/I address space init
1532	(5FC)	ADDRESS	4	C@CMNPPROC	Mange C/I addrspac PROCLIBs
1536	(600)	ADDRESS	4	C@CMNPSUBT	Mange JES2 C/I subtask
1540	(604)	ADDRESS	4	C@DELJ2CI	Delete C/I subtask/AS
1544	(608)	ADDRESS	4	C@GETJ2CI	Create C/I subtask/AS
1548	(60C)	ADDRESS	4	C@J2CIREC	JES2 C/I main task recovery
	MODULE HASCSRDS ROUTINES LISTED ALPHABETICALLY				
1552	(610)	ADDRESS	4	K@$CBIO	CONTROL BLOCK I/O ROUTINE ADDR
1556	(614)	ADDRESS	4	C@$FNDRIOT	FIND REUSEABLE SPIN IOT
1560	(618)	ADDRESS	4	C@$IOTBLD	BUILD AN IOT ROUTINE
1564	(61C)	ADDRESS	4	C@$PDBFIND	FIND A PDDB ROUTINE
1568	(620)	ADDRESS	4	C@$PDBNEXT	Find next PDDB same key
1572	(624)	ADDRESS	4	C@$SDBCHEK	Verify a SDB/DCT routine
1576	(628)	ADDRESS	4	C@$SDBFREE	FREE AN SDB
1580	(62C)	ADDRESS	4	C@$SDBINIT	INITIALIZE AN SDB
1584	(630)	ADDRESS	4	C@$VERIFY	$VERIFY SERVICE ROUTINE ADDRESS
1588	(634)	ADDRESS	4	C@ASOKADD	Add ASOK for SDB
1592	(638)	ADDRESS	4	C@ASOKDEL	Delete ASOK for SDB
1596	(63C)	ADDRESS	4	C@ASOKGC	Garbage collect ASOKs
1600	(640)	ADDRESS	4	C@DSNCMP	SYSIN/SYSOUT DATASET COMPRESS
1604	(644)	ADDRESS	4	C@DSNVFY	SYSIN/SYSOUT DATASET VERIFY
1608	(648)	ADDRESS	4	C@DSNMSRV	SYSIN/SYSOUT Dataset Name service
1612	(64C)	ADDRESS	4	C@ENF58BLD	Build ENF58 parm lists
1616	(650)	ADDRESS	4	C@HALCLASS	CHECK SYSOUT CLASS FOR HOLD RTN

Table 36. Structure CADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1620	(654)	ADDRESS	4	C@HALUPCAT	Update data set catalog
1624	(658)	ADDRESS	4	CADDR@HASPVTAB	$VERIFY control block table
1628	(65C)	ADDRESS	4	C@HCBCK	CHECKPOINT HASP CONTROL BLOCKS
1632	(660)	ADDRESS	4	C@HCBFM	FREEMAIN CONTROL BLOCK STORAGE
1636	(664)	ADDRESS	4	C@HCBGM	GETMAIN CONTROL BLOCK STORAGE
1640	(668)	ADDRESS	4	C@HFCLSUB	FAKE CLOSE DATASETS
1644	(66C)	ADDRESS	4	C@HFCLTRNC	TRUNCATE A BUFFER ROUTINE
1648	(670)	ADDRESS	4	C@HJSRETAB	REBUILD SDB TAB
1652	(674)	ADDRESS	4	C@HONEWOUT	OPEN NEW OUTPUT DATASET RTN
1656	(678)	ADDRESS	4	C@HOOLDINP	OPEN OLD INPUT DATASET RTN
1660	(67C)	ADDRESS	4	C@HOOLDOUT	OPEN OLD OUTPUT DATASET RTN
1664	(680)	ADDRESS	4	C@JSMTSRV	Job symbol table service
1668	(684)	ADDRESS	4	C@MQTRVAL	Validate MQTR routine
1672	(688)	ADDRESS	4	C@MQTR0VAL	Validate MQTR (R = 0 OK)
1676	(68C)	ADDRESS	4	C@MTTRVAL	VALIDATE MTTR ROUTINE
1680	(690)	ADDRESS	4	C@MTTR0VAL	Validate MTTR (R = 0 OK)
1684	(694)	ADDRESS	4	C@OLDJOE	Old JOE
1688	(698)	ADDRESS	4	C@PDDBUPD	Update PDDB
1692	(69C)	ADDRESS	4	C@SIGIOU	Signature Rcd I/O Routine
1696	(6A0)	ADDRESS	4	C@SYMTT	Generate SIGIO SYMREC rtn
1700	(6A4)	ADDRESS	4	C@SYSOVFY	SYSOUT validation routine
1704	(6A8)	ADDRESS	4	C@USENF58	User environment ENF58 rtn
MODULE HASCSRIC ROUTINES LISTED ALPHABETICALLY					
1708	(6AC)	ADDRESS	4	C@$$POST	POST HASP TASK
1712	(6B0)	ADDRESS	4	K@$BITMAP	$BITMAP service
1716	(6B4)	ADDRESS	4	C@$MGIOMSG	SEND MIGRATION MESSAGE FOR BUFFER MAIN TASK I/O.
1720	(6B8)	ADDRESS	4	C@$MGIOSJM	SEND MIGRATION MESSAGE FOR SJIOB MAIN TASK I/O.
1724	(6BC)	ADDRESS	4	C@$RACROUT	ISSUE SAF CALL
1728	(6C0)	ADDRESS	4	C@$STRAK	ALLOCATE TRACK ADDRESS
1732	(6C4)	ADDRESS	4	C@$SVJLOK	GET JOB COM QUEUES LOCK RTN
1736	(6C8)	ADDRESS	4	C@$SVJLOK2	Secondary locking routine
1740	(6CC)	ADDRESS	4	C@$SVJTEST	TEST FOR JCQ LOCK OWNERSHIP
1744	(6D0)	ADDRESS	4	C@$SVJUNLK	RELEASE JOB COM QUEUES LOCK RTN
1748	(6D4)	ADDRESS	4	C@$TRACER	EVENT TRACE FACILITY
1752	(6D8)	ADDRESS	4	C@$TRAREL	$TRACE RELEASE ENTRY POINT
1756	(6DC)	ADDRESS	4	C@$TRCFILT	$TRACE filter routine
1760	(6E0)	ADDRESS	4	C@$VFLI	SIMULATE VFL INSTRUCTION
1764	(6E4)	ADDRESS	4	C@$XMPOST	CROSS MEMORY POST ROUTINE
1768	(6E8)	ADDRESS	4	C@$XMPOSTX	Extended cross memory post
1772	(6EC)	ADDRESS	4	C@BERTREAD	CSA $DOGBERT Fetch support
1776	(6F0)	ADDRESS	4	C@BRTCOUNT	BERT count service
1780	(6F4)	ADDRESS	4	C@CATBFREE	Free unused $CATBERT
1784	(6F8)	ADDRESS	4	K@CATREAD	CSA $DOGCAT Fetch support
1788	(6FC)	ADDRESS	4	C@CATTREE	CAT tree support
1792	(700)	ADDRESS	4	C@CKPTVERS	Obtain/release ckpt version
1796	(704)	ADDRESS	4	C@CMSFLOK	Free CMS/LOCAL lock
1800	(708)	ADDRESS	4	C@CMSGLOK	Get CMS/LOCAL lock
1804	(70C)	ADDRESS	4	K@DJBREAD	CSA $DOGDJB Fetch support
1808	(710)	ADDRESS	4	C@DOMCHECK	Seclabel Dominance check

Table 36. Structure CADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1812	(714)	ADDRESS	4	C@FIFOBLK	FIFO Block/Release
1816	(718)	ADDRESS	4	C@FIFODEQ	Remove elmnt from FIFO que
1820	(71C)	ADDRESS	4	C@FIFOENQ	Place element on FIFO queue
1824	(720)	ADDRESS	4	C@FIFOGTQ	Dechain entire FIFO queue
1828	(724)	ADDRESS	4	K@FIFOBLK8	FIFO Block/Release
1832	(728)	ADDRESS	4	C@FIFODEQ8	Remove elmnt from FIFO que
1836	(72C)	ADDRESS	4	C@FIFOENQ8	Place element on FIFO queue
1840	(730)	ADDRESS	4	C@FIFOGTQ8	Dechain entire FIFO queue
1844	(734)	ADDRESS	4	K@GOFDSERV	GET/FREE DSERV addr
1848	(738)	ADDRESS	4	C@GRPASGN	ASSIGN GROUPING TOKEN
1852	(73C)	ADDRESS	4	C@HCNVTIME	USED BY C/T FOR A TOD CONVERSION ROUTINE IN HASCSRIC
1856	(740)	ADDRESS	4	C@HKYMERGE	MERGE OUTPUT JCL KEYWORDS RTN
1860	(744)	ADDRESS	4	C@HOSWB	GET SWB ERROR ROUTINE
1864	(748)	ADDRESS	4	C@HSJFLSP	FREE SJF STORAGE ROUTINE
1868	(74C)	ADDRESS	4	K@JOEREAD	CSA $DOGJOE Fetch support
1872	(750)	ADDRESS	4	K@JQEREAD	CSA $DOGJQE Fetch support
1876	(754)	ADDRESS	4	C@PPSOSJB	PURGE PSO FROM SJB ROUTINE
1880	(758)	ADDRESS	4	C@PREWTO	WTO PREPROCESSING ROUTINE
1884	(75C)	ADDRESS	4	C@PRTAUTH	JESNEWS & SYSOUT DATA SET AUTHORIZATION
1888	(760)	ADDRESS	4	C@PSQUEUE	PSO QUEUE ROUTINE
1892	(764)	ADDRESS	4	C@RECABORT	PSO,STATUS,CANCEL recovery
1896	(768)	ADDRESS	4	C@RRWTORTN	Issue chain of WTO msgs
1900	(76C)	ADDRESS	4	C@SECLEXTR	SECLABEL extract affinity
1904	(770)	ADDRESS	4	C@SSVXDEF	EXIT DEFINITION ROUTINE
1908	(774)	ADDRESS	4	C@TBADTGBQ	Queue bad TGB to HASPSPOL
1912	(778)	ADDRESS	4	C@TOKENSR	TOKEN retrieve service
1916	(77C)	ADDRESS	4	C@TRKCELL	Track Cell allocation
1920	(780)	ADDRESS	4	C#TRKCELL	Track Cell allocation PC #
1924	(784)	ADDRESS	4	C@TRKCELLA	Track Cell allocation ARR
1928	(788)	ADDRESS	4	C@TSETLOCK	GET LOCAL AND CMS LOCKS ROUTINE
1932	(78C)	ADDRESS	4	C@TSFRELOK	FREE LOCAL AND CMS LOCKS RTN
1936	(790)	ADDRESS	4	K@WSCREAD	CSA $WSCJQE Fetch support
1940	(794)	ADDRESS	4	C@XBFPITCH	JESXCF directed PROTSRB
1944	(798)	ADDRESS	4	C@XCFXMBN	Build JESXCF member name for XSYS data rtv group
1948	(79C)	ADDRESS	4	C@XMXSRB	Extended post SRB routine
1952	(7A0)	ADDRESS	4	C@XMXRMTR	Extended post RMTR routine
1956	(7A4)	ADDRESS	4	C@XSYSINIT	Init cross system interface for data retrieval
1960	(7A8)	ADDRESS	4	C@XSYSTERM	Term cross system interface for data retrieval
Module HASCSRIP Routines Listed Alphabetically					
1964	(7AC)	ADDRESS	4	C@$LOGMSG	JOBLOG/SYSMSGS access rtn
1968	(7B0)	ADDRESS	4	C@CJOBKILL	Abort job
1972	(7B4)	ADDRESS	4	C@CJOBEND	Job end processing
1976	(7B8)	ADDRESS	4	C@RHARDJGP	Harden job group
1980	(7BC)	ADDRESS	4	C@HASPRCCS	Control Card (JECL) scan
1984	(7C0)	ADDRESS	4	C@HASPRDDS	Dataset services
1988	(7C4)	ADDRESS	4	C@HASPRSCN	Accounting field scan rtn
1992	(7C8)	ADDRESS	4	C@JOBCLASV	Job class validation

Table 36. Structure CADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1996	(7CC)	ADDRESS	4	C@JOBCLVAL	Job class - subtask
2000	(7D0)	ADDRESS	4	C@JOBVALM	Job validation
2004	(7D4)	ADDRESS	4	C@RACCTSET	Parse ACCT field for SAF
2008	(7D8)	ADDRESS	4	C@RANLZCRD	Analyze New Card Image
2012	(7DC)	ADDRESS	4	C@RCARDSCN	Scan keywords on JCL/JECL
2016	(7E0)	ADDRESS	4	C@RDELEGRP	Delete JOBGROUP - init JRW
2020	(7E4)	ADDRESS	4	C@RDELRJCB	Delete all queued RJCBs
2024	(7E8)	ADDRESS	4	C@RDELWTO	Job deleted WTO
2028	(7EC)	ADDRESS	4	C@RESTINFO	Scan keywords on JCL/JECL
2032	(7F0)	ADDRESS	4	C@REXTENMG	Extend msgs with FROM info
2036	(7F4)	ADDRESS	4	C@RFRERJCB	Free one/all RJCBs
2040	(7F8)	ADDRESS	4	C@RGETRJCB	Get an RJCB
2044	(7FC)	ADDRESS	4	C@RGETSPOF	Get SPOF section
2048	(800)	ADDRESS	4	C@RINITGRP	Init JOBGROUP and get ZOD
2052	(804)	ADDRESS	4	C@RJOBDEF	Set JQE/JCT defaults
2056	(808)	ADDRESS	4	C@RJOBONMG	Issue ON READER message
2060	(80C)	ADDRESS	4	C@RMSGQUE	Queue message to be issued
2064	(810)	ADDRESS	4	C@RNJCOMSG	NJE skipping message
2068	(814)	ADDRESS	4	C@RNJEONMG	NJE S&F ON READER message
2072	(818)	ADDRESS	4	C@RPDBBLD	Create system PDDBs
2076	(81C)	ADDRESS	4	C@RPDBINIT	Complete system PDDBs
2080	(820)	ADDRESS	4	C@RPDBSEC	System PDDB init routine
2084	(824)	ADDRESS	4	C@RPROCGRP	Process JOBGROUP JCL stmts
2088	(828)	ADDRESS	4	C@RPROCJCL	Process JCL statement
2092	(82C)	ADDRESS	4	C@RPRCRCCS	Process RCCS header
2096	(830)	ADDRESS	4	C@RPSTCXIT	Post exits 2,4,52,54 proc
2100	(834)	ADDRESS	4	C@RPUTSCAN	Stip PASSWORDs at PUT
	MODULE HASCSRJB ROUTINES LISTED ALPHABETICALLY				
2104	(838)	ADDRESS	4	K@$JBIDBLD	JOB ID BUILD ROUTINE
2108	(83C)	ADDRESS	4	K@$JCORBLD	Job Correlator build rtn
2112	(840)	ADDRESS	4	C@$JCTINIT	Initialize a JCT
2116	(844)	ADDRESS	4	C@$JQESERV	JQE Request service
2120	(848)	ADDRESS	4	K@$QLOCC	Locate JQE for a job #
2124	(84C)	ADDRESS	4	C@$SJBFIND	FIND AN SJB
2128	(850)	ADDRESS	4	C@$SJBLOCK	LOCK AN SJB
2132	(854)	ADDRESS	4	C@$SJBRQ	REQUEUE AN SJB
2136	(858)	ADDRESS	4	C@$SJBUNLK	UNLOCK AN SJB
2140	(85C)	ADDRESS	4	C@AUDSAF	Audit job removal
2144	(860)	ADDRESS	4	C@ENF70BLD	Build ENF 70 parm lists
2148	(864)	ADDRESS	4	C@ENF78BLD	Build ENF 78 parm lists
2152	(868)	ADDRESS	4	C@FREEJCT	Free JCT and related stor
2156	(86C)	ADDRESS	4	C@HETSOUT	SAVES STATUS ON INTERRUPT
2160	(870)	ADDRESS	4	C@SJBFREE	FREE AN SJB
2164	(874)	ADDRESS	4	C@SJBINIT	CREATE AN SJB
2168	(878)	ADDRESS	4	K@SJIOBINT	SJIOB initialization
2172	(87C)	ADDRESS	4	C@STEALOCK	Steal SJB/SDB lock
2176	(880)	ADDRESS	4	C@USENF70	Issue ENF 70
	Module HASCSRJM routines listed alphabetically				
2180	(884)	ADDRESS	4	C@GETJ2MON	Access monitor addr space
2184	(888)	ADDRESS	4	C@DELJ2MON	Delete monitor addr space

Table 36. Structure CADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2188	(88C)	ADDRESS	4	C@MONSSIRQ	Monitor SSI request service
		Module HASCUBSR routines listed alphabetically			
2192	(890)	ADDRESS	4	C@UBSRB	Unwritten buffer SRB rtn
		Module HASCXJCT routines listed alphabetically			
2196	(894)	ADDRESS	4	C@$JCTXADD	Add $JCT extension
2200	(898)	ADDRESS	4	C@$JCTXEXP	Expand $JCT extension
2204	(89C)	ADDRESS	4	C@$JCTXGET	Locate $JCT extension
2208	(8A0)	ADDRESS	4	C@$JCTXREM	Delete $JCT extension
		MVS entry points listed alphabetically			
2212	(8A4)	ADDRESS	4	C@CSRC4ACT	MVS CPOOL Activate extent
2216	(8A8)	ADDRESS	4	C@CSRC4BLD	MVS CPOOL Build routine
2220	(8AC)	ADDRESS	4	C@CSRC4CON	MVS CPOOL Connect storage
2224	(8B0)	ADDRESS	4	C@CSRC4DAC	MVS CPOOL Deactivate extent
2228	(8B4)	ADDRESS	4	C@CSRC4DIS	MVS CPOOL Disconn storage
2232	(8B8)	ADDRESS	4	C@CSRC4EXP	MVS CPOOL Expand routine
2236	(8BC)	ADDRESS	4	C@CSRC4QCL	MVS CPOOL Query cell rtn
2240	(8C0)	ADDRESS	4	C@CSRC4QEX	MVS CPOOL Query extent rtn
2244	(8C4)	ADDRESS	4	C@CSRC4QPL	MVS CPOOL Query pool rtn
2248	(8C8)	ADDRESS	4	C@CSRC4RFR	MVS CPOOL Free routine
2252	(8CC)	ADDRESS	4	C@CSRC4RGT	MVS CPOOL Get routine
2256	(8D0)	ADDRESS	4	C@IEANTCR	MVS NAME/TOKEN Create rtn
2260	(8D4)	ADDRESS	4	C@IEANTDL	MVS NAME/TOKEN Delete rtn
2264	(8D8)	ADDRESS	4	C@IEANTRT	MVS NAME/TOKEN Retrieve rtn
2268	(8DC)	ADDRESS	4	C@IEAVM703	MVS message extract routine
2272	(8E0)	ADDRESS	4	C@IEAVH709	MVS MCS flush routine
		RESERVED FOR FUTURE USE FIELDS--(LAST ENTRIES IN CADDR)			
2276	(8E4)	ADDRESS	4	C@CEXIVUC	Validate UCOR char (SRIP)
2280	(8E8)	ADDRESS	4	CADDREQE(0)	End of fields that must be non-zero after loading common storage modules and resolving CADDR values from module MTEs
		The following contains the entry points for routines which may or may not be present. When adding entry points above, use one of the above reserved fields to avoid requiring an assembly of modules using the entry points below.			
2280	(8E8)	X'8E8'	0	CADDRLEN	"*-CADDR" LENGTH OF THE CADDR TABLE

Table 37. Cross Reference for $CADDR

Name	Offset	Hex Tag
C#$SSIAUTH	240	
C#ALCSSTB	3D0	
C#CPBUILD	47C	
C#CPCONTRA	488	
C#CPDELETE	494	
C#CPEXPAND	4A0	

Table 37. Cross Reference for $CADDR (continued)

Name	Offset	Hex Tag
C#CPFREE	4AC	
C#CPGET	4B8	
C#CPMODIFY	4C8	
C#CPQCELL	4D4	
C#CPQEXT	4E0	
C#CPQPOOL	4EC	
C#HINTRDR	400	
C#HIOCHECK	40C	
C#LOGISST	424	
C#NJEXISIN	2FC	
C#NJEXISOT	304	
C#NJEXOSIN	30C	
C#NJEXOSOT	314	
C#NJEXSTNM	320	
C#NJEXSTRQ	328	
C#NJEXTRAC	334	
C#PROTENDR	434	
C#PROTGET	440	
C#PROTPNT	458	
C#PROTPUT	44C	
C#PROTSRB	464	
C#TRKCELL	780	
C@$$POST	6AC	
C@$ALESERV	B0	
C@$ALLDAU	50	
C@$ASDCCLR	1A8	
C@$ASDCUPD	1AC	
C@$CGETABL	1F8	
C@$CRETANY	1FC	
C@$CRETRN	200	
C@$CSAVANY	204	
C@$CSAVE	208	
C@$CSUBIT	340	
C@$DESTCHK	588	
C@$DSCTBLD	58	
C@$DYNLPA	20C	
C@$ECBEXIT	210	
C@$ECBPOST	214	
C@$FBUFRTN	218	
C@$FNDRIOT	614	
C@$FRECEL	21C	
C@$FRETBUF	284	
C@$GASSIGN	148	
C@$GETCEL	220	
C@$GETTBUF	288	
C@$GKGET	13C	
C@$GKINIT	140	
C@$GKTERM	144	
C@$GSINIT	14C	

Table 37. Cross Reference for $CADDR (continued)

Name	Offset	Hex Tag
C@$GSTERM	150	
C@$HGFMAIN	228	
C@$IOTBLD	618	
C@$JCTINIT	840	
C@$JCTXADD	894	
C@$JCTXEXP	898	
C@$JCTXGET	89C	
C@$JCTXREM	8A0	
C@$JQESERV	844	
C@$LOGMSG	7AC	
C@$MGIOMSG	6B4	
C@$MGIOSJM	6B8	
C@$MLTFBUF	230	
C@$MSDDUMP	238	
C@$MSGDISR	18	
C@$MSGSCAN	1C	
C@$NOTIFY	58C	
C@$NSSTLOK	28C	
C@$PDBBLD	5C	
C@$PDBDEFS	60	
C@$PDBFIND	61C	
C@$PDBNEXT	620	
C@$RACROUT	6BC	
C@$REPLY	20	
C@$RQUEACT	508	
C@$RQUECMP	50C	
C@$RQUEDEA	510	
C@$RQUEDEQ	514	
C@$RQUEEXE	518	
C@$RQUEGET	51C	
C@$RQUERET	520	
C@$SCAN	528	
C@$SCANB	52C	
C@$SCANCOM	530	
C@$SCAND	534	
C@$SDBCHEK	624	
C@$SDBFREE	628	
C@$SDBINIT	62C	
C@$SJBFIND	84C	
C@$SJBLOCK	850	
C@$SJBRQ	854	
C@$SJBUNLK	858	
C@$SSIAUTH	23C	
C@$SSIBEGN	244	
C@$SSIEND	248	
C@$STRAK	6C0	
C@$SVJLOK	6C4	
C@$SVJLOK2	6C8	
C@$SVJTEST	6CC	

Table 37. Cross Reference for $CADDR (continued)

Name	Offset	Hex Tag
C@$SVJUNLK	6D0	
C@$SYMREC	24C	
C@$TRACER	6D4	
C@$TRAREL	6D8	
C@$TRCFILT	6DC	
C@$UALDAU	54	
C@$UCBINDX	1E4	
C@$VERIFY	630	
C@$VFLI	6E0	
C@$XMPOST	6E4	
C@$XMPOSTX	6E8	
C@ABEND722	3C8	
C@ABNDADJ	250	
C@ABNDSKIP	254	
C@ALCSBRY	3D4	
C@ALCSSTB	3CC	
C@ARMEOJ	14	
C@ASOKADD	634	
C@ASOKDEL	638	
C@ASOKGC	63C	
C@AUDSAF	85C	
C@BACKRETN	538	
C@BERTREAD	6EC	
C@BLDSYSDS	1B0	
C@BRTCOUNT	6F0	
C@CALLCI	2C	
C@CATBFREE	6F4	
C@CATTREE	6FC	
C@CCLSSYSI	16C	
C@CEXITACT	170	
C@CEXITCRD	174	
C@CEXIVUC	8E4	
C@CINITJRW	178	
C@CIOTCLN	17C	
C@CIRDRPUT	180	
C@CJOBBLD	184	
C@CJOBEND	7B4	
C@CJOBKILL	7B0	
C@CJOBVFY	188	
C@CKPTVERS	700	
C@CLEANBAT	1E8	
C@CLEANJRW	18C	
C@CMNFCICB	5F4	
C@CMNINIT	5F8	
C@CMNPPROC	5FC	
C@CMNPSUBT	600	
C@CMSFLOK	704	
C@CMSGLOK	708	
C@CNIN2OUT	3D8	

Table 37. Cross Reference for $CADDR (continued)

Name	Offset	Hex Tag
C@CNVCLNUP	30	
C@CNVSETUP	34	
C@COPNPROC	38	
C@CPBREC	480	
C@CPBUILD	478	
C@CPCONTRA	484	
C@CPCREC	48C	
C@CPDELETE	490	
C@CPDREC	498	
C@CPEXPAND	49C	
C@CPFREC	4B0	
C@CPFREE	4A8	
C@CPGET	4B4	
C@CPGREC	4BC	
C@CPINIT	4C0	
C@CPJAFF	8	
C@CPJCLINI	C	
C@CPJCLTRM	10	
C@CPMODIFY	4C4	
C@CPMREC	4CC	
C@CPQCELL	4D0	
C@CPQCREC	4D8	
C@CPQEXT	4DC	
C@CPQPOOL	4E8	
C@CPQPREC	4F0	
C@CPQXREC	4E4	
C@CPROCCRD	190	
C@CPTERM	4F4	
C@CPUT	194	
C@CPXREC	4A4	
C@CSETVECT	198	
C@CSPEOX	524	
C@CSPLOPN	19C	
C@CSRC4ACT	8A4	
C@CSRC4BLD	8A8	
C@CSRC4CON	8AC	
C@CSRC4DAC	8B0	
C@CSRC4DIS	8B4	
C@CSRC4EXP	8B8	
C@CSRC4QCL	8BC	
C@CSRC4QEX	8C0	
C@CSRC4QPL	8C4	
C@CSRC4RFR	8C8	
C@CSRC4RGT	8CC	
C@CVDEVID	5B4	
C@CXMTRTNE	1A0	
C@DATASERV	55C	
C@DELJ2AUX	5E8	
C@DELJ2CI	604	

Table 37. Cross Reference for $CADDR (continued)

Name	Offset	Hex Tag
C@DELJ2MON	888	
C@DELJ2SRV	290	
C@DOMCHECK	710	
C@DSNCMP	640	
C@DSNMSRV	648	
C@DSNVFY	644	
C@DSOPEN	8C	
C@DSPSERV	B4	
C@ENFISSUE	B8	
C@ENF58BLD	64C	
C@ENF70BLD	860	
C@ENF78BLD	864	
C@EOBLOB	1EC	
C@EOTFDCON	1F0	
C@FIFOBLK	714	
C@FIFODEQ	718	
C@FIFODEQ8	728	
C@FIFOENQ	71C	
C@FIFOENQ8	72C	
C@FIFOGTQ	720	
C@FIFOGTQ8	730	
C@FINDLMOD	264	
C@FINDMOD	258	
C@FREEJCT	868	
C@FREPBLOK	3DC	
C@FRESDBLK	3E0	
C@FRESDBL2	3E4	
C@FRETRE	25C	
C@FRIRWDLK	3E8	
C@GETJ2AUX	5E4	
C@GETJ2CI	608	
C@GETJ2MON	884	
C@GETJ2SRV	294	
C@GETPBLOK	3EC	
C@GETSDBLK	3F0	
C@GETSDBL2	3F4	
C@GETTRE	260	
C@GRPASGN	738	
C@GRPINIT	1B4	
C@GTIRWDLK	3F8	
C@HA$CNJGP	338	
C@HA$CNJRQ	374	
C@HALCLASS	650	
C@HALFDSNR	64	
C@HALOMERG	68	
C@HALOPDBI	6C	
C@HALRDCAT	70	
C@HALUNAL	74	
C@HALUPCAT	654	

Table 37. Cross Reference for $CADDR (continued)

Name	Offset	Hex Tag
C@HAMNULL	158	
C@HAMPSTER	15C	
C@HASJFREQ	5CC	
C@HASJIDST	5D0	
C@HASPAMI	160	
C@HASPNACT	2D0	
C@HASPRCCS	7BC	
C@HASPRDDS	7C0	
C@HASPRSCN	7C4	
C@HBSRBLDL	84	
C@HCBCK	65C	
C@HCBFM	660	
C@HCBGM	664	
C@HCNVTIME	73C	
C@HETSOUT	86C	
C@HFCLSUB	668	
C@HFCLTRNC	66C	
C@HFEXFSPC	90	
C@HFEXJESL	94	
C@HFEXSDET	98	
C@HFEXSPIN	9C	
C@HFJDLINE	1C0	
C@HFJLOGTM	1BC	
C@HFJOBLOG	1B8	
C@HFOPSUB	A0	
C@HGETCHN	164	
C@HINTRDR	3FC	
C@HINTRREC	404	
C@HIOCHECK	408	
C@HIOCKRY	410	
C@HIOTSPIN	78	
C@HJE000	1C4	
C@HJSMAKSL	1C8	
C@HJSRETAB	670	
C@HKYMERGE	740	
C@HMIGTRK	414	
C@HNDUPDTE	7C	
C@HNOTIFY	80	
C@HOCSETUP	A4	
C@HONEWOUT	674	
C@HOOLDINP	678	
C@HOOLDOUT	67C	
C@HOSWB	744	
C@HPUTFULL	418	
C@HSJFACC	5C8	
C@HSJFLSP	748	
C@HWAITBUF	41C	
C@IEANTCR	8D0	
C@IEANTDL	8D4	

Table 37. Cross Reference for $CADDR (continued)

Name	Offset	Hex Tag
C@IEANTRT	8D8	
C@IEAVH709	8E0	
C@IEAVM703	8DC	
C@IRCLNUP	1A4	
C@JBFOUND	1CC	
C@JBSELECT	1D0	
C@JCISUB	3C	
C@JESLOGC	88	
C@JOBCLASV	7C8	
C@JOBCLVAL	7CC	
C@JOBSTATS	1D4	
C@JOBVALM	7D0	
C@JSMTSRV	680	
C@JSOPSSDS	1D8	
C@JSREOPEN	1DC	
C@J2CIREC	60C	
C@LOGISST	420	
C@LOGSTRY	428	
C@MBSCATTN	268	
C@MONSSIRQ	88C	
C@MQTRVAL	684	
C@MQTR0VAL	688	
C@MTTRVAL	68C	
C@MTTR0VAL	690	
C@NJEABSNP	370	
C@NJEFOPEN	298	
C@NJEFREBF	29C	
C@NJEHBLD	2A0	
C@NJEHDADD	2A4	
C@NJEHDEXP	2A8	
C@NJEHDMAK	2AC	
C@NJEHDRDU	2B0	
C@NJEHDREM	2B4	
C@NJEHDVAL	2B8	
C@NJEHDWRU	2BC	
C@NJEPORCV	2C0	
C@NJEPRXMT	2C4	
C@NJETBLD	2C8	
C@NJETRACE	2CC	
C@NJEXARR	2DC	
C@NJEXASEA	2E0	
C@NJEXASIN	2E4	
C@NJEXASRQ	2E8	
C@NJEXASTM	2EC	
C@NJEXCREQ	2F0	
C@NJEXIREC	2F4	
C@NJEXISIN	2F8	
C@NJEXISOT	300	
C@NJEXOSIN	308	

Table 37. Cross Reference for $CADDR (continued)

Name	Offset	Hex Tag
C@NJEXOSOT	310	
C@NJEXSTIN	318	
C@NJEXSTNM	31C	
C@NJEXSTRQ	324	
C@NJEXSTTM	32C	
C@NJEXTRAC	330	
C@NJGPRCOV	33C	
C@NJJRJOBH	344	
C@NJJRMAIN	348	
C@NJJRTERM	34C	
C@NJJTJOBH	358	
C@NJJTJOBT	35C	
C@NJJTMAIN	360	
C@NJJTNTFY	364	
C@NJJTTERM	368	
C@NJOBWTO	350	
C@NJRQENQ	37C	
C@NJRQRCOV	378	
C@NJSRJOBH	380	
C@NJSRJOBT	384	
C@NJSRMAIN	388	
C@NJSRNCOD	39C	
C@NJSRNTFY	38C	
C@NJSROPTB	3A4	
C@NJSRPDDB	390	
C@NJSRSIGN	394	
C@NJSRTERM	398	
C@NJSTMAIN	3A8	
C@NJSTOPTB	3AC	
C@NJSTTERM	3B0	
C@NJTAUTH	36C	
C@NSRAUTH	3A0	
C@NSTAUTH	3B4	
C@NSTCDSH	3B8	
C@NSTCJBH	3BC	
C@NSTCJBT	3C0	
C@OBTGBAT	42C	
C@OLDJOE	694	
C@PDDBUPD	698	
C@PPSOSJB	754	
C@PREDNAME	53C	
C@PREFILT	540	
C@PREJOBNM	24	
C@PREMG529	2D4	
C@PRENRREC	438	
C@PREREPGC	28	
C@PREWTO	758	
C@PRGETREC	444	
C@PRIPRINI	568	

Table 37. Cross Reference for $CADDR (continued)

Name	Offset	Hex Tag
C@PRITORD	56C	
C@PRJBCLD	5C0	
C@PRJPCLS	570	
C@PRJPLEX	574	
C@PRJPNJN	578	
C@PRJPROC	57C	
C@PRJPSPL	580	
C@PROCALCS	40	
C@PROTENDR	430	
C@PROTGET	43C	
C@PROTPNT	454	
C@PROTPUT	448	
C@PROTSRB	460	
C@PRPNTREC	45C	
C@PRPUTREC	450	
C@PRSPLIO	5C4	
C@PRSRBREC	468	
C@PRTAUTH	75C	
C@PSQUEUE	760	
C@RACCTSET	7D4	
C@RANLZCRD	7D8	
C@RCARDSCN	7DC	
C@RDELEGRP	7E0	
C@RDELRJCB	7E4	
C@RDELWTO	7E8	
C@RECABORT	764	
C@RECOVERY	26C	
C@REFRDSRV	560	
C@RELGBAT	46C	
C@RESTINFO	7EC	
C@RESTORE	544	
C@REXTENMG	7F0	
C@RFRERJCB	7F4	
C@RGETRJCB	7F8	
C@RGETSPOF	7FC	
C@RHARDJGP	7B8	
C@RINITGRP	800	
C@RJOBDEF	804	
C@RJOBONMG	808	
C@RMSGQUE	80C	
C@RNJCOMSG	810	
C@RNJEHDTR	354	
C@RNJEONMG	814	
C@RNODEBAD	2D8	
C@RPDBBLD	818	
C@RPDBINIT	81C	
C@RPDBSEC	820	
C@RPRCRCCS	82C	
C@RPROCGRP	824	

Table 37. Cross Reference for $CADDR (continued)

Name	Offset	Hex Tag
C@RPROCJCL	828	
C@RPSTCXIT	830	
C@RPUTSCAN	834	
C@RRWTORTN	768	
C@SCANDIAG	548	
C@SCNDBRNG	54C	
C@SCNDGRTN	554	
C@SCNDVVAL	558	
C@SECLEXTR	76C	
C@SFLOPDDB	5D4	
C@SIGIOU	69C	
C@SJBFREE	870	
C@SJBINIT	874	
C@SJFSWBRD	5D8	
C@SRXEMSG	5EC	
C@SSIFINE	270	
C@SSISESTA	274	
C@SSISETUP	278	
C@SSVCLSC	A8	
C@SSVOPNC	AC	
C@SSVXDEF	770	
C@STEALOCK	87C	
C@SVCADDCT	470	
C@SWAREAD	1E0	
C@SWBTUMRG	5DC	
C@SYMTT	6A0	
C@SYSOVFY	6A4	
C@TBADTGBQ	774	
C@TOKENSR	778	
C@TRKCELL	77C	
C@TRKCELLA	784	
C@TSCNVJB	594	
C@TSETLOCK	788	
C@TSFRELOK	78C	
C@TUXTRACT	5E0	
C@UBSRB	890	
C@UPDDSCA	474	
C@USENF58	6A8	
C@USENF70	880	
C@USERSUB	59C	
C@USRNEWND	5A0	
C@WTALOGQ	5A4	
C@WTASRBQI	5A8	
C@XBFPITCH	794	
C@XCFXMBN	798	
C@XCNRECOV	44	
C@XINTKEY	48	
C@XJDTKEY	4C	
C@XMXRMTR	7A0	

Table 37. Cross Reference for $CADDR (continued)

Name	Offset	Hex Tag
C@XMXSRB	79C	
C@XSYSINIT	7A4	
C@XSYSTERM	7A8	
CADDR	0	
CADDR#ENF35	C8	
CADDR#ENF41CP	D8	
CADDR#ENF41GL	D0	
CADDR#ENF42	E0	
CADDR#ENF46	E8	
CADDR#ENF51	F0	
CADDR#ENF53	F8	
CADDR#ENF56	100	
CADDR#ENF57CM	108	
CADDR#ENF57RV	110	
CADDR#ENF58NR	118	
CADDR#ENF62NR	130	
CADDR#ENF62RF	128	
CADDR#ENF62RL	120	
CADDR#ENF70NR	138	
CADDR@CNTBITAB	27C	
CADDR@CPLTABS	4F8	
CADDR@ENF35	C4	
CADDR@ENF41CP	D4	
CADDR@ENF41GL	CC	
CADDR@ENF42	DC	
CADDR@ENF46	E4	
CADDR@ENF51	EC	
CADDR@ENF53	F4	
CADDR@ENF56	FC	
CADDR@ENF57CM	104	
CADDR@ENF57RV	10C	
CADDR@ENF58NR	114	
CADDR@ENF62NR	12C	
CADDR@ENF62RF	124	
CADDR@ENF62RL	11C	
CADDR@ENF70NR	134	
CADDR@HAMAVT	154	
CADDR@HASPVTAB	658	
CADDR@OCOOFFST	3C4	
CADDR@SCNDIAGT	550	
CADDR@TRJNAME	280	
CADDRENFBEG	C4	
CADDRENFNUM	138	F
CADDREQE	8E8	
CADDREQS	8	
CADDRID	0	C3C1C4C4
CADDRLEN	8E8	8E8
CADDRVNM	4	7
CADDRVSN	4	

Table 37. Cross Reference for $CADDR (continued)

Name	Offset	Hex Tag
K@$BITMAP	6B0	
K@$CBIO	610	
K@$GETHP	224	
K@$HGFMANK	22C	
K@$JBIDBLD	838	
K@$JCORBLD	83C	
K@$MODLOC	234	
K@$QLOCC	848	
K@AVLDELET	504	
K@AVLINST	4FC	
K@AVLTRVS	500	
K@CATREAD	6F8	
K@CNVDEVID	5AC	
K@CRJOES	5B0	
K@DJBREAD	70C	
K@ENF58CDC	BC	
K@ENF70CDC	C0	
K@ESWFREE	5B8	
K@FIFOBLK8	724	
K@GOFDSERV	734	
K@HPOSTECB	168	
K@JOEREAD	74C	
K@JPXIBLD	564	
K@JQEREAD	750	
K@MCSFLUSH	590	
K@MODJXACK	5BC	
K@PROCJZDN	1F4	
K@PRSMIGD	584	
K@SJIOBINT	878	
K@USERDEST	598	
K@WSCREAD	790	
K@ZGLLMSG	5F0	

Chapter 16. $CAT Information

$CAT Programming Interface Information

$CAT is a programming interface.

$CAT Heading Information

Common Name:	Class Attribute Table
Macro ID:	$CAT
DSECT Name:	CAT
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	None
Storage Attributes:	Subpool: 0 Key: 1 Residency: Virtual and real storage are above 16M, in the private storage of the JES2 address space.
Size:	See CATLEN, CATLLEN
Created by:	JES2 Initialization $DOGCAT
Pointed to by:	$CATABLE field of the $HCT data area (during JES2 initialization only). Constructed dynamically from data in BERTs
Serialization:	None Required
Function:	The CAT defines the attributes of the JES2 job classes. There are 64 CAT entries arranged contiguously. The appropriate CAT entry for a particular class is found by taking the class (e.g. class A = X'C1'), turning off the high order two bits (e.g. class A = '01') multipying by the CATLEN equate, and adding the contents of $CATABLE.

$CAT mapping

Table 38. Structure CAT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CAT	HASP CLASS ATTRIBUTE TABLE ELEMENT
		Start of memory-only segment (not checkpointed) NOTE: - This section also exists in GRPOBJ elements (see $CLASGRP).			
0	(0)	SIGNED	2	CATMEM(0)	Start of memory-only sect
		CAT cache binary AVL tree 'node' data : - For performance, each checkpointed (BERT resident) CAT is cached in memory as part of a balanced binary AVL tree. - The tree is rebuilt whenever a CAT is added or removed.			

Table 38. Structure CAT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	ADDRESS	4	CATLEFT	Pointer to lower CAT in binary tree.
4	(4)	ADDRESS	4	CATRIGHT	Pointer to higher CAT in binary tree.
8	(8)	SIGNED	2	CATAVBAL	AVL tree balance factor - used while building the binary tree.
		Memory only flags :			
10	(A)	BITSTRING	1	CATFLAG5	Memory-only flags
		1...		CAT5ANOM	"B'10000000'" ON = This job class has anomalies. Set in HASPJQS::CATHMAX.
		.1..		CAT5NOWK	"B'01000000'" ON = No selectable work exists for this job class (within the current checkpoint cycle). Set by $QGET processing and cleared by HASPJQS::CATHMAX (at ckpt cycle) and when a job is added to the class.
		..1.		CAT5CKPT	"B'00100000'" ON = BERT resident CAT fields have changed. Alerts checkpoint cycle processing to write this CAT. SET by $DOGCAT when a CAT is updated. RESET by the checkpoint cycle when written (see $CATCWRT routine).
		Other bookkeeping data :			
11	(B)	BITSTRING	1	CATPSQTP	The associated JQETYPE of this CAT.
12	(C)	SIGNED	4	CATELNUM	One-based element number of this cache element.
		CAT/GRPOBJ cache element name. This will be equal to CATCLASS if a CAT element or GRPNAME if a GRPOBJ element.			
16	(10)	CHARACTER	8	CATELNAM	CAT cache element name.
		FETCHNEXT Class group (GRPOBJ) bookkeeping info: - CATGRP@ : FETCHNEXT group address/indicator : o If NOT ZERO - Processing a group and this addr points to the corresponding GRPOBJ. A FETCHNEXT= will locate the next CAT in the group. o If ZERO - The CAT is NOT part of group processing. A FETCHNEXT= will locate the next 'sequential' CAT. - CATGRPC1 : The first CAT visited in the group. Since the GRPOBJ is a circular chain, this is used as the end condition to determine when group processing is complete.			
24	(18)	ADDRESS	4	CATGRP@	FETCHNEXT GRPOBJ address/ indicator.
28	(1C)	CHARACTER	8	CATGRPC1	First CAT processed in GRPOBJ circular chain.

Table 38. Structure CAT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
28	(1C)	X'24'	0	CATMEMLN	"*-CATMEM" Size of memory only section
		Start of CATBASE BERT segment.			
28	(1C)	X'7'	0	CATVERSN	"7" CAT version
36	(24)	BITSTRING	1	CATJOBFL	HASP JOB FLAGS, COPIED INTO THE JCTJOBFL FIELD, FLAG VALUES ARE DEFINED IN $JCT
37	(25)	BITSTRING	1	CATJBOPT	HASP JOB OPTIONS, COPIED INTO THE JCTJBOPT FIELD, FLAG VALUES ARE DEFINED IN $JCT
38	(26)	CHARACTER	2	CATPROCN	PROCEDURE LIBRARY NUMBER
40	(28)	BITSTRING	1	CATSMFLG	HASP SMF FLAGS, COPIED INTO THE JCTSMFLG FIELD, FLAG VALUES ARE DEFINED IN $JCT
41	(29)	CHARACTER	3	CATPERFM	DEFAULT PERFORMANCE GROUP
		The following fields are defined in aggregate by the CATCONVP symbol (below) and represent the converter defaults mapped by the converter parameter list (IEFCNPRM). The fields covered by CATCONVP must match those mapped by IEFCNPRM.			
44	(2C)	SIGNED	4	CATCPBGN(0)	START OF CONVERTER PARMS
44	(2C)	CHARACTER	1	CATCACCT	ACCOUNTING INFO REQUIRED
		....		CATCNONE	"B'00000000'" NO INFO IS REQUIRED
		1		CATCNAME	"B'00000001'" PROGRAMMER NAME REQ'D
		.... ..1.		CATCNUMB	"B'00000010'" ACCOUNT NUMBER REQUIRED
44	(2C)	X'3'	0	CATCALL	"CATCNAME+CATCNUMB" JOB AND NUMBER REQUIRED
		.... .1..		CATCSWAL	"B'00000100'" SWA ABOVE 16M LINE
45	(2D)	CHARACTER	2		RESERVED
47	(2F)	CHARACTER	8	CATCTIME(0)	DFLT JOB STEP INTL TIME
47	(2F)	CHARACTER	6	CATCMNTE	MAXIMUM MINUTES
53	(35)	CHARACTER	2	CATCSECS	MAXIMUM SECONDS
55	(37)	CHARACTER	5	CATCREGN(0)	DEFAULT JOB STEP REGION
55	(37)	CHARACTER	4	CATCRGN	NUMERIC SPECIFICATION
59	(3B)	CHARACTER	1	CATCRGA	KILOBYTES OR MEGABYTES SPECIFICATION
60	(3C)	CHARACTER	1	CATCMND	COMMAND DISPOSITION
60	(3C)	X'F0'	0	CATCEXEC	"C'0'" PASS THE COMMAND THROUGH
60	(3C)	X'F1'	0	CATCDSPL	"C'1'" DISPLAY AND THEN PASS CMND
60	(3C)	X'F2'	0	CATCVER	"C'2'" ASK OPERATOR DISPOSITION
60	(3C)	X'F3'	0	CATCIGN	"C'3'" IGNORE THE COMMAND
61	(3D)	CHARACTER	1	CATCBLP	BYPASS LABEL PROCESSING OPT.
		1		CATCBLPY	"B'00000001'" PROCESS BYPASS LABEL PARM
62	(3E)	CHARACTER	1	CATCOCG(4)	OPERATOR COMMAND GROUP
		.... .1..		CATCGSYS	"B'00000100'" GROUP 1 COMMANDS (SYS)

Table 38. Structure CAT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ..1.		CATCGIO	"B'00000010'" GROUP 2 COMMANDS (I/O)
		1		CATCGCON	"B'00000001'" GROUP 3 COMMANDS (CONS)
62	(3E)	X'7'	0	CATCGALL	"CATCGSYS+CATCGIO+CATCGCON" ALL GROUPS
66	(42)	CHARACTER	1	CATCLJCL	DEFAULT MSGLEVEL, JCL LISTED IF NO MSGLEVEL
67	(43)	CHARACTER	1	CATCTMSG	ALLOCATION TERMINATION MSGS
67	(43)	X'2C'	0	CATCONVP	"CATCPBGN,*-CATCPBGN" FULL CONVERTER PARAMETERS
68	(44)	BITSTRING	1	CATCFLG1	Converter parm byte
		1...		CATCNQAU	"B'10000000'" - Automatically downgrade SYSDSN ENQs to SHR control when no longer needed EXCLUSIVE
		.1..		CATCNQDS	"B'01000000'" - Do not allow the DSENQSHR JCL keyword on a job statement. This disables the SYSDSN ENQ downgrade function. - Both bits off allows the function (ALLOW)
		..1.		CATSYSYM	"B'00100000'" - System symbols substitution in batch jobs is supported
69	(45)	BITSTRING	7		Reserved for potential expansion of IEFCNPRM
End of converter parameters mapped by IEFCNPRM					
76	(4C)	BITSTRING	1	CATOPSWT	CONVERTER OPTION SWITCHES
77	(4D)	BITSTRING	1	CATFLAG1	NORMAL OUTDISP FOR JESDS
		1...		CAT1CDP	"B'10000000'" CONDITIONALLY PURGE OUTPUT FOR JOBS IN THIS CLASS
77	(4D)	X'10'	0	CAT1NODP	"$ODPURGE" NORMAL OUTDISP=PURGE
77	(4D)	X'8'	0	CAT1NODW	"$ODWRITE" NORMAL OUTDISP=WRITE
77	(4D)	X'4'	0	CAT1NODH	"$ODHOLD" NORMAL OUTDISP=HOLD
77	(4D)	X'2'	0	CAT1NODK	"$ODKEEP" NORMAL OUTDISP=KEEP
77	(4D)	X'1'	0	CAT1NODL	"$ODLEAVE" NORMAL OUTDISP=LEAVE
78	(4E)	BITSTRING	1	CATFLAG2	ABNORMAL OUTDISP FOR JESDS
78	(4E)	X'10'	0	CAT2AODP	"$ODPURGE" ABNORMAL OUTDISP=PURGE
78	(4E)	X'8'	0	CAT2AODW	"$ODWRITE" ABNORMAL OUTDISP=WRITE
78	(4E)	X'4'	0	CAT2AODH	"$ODHOLD" ABNORMAL OUTDISP=HOLD
78	(4E)	X'2'	0	CAT2AODK	"$ODKEEP" ABNORMAL OUTDISP=KEEP
78	(4E)	X'1'	0	CAT2AODL	"$ODLEAVE" ABNORMAL OUTDISP=LEAVE
79	(4F)	BITSTRING	1	CATFLAG3	Processing flags
		1...		CAT3WLM	"B'10000000'" WLM managed class
		.1..		CAT3SPEC	"B'01000000'" Special class (STC/TSU)
		..1.		CAT3PSEU	"B'00100000'" Pseudo-class queue (not set in real CATs)

Table 38. Structure CAT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		CAT3RBLD	"B'00010000'" Pseudo-class queue for rebuild queue
		.... 1...		CAT3RECO	"B'00001000'" Pseudo CAT used for JQE and CAT reconciliation
		.... .1..		CAT3SINV	"B'00000100'" Default SCHENV (CATSCHED) no longer defined
		.... ..1.		CAT3DUOK	"B'00000010'" Duplicate job names OK this job class
		1		CAT3LSRC	"B'00000001'" JOBRC=LASTRC specified for this job class
80	(50)	CHARACTER	8	CATXBM	PROCNAME FOR XBM/2 JOB
88	(58)	CHARACTER	8	CATCLASS	Name of this job class.
96	(60)	SIGNED	4	CATMAXJ	Max executing jobs in this class in the JESPlex
CATCURJ is altered by $QBUSY, QADCHAIN and QDECHAIN only					
100	(64)	SIGNED	4	CATCURJ	Current executing jobs in this class in the JESPlex
104	(68)	SIGNED	4	CATMAXT	TOD when Max executing jobs reached
108	(6C)	SIGNED	4	CATJQER	Number of JQEs waiting for timer reconciliation (only present in CATs with CAT3RECO on)
112	(70)	SIGNED	4	CATIMER	TOD when queue held
116	(74)	ADDRESS	4	CATQHDI	First JQE in class; CKPT only (index)
120	(78)	CHARACTER	16	CATSCHED	Default SCHENV, JOB classes only
136	(88)	CHARACTER	1	CATMCLAS	Default message class, TSU and STC classes only
137	(89)	BITSTRING	6	CATJLOG	JES log control
144	(90)	ADDRESS	4	(0)	Word align
144	(90)	SIGNED	4	CATXITD1	Reserved for Exit use
148	(94)	SIGNED	4	CATXITD2	Reserved for Exit use
152	(98)	SIGNED	4	(0)	Align section length
152	(98)	X'74'	0	CATLEN1	"*-CATJOBFL" Length of main CATBASE BERT segment.
Start of CATQAFF BERT segment.					
152	(98)	BITSTRING	4	CATQAFF	Members to which the class has affinity
156	(9C)	BITSTRING	1	CATMBRMX	Members on which CATJACT is less than CATJMACT
156	(9C)	X'8'	0	CATLEN4	"*-CATQAFF" Length of affinity/max CATQAFF BERT segment.
Start of CATACT BERT segment.					
160	(A0)	BITSTRING	1	CATFLAG4	Flags
		1...		CAT4JDUP	"B'10000000'" At least one duplicate job in this class
		.1..		CAT4INAC	"B'01000000'" This CAT is inactive and no new work can be selected from it.

Table 38. Structure CAT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		CAT4PERM	"B'00100000'" Permanent CAT (cannot be deleted).
		...1		CAT4DFLT	"B'00010000'" This is default job class (cannot delete/inact)
161	(A1)	BITSTRING	1	CATPRMRT	STARTBY promotion rate
162	(A2)	BITSTRING	2		Reserved for future use
164	(A4)	SIGNED	4	CATJACT(0)	Batch jobs active
164	(A4)	X'84'	0	CATLEN2	"*-CATFLAG4" Length of job active CATACT BERT segment.
	Start of CATGROUP BERT segment.				
292	(124)	CHARACTER	8	CATGPNAM	If not all zeroes, this CAT belongs to a class group and this is the name of the group.
300	(12C)	CHARACTER	8	CATGPNXT	If not all zeroes, this CAT belongs to a class group and this is the name of the NEXT CAT in this class group
300	(12C)	X'10'	0	CATLEN5	"*-CATGPNAM" Length of class group CATGROUP BERT segment.
	Start of CATMACT BERT segment.				
308	(134)	SIGNED	4	CATJMACT(0)	Batch job activity maximum
308	(134)	X'80'	0	CATLEN3	"*-CATJMACT" Length of max active CATMACT BERT segment.
440	(1B8)	DBL WORD	8	(0)	Ensure double word bdy
440	(1B8)	X'1B8'	0	CATLEN	"*-CAT" Length of CAT
440	(1B8)	X'1B8'	0	CATLLEN	"*-CAT" Full length of CAT
	SPECIAL CLASS DEFINITIONS				
		11.1		CATSTCCL	"X'D0'" SYSTEM TASK CLASS
		111.		CATTSUCL	"X'E0'" FOREGROUND TIME SHARING CLASS
440	(1B8)	X'5B'	0	CATSTCID	"C'$'" SYSTEM TASK DISPLAY ID
440	(1B8)	X'7C'	0	CATTSUID	"C'@'" FORGROUND TIME SHARING DISPLAY ID
		.1..		CATNENT	"X'FF'-X'C0'+1" NUMBER OF ENTRIES IN CAT

Table 39. Structure CATCHDR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CATCHDR	CACHE HEADER
0	(0)	SIGNED	4	CATCHNUM	Number of elements in cache
4	(4)	SIGNED	4	CATCHESZ	Byte size of a cache element. Includes PREBERT, CAT/GRPOBJ, and additional user BERT data
8	(8)	SIGNED	4	CATCHSIZ	Total size of the cache - in BYTES.
12	(C)	SIGNED	2	CATCHCNT	JNTCATCT value captured when the cache is built. Used to determine if the cache is current.

Table 39. Structure CATCHDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
14	(E)	BITSTRING	1	CATFLAG6	CAT Cache header flags
		1...		CAT6TREE	"B'10000000'" Binary tree has been successfully built
15	(F)	BITSTRING	1		Reserved
16	(10)	ADDRESS	4	CATCROOT	Root node in cache AVL tree. Points to CAT cache entry.
20	(14)	BITSTRING	64	CATIPATH	Array of 2 byte elements used to track path taken when inserting a cache element within AVL tree. 0 -> left subtree path 1 -> right subtree path Supports 2 to the 32th distinct values and tree depths up to 32. Only used when tree is built.
20	(14)	X'40'	0	CATIPATL	"*-CATIPATH" Length
20	(14)	CHARACTER	8	CATPRVCN	Prev CAT/GRP name before CAT cache entry refresh
28	(1C)	ADDRESS	4	CATPRVLE	Previous pointer to lower CAT in tree before CAT cache entry refresh
32	(20)	ADDRESS	4	CATPRVRI	Previous pointer to higher CAT in tree before CAT cache entry refresh
36	(24)	SIGNED	2	CATPRVBL	Previous cache entry balance factor before CAT cache entry refresh
84	(54)	CHARACTER	8	CATCHSRC	Search value (job class name) used to locate a cache element.
84	(54)	X'5C'	0	CATCHLEN	"*-CATCHDR" Size of cache header.
92	(5C)	SIGNED	2	CATCHELM(0)	Cache elements start here.
92	(5C)	X'32'	0	CATCINEL	"50" Storage will be created for CATCINEL # of elements the first time the cache is created.

Table 40. Cross Reference for $CAT

Name	Offset	Hex Tag
CAT	0	
CATAVBAL	8	
CATCACCT	2C	
CATCALL	2C	3
CATCBLP	3D	
CATCBLPY	3D	1
CATCDSPL	3C	F1
CATCEXEC	3C	F0
CATCFLG1	44	
CATCGALL	3E	7
CATCGCON	3E	1
CATCGIO	3E	2
CATCGSYS	3E	4
CATCHCNT	C	

Table 40. Cross Reference for $CAT (continued)

Name	Offset	Hex Tag
CATCHDR	0	
CATCHELM	5C	
CATCHESZ	4	
CATCHLEN	54	5C
CATCHNUM	0	
CATCHSIZ	8	
CATCHSRC	54	
CATCIGN	3C	F3
CATCINEL	5C	32
CATCLASS	58	
CATCLJCL	42	
CATCMND	3C	
CATCMNTE	2F	
CATCNAME	2C	1
CATCNONE	2C	0
CATCNQAU	44	80
CATCNQDS	44	40
CATCNUMB	2C	2
CATCOCG	3E	
CATCONVP	43	2C
CATCPBGN	2C	
CATCREGN	37	
CATCRGA	3B	
CATCRGN	37	
CATCROOT	10	
CATCSECS	35	
CATCSWAL	2C	4
CATCTIME	2F	
CATCTMSG	43	
CATCURJ	64	
CATCVER	3C	F2
CATELNAM	10	
CATELNUM	C	
CATFLAG1	4D	
CATFLAG2	4E	
CATFLAG3	4F	
CATFLAG4	A0	
CATFLAG5	A	
CATFLAG6	E	
CATGPNAM	124	
CATGPNXT	12C	
CATGRP@	18	
CATGRPC1	1C	
CATIMER	70	
CATIPATH	14	
CATIPATL	14	40
CATJACT	A4	
CATJBOPT	25	
CATJLOG	89	

Table 40. Cross Reference for $CAT (continued)

Name	Offset	Hex Tag
CATJMACT	134	
CATJOBFL	24	
CATJQER	6C	
CATLEFT	0	
CATLEN	1B8	1B8
CATLEN1	98	74
CATLEN2	A4	84
CATLEN3	134	80
CATLEN4	9C	8
CATLEN5	12C	10
CATLLEN	1B8	1B8
CATMAXJ	60	
CATMAXT	68	
CATMBRMX	9C	
CATMCLAS	88	
CATMEM	0	
CATMEMLN	1C	24
CATNENT	1B8	40
CATOPSWT	4C	
CATPERFM	29	
CATPRMRT	A1	
CATPROCN	26	
CATPRVBL	24	
CATPRVCN	14	
CATPRVLE	1C	
CATPRVRI	20	
CATPSQTP	B	
CATQAFF	98	
CATQHDI	74	
CATRIGHT	4	
CATSCHED	78	
CATSMFLG	28	
CATSTCCL	1B8	D0
CATSTCID	1B8	5B
CATSYSYM	44	20
CATTSUCL	1B8	E0
CATTSUID	1B8	7C
CATVERSN	1C	7
CATXBM	50	
CATXITD1	90	
CATXITD2	94	
CAT1CDP	4D	80
CAT1NODH	4D	4
CAT1NODK	4D	2
CAT1NODL	4D	1
CAT1NODP	4D	10
CAT1NODW	4D	8
CAT2AODH	4E	4
CAT2AODK	4E	2

Table 40. Cross Reference for $CAT (continued)

Name	Offset	Hex Tag
CAT2AODL	4E	1
CAT2AODP	4E	10
CAT2AODW	4E	8
CAT3DUOK	4F	2
CAT3LSRC	4F	1
CAT3PSEU	4F	20
CAT3RBLD	4F	10
CAT3RECO	4F	8
CAT3SINV	4F	4
CAT3SPEC	4F	40
CAT3WLM	4F	80
CAT4DFLT	A0	10
CAT4INAC	A0	40
CAT4JDUP	A0	80
CAT4PERM	A0	20
CAT5ANOM	A	80
CAT5CKPT	A	20
CAT5NOWK	A	40
CAT6TREE	E	80

Chapter 17. $CATBERT Information

$CATBERT Heading Information

Common Name: Collector Attribute Table for BERTs
Macro ID: $CATBERT
DSECT Name: CATBERT
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: CATB
Offset: -8 (in the JES2 CSA storage prefix)
Length: 4
Storage Attributes: Subpool: 241
Key: 1
Residency: Virtual storage is anywhere (below or above 16M)
in ECSA. Real storage is anywhere.

Size: See CBRSIZE (plus an 8 byte prefix)
Created by: JES2 initialization processing
Pointed to by: CCTCBRT field of the HCCT data area
CVCB_$CATBERT_ADDR field of the CVCB data area
Serialization: This control block is updated during JES2
initializaion processing and not updated after that.
Function: This control block maps the common storage data area
used by the $DOGBERT (and related) services.

$CATBERT mapping

Table 41. Structure CATBERT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CATBERT	, Collector Attribute table for BERTs
0	(0)	ADDRESS	1	CBRVERS	Version number
0	(0)	X'1'	0	CBRVERSN	"1" Current version
1	(1)	SIGNED	1	CBRNTYPE	Number of table entries
2	(2)	SIGNED	1	CBRMSTRV	CKPT level of last BERTMAP
3	(3)	BITSTRING	1		Reserved
4	(4)	SIGNED	4	CBRVERCT	Number of CKPT versions using this $CATBERT
		The following table points to the BERT maps for the supported types of BERTs. The entries in this table must match the CB numbers assigned in $PARMLST and in the $BERT CB type field.			
4	(4)	X'0'	0	CBRMAPE	"0,12,C'X'" BERT map entry
4	(4)	X'0'	0	CBRMADDR	"0,4,C'A'" Address of BERT translate table
4	(4)	X'4'	0	CBRMCNT	"4,1,C'F'" Number of table entries (Not including id 0 record)
4	(4)	X'5'	0	CBRMFLAG	"5,1,C'B'" Flags
		1...		CBRMFJ2	"B'10000000'" Type is JES2-defined

Table 41. Structure CATBERT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	X'6'	0	CBRMSIZE	"6,2,C'H'" Max entry size (highest offset set)
4	(4)	X'8'	0	CBRMBYTE	"8,2,C'H'" Bytes of BERT data needed
4	(4)	X'C'	0	CBRMLEN	"L'CBRMAPE" Size of BERT map tabl entry
		Note for internal BERTs, the BERT translation table is used to store the number assigned to the BERT. Other fields are not used.			
8	(8)	SIGNED	4	CBRMAPS(0)	--+ Table of BERT maps
8	(8)	ADDRESS	4	CBRMINT	| Internal CB
12	(C)	SIGNED	1	CBRNINT	| Number of entries
13	(D)	BITSTRING	1	CBRINTF	| Flag byte
14	(E)	SIGNED	2	CBRINTL	| Max size (always zero)
16	(10)	SIGNED	2	CBRINTS	| Bytes in BERTs (zero)
18	(12)	SIGNED	2		| Reserved
20	(14)	ADDRESS	4	CBRMJQE	| JQE extensions
24	(18)	SIGNED	1	CBRNJQE	| Number of entries
25	(19)	BITSTRING	1	CBRJQEF	| Flag byte
26	(1A)	SIGNED	2	CBRJQEL	| Max JQE size
28	(1C)	SIGNED	2	CBRJQES	| Bytes in BERTs
30	(1E)	SIGNED	2		| Reserved
32	(20)	ADDRESS	4	CBRMCAT	| CAT control blocks
36	(24)	SIGNED	1	CBRNCAT	| Number of entries
37	(25)	BITSTRING	1	CBRCATF	| Flag byte
38	(26)	SIGNED	2	CBRCATL	| Max CAT size
40	(28)	SIGNED	2	CBRCATS	| Bytes in BERTs
42	(2A)	SIGNED	2		| Reserved
44	(2C)	ADDRESS	4	CBRMWSCQ	| WSCQ control blocks
48	(30)	SIGNED	1	CBRNWSCQ	| Number of entries
49	(31)	BITSTRING	1	CBRWSCQF	| Flag byte
50	(32)	SIGNED	2	CBRWSCQL	| Max WSCQ size
52	(34)	SIGNED	2	CBRWSCQS	| Bytes in BERTs
54	(36)	SIGNED	2		| Reserved
56	(38)	SIGNED	4	(0)	--+ End of table
56	(38)	X'4'	0	CBRMAPCT	"(*-CBRMAPS)/CBRMLEN" Number of table entries
56	(38)	X'FE'	0	CBRMAXID	"$DGBDYN-1" Max usable CB type
56	(38)	X'BFC'	0	CBRDYNPT	"CBRMAPS+CBRMADDR+($DGBDYN*CBRMLEN),4,C'A'" Dynamic BRTRANS pointer
56	(38)	X'C08'	0	CBRSIZE	"(CBRMAPS-CATBERT)+(CBRMAXID+1+1)*CBRMLEN" Size of CATBERT
		BERT translation table Bert translation tables are obtained in CSA and consist of a prefix area, containing storage pointers from area to area, followed by several (up to 253) BRTRANS areas. The prefix area contains a chain pointer that is used to free the CSA on a clean shutdown of JES2.			
56	(38)	X'0'	0	CBRBMPFX	"0,8" Prefix area
56	(38)	X'0'	0	CBRBMPTR	"0,4" Prefix area chain pointer

Table 42. Structure BRTRANS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	BRTRANS	, BERT translation table
0	(0)	CHARACTER	8	BRTRNAME	Name (Zero if not in use)
8	(8)	BITSTRING	1	BRTRID	BERTIE id
8	(8)	X'FD'	0	BRTRMAXI	"BRTIICNT-1" Max usable BERTIE ID
9	(9)	BITSTRING	1	BRTRCBT	CB type (same as $PARMLST)
10	(A)	SIGNED	2	BRTRCOFF	Offset into CB of data
12	(C)	BITSTRING	1	BRTRLEN	Length of data
13	(D)	BITSTRING	1	BRTRFLG1	Flag bytes
		1...		BRTRF1OL	"B'10000000'" Offset overlaps allowed
		.1..		BRTRF1J2	"B'01000000'" Type is JES2-defined
14	(E)	X'F'	0	BRTRFILL	"BRTRFCLI+1,1" Fill character
14	(E)	X'12'	0	BRTRSIZE	"*-BRTRANS" Length of a table entry

Table 43. Cross Reference for $CATBERT

Name	Offset	Hex Tag
BRTRANS	0	
BRTRCBT	9	
BRTRCOFF	A	
BRTRFILL	E	F
BRTRFLG1	D	
BRTRF1J2	D	40
BRTRF1OL	D	80
BRTRID	8	
BRTRLEN	C	
BRTRMAXI	8	FD
BRTRNAME	0	
BRTRSIZE	E	12
CATBERT	0	
CBRBMPFX	38	0
CBRBMPTR	38	0
CBRCATF	25	
CBRCATL	26	
CBRCATS	28	
CBRDYNPT	38	BFC
CBRINTF	D	
CBRINTL	E	
CBRINTS	10	
CBRJQEF	19	
CBRJQEL	1A	
CBRJQES	1C	
CBRMADDR	4	0
CBRMAPCT	38	4
CBRMAPE	4	0
CBRMAPS	8	
CBRMAXID	38	FE

Table 43. Cross Reference for $CATBERT (continued)

Name	Offset	Hex Tag
CBRMBYTE	4	8
CBRMCAT	20	
CBRMCNT	4	4
CBRMFJ2	4	80
CBRMFLAG	4	5
CBRMINT	8	
CBRMJQE	14	
CBRMLEN	4	C
CBRMSIZE	4	6
CBRMSTRV	2	
CBRMWSCQ	2C	
CBRNCAT	24	
CBRNINT	C	
CBRNJQE	18	
CBRNTYPE	1	
CBRNWSCQ	30	
CBRSIZE	38	C08
CBRVERCT	4	
CBRVERS	0	
CBRVERSN	0	1
CBRWSCQF	31	
CBRWSCQL	32	
CBRWSCQS	34	

Chapter 18. $CCE Information

$CCE Heading Information

Common Name:	Cell Control Element
Macro ID:	$CCE
DSECT Name:	CCE
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	CCE Offset: CCEID-CCE Length: L'CCEID
Storage Attributes:	Subpool: 231 Key: 1 Residency: Virtual and real storage are anywhere (above or below 16M) in common storage.
Size:	See CCEL
Created by:	$GETCEL in HASCLINK
Pointed to by:	CCTCSACH field of the HCCT data area CCECCE field of the CCE data area PSOCCE field of the PSO data area S35DCCE field of the S35D data area
Serialization:	Compare and swap logic is used to place CCEs on the CCTCSACH chain. Once on the chain, they are never removed. Compare and swap logic must also be used to update field CCEKEY1. CCEKEY1 is a claim field that must be obtained prior to modifying any other CCE field. If CCEKEY1 field is 0 then there is no owner of the CCE.
Function:	CCE's represent CSA cells of variable length (allocated in blocks of 256 bytes). The CCEs are chain from the CCTCSACH field in the HCCT control block. Once on this chain, a CCE will never be removed. The cell represented by each CCE is chained from the CCECLOC field of the CCE. The CCE describes who the owner of the cell is and what properties are associated with the cell (how large it is, whether it is a primary cell or not, how the cell may be freed). For more information on the CCEs, look at routines $GETCEL and $FRECEL in HASCLINK.

$CCE mapping

Table 44. Structure CCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CCE	THE $CCE CONTROL BLOCK
0	(0)	CHARACTER	4	CCEID	CCE IDENTIFICATION
4	(4)	ADDRESS	1	CCEVRSN	CCE VERSION FIELD
4	(4)	X'1'	0	CCEVERSN	"1" CURRENT VERSION LEVEL
5	(5)	BITSTRING	1	CCEFLAG1	CCE FLAG FIELD

Table 44. Structure CCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		CCE1PRIM	"B'10000000'" CELL WAS ALLOCATED WITH CCES--DO NOT FREE THE ASSOCIATED CELL
6	(6)	ADDRESS	2	CCECSIZ	ASSOCIATED CELL SIZE IN BYTES
8	(8)	ADDRESS	4	CCECCE	NEXT CCE
12	(C)	ADDRESS	4	CCECLOC	ADDRESS OF ASSOCIATED CELL
16	(10)	ADDRESS	4	CCEKEY1	PRIMARY KEY (CLAIM ID)--USUALLY AN SJB ADDRESS (USE CS INSTR)
20	(14)	ADDRESS	4	CCEKEY2	SECONDARY KEY--USUALLY A TCB ADDRESS OR 0
20	(14)	X'18'	0	CCEL	"*-CCE"

Table 45. Cross Reference for $CCE

Name	Offset	Hex Tag
CCE	0	
CCECCE	8	
CCECLOC	C	
CCECSIZ	6	
CCEFLAG1	5	
CCEID	0	C3C3C540
CCEKEY1	10	
CCEKEY2	14	
CCEL	14	18
CCEVERSN	4	1
CCEVRSN	4	
CCE1PRIM	5	80

Chapter 19. $CCW Information

$CCW Programming Interface Information

$CCW is a programming interface.

$CCW Heading Information

Common Name: CCW mapping and operation code equates
Macro ID: $CCW
DSECT Name: None
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: None
Storage Attributes:
```
Subpool:   N/A
Key:       N/A
Residency: N/A
```

Size: N/A
Created by: N/A
Pointed to by: N/A
Serialization: N/A
Function:
```
These equates define the fields within format 0 and
format 1 CCWs as well as the operation codes and
flags.  Basic command codes may have to be combined
with modifiers to produce CCW operation codes for
specific devices.
Not all combinations of basic opcodes and modifiers
are valid CCW opcodes for all types of devices.  See
specific device documentation for valid combinations.
```

$CCW mapping

Table 46. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		

Table 47. Structure $CCWS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	$CCWS	, CCW equates DSECT
	Basic CCW fields (format 0)				
0	(0)	X'0'	0	CCWOP	"0,1" OPERATION
0	(0)	X'0'	0	CCWCMD	"0,1" (ALIAS COMMAND CODE)
0	(0)	X'1'	0	CCWADDR	"1,3" DATA (TARGET) ADDRESS
0	(0)	X'4'	0	CCWFLAG	"4,1" FLAG BYTES
0	(0)	X'5'	0	CCWRESVD	"5,1" RESERVED
0	(0)	X'6'	0	CCWCOUNT	"6,2" LENGTH
0	(0)	X'6'	0	CCWLEN	"6,2" LENGTH

Table 47. Structure $CCWS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
	Basic CCW fields (format 1)				
0	(0)	X'0'	0	CCW1OP	"0,1" Operation
0	(0)	X'0'	0	CCW1CMD	"0,1" (Alias command code)
0	(0)	X'1'	0	CCW1FLAG	"1,1" Flag byte
0	(0)	X'2'	0	CCW1CNT	"2,2" Length
0	(0)	X'2'	0	CCW1LEN	"2,2" (Alias length)
0	(0)	X'1'	0	CCW1RESV	"CCW1FLAG,L'CCW1FLAG+L'CCW1CNT" Area that must be zero in a TIC
0	(0)	X'4'	0	CCW1ADDR	"4,4" Data (target) address
	BASIC COMMAND CODES				
		1		WRITE	"X'01'" WRITE
		1		PRINT	"X'01'" PRINT (ON PRINTERS)
		1		PUNCH	"X'01'" PUNCH (ON PUNCHES)
		1		SRCH	"X'01'" SEARCH (USED WITH MODIFIER)
		.... ..1.		READ	"X'02'" READ
		11		CNTRL	"X'03'" CONTROL
		11		NOP	"X'03'" NO OPERATION
		.... .1..		SNS	"X'04'" SENSE
		.... 1...		TIC	"X'08'" TRANSFER IN CHANNEL
0	(0)	X'6'	0	READIO	"READ+SNS" READ AND SENSE COMMAND
0	(0)	X'5'	0	WRITEIO	"WRITE+SNS" WRITE AND SENSE COMMAND
	CCW FLAG VALUES				
		1...		DC	"X'80'" DATA CHAINING
		.1..		CC	"X'40'" COMMAND CHAINING
		..1.		SLI	"X'20'" SURPRESS INCORRECT LENGTH
		...1		SKIP	"X'10'" SUPRESS DATA TRANSFER
		.... 1...		PCI	"X'08'" PGM CONTROLLED INTERRUPT
		.... .1..		IDA	"X'04'" CHANNEL INDIRECT ADDRESSING
		.... ..1.		SUS	"X'02'" Suspend
		1		MIDA	"X'01'" Modified indirect data addr
	DIRECT ACCESS DEVICE -- CONTROL COMMANDS				
		..1. 1.11		ORIENT	"X'28'+CNTRL" ORIENT - (2305 0NLY)
		...1 ..11		RECALIB	"X'10'+CNTRL" RECALIBRATE
		.... .111		SEEK	"X'04'+CNTRL" SEEK
		.... 1.11		SEEKCYL	"X'08'+CNTRL" SEEK CYLINDER
		...1 1.11		SEEKHD	"X'18'+CNTRL" SEEK HEAD
		 1111		SPACNT	"X'0C'+CNTRL" SPACE COUNT
		...1 1111		SETFMSK	"X'1C'+CNTRL" SET FILE MASK
		..1. ..11		SETS	"X'20'+CNTRL" SET SECTOR - (RPS ONLY)
		..1. ..11		SETSECTR	"X'20'+CNTRL" SET SECTOR - (RPS ONLY)
		...1 .111		RESTORE	"X'14'+CNTRL" RESTORE

Table 47. Structure $CCWS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1. .111		VARYSNS	"X'24'+CNTRL" VARY SENSING - (2305 ONLY)
		.1.. .111		LOCRCD	"X'44'+CNTRL" LOCATE RECORD - (EXT. C-K-D)
		.11. ..11		DEFXTNT	"X'60'+CNTRL" Define Extent
		Direct Access Device -- Track operations			
		1.1. .11.		READTRD	"X'A4'+READ" Read track data
		1.1. .1.1		WRITETRD	"X'A4'+WRITE" Write track data
		DIRECT ACCESS DEVICE -- SEARCH COMMAND MODIFIERS			
		..1.		EQ	"X'20'" SEARCH EQUAL MODIFIER
		.1..		HI	"X'40'" SEARCH HI MODIFIER
		.11.		HIEQ	"X'60'" SEARCH HI OR EQUAL MODIFIER
		.... .1..		CNTNU	"X'04'" SEARCH CONTINUE (2314 ONLY)
		DIRECT ACCESS DEVICE -- SENSE COMMAND MODIFIERS			
		1..1		RSVDISK	"X'90'" DEVICE RESERVE
		1.11		RLSDISK	"X'B0'" DEVICE RELEASE
		DIRECT ACCESS DEVICE -- FIELD MODIFIERS			
		...1 1...		HA	"X'18'" HOME ADDRESS FIELD
		...1		CNT	"X'10'" COUNT (ID) FIELD
		...1		ID	"X'10'" ID (COUNT) FIELD
		...1 .1..		REC0	"X'14'" RECORD ZERO
		.... .1..		DATA	"X'04'" DATA FIELD
		.... 1...		KEY	"X'08'" KEY FIELD
		.... 11..		KD	"X'0C'" KEY AND DATA FIELD
		...1 11..		CKD	"X'1C'" COUNT, KEY AND DATA FIELDS
		....		IPL	"X'00'" IPL RECORD
		..1.		SECTOR	"X'20'" SECTOR
		1...		UPDT	"X'80'" Update
		1...		MT	"X'80'" MULTI-TRACK OPERATION
		PRINTER DEVICE -- CONTROL COMMANDS			
		1111 1.11		LOADUCS	"X'F8'+CNTRL" LOAD UCS BUFFER
		1111 ..11		LOADUSCF	"X'F0'+CNTRL" LOAD UCS BUFFER (FOLDED)
		.1.. ..11		FOLDUCS	"X'40'+CNTRL" FOLD UCS BUFFER
		..1. ..11		UNFLDUCS	"X'20'+CNTRL" UNFOLD UCS BUFFER
		111. 1.11		GATEUCS	"X'E8'+CNTRL" GATE/LOAD UCS BUFFER
		.111 ..11		BLKDATAC	"X'70'+CNTRL" BLOCK DATA CHECK
		.111 1.11		ALWDATAC	"X'78'+CNTRL" ALLOW DATA CHECK
		.11. ..11		LOADFCB	"X'60'+CNTRL" LOAD FCB
		.11. 1.11		RAISCOVR	"X'68'+CNTRL" RAISE COVER
		PRINTER DEVICE -- READ COMMANDS			
		.... ..1.		READPLB	"X'00'+READ" READ PRINT INE BUFFER
		.... 1.1.		READUCS	"X'08'+READ" READ UCS BUFFER

Table 47. Structure $CCWS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1 ..1.		READFCB	"X'10'+READ" READ FCB
		PRINTER DEVICE -- SPACING AND CHANNEL MODIFIERS			
		11		IMED	"X'03'" IMMEDIATE COMMAND (FORMS CONTROL)
		.... 1...		SPAC1	"X'08'" PRINT WITH 1 SPACE
		...1		SPAC2	"X'10'" PRINT WITH 2 SPACES
		...1 1...		SPAC3	"X'18'" PRINT WITH 3 SPACES
		1...		SKPCH0	"X'00'+X'80'" SKIP TO CHANNEL 0
		1... 1...		SKPCH1	"X'08'+X'80'" SKIP TO CHANNEL 1
		1..1		SKPCH2	"X'10'+X'80'" SKIP TO CHANNEL 2
		1..1 1...		SKPCH3	"X'18'+X'80'" SKIP TO CHANNEL 3
		1.1.		SKPCH4	"X'20'+X'80'" SKIP TO CHANNEL 4
		1.1. 1...		SKPCH5	"X'28'+X'80'" SKIP TO CHANNEL 5
		1.11		SKPCH6	"X'30'+X'80'" SKIP TO CHANNEL 6
		1.11 1...		SKPCH7	"X'38'+X'80'" SKIP TO CHANNEL 7
		11..		SKPCH8	"X'40'+X'80'" SKIP TO CHANNEL 8
		11.. 1...		SKPCH9	"X'48'+X'80'" SKIP TO CHANNEL 9
		11.1		SKPCH10	"X'50'+X'80'" SKIP TO CHANNEL 10
		11.1 1...		SKPCH11	"X'58'+X'80'" SKIP TO CHANNEL 11
		111.		SKPCH12	"X'60'+X'80'" SKIP TO CHANNEL 12
		NON-IMPACT PRINTER DEVICE (3800) -- CONTROL COMMANDS			
		..11 .111		INITPRT	"X'34'+CNTRL" INITIALIZE PRINTER
		.1.. .111		SELXTAB0	"X'44'+CNTRL" SELECT TRANSLATE TABLE 0
		.1.1 .111		SELXTAB1	"X'54'+CNTRL" SELECT TRANSLATE TABLE 1
		.11. .111		SELXTAB2	"X'64'+CNTRL" SELECT TRANSLATE TABLE 2
		.111 .111		SELXTAB3	"X'74'+CNTRL" SELECT TRANSLATE TABLE 3
		1... .111		CLEARPRT	"X'84'+CNTRL" CLEAR PRINTER
		.... .111		PRTEOT	"X'04'+CNTRL" END-OF-TRANSMISSION
		.... .111		OFFSTACK	"X'04'+CNTRL" OR OFFSET-STACK
		...1 .111		MARKFORM	"X'14'+CNTRL" MARK FORM
		.1.1 ..11		LOADWCGM	"X'50'+CNTRL" LOAD CHARACTER MODULE
		..1. ..11		LDCOPYNO	"X'20'+CNTRL" LOAD COPY NUMBER
		.1.. ..11		SETFLASH	"X'40'+CNTRL" LOAD FLASH FRAME
		.1.. ..11		SETOVRLY	"X'40'+CNTRL" OR OVERLAY CONTROL SEQ.
		NON-IMPACT PRINTER DEVICE (3800) -- SPECAIL WRITE COMMANDS			
		..1. .1.1		LDCHARMD	"X'24'+WRITE" LOAD CHARACTER MODIFICATION
		..11 .1.1		LDCOPYMD	"X'34'+WRITE" LOAD COPY MODIFICATION
		MIDA - Modified indirect data addressing mapping NOTE: MIDAWs must start on a quadword boundary			
0	(0)	X'0'	0	MIDAW	"0,16" Midaw definition

Table 47. Structure $CCWS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
	EQU 0,5 Reserved				
0	(0)	X'5'	0	MIDAWFLG	"5,1" Flag byte
		1...		MIDAWFLS	"B'10000000'" Last MIDAW
		.1..		MIDAWFSK	"B'01000000'" Skip (read only)
		..1.		MIDAWFIN	"B'00100000'" Data-transfer-interruption
0	(0)	X'6'	0	MIDAWCNT	"6,2" Count of data to transfer
0	(0)	X'8'	0	MIDAWADR	"8,8" Address of data

Table 48. Structure LRPD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	LRPD	, Locate rec data area DSECT
0	(0)	BITSTRING	16	LRPARM(0)	Locate record parm list
0	(0)	BITSTRING	1	LRPOPER	Operation byte
		1		LROWRITE	"X'01'" - Write data
		11		LROFMT	"X'03'" - Format write
		.... .11.		LROREAD	"X'06'" - Read data
		.... 1.11		LROWTRAK	"X'0B'" - Write Track
		.... 11..		LRORTRAK	"X'0C'" - Read Track
1	(1)	BITSTRING	1	LRPAUX	Auxiliary byte
		1...		LRPAXTL	"X'80'" -Use transfer lngth factor
2	(2)	BITSTRING	1		Reserved (must be 0)
3	(3)	BITSTRING	1	LRPNREC	# of records to process
4	(4)	BITSTRING	4	LRPCCHH	(CCHH) Seek address (CCHH)
8	(8)	BITSTRING	5	LRPCCHR1(0)	(CCHHR) Search address
8	(8)	BITSTRING	4	LRPCCHH1	(CCHH) Cylinder and head numbers
12	(C)	BITSTRING	1	LRPREC1	(R) Record number
13	(D)	BITSTRING	1	LRPSECT1	Sector number
14	(E)	BITSTRING	2	LRPTLEN	Transfer length factor
14	(E)	X'10'	0	LRPLEN1	"*-LRPARM" Len of standard data packet

Table 49. Cross Reference for $CCW

Name	Offset	Hex Tag
$CCWS	0	
ALWDATAC	0	7B
BLKDATAC	0	73
CC	0	40
CCWADDR	0	1
CCWCMD	0	0
CCWCOUNT	0	6
CCWFLAG	0	4
CCWLEN	0	6
CCWOP	0	0
CCWRESVD	0	5
CCW1ADDR	0	4

Table 49. Cross Reference for $CCW (continued)

Name	Offset	Hex Tag
CCW1CMD	0	0
CCW1CNT	0	2
CCW1FLAG	0	1
CCW1LEN	0	2
CCW1OP	0	0
CCW1RESV	0	1
CKD	0	1C
CLEARPRT	0	87
CNT	0	10
CNTNU	0	4
CNTRL	0	3
DATA	0	4
DC	0	80
DEFXTNT	0	63
EQ	0	20
FOLDUCS	0	43
GATEUCS	0	EB
HA	0	18
HI	0	40
HIEQ	0	60
ID	0	10
IDA	0	4
IMED	0	3
INITPRT	0	37
IPL	0	0
KD	0	C
KEY	0	8
LDCHARMD	0	25
LDCOPYMD	0	35
LDCOPYNO	0	23
LOADFCB	0	63
LOADUCS	0	FB
LOADUSCF	0	F3
LOADWCGM	0	53
LOCRCD	0	47
LROFMT	0	3
LROREAD	0	6
LRORTRAK	0	C
LROWRITE	0	1
LROWTRAK	0	B
LRPARM	0	
LRPAUX	1	
LRPAXTL	1	80
LRPCCHH	4	
LRPCCHH1	8	
LRPCCHR1	8	
LRPD	0	
LRPLEN1	E	10
LRPNREC	3	

Table 49. Cross Reference for $CCW (continued)

Name	Offset	Hex Tag
LRPOPER	0	
LRPREC1	C	
LRPSECT1	D	
LRPTLEN	E	
MARKFORM	0	17
MIDA	0	1
MIDAW	0	0
MIDAWADR	0	8
MIDAWCNT	0	6
MIDAWFIN	0	20
MIDAWFLG	0	5
MIDAWFLS	0	80
MIDAWFSK	0	40
MT	0	80
NOP	0	3
OFFSTACK	0	7
ORIENT	0	2B
PCI	0	8
PRINT	0	1
PRTEOT	0	7
PUNCH	0	1
RAISCOVR	0	6B
READ	0	2
READFCB	0	12
READIO	0	6
READPLB	0	2
READTRD	0	A6
READUCS	0	A
RECALIB	0	13
REC0	0	14
RESTORE	0	17
RLSDISK	0	B0
RSVDISK	0	90
SECTOR	0	20
SEEK	0	7
SEEKCYL	0	B
SEEKHD	0	1B
SELXTAB0	0	47
SELXTAB1	0	57
SELXTAB2	0	67
SELXTAB3	0	77
SETFLASH	0	43
SETFMSK	0	1F
SETOVRLY	0	43
SETS	0	23
SETSECTR	0	23
SKIP	0	10
SKPCH0	0	80
SKPCH1	0	88

Table 49. Cross Reference for $CCW (continued)

Name	Offset	Hex Tag
SKPCH10	0	D0
SKPCH11	0	D8
SKPCH12	0	E0
SKPCH2	0	90
SKPCH3	0	98
SKPCH4	0	A0
SKPCH5	0	A8
SKPCH6	0	B0
SKPCH7	0	B8
SKPCH8	0	C0
SKPCH9	0	C8
SLI	0	20
SNS	0	4
SPACNT	0	F
SPAC1	0	8
SPAC2	0	10
SPAC3	0	18
SRCH	0	1
SUS	0	2
TIC	0	8
UNFLDUCS	0	23
UPDT	0	80
VARYSNS	0	27
WRITE	0	1
WRITEIO	0	5
WRITETRD	0	A5

Chapter 20. $CDCWORK Information

$CDCWORK Heading Information

Common Name:	JES2 Cross-member device status PCE work area
Macro ID:	$CDCWORK
DSECT Name:	PCE ($CDCWORK is part of the PCE DSECT)
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4
Storage Attributes:	Subpool: See $PCE Key: See $PCE Residency: See $PCE
Size:	See symbol CDCPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by:	See $PCE
Pointed to by:	The $CDCPCE field of the $HCT data area See $PCE for other pointer fields that apply to all PCE types.
Serialization:	Normal PCE dispatch serialization
Function:	The fields in this work area are used by a JES2 CDC Processor and by its support routines and exits. $CDCWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $CDCWORK are actually part of the PCE DSECT, but only map PCEs with the value PCECDCID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

$CDCWORK mapping

Table 50. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
320	(140)	CHARACTER	16	CDCMBNAM	Mailbox name for dev data
336	(150)	SIGNED	4	CDCXCECB(0)	XECB for XCF posts
360	(168)	ADDRESS	4	CDCXBUFA	Address of current XREQ
364	(16C)	ADDRESS	4	CDCXBUFP	Current data area pointer
368	(170)	SIGNED	4	CDCXBUFL	Current data area length
372	(174)	BITSTRING	8	CDCXTOKN	Current XCF message token
380	(17C)	ADDRESS	4	CDCACKPT	Acknowledgement XREQ ptr
384	(180)	ADDRESS	4	CDCSNDBF	Address of send buffer
388	(184)	SIGNED	4	CDCERRCT	ABEND count
392	(188)	BITSTRING	4	CDCMEMUP	Previous member up mask
396	(18C)	BITSTRING	4	CDCCDCUP	Previous CDC up mask
400	(190)	BITSTRING	4	CDCWRKAF	Working affinity mask
404	(194)	BITSTRING	4	CDCNITAF	Aff mask for NIT updates

Table 50. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
408	(198)	ADDRESS	4	CDCSHEAD	Head/Tail of
412	(19C)	ADDRESS	4	CDCSTAIL	synch elements
	List form macros for JESXCF services				
416	(1A0)	DBL WORD	8	(0)	
416	(1A0)	BITSTRING	160	CDCIXLST	JESXCF list form macros
576	(240)	DBL WORD	8	CDCIXEND(0)	End of list form area
------- IXZXIXAC MF=(L,CDCXIXAC) Acknowledge message MACDATE -11/12/03-<1>					
0	(0)	X'1A0'	0	M00M1070	"CDCXIXAC" ++ IXZXIXAC NAME
416	(1A0)	DBL WORD	8	CDCXIXAC(0)	++ IXZXIXAC PARM LIST
416	(1A0)	BITSTRING	1	CDCXIXAC_XVERSION	++ INPUT XVERSION
417	(1A1)	CHARACTER	6	CDCXIXAC_XEYECATCH	++ CONSTANT XEYECATCH
423	(1A7)	BITSTRING	1	CDCXIXAC_XSTB	++ INPUT
		1...		CDCXIXAC_XSTB_NO	"B'10000000'" ++ XSTB.NO KEYWORD
		.1..		CDCXIXAC_XSTB_YES	"B'01000000'" ++ XSTB.YES KEYWORD
424	(1A8)	BITSTRING	8	CDCXIXAC_XMSGTOKEN	++ XMSGTOKEN
432	(1B0)	ADDRESS	4	CDCXIXAC_XDATA	++ XDATA
436	(1B4)	SIGNED	4	CDCXIXAC_XDATALEN	++ XDATALEN
440	(1B8)	SIGNED	4	CDCXIXAC_XUSERRC	++ XUSERRC
444	(1BC)	SIGNED	4	CDCXIXAC_XGROUPTOKEN	++ XGROUPTOKEN
448	(1C0)	SIGNED	4	CDCXIXAC_XSYSRC	++ XSYSRC
452	(1C4)	SIGNED	4	CDCXIXAC_XSYSRSN	++ XSYSRSN
456	(1C8)	BITSTRING	1	CDCXIXAC_XKEYS	++ FIELD_LABEL
		1...		CDCXIXAC_KEYUSED_DATA	"B'10000000'" ++ KEYUSED.DATA KEYWORD
		.1..		CDCXIXAC_KEYUSED_DATALEN	"B'01000000'" ++ KEYUSED.DATALEN KEYWORD
		..1.		CDCXIXAC_KEYUSED_USERRC	"B'00100000'" ++ KEYUSED.USERRC KEYWORD
		...1		CDCXIXAC_KEYUSED_SYSRC	"B'00010000'" ++ KEYUSED.SYSRC KEYWORD
		.... 1...		CDCXIXAC_KEYUSED_SYSRSN	"B'00001000'" ++ KEYUSED.SYSRSN KEYWORD
457	(1C9)	BITSTRING	1	CDCXIXAC_XMSGATTR	++ INPUT
		1...		CDCXIXAC_XMSGATTR_J3CONNECT	"B'10000000'" ++ XMSGATTR.J3CONNECT KEYWORD
		.1..		CDCXIXAC_XMSGATTR_EXPRESS	"B'01000000'" ++ XMSGATTR.EXPRESS KEYWORD
457	(1C9)	X'2A'	0	CDCXIXACL	"*-CDCXIXAC" ++ LENGTH OF PLIST
				IXZXIXAC-1	
458	(1CA)	ADDRESS	2	(0)	Ensure area fits
------- IXZXIXMB MF=(L,CDCXIXMB) Create mailbox MACDATE -93/05/10-<1>					
416	(1A0)	SIGNED	2	M00M1072(0)	IXZXIXMB-1
416	(1A0)	DBL WORD	8	CDCXIXMB(0)	++ IXZXIXMB PARM LIST
416	(1A0)	BITSTRING	1	CDCXIXMB_XVERSION	++ INPUT XVERSION
417	(1A1)	CHARACTER	6	CDCXIXMB_XEYECATCH	++ CONSTANT XEYECATCH
423	(1A7)	CHARACTER	1	CDCXIXMB_XRSV0001	++ RESERVED XRSV0001

Table 50. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
424	(1A8)	CHARACTER	16	CDCXIXMB_XMBOXNAME	++ XMBOXNAME
440	(1B8)	ADDRESS	4	CDCXIXMB_XPOSTXIT	++ XPOSTXIT
444	(1BC)	ADDRESS	4	CDCXIXMB_XPOSTDATA	++ XPOSTDATA
448	(1C0)	SIGNED	4	CDCXIXMB_XPOSTALET	++ XPOSTALET
452	(1C4)	SIGNED	4	CDCXIXMB_XGROUPTOKEN	++ XGROUPTOKEN
456	(1C8)	BITSTRING	1	CDCXIXMB_XSYSEVENTS	++ FIELD_LABEL
		1...		CDCXIXMB_XSYSEVENT_YES	"B'10000000'" ++ XSYSEVENT.YES KEYWORD
		.1..		CDCXIXMB_XSYSEVENT_NO	"B'01000000'" ++ XSYSEVENT.NO KEYWORD
456	(1C8)	X'29'	0	CDCXIXMBL	"*-CDCXIXMB" ++ LENGTH OF PLIST
				IXZXIXMB-1	
458	(1CA)	ADDRESS	2	(0)	Ensure area fits
------- IXZXIXMD MF=(L,CDCXIXMD) Delete mailbox MACDATE -93/05/10-<1>					
416	(1A0)	SIGNED	2	M00M1073(0)	IXZXIXMD-1
416	(1A0)	DBL WORD	8	CDCXIXMD(0)	++ IXZXIXMD PARM LIST
416	(1A0)	BITSTRING	1	CDCXIXMD_XVERSION	++ INPUT XVERSION
417	(1A1)	CHARACTER	6	CDCXIXMD_XEYECATCH	++ CONSTANT XEYECATCH
423	(1A7)	BITSTRING	1	CDCXIXMD_XSTB	++ INPUT
		1...		CDCXIXMD_XSTB_NO	"B'10000000'" ++ XSTB.NO KEYWORD
		.1..		CDCXIXMD_XSTB_YES	"B'01000000'" ++ XSTB.YES KEYWORD
424	(1A8)	CHARACTER	16	CDCXIXMD_XMBOXNAME	++ XMBOXNAME
440	(1B8)	SIGNED	4	CDCXIXMD_XGROUPTOKEN	++ XGROUPTOKEN
440	(1B8)	X'1C'	0	CDCXIXMDL	"*-CDCXIXMD" ++ LENGTH OF PLIST
				IXZXIXMD-1	
444	(1BC)	ADDRESS	2	(0)	Ensure area fits
------- IXZXIXRM MF=(L,CDCXIXRM) Receive message MACDATE -93/05/10-<1>					
416	(1A0)	SIGNED	2	M00M1074(0)	IXZXIXRM-1
416	(1A0)	DBL WORD	8	CDCXIXRM(0)	++ IXZXIXRM PARM LIST
416	(1A0)	BITSTRING	1	CDCXIXRM_XVERSION	++ INPUT XVERSION
417	(1A1)	CHARACTER	6	CDCXIXRM_XEYECATCH	++ CONSTANT XEYECATCH
423	(1A7)	CHARACTER	1	CDCXIXRM_XRSV0001	++ RESERVED XRSV0001
424	(1A8)	CHARACTER	16	CDCXIXRM_XMBOXNAME	++ XMBOXNAME
440	(1B8)	ADDRESS	4	CDCXIXRM_XDATA	++ XDATA
444	(1BC)	SIGNED	4	CDCXIXRM_XDATALEN	++ XDATALEN
448	(1C0)	BITSTRING	8	CDCXIXRM_XMSGTOKEN	++ XMSGTOKEN
456	(1C8)	SIGNED	4	CDCXIXRM_XGROUPTOKEN	++ XGROUPTOKEN
460	(1CC)	BITSTRING	1	CDCXIXRM_XMSGFETCH	++ INPUT
		1...		CDCXIXRM_XMSGFETCH_ALL	"B'10000000'" ++ XMSGFETCH.ALL KEYWORD
		.1..		CDCXIXRM_XMSGFETCH_MESSAGES	"B'01000000'" ++ XMSGFETCH.MESSAGES KEYWORD
		..1.		CDCXIXRM_XMSGFETCH_SYSEVENT	"B'00100000'" ++ XMSGFETCH.SYSEVENT KEYWORD

Table 50. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		CDCXIXRM_XMSGFETCH_ACKS	"B'00010000'" ++ XMSGFETCH.ACKS KEYWORD
461	(1CD)	BITSTRING	1	CDCXIXRM_XKEYS	++ FIELD_LABEL
		1...		CDCXIXRM_KEYUSED_MSGFETCH	"B'10000000'" ++ KEYUSED.MSGFETCH KEYWORD
461	(1CD)	X'2E'	0	CDCXIXRML	"*-CDCXIXRM" ++ LENGTH OF PLIST
				IXZXIXRM-1	
462	(1CE)	ADDRESS	2	(0)	Ensure area fits
576	(240)	DBL WORD	8	(0)	Force double-word alignment
576	(240)	X'100'	0	CDCPCEWS	"*-PCEWORK" Length of work area

Table 51. Structure CDCSYN

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CDCSYN	
0	(0)	ADDRESS	4	CDCSYNNX	Next pointer ($FIFOENQ)
4	(4)	ADDRESS	4	CDCSYNPR	Prev pointer ($FIFOENQ)
8	(8)	BITSTRING	1	CDCSYNTY	Type (See CDCTTYPE)
9	(9)	BITSTRING	3		Reserved
12	(C)	ADDRESS	4	CDCSYNAD	Control block address
12	(C)	X'10'	0	CDCSYNLN	"*-CDCSYN" Length of element

Table 52. Cross Reference for $CDCWORK

Name	Offset	Hex Tag
CDCACKPT	17C	
CDCCDCUP	18C	
CDCERRCT	184	
CDCIXEND	240	
CDCIXLST	1A0	
CDCMBNAM	140	E2E8E2D1
CDCMEMUP	188	
CDCNITAF	194	
CDCPCEWS	240	100
CDCSHEAD	198	
CDCSNDBF	180	
CDCSTAIL	19C	
CDCSYN	0	
CDCSYNAD	C	
CDCSYNLN	C	10
CDCSYNNX	0	
CDCSYNPR	4	
CDCSYNTY	8	
CDCWRKAF	190	
CDCXBUFA	168	
CDCXBUFL	170	
CDCXBUFP	16C	
CDCXCECB	150	

Table 52. Cross Reference for $CDCWORK (continued)

Name	Offset	Hex Tag
CDCXIXAC	1A0	
CDCXIXAC_KEYUSED_DATA	1C8	80
CDCXIXAC_KEYUSED_DATALEN	1C8	40
CDCXIXAC_KEYUSED_SYSRC	1C8	10
CDCXIXAC_KEYUSED_SYSRSN	1C8	8
CDCXIXAC_KEYUSED_USERRC	1C8	20
CDCXIXAC_XDATA	1B0	
CDCXIXAC_XDATALEN	1B4	
CDCXIXAC_XEYECATCH	1A1	
CDCXIXAC_XGROUPTOKEN	1BC	
CDCXIXAC_XKEYS	1C8	
CDCXIXAC_XMSGATTR	1C9	
CDCXIXAC_XMSGATTR_EXPRESS	1C9	40
CDCXIXAC_XMSGATTR_J3CONNECT	1C9	80
CDCXIXAC_XMSGTOKEN	1A8	
CDCXIXAC_XSTB	1A7	
CDCXIXAC_XSTB_NO	1A7	80
CDCXIXAC_XSTB_YES	1A7	40
CDCXIXAC_XSYSRC	1C0	
CDCXIXAC_XSYSRSN	1C4	
CDCXIXAC_XUSERRC	1B8	
CDCXIXAC_XVERSION	1A0	
CDCXIXACL	1C9	2A
CDCXIXMB	1A0	
CDCXIXMB_XEYECATCH	1A1	
CDCXIXMB_XGROUPTOKEN	1C4	
CDCXIXMB_XMBOXNAME	1A8	
CDCXIXMB_XPOSTALET	1C0	
CDCXIXMB_XPOSTDATA	1BC	
CDCXIXMB_XPOSTXIT	1B8	
CDCXIXMB_XRSV0001	1A7	
CDCXIXMB_XSYSEVENT_NO	1C8	40
CDCXIXMB_XSYSEVENT_YES	1C8	80
CDCXIXMB_XSYSEVENTS	1C8	
CDCXIXMB_XVERSION	1A0	
CDCXIXMBL	1C8	29
CDCXIXMD	1A0	
CDCXIXMD_XEYECATCH	1A1	
CDCXIXMD_XGROUPTOKEN	1B8	
CDCXIXMD_XMBOXNAME	1A8	
CDCXIXMD_XSTB	1A7	
CDCXIXMD_XSTB_NO	1A7	80
CDCXIXMD_XSTB_YES	1A7	40
CDCXIXMD_XVERSION	1A0	
CDCXIXMDL	1B8	1C
CDCXIXRM	1A0	
CDCXIXRM_KEYUSED_MSGFETCH	1CD	80
CDCXIXRM_XDATA	1B8	
CDCXIXRM_XDATALEN	1BC	

Table 52. Cross Reference for $CDCWORK (continued)

Name	Offset	Hex Tag
CDCXIXRM_XEYECATCH	1A1	
CDCXIXRM_XGROUPTOKEN	1C8	
CDCXIXRM_XKEYS	1CD	
CDCXIXRM_XMBOXNAME	1A8	
CDCXIXRM_XMSGFETCH	1CC	
CDCXIXRM_XMSGFETCH_ACKS	1CC	10
CDCXIXRM_XMSGFETCH_ALL	1CC	80
CDCXIXRM_XMSGFETCH_MESSAGES	1CC	40
CDCXIXRM_XMSGFETCH_SYSEVENT	1CC	20
CDCXIXRM_XMSGTOKEN	1C0	
CDCXIXRM_XRSV0001	1A7	
CDCXIXRM_XVERSION	1A0	
CDCXIXRML	1CD	2E
CDCXTOKN	174	
M00M1070	0	1A0
M00M1072	1A0	
M00M1073	1A0	
M00M1074	1A0	
PCE	0	

Chapter 21. $CHK Information

$CHK Programming Interface Information

$CHK is a programming interface.

$CHK Heading Information

Common Name:	JES2 FSI Checkpoint Record
Macro ID:	$CHK
DSECT Name:	CHK
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	CHK Offset: CHKID-CHK Length: L'CHKID
Storage Attributes:	Subpool: 1 Key: 1 Residency: Virtual and real storage below 16 meg line
Size:	See CHKAZLNG
Created by:	HASPPRPU (via $GETWORK) $#ALCHK allocated SPOOL space.
Pointed to by:	WRMCHKBF field of the $WARMWRK data area PPPCHKBF field of the $PPPWORK data area PSPCKPTB field of the $PSOWORK data area SPOOL MTTR kept in JOECPADR
Serialization:	Serialized by standard JES2 Main task serialization.
Function:	Maps the data area describing that information needed to understand where a printing or PSO function was when it reached a significant point in logic. This is used to reposition printers when they are resume working on a piece of output.

$CHK mapping

Table 53. Structure CHKDSECT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CHKDSECT	HASP FSI CKPT RECORD DSECT
0	(0)	BITSTRING	1	(0)	BUFFER CONTROL INFORMATION
0	(0)	X'68'	0	CHKSTART	"*" START OF DATA WRITTEN TO SPOOL
		The following sub-section, generated by the SPID macro, must reside immediately after the I/O control data in every spool buffer. The following fields are defined: Eyecatcher - 4 bytes Job name - 8 bytes Job number - 4 bytes Job key - 4 bytes Dataset key - 4 bytes (or reserved if not applicable)			
104	(68)	CHARACTER	4	CHKJID	Eyecatcher

Table 53. Structure CHKDSECT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
108	(6C)	CHARACTER	8	CHKJNAME	Job name
116	(74)	SIGNED	4	CHKJBNUM	Job number
120	(78)	SIGNED	4	CHKJBKEY	Job key
124	(7C)	BITSTRING	4		Reserved
124	(7C)	X'18'	0	CHKSPLNG	"*-CHKJID"

Table 53. Structure CHKDSECT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description

```
  %CHKPRO: ;
      START OF SPECIFICATIONS
01 Descriptive name: JES FSI checkpoint record area
02 Acronym: IAZCHK
01 Macro name: IAZCHK
01 DSECT name: IAZCHK or CHK
01 Label prefix: CHK
01 Component ID: JES Common (SC141)
01 External classification: PSPI
01 End of external classification:
01 Eye-catcher: 'CHK '
02 Offset: CHKID-CHK
02 Length: L'CHKID
01 Storage attributes:
02 Subpool: Caller
02 Key: Any
02 Residency:
      Virtual and real storage are anywhere.
01 Size:
     See CHKLEN
01 Created by:
     Caller of FSIREQ service
01 Pointed to by:
     GDSCKPA field of the IAZFSIP data area when
       FSIREQ REQUEST=FSIGDS
     CHKADR field of the IAZFSIP data area when
       FSIREQ REQUEST=FSICKPT
01 Serialization:
     None required
01 Function:
     This macro maps the data area describing the dataset
     information needed to understand the progress being
     made on the dataset by the processing FSA when a
     significant point in logic was reached. This
     information is used if the processing needs to be
     restarted, for example, a printer is repositioned
     and needs to resume work on a piece of output.
01 Method of access:
02 ASM:
      IAZCHK DSECT=YES|NO
        DSECT=YES - Provided DSECT for IAZCHK
        DSECT=NO - Provides storage definition for IAZCHK
02 PL/X:
        %DCL CHKPTR PTR
        %INCLUDE SYSLIB(IAZCHK)
01 Used by:
     Functional Subsystem Interface
01 Deleted by:
     Caller of FSIREQ service
01 Frequency:
      1 per call to the Functional Subsystem Interface
01 Restrictions:
     None
      END OF SPECIFICATIONS
  01 CHANGE ACTIVITY:
                MVS/SP RELEASE 3 LEVEL 3 (SP1.3.3, JBB1329)
   $VC1PXXX=PTM HBB5530 950915 VLC: BCP PTM xxx Ext Classifi
   $R04LWLM=WLM HBB6604 970317 J_K2: Misc fixes
```

Table 53. Structure CHKDSECT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		$R04P498=WLM HBB6604 970331 J_S1:			
		$Z05LENF=ENVIRON HBB7708 021003 .: ENF 58 for checkpoints			
		A000000-999999 CREATED FOR MVS 1.3.3			
		01 NOTES:			
		None			
		%GOTO CHKDCL;			
128	(80)	DBL WORD	8	(0)	
128	(80)	X'80'	0	IAZCHK	"*,0,C'J'"
128	(80)	X'80'	0	CHK	"IAZCHK,0,C'J'" Alternate DSECT name
128	(80)	CHARACTER	4	CHKID	CHKPT RECORD AREA ID
132	(84)	SIGNED	2	CHKLNGTH	CHKPT LENGTH
134	(86)	SIGNED	2		RESERVED
136	(88)	CHARACTER	64	CHKJESWK	TO BE FILLED IN BY JES
200	(C8)	CHARACTER	8	CHKRBA	JES EQUIVALENT OF A RBA
208	(D0)	SIGNED	4	CHKDEV	DEVICE TYPE
212	(D4)	SIGNED	4	CHKMOD	MODEL NUMBER
216	(D8)	SIGNED	4	CHKCOPY	COPY COUNT
220	(DC)	SIGNED	4	CHKTRNC	TRANSMISSION COUNT
224	(E0)	SIGNED	4	CHKREC	LOGICAL RECORD COUNT(FROM SPOOL)
228	(E4)	SIGNED	4	CHKPAGE	PHYSICAL SHEET COUNT
232	(E8)	CHARACTER	8	CHKPROD	PRODUCT THAT CREATED CKPT REC
240	(F0)	SIGNED	4	CHKVER	VERSION OF PRODUCT
244	(F4)	SIGNED	4	CHKRELS	RELEASE OF PRODUCT
248	(F8)	SIGNED	4	CHKMODF	MODIFICATION LEVEL OF PRODUCT
252	(FC)	SIGNED	4	CHKSERV	SERVICE LEVEL OF PRODUCT
252	(FC)	X'80'	0	CHKLEN	"*-CHK"
		The following fields overlay the 64 byte CHKJESWK area generated by IAZCHK.			
136	(88)	SIGNED	2	CHKJRCB	OFFSET TO RCB IN BUFFER
138	(8A)	SIGNED	2	CHKPDDB	DISPLACEMENT OF PDDB INTO IOT
140	(8C)	SIGNED	4	CHKPPCT	PDDB PAGE COUNT
144	(90)	SIGNED	4	CHKTLNC	TOTAL JOE LINE COUNT
148	(94)	SIGNED	4	CHKTPCT	TOTAL JOE PAGE COUNT (PHYSICAL)
152	(98)	BITSTRING	4	CHKMTTR_Z11	Data buffer track address (MQTR) Only valid at version CHKVER0.
156	(9C)	BITSTRING	4	CHKIOTTC_Z11	IOT track address (MQTR). (MQTR) Only valid at version CHKVER0.
160	(A0)	BITSTRING	1	CHKCOPYC	CURRENT COPY NUMBER
161	(A1)	BITSTRING	1	CHKBOFF	CURRENT OFFSET INTO TRACKCELL
162	(A2)	BITSTRING	1	CHKCPYG	CURRENT OFFSET INTO COPY GROUP
163	(A3)	BITSTRING	1	CHKTNDS	TOTAL JOE DATASET COUNT
		KEEP NEXT TWO FIELDS TOGETHER FOR $DU COMMAND			
164	(A4)	SIGNED	4	CHKCRECN	CURRENT RECORD NUMBER
168	(A8)	SIGNED	4	CHKCPAGN	CURRENT PAGE NUMBER
172	(AC)	CHARACTER	12	CHKJOID(0)	JOE ID BLOCK FOR CHK VALIDATION
172	(AC)	CHARACTER	8	CHKJOENM	JOE OUTPUT GROUP NAME(JOENAME)
180	(B4)	CHARACTER	2	CHKJOID1	JOE OUTPUT GROUP ID (JOEID1)
182	(B6)	CHARACTER	2	CHKJOID2	JOE OUTPUT GROUP ID (JOEID2)
184	(B8)	BITSTRING	1		Reserved for future use
185	(B9)	SIGNED	1	CHKVERS	CHK version:

Table 53. Structure CHKDSECT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
185	(B9)	X'0'	0	CHKVER0	"0" Pre-z/OS 1.12 (MTTRs)
185	(B9)	X'C'	0	CHKVER12	"12" z/OS 1.12+ (MQTRs)
186	(BA)	SIGNED	2	CHKPPHPC	PDDB PHYSICAL PAGE COUNT
188	(BC)	BITSTRING	6	CHKMQTR	Data buffer track address (MQTR). Only valid at version CHKVER12 and greater.
194	(C2)	BITSTRING	6	CHKIOTTK	IOT track address (MQTR). Only valid at version CHKVER12 and greater.
194	(C2)	X'88'	0	CHKDATA	"CHKJESWK,*-CHKJESWK" CHK DATA AREA
		The following fields overlay the 8 byte CHKRBA area generated by IAZCHK.			
200	(C8)	BITSTRING	1		Reserved
201	(C9)	BITSTRING	4	CHKRBATA	Data buffer Track Address (MTTR)
205	(CD)	BITSTRING	3	CHKRBARN	RECORD NUMBER WITHIN BUFFER
256	(100)	SIGNED	4	(0)	PRESERVE FULL WORD ALIGNMENT
256	(100)	X'100'	0	CHKAZLNG	"*-CHKDSECT" Length of DSECT
		FLAG EQUATES FOR $#CHK MACRO INLINE PARM LIST			
		1...		CHK1RD	"B'10000000'" TYPE=READ OPTION $#CHK MACRO
		.1..		CHK1WR	"B'01000000'" TYPE=WRITE OPTION $#CHK MACRO
		..1.		CHK1YW	"B'00100000'" WAIT=YES OPTION $#CHK MACRO
		...1		CHK1NW	"B'00010000'" WAIT=NO OPTION $#CHK MACRO
		.... 1...		CHK1RS5	"B'00001000'" RESERVED FOR FUTURE USE
		.... .1..		CHK1RS6	"B'00000100'" RESERVED FOR FUTURE USE
		.... ..1.		CHK1RS7	"B'00000010'" RESERVED FOR FUTURE USE
		1		CHK1RS8	"B'00000001'" RESERVED FOR FUTURE USE
		FLAG EQUATES FOR $#ALCHK MACRO INLINE PARM LIST			
		1...		CHK2WRI	"B'10000000'" WRIOT=YES OPTION $#ALCHK MACRO
		.1..		CHK2WRJ	"B'01000000'" WRJCT=YES OPTION $#ALCHK MACRO
		..1.		CHK2IOT	"B'00100000'" IOT ADDR PASSED TO $#ALCHK
		...1		CHK2JCT	"B'00010000'" JCT ADDR PASSED TO $#ALCHK
		.... 1...		CHK2YJL	"B'00001000'" LOCK=YES OPTION $#ALCHK MACRO
		.... .1..		CHK2QUE	"B'00000100'" Use $CKPTQUE to update JOE
		.... ..1.		CHK2RS7	"B'00000010'" RESERVED FOR FUTURE USE
		1		CHK2RS8	"B'00000001'" RESERVED FOR FUTURE USE

Table 54. Cross Reference for $CHK

Name	Offset	Hex Tag
CHK	80	80
CHKAZLNG	100	100
CHKBOFF	A1	
CHKCOPY	D8	
CHKCOPYC	A0	
CHKCPAGN	A8	
CHKCPYG	A2	
CHKCRECN	A4	
CHKDATA	C2	88
CHKDEV	D0	
CHKDSECT	0	
CHKID	80	
CHKIOTTC_Z11	9C	
CHKIOTTK	C2	
CHKJBKEY	78	
CHKJBNUM	74	
CHKJESWK	88	
CHKJID	68	
CHKJNAME	6C	
CHKJOENM	AC	
CHKJOID	AC	
CHKJOID1	B4	
CHKJOID2	B6	
CHKJRCB	88	
CHKLEN	FC	80
CHKLNGTH	84	
CHKMOD	D4	
CHKMODF	F8	
CHKMQTR	BC	
CHKMTTR_Z11	98	
CHKPAGE	E4	
CHKPDDB	8A	
CHKPPCT	8C	
CHKPPHPC	BA	
CHKPROD	E8	
CHKRBA	C8	
CHKRBARN	CD	
CHKRBATA	C9	
CHKREC	E0	
CHKRELS	F4	
CHKSERV	FC	
CHKSPLNG	7C	18
CHKSTART	0	68
CHKTLNC	90	
CHKTNDS	A3	
CHKTPCT	94	
CHKTRNC	DC	

Table 54. Cross Reference for $CHK (continued)

Name	Offset	Hex Tag
CHKVER	F0	
CHKVERS	B9	
CHKVER0	B9	0
CHKVER12	B9	C
CHK1NW	100	10
CHK1RD	100	80
CHK1RS5	100	8
CHK1RS6	100	4
CHK1RS7	100	2
CHK1RS8	100	1
CHK1WR	100	40
CHK1YW	100	20
CHK2IOT	100	20
CHK2JCT	100	10
CHK2QUE	100	4
CHK2RS7	100	2
CHK2RS8	100	1
CHK2WRI	100	80
CHK2WRJ	100	40
CHK2YJL	100	8
IAZCHK	80	80

Chapter 22. $CICB Information

$CICB Heading Information

Common Name: C/I address space control block
Macro ID: $CICB
DSECT Name: CICB
Owning Component: JES2 (SC1BH)
Eye-Catcher ID:
```
CICB
Offset:  CCBID-CICB
Length:  L'CCBID
```
Storage Attributes:
```
Subpool:   241
Key:       1
Residency: Virtual is in 31 bit storage and real can in in 64
bit storage.  The $CICB resides in common storage.
```

Size: See CCBLEN
Created by: HASPCNVT PCE
Pointed to by:
```
CCBNEXT  field of the $CICB data area
CIPCICB  field of the $CNVWORK data area
DCNVCICB field of the $DTECNV data area
CCTCICB  field of the $HCCT data area
```
Serialization:
```
Created when a C/I address space is being started.
Otherwise it is updated by the C/I address space
main task and only updated by it.
```
Function:
```
This DSECT maps the CSA data associated with a JES2
C/I address space.  It serves as an anchor for all
data areas related to the C/I subtasks.
```

$CICB mapping

Table 55. Structure CICB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CICB	, JES2 C/I address space CB
0	(0)	CHARACTER	8	CCBID	Eyecatcher
8	(8)	ADDRESS	1	CCBVER	CB version
8	(8)	X'1'	0	CCBVERN	"1" Current version number
9	(9)	SIGNED	1	CCBSEQ	Address space sequence number
10	(A)	BITSTRING	1	CCBSTAT	Status flags for the address
		1...		CCBSTERM	"B'10000000'" Terminate address space
		.1..		CCBSEOM	"B'01000000'" Address space went through EOM
		..1.		CCBSFAIL	"B'00100000'" Addr space start failed
11	(B)	BITSTRING	1	CCBREQS	Requests flags for main task
		1...		CCBRPROC	"B'10000000'" Scan for PROCLIBs to process
		.1..		CCBRSUBS	"B'01000000'" Scan for subtask work
12	(C)	ADDRESS	4	CCBNEXT	Next CICB on CCTCCB chain

Table 55. Structure CICB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
16	(10)	ADDRESS	4	CCBCIWRK	CI work area in JES2 CI addr space
20	(14)	CHARACTER	8	CCBNAME	Address space name
28	(1C)	CHARACTER	8	CCBPROG	PROG= to run the address space
36	(24)	BITSTRING	8	CCBPRTKN	Token for CSVDYLPA DELETE request
44	(2C)	BITSTRING	24	CCBODA	ASCRE output area (IHAASEO)
68	(44)	SIGNED	4	CCBCECB	Completion ECB (from subtask)
72	(48)	SIGNED	4	CCBWECB	Work ECB (to subtask)
76	(4C)	ADDRESS	4	CCBCIPRM	Address space CIPARM chain
80	(50)	ADDRESS	4	CCBCIPWR	CIPARM work queue
84	(54)	ADDRESS	4	CCBPAD	PROCLIB PAD to be allocated
88	(58)	DBL WORD	8	(0)	Alignment
88	(58)	X'58'	0	CCBLEN	"*-CICB" Length of work area

Table 56. Cross Reference for $CICB

Name	Offset	Hex Tag
CCBCECB	44	
CCBCIPRM	4C	
CCBCIPWR	50	
CCBCIWRK	10	
CCBID	0	C3C9C3C2
CCBLEN	58	58
CCBNAME	14	D1C5E2F2
CCBNEXT	C	
CCBODA	2C	
CCBPAD	54	
CCBPROG	1C	C8C1E291
CCBPRTKN	24	
CCBREQS	B	
CCBRPROC	B	80
CCBRSUBS	B	40
CCBSEOM	A	40
CCBSEQ	9	
CCBSFAIL	A	20
CCBSTAT	A	
CCBSTERM	A	80
CCBVER	8	
CCBVERN	8	1
CCBWECB	48	
CICB	0	

Chapter 23. $CID Information

$CID Heading Information

Common Name:	Connect ID cell
Macro ID:	$CID
DSECT Name:	CID
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'CID' Offset: CIDEYE-CID Length: 4
Storage Attributes:	Subpool: see CIDPOOL Key: 1 Residency: Virtual storage belw 2Gb, real storage anywhwere, in the private storage of the JES2 address space. In a JES2 NJE Server address sPace
Size:	See CIDSIZE
Created by:	HASPCON under WTO subtask
Pointed to by:	CSACIDCH field of the $DTEWTO data area CSACID field of the $DTEWTO data area
Serialization:	Used by $HASPWTO subtask only.
Function:	Contains the connect id for a multiline WTO.

$CID mapping

Table 57. Structure CID

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CID	
0	(0)	CHARACTER	4	CIDEYE	NSCT eyecatcher
4	(4)	ADDRESS	4	CIDNEXT	Chain pointer
8	(8)	ADDRESS	4	CIDPCE	PCE address
12	(C)	SIGNED	4	CIDCONCT	Connect id for MLWTO
16	(10)	BITSTRING	1	CIDFLAG1	Flags
		1...		CID1LONG	"B'10000000'" Consoles truncated MLWTO for being too long
		.1..		CID1TRNC	"B'01000000'" Most recent line was truncated
17	(11)	BITSTRING	3		Reserved
17	(11)	X'14'	0	CIDSIZE	"*-CID" Length of data area

Table 58. Cross Reference for $CID

Name	Offset	Hex Tag
CID	0	
CIDCONCT	C	
CIDEYE	0	C3C9C440
CIDFLAG1	10	
CIDNEXT	4	
CIDPCE	8	

Table 58. Cross Reference for $CID (continued)

Name	Offset	Hex Tag
CIDSIZE	11	14
CID1LONG	10	80
CID1TRNC	10	40

Chapter 24. $CIPARM Information

$CIPARM Heading Information

Common Name: C/I subtask parm list
Macro ID: $CIPARM
DSECT Name: CIPARM
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: CIPARM
Offset: CIPID-CIPARM
Length: L'CIPID
Storage Attributes: Subpool: N/A
Key: 1
Residency: Located in the PAD JES2 $CPOOL in the PSO data space.

Size: See CIPLEN
Created by: HASPCNVT PCE
Pointed to by: CIPCIPA field of the $CIPARM data area
JPCECIP field of the $CNVWORK data area
DCNVCIP field of the $DTECNV data area
CCTCIP field of the $HCCT data area
Serialization: Fields are access by the CNVT PCE when the C/I subtask is waiting for work and by the C/I subtask while the PCE is waiting for conversion to complete.
Function: This data area is used to pass information about jobs to be processed by C/I from the main task to the C/I subtask (either in the JES2 address space or in a JES2 C/I address space). This area should only be used to pass data not as a generic work area.

$CIPARM mapping

Table 59. Structure CIPARM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CIPARM	, JES2 C/I subtask parm list
0	(0)	CHARACTER	8	CIPID	Eyecatcher
8	(8)	ADDRESS	1	CIPVER	CB version
8	(8)	X'1'	0	CIPVERN	"1" Current version number
		There are 3 sequence numbers for each subtask, all are zero based. For subtasks in the JES2 address space, only CIPSEQ is set. CIPSEQ - Overall sequence number, corresponds to PCESEQ. Set by PCE. CIPASSEQ - Sequence number of owning JES2CI address space. Corresponds to CCBSEQ. Set by GETJ2CI service when address space is created. CIPSTSEQ - Sequence number of C/I subtask within the JES2CI address space. Set by GETJ2CI service when subtask is created.			
9	(9)	SIGNED	1	CIPSEQ	Converter sequence number

Table 59. Structure CIPARM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
10	(A)	SIGNED	1	CIPASSEQ	Address space sequence nubmer
11	(B)	SIGNED	1	CIPSTSEQ	Subtask seqence number
12	(C)	ADDRESS	4	CIPCIPA	Next CIPARM on CCTCIP chain
16	(10)	ADDRESS	4	CIPPCE	Related PCE address
20	(14)	ADDRESS	4	CIPCICB	CICB for owning address space (zero if JES2 subtask)
24	(18)	ADDRESS	4	CIPCCBNX	Next CIPARM on CICB CCBCIPRM chain
28	(1C)	ADDRESS	4	CIPCCBWR	Next CIPARM on CICB CCBCIPWR chain
32	(20)	ADDRESS	1	CIPWRFUN	Work request
32	(20)	X'1'	0	CIPWRSTR	"1" Subtask start processeing
32	(20)	X'2'	0	CIPWREND	"2" Subtask terminate request
33	(21)	BITSTRING	1		Reserved
34	(22)	BITSTRING	2	CIPASID	Owning CI address space
36	(24)	ADDRESS	4	CIPDTEA	Associated DTE address
40	(28)	BITSTRING	16	CIPTTOKN	CI subtask TTOKEN
56	(38)	ADDRESS	4	CIPWECBA	Work ECB address (PCE->subtask)
60	(3C)	ADDRESS	4	CIPCECBA	Completion ECB addr (subtask->PCE)
64	(40)	BITSTRING	1	CIPFLG1	Serialized flag byte (Update using OIL/NIL only)
		1...		CIP1REO	"B'10000000'" Reopen PROCLIB data set
		.1..		CIP1CPRC	"B'01000000'" Close all PROCLIB DDs
		..1.		CIP1CRTM	"B'00100000'" CALLRTM requested
		...1		CIP1CRDP	"B'00010000'" CALLRTM w DUMP requested
		.... 1...		CIP1SHTD	"B'00001000'" Shutdown subtask request
		.... .1..		CIP1TERM	"B'00000100'" Subtask has terminated
		.... ..1.		CIP1COMP	"B'00000010'" Subtask completed request
65	(41)	BITSTRING	7		Reserved
Parameters passed into subtask					
72	(48)	SIGNED	4	CIPINPST(0)	Start of input area
72	(48)	SIGNED	4	CIPJQEOF	Offset to JQE to process
76	(4C)	ADDRESS	4	CIPJQEA	JQE address (in CKPT)
80	(50)	SIGNED	4	CIPJBKEY	Job key of job to process
84	(54)	CHARACTER	8	CIPJCLAS	JOBCLASS of the job
92	(5C)	ADDRESS	4	CIPJPAD	PROCLIB PAD address in data space
96	(60)	BITSTRING	1	CIPOFLAG	Option flags
		1...		CIPOINTR	"B'10000000'" Invoke the interpreter after conversion
		.1..		CIPONWAT	"B'01000000'" This is a no wait CNVTR
		..1.		CIPOWEE	"B'00100000'" Wait for Exclusive ENQ

Table 59. Structure CIPARM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		CIPNOCLS	"B'00010000'" PCE did not find JOBCLASS - subtask must cut proper messages
		.... 1...		CIPOPTRC	"B'00001000'" PCE tracing is active
97	(61)	BITSTRING	1		Reserved
98	(62)	SIGNED	2	CIPJASID	ASID copied from PCE
100	(64)	BITSTRING	4		Reserved
100	(64)	X'48'	0	CIPINPCL	"CIPINPST,*-CIPINPST" Input area to clear
		Assigned PROCLIB addresses			
104	(68)	ADDRESS	4	CIPOPAD	PROCLIB PAD subtask has OPEN
108	(6C)	ADDRESS	4	CIPPAD0	PROC00 PAD address in data space
112	(70)	BITSTRING	4		Reserved
		Parameters returned from the subtask			
116	(74)	SIGNED	4	CIPOUTST(0)	Start of output area
116	(74)	SIGNED	4	CIPMNBCP	Minimum MVS level for job
120	(78)	CHARACTER	8	CIPPERF	Performance Group for job from //JOB JCL statement (left justified, blank fill)
128	(80)	CHARACTER	16	CIPSCHE	Scheduling environment for job (left justified, blank fill)
144	(90)	BITSTRING	1	CIPSTAT	Status flags
		1...		CIPSAOPN	"B'10000000'" ACBs successfully 'fake' opened
		.1..		CIPSJLSP	"B'01000000'" Set spin eligible in JQA
		..1.		CIPSINTR	"B'00100000'" Job was interpreted
		Converter processing return codes in CIPJRETN are displayed in text format in message HASP305. New reason code should be added there.			
145	(91)	BITSTRING	1	CIPJRETN	JES processing return code
145	(91)	X'0'	0	CIPJROK	"0" Processing successful
145	(91)	X'4'	0	CIPJRAER	"4" $DOGJQE/$DOGCAT error
145	(91)	X'8'	0	CIPJRIOE	"8" I/O error reading CBs
145	(91)	X'C'	0	CIPJWIOE	"12" I/O error writing CBs
145	(91)	X'10'	0	CIPJROPE	"16" Data set open error
145	(91)	X'14'	0	CIPJEXIT	"20" Exit indicated error
145	(91)	X'18'	0	CIPJABND	"24" Subtask ABEND
145	(91)	X'1C'	0	CIPJBCAN	"28" Job canceled
145	(91)	X'20'	0	CIPJBEGR	"32" Job with same name already exists in job group.
145	(91)	X'24'	0	CIPJBMGR	"36" Valid job group not found (ZOD not found)
145	(91)	X'28'	0	CIPJBNJB	"40" Job not associated with the job group
145	(91)	X'2C'	0	CIPJBJGW	"44" WITH= points to the job in the same job group
146	(92)	BITSTRING	3	CIPFRSN	Fake open failure info

Table 59. Structure CIPARM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
149	(95)	BITSTRING	1	CIPJFLAG	Job flags for communication between PCE and subtask
		1...		CIPJFSY	"B'10000000'" Subtask captured system symbol table
		.1..		CIPJFIN	"B'01000000'" Job has datasets with symbol substitution
		..1.		CIPJFSTB	"B'00100000'" STARTBY specified (see CIPSTBY)
		...1		CIPJFUNT	"B'00010000'" HOLDUNTL specified (see CIPUNTL)
		.... 1...		CIPJFJGR	"B'00001000'" JOBGROUP specified (see CIPJOBGR)
		.... .1..		CIPJFUNU	"B'00000100'" HOLDUNTL time is in UTC (OFF - local time)
		.... ..1.		CIPJFSTU	"B'00000010'" STARTBY time is in UTC (OFF - local time)
		1		CIPJFWTH	"B'00000001'" WITH= specified (see CIPWITH)
150	(96)	BITSTRING	6	CIPUNTL	HOLDUNTL timestamp in ETOD format
156	(9C)	BITSTRING	6	CIPSTBY	STARTBY timestamp in ETOD format
162	(A2)	CHARACTER	8	CIPJOBGR	JOBGROUP job group name.
170	(AA)	CHARACTER	8	CIPWITH	WITH= job name
178	(B2)	BITSTRING	2		Reserved
180	(B4)	SIGNED	4	CIPUNTLI	For HOLDUNTL time in UTC interval in seconds
184	(B8)	DBL WORD	8	CIPPRFST(0)	Performance stats for SUBSPERF
184	(B8)	DBL WORD	8	CIPQTIME	C/I queue time (micro)
192	(C0)	DBL WORD	8	CIPRTIME	C/I run time (micro)
200	(C8)	DBL WORD	8	CIPCTIME	C/I CPU time (micro)
		Converter processing - HASP305 message text substitution options.			
208	(D0)	BITSTRING	1	CIPSUBOP	HASP305 substitution opt
208	(D0)	X'0'	0	CIPSUBNO	"0" None
208	(D0)	X'4'	0	CIPGRPNM	"4" Display JOBGROUP name
208	(D0)	X'74'	0	CIPOUTCL	"CIPOUTST,*-CIPOUTST" Output area to clear
209	(D1)	BITSTRING	7		Reserved
216	(D8)	DBL WORD	8	(0)	Allignment
216	(D8)	X'D8'	0	CIPLEN	"*-CIPARM" Length of work area
216	(D8)	DBL WORD	8	CIPJCTST(0)	Start of JCT area

Table 60. Cross Reference for $CIPARM

Name	Offset	Hex Tag
CIPARM	0	
CIPASID	22	
CIPASSEQ	A	
CIPCCBNX	18	
CIPCCBWR	1C	
CIPCECBA	3C	
CIPCICB	14	

Table 60. Cross Reference for $CIPARM (continued)

Name	Offset	Hex Tag
CIPCIPA	C	
CIPCTIME	C8	
CIPDTEA	24	
CIPFLG1	40	
CIPFRSN	92	
CIPGRPNM	D0	4
CIPID	0	C3C9D7C1
CIPINPCL	64	48
CIPINPST	48	
CIPJABND	91	18
CIPJASID	62	
CIPJBCAN	91	1C
CIPJBEGR	91	20
CIPJBJGW	91	2C
CIPJBKEY	50	
CIPJBMGR	91	24
CIPJBNJB	91	28
CIPJCLAS	54	
CIPJCTST	D8	
CIPJEXIT	91	14
CIPJFIN	95	40
CIPJFJGR	95	8
CIPJFLAG	95	
CIPJFSTB	95	20
CIPJFSTU	95	2
CIPJFSY	95	80
CIPJFUNT	95	10
CIPJFUNU	95	4
CIPJFWTH	95	1
CIPJOBGR	A2	
CIPJPAD	5C	
CIPJQEA	4C	
CIPJQEOF	48	
CIPJRAER	91	4
CIPJRETN	91	
CIPJRIOE	91	8
CIPJROK	91	0
CIPJROPE	91	10
CIPJWIOE	91	C
CIPLEN	D8	D8
CIPMNBCP	74	
CIPNOCLS	60	10
CIPOFLAG	60	
CIPOINTR	60	80
CIPONWAT	60	40
CIPOPAD	68	
CIPOPTRC	60	8
CIPOUTCL	D0	74
CIPOUTST	74	

Table 60. Cross Reference for $CIPARM (continued)

Name	Offset	Hex Tag
CIPOWEE	60	20
CIPPAD0	6C	
CIPPCE	10	
CIPPERF	78	
CIPPRFST	B8	
CIPQTIME	B8	
CIPRTIME	C0	
CIPSAOPN	90	80
CIPSCHE	80	
CIPSEQ	9	
CIPSINTR	90	20
CIPSJLSP	90	40
CIPSTAT	90	
CIPSTBY	9C	
CIPSTSEQ	B	
CIPSUBNO	D0	0
CIPSUBOP	D0	
CIPTTOKN	28	
CIPUNTL	96	
CIPUNTLI	B4	
CIPVER	8	
CIPVERN	8	1
CIPWECBA	38	
CIPWITH	AA	
CIPWREND	20	2
CIPWRFUN	20	
CIPWRSTR	20	1
CIP1COMP	40	2
CIP1CPRC	40	40
CIP1CRDP	40	10
CIP1CRTM	40	20
CIP1REO	40	80
CIP1SHTD	40	8
CIP1TERM	40	4

Chapter 25. $CIRWORK Information

$CIRWORK Programming Interface Information

The following field is **NOT** programming interface information:

- CIRPRMWR

$CIRWORK Heading Information

Common Name:	JES2 Common Initialization Routines PCE Work Area
Macro ID:	$CIRWORK
DSECT Name:	PCE ($CIRWORK is part of the PCE DSECT)
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4
Storage Attributes:	Subpool: The subpool of the HASPIRA module Key: 1 Residency: Virtual storage is below 16M and real storage is anywhere (above or below 16M) in the private storage of the JES2 address space.
Size:	See symbol CIRWLEN for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by:	The initialization base PCE along with this work area is assembled into the HASPIRA module, which is contained in the HASPINIT or HASJES20 load module. The base PCE is defined statically using constants and this work area is generated by coding this macro with a DSECT=NO operand.
Pointed to by:	See $PCE for other pointer fields that apply to all PCE types.
Serialization:	None
Function:	The fields in this work area are used by the JES2 Initialization Processor and by its support routines and exits. $CIRWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $CIRWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEINTID in the second byte of field PCEID. The CIR PCE Work Area is used by the Initialization Routines (IR's) for temporary work areas, routine addresses, and various constants and values. Values required by multiple Initialization Routines are kept there.

$CIRWORK mapping

Table 61. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT

Table 61. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
GENERAL FLAG BYTES AND FIELDS COMMON TO ALL IRS					
320	(140)	BITSTRING	1	CIRFLAG1	GENERAL USAGE FLAG 1
		1...		CIRF1HPI	"B'10000000'" Current IRPL stmt from PARMLIB
		.1..		CIRF1INC	"B'01000000'" Current IRPL stmt INCLUDEd
		..1.		CIRF1CI	"B'00100000'" CURRENT IRPL STMT FROM CONSOLE
		...1		CIRF1XI	"B'00010000'" CURRENT IRPL STMT FROM EXIT 19
		.... 1...		CIRF1PER	"B'00001000'" ERROR(S) IN SOME IRPL STMTS
		.... .1..		CIRF1CAN	"B'00000100'" CANCEL STATEMENT PROCESSED
		.... ..1.		CIRF1SSW	"B'00000010'" SINGLE SYSTEM WARM START
		1		CIRF1SER	"B'00000001'" SCAN PROCESSING DIAG ERROR MSG
321	(141)	BITSTRING	1	CIRFLAG2	GENERAL USAGE FLAG 2
		1...		CIRF2JEX	"B'10000000'" JQE extensions rebuilt
		.1..		CIRF2RRD	"B'01000000'" REREAD NECESSARY FOR PARMLIB
		..1.		CIRF2HPO	"B'00100000'" HASPPARM (FIRST) OPEN DONE
		...1		CIRF2CM	"B'00010000'" IRPL IN CONSOLE MODE
		.... 1...		CIRF2ECM	"B'00001000'" IRPL IN 'ERROR' CONSOLE MODE
		.... .1..		CIRF2SSE	"B'00000100'" IRPL, SUPPRESS INITSTMT ERRORS
		.... ..1.		CIRF2CMA	"B'00000010'" ENDING COMMA ON INIT PARM
		1		CIRF2CMT	"B'00000001'" NON-COMPLETE COMMENT ON INIT PARM
322	(142)	ADDRESS	1	CIRFLAG3	GENERAL USAGE FLAG 3
		1...		CIRF3LST	"B'10000000'" IRPL 'LIST' IN EFFECT
		.1..		CIRF3LOG	"B'01000000'" IRPL 'LOG' IN EFFECT
		..1.		CIRF3MID	"B'00100000'" MSGID NOT SUPPL. IN DIAG TEXT
		...1		CIRF3BDV	"B'00010000'" Bad Verify during patching
		.... 1...		CIRF3IO1	"B'00001000'" I/O error on CKPT1
		.... .1..		CIRF3IO2	"B'00000100'" I/O error on CKPT2
		.... ..1.		CIRF3VE1	"B'00000010'" Validation error on CKPT1
		1		CIRF3VE2	"B'00000001'" Validation error on CKPT2
322	(142)	X'F'	0	CIRF3ERR	"CIRF3IO1+CIRF3IO2+CIRF3VE1+CIRF3VE2" Mask to test for any CKPT errors

Table 61. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
322	(142)	X'C'	0	CIRF3I12	"CIRF3IO1+CIRF3IO2" I/O error on both datasets
322	(142)	X'3'	0	CIRF3V12	"CIRF3VE1+CIRF3VE2" Validation error on both
322	(142)	X'9'	0	CIRF3I1V	"CIRF3IO1+CIRF3VE2" I/O error on CKPT1, val. error on CKPT2
322	(142)	X'6'	0	CIRF3V1I	"CIRF3VE1+CIRF3IO2" Val. error on CKPT1, I/O error on CKPT2
323	(143)	BITSTRING	1	CIRFLAG4	GENERAL USAGE FLAG 4
		1...		CIRF4ILL	"B'10000000'" INIT LMOD LOADED, NOT HASJES20
		.1..		CIRF4XER	"B'01000000'" ERRORS IN EXIT ROUTINE ADDRS
		..1.		CIRF4SCN	"B'00100000'" $STMTLOG CALLED FROM NPLDISP
		...1		CIRF4RES	"B'00010000'" EXIT RTN NOT IN CSA/LPA
		.... 1...		CIRF4RER	"B'00001000'" Error in reader route code
		.... .1..		CIRF4CHM	"B'00000100'" Chain current DCT via MDCTDCT
		.... ..1.		CIRF4CHD	"B'00000010'" Chain Current DCT via DCTDCB
		1		CIRF4RTE	"B'00000001'" Invalid Route code found
324	(144)	ADDRESS	4	CIRCKPVR	CKPT VER-REP requests
328	(148)	DBL WORD	8	CIRREPLY	WTOR REPLY AREA
336	(150)	DBL WORD	8	CIRDWORK	DOUBLE WORD WORK AREA
344	(158)	ADDRESS	4	CIRHCT	ADDR OF THE HCT
348	(15C)	SIGNED	4	CIRECB	ECB FOR GENERAL INIT USAGE
		IROPTS FIELDS REQUIRED THROUGHOUT INITIALIZATION			
352	(160)	ADDRESS	4	CIRWXIT0	"V(HASPXIT0)" HASPXIT0 ADDR IN HASPINIT LMOD
356	(164)	ADDRESS	4	CIREXIT0	HASPXIT0 LOAD MODULE ADDR OR 0
360	(168)	ADDRESS	4	CIROPTPF	ADDR OF THE OS PARM FIELD
364	(16C)	BITSTRING	100	CIROPTS	HASP OPTIONS STRING
		INIT fields for Priority aging and jesplex resource thresholds			
464	(1D0)	ADDRESS	2	CIRJQRAT	Priority aging rate
466	(1D2)	ADDRESS	1	CIRJQHI	Job priority aging upper
467	(1D3)	ADDRESS	1	CIRJQLOW	and lower limits
468	(1D4)	ADDRESS	2	CIRJORAT	Output priority aging rate
470	(1D6)	ADDRESS	2	CIRJOHI	Output priority aging upper
472	(1D8)	ADDRESS	2	CIRJOLOW	and lower limits
474	(1DA)	ADDRESS	2	CIRJQPRC	JQE threshold percentage
476	(1DC)	ADDRESS	2	CIRJOPRC	JOE threshold percentage
478	(1DE)	ADDRESS	2	CIRJNPRC	Job num threshold percent
480	(1E0)	ADDRESS	2	CIRTGPRC	Track grp threshold percent
482	(1E2)	ADDRESS	2	CIRBTPRC	BERT threshold percentage
484	(1E4)	ADDRESS	2	CIRZJPRC	ZJC threshold percentage
		IRPL GENERAL PROCESSING FIELDS			

Table 61. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
488	(1E8)	ADDRESS	4	CIRSTMTW	ADDRESS OF IRPL STMT BUFFER
492	(1EC)	ADDRESS	4	CIRSTMTT	Address of IRPL translated statement buffer
496	(1F0)	SIGNED	4	CIRSYMBP(0)	Symbol service parm list
508	(1FC)	ADDRESS	4		Addr of translated length
520	(208)	ADDRESS	4		Addr of return code
524	(20C)	SIGNED	4	CIRTRANL	Length of translated str.
528	(210)	SIGNED	4	CIRTRANR	RC from translation service
532	(214)	SIGNED	2	CIRSTMTC	CURRENT IRPL STATEMENT COUNT
534	(216)	SIGNED	2	CIRNLLCT	NPLLOG LINE COUNTER (50-1)
536	(218)	SIGNED	2	CIRNLPCT	NPLLOG CURRENT PAGE NUMBER
538	(21A)	BITSTRING	1	CIRIRPL1	Flag used in IRPL
		1...		CIRP1AST	"B'10000000'" Asterisk is last char on a line within a comment
539	(21B)	BITSTRING	1		Reserved for future use
540	(21C)	SIGNED	4	CIRSDLCT	$SCAN DISPLAY LINE COUNT
544	(220)	ADDRESS	4	CIRX0XRT	ADDR OF XRT FOR EXIT 0
548	(224)	SIGNED	1	CIRX0#RT	# of exit 0 routines
549	(225)	ADDRESS	3		RESERVED FOR FUTURE USE
SUBROUTINE ADDRESSES					
552	(228)	ADDRESS	4	CIRNPLLG	"V(NPLLOG)" ADDRESS OF IRPL LOGGING ROUTINE
556	(22C)	ADDRESS	4		RESERVED FOR FUTURE USE
560	(230)	ADDRESS	4		RESERVED For Future Use
564	(234)	ADDRESS	4	CIRNQMSG	"V(NQUERY)" ADDRESS FOR QUERY MESSAGE
568	(238)	ADDRESS	4	CIRNDLAY	"V(NDELAY)" Address for NDELAY routine
DCT PROCESSING FIELDS					
572	(23C)	ADDRESS	4	CIRPDCT	PREVIOUS DCT POINTER FOR USE WHEN GENERATING $DCTPOOL DCTS
576	(240)	ADDRESS	4	CIRPDCT2	PREVIOUS DCT POINTER FOR USE WHEN GENERATING $DCTPOL2 DCTS
NDELAY processing fields STIMERM SET,MF=L List form to set timer MACDATE = 08/19/88					
580	(244)	BITSTRING	24	CIRSTIMS	REMOTE STIMERM SET PARM LIST
580	(244)	X'18'	0	CIRSTMSL	"*-CIRSTIMS" Length of parm list
STIMERM CANCEL,MF=L List form to cancel timer MACDATE = 08/19/88					
604	(25C)	BITSTRING	16	CIRSTIMC	REMOTE STIMERM TEST/CANCEL PARM LIST
604	(25C)	X'10'	0	CIRSTMCL	"*-CIRSTIMC" Length of parm list
620	(26C)	SIGNED	4	CIRNDCHN	Chain of NDELAY elements
620	(26C)	X'0'	0	CIRNDEYE	"0,4,C'C'" Eyecatcher
620	(26C)	X'4'	0	CIRNDNXT	"4,4,C'A'" Addr of next element
620	(26C)	X'8'	0	CIRNDSTI	"8,4,C'F'" STIMERM ID=id-area
620	(26C)	X'C'	0	CIRNDMSG	"12,4,C'A'" Addr of message text
620	(26C)	X'10'	0	CIRNDDOM	"16,4,C'F'" NDELAY DOM id
620	(26C)	X'14'	0	CIRNDLEN	"20" NDELAY element length

Table 61. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
624	(270)	DBL WORD	8		Reserved for future use
	MISCELLANEOUS FIELDS				
632	(278)	DBL WORD	8	CIRCMTSV	HOLD THE ADDR AND LEN OF STMT CUR- RENTLY RUNNING IN COMMENT-SCAN
640	(280)	SIGNED	2		Reserved for future use
642	(282)	BITSTRING	1	CIRFLAG5	General usage flag 5
		1...		CIR5IRDD	"B'10000000'" IRDA has completed
		..1.		CIR5DSEQ	"B'00100000'" Parmlib Dataset is Seq.
		...1		CIR5HPRM	"B'00010000'" HASPPARM specified
		.1..		CIR5QWIK	"B'01000000'" Jobqueue or JOT rebuilt
		.... 1...		CIR5DMEM	"B'00001000'" Default member specified
		.... .1..		CIR5LPRM	"B'00000100'" Logical Parmlib at EOF
		.... ..1.		CIR5BRTE	"B'00000010'" BERT errors detected
		1		CIR5RRTE	"B'00000001'" Error building RRT
643	(283)	BITSTRING	1	CIRFLAG6	General usage flag 6
		1...		CIR6DERR	"B'10000000'" Device build error
		.1..		CIR6CLSE	"B'01000000'" Default job class error
		..1.		CIR6SKZL	"B'00100000'" Do not issue z/OS level WTOR when mismatch
644	(284)	ADDRESS	4	CIRJBMIN	MINIMUM LOCAL JOB NUMBER
648	(288)	ADDRESS	4	CIRJBMAX	MAXIMUM LOCAL JOB NUMBER
648	(288)	X'3C'	0	CIRXEMN	"WPLHTXT-WPL+47,2" EXIT NUMBER IN INIT MSG864
648	(288)	X'48'	0	CIRXEMNM	"WPLHTXT-WPL+59,8" EXIT ROUTINE NAME IN MSG864
648	(288)	X'39'	0	CIRGEMR	"WPLHTXT-WPL+44,10" GETMAIN ERROR MSG REASON
648	(288)	X'3D'	0	CIRINFMR	"WPLTXT-WPL+9+48,45" Reason text in MSG HASP448
652	(28C)	ADDRESS	4	CIRACCTJ	ADDR OF JES2-TO-NET NETACCT ELEMENTS
656	(290)	ADDRESS	4	CIRACCTN	ADDR OF NET-TO-JES2 NETACCT ELEMENTS
660	(294)	BITSTRING	6	CIRTGEDM	NUM TRACK GROUP EDIT MASK
	The TSUCLASS, STCCLASS and JOBCLASS defaults are mapped by the Converter parameter list, IEFCNPRM. The following data definitions must be updated if the corresponding data definition in the converter parameter list is changed.				
666	(29A)	CHARACTER	24	CIRROPSL	TSUCLASS DEFAULTS
690	(2B2)	CHARACTER	24	CIRROPST	STCCLASS DEFAULTS
714	(2CA)	CHARACTER	24	CIRROPSU	JOBCLASS DEFAULTS
738	(2E2)	SIGNED	2		RESERVED FOR FUTURE USE
740	(2E4)	ADDRESS	4	CIRVOLTB	ADDR OF VOLUME ALLOCATION TABLE
744	(2E8)	ADDRESS	4	CIRCMDTB	ADDR OF 1ST TEMP COMMAND AREA
748	(2EC)	ADDRESS	4	CIRTSTOR	ADDR OF TEMPORARY STORAGE

Table 61. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
752	(2F0)	ADDRESS	4	CIRTDCTS	ADDR OF PERMANENT DCT STORAGE
756	(2F4)	SIGNED	4	CIRBSCLC	COUNT OF UNIT=nnn LINES
760	(2F8)	SIGNED	4	CIRSNALC	COUNT OF UNIT=SNA LINES
764	(2FC)	SIGNED	4	CIRTCPLC	COUNT OF UNIT=TCP LINES
768	(300)	ADDRESS	4	CIRZIP	ZAPJOB ZIP chain
772	(304)	ADDRESS	4	CIRBTGFA	ADDR OF FIRST BTG TABLE ENTRY
776	(308)	ADDRESS	4	CIRBTGLA	ADDR OF LAST BTG TABLE ENTRY
780	(30C)	BITSTRING	0	CIRSPT(0)	SMF IDs for CPU 1-32
908	(38C)	SIGNED	4	CIRX0PS(0)	PARAMETER LIST FOR EXIT 0
908	(38C)	ADDRESS	4	CIROPTA	ADDR OF OPTIONS (OS OR WTOR)
912	(390)	ADDRESS	4	CIROPTL	LENGTH OF OPTIONS (OS OR WTOR)
916	(394)	ADDRESS	4	CIRDOMID	$$WTO DOM ID
920	(398)	ADDRESS	4	CIRCNECT	WTO CONNECT message number
924	(39C)	CHARACTER	8	CIRIQNAM	ENQ queue/resource name,
932	(3A4)	CHARACTER	8	CIRIRNAM	used for most of init time
940	(3AC)	ADDRESS	2		Reserved for future use
942	(3AE)	SIGNED	2	CIRLNENM	Number of lines with dedicated sub-devices
944	(3B0)	SIGNED	4	CIRNUMJT	Total number of NJTs
948	(3B4)	SIGNED	4	CIRNUMJR	Total number of NJRs
952	(3B8)	SIGNED	4	CIRNUMST	Total number of NSTs
956	(3BC)	SIGNED	4	CIRNUMSR	Total number of NSRs
960	(3C0)	SIGNED	4	CIRN3800	Number of 3800 printers
964	(3C4)	SIGNED	4	CIRNFSSP	Number of printers in FSS mode
968	(3C8)	SIGNED	4	CIRNTCLF	Number of FSS printer with TRKCELL=YES
972	(3CC)	SIGNED	4	CIRNTCLP	Number of printer with TRKCELL=YES
976	(3D0)	SIGNED	4	CIRBLDM(0)	Control block ID
980	(3D4)	BITSTRING	4		Console ID
984	(3D8)	ADDRESS	4		Address of the CART
988	(3DC)	ADDRESS	4		Pointer for JOBID
992	(3E0)	ADDRESS	4		Control block address
996	(3E4)	ADDRESS	4		Display routine address
1000	(3E8)	ADDRESS	4	(6)	6 word work area
1024	(400)	ADDRESS	4		Caller's R11 value
1028	(404)	BITSTRING	2		ROUT code for Message
1030	(406)	BITSTRING	2		Not used
1032	(408)	CHARACTER	4		Message ID
1036	(40C)	CHARACTER	1		Separator character
1037	(40D)	ADDRESS	1		Flag byte 1
1038	(40E)	ADDRESS	1		'DISPER'
1039	(40F)	ADDRESS	1		Flag byte 2
1040	(410)	ADDRESS	1		Flag byte 3
1041	(411)	CHARACTER	8		Symbolic name of dest.
1049	(419)	BITSTRING	15		Not used
1064	(428)	ADDRESS	4	(0)	Ensure multiple of 4
1064	(428)	ADDRESS	2	(0)	
1064	(428)	CHARACTER	300	CIRMWORK	Message building work area
1368	(558)	DBL WORD	8	(0)	Ensure double alignment
		General work area for short-term usage by IRs			

Table 61. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1368	(558)	BITSTRING	1	CIRGWORK	General work area
First mapping of CIRGWORK used by IROPTS					
1368	(558)	BITSTRING	2	CIRSCMLN	Scan message length
1370	(55A)	CHARACTER	80	CIRSCMSG	Scan message text
1450	(5AA)	BITSTRING	2		Reserved
1452	(5AC)	SIGNED	4	CIRRUB(0)	HASP.$EXIT0 parameters
1452	(5AC)	BITSTRING	2		Regs to set (0,1,11,13)
1454	(5AE)	BITSTRING	2		Unused, must be 0
1456	(5B0)	SIGNED	4	CIRRUBR0	R0 on entry to HASP.$EXIT0
1460	(5B4)	SIGNED	4	CIRRUBR1	R1 on entry to HASP.$EXIT0
1464	(5B8)	SIGNED	4	CIRRUBRB	R11 on entry to HASP.$EXIT0
1468	(5BC)	SIGNED	4	CIRRUBRD	R13 on entry to HASP.$EXIT0
1472	(5C0)	DBL WORD	8	CIRNXTOK	NEXTTOKEN value
1480	(5C8)	CHARACTER	8	CIRX0RNM	Name of last routine
1488	(5D0)	BITSTRING	32	CIRCSRET	Return parameters, enough for one routine.
1520	(5F0)	ADDRESS	4	CIRANSA	Address of CSVDYNEX LIST answer area
1524	(5F4)	SIGNED	4	CIRANSAL	Length of answer area MACDATE -02/23/15-<1>
0	(0)	X'5F8'	0	M00M1092	"CIREXDYN" ++ CSVDYNEX NAME
1528	(5F8)	DBL WORD	8	CIREXDYN(0)	++ CSVDYNEX PARM LIST
1528	(5F8)	BITSTRING	1	CIREXDYN_XVERSION	++ INPUT XVERSION
1529	(5F9)	BITSTRING	1	CIREXDYN_XREQUEST	++ XREQUEST
1529	(5F9)	X'0'	0	CIREXDYN_XREQUEST_DEFINE	"0" ++ XREQUEST.DEFINE KEYWORD
1529	(5F9)	X'1'	0	CIREXDYN_XREQUEST_ADD	"1" ++ XREQUEST.ADD KEYWORD
1529	(5F9)	X'2'	0	CIREXDYN_XREQUEST_MODIFY	"2" ++ XREQUEST.MODIFY KEYWORD
1529	(5F9)	X'3'	0	CIREXDYN_XREQUEST_DELETE	"3" ++ XREQUEST.DELETE KEYWORD
1529	(5F9)	X'4'	0	CIREXDYN_XREQUEST_UNDEFINE	"4" ++ XREQUEST.UNDEFINE KEYWORD
1529	(5F9)	X'5'	0	CIREXDYN_XREQUEST_ATTRIB	"5" ++ XREQUEST.ATTRIB KEYWORD
1529	(5F9)	X'6'	0	CIREXDYN_XREQUEST_LIST	"6" ++ XREQUEST.LIST KEYWORD
1529	(5F9)	X'7'	0	CIREXDYN_XREQUEST_CALL	"7" ++ XREQUEST.CALL KEYWORD
1529	(5F9)	X'8'	0	CIREXDYN_XREQUEST_RECOVER	"8" ++ XREQUEST.RECOVER KEYWORD
1529	(5F9)	X'9'	0	CIREXDYN_XREQUEST_PROCESSDP	"9" ++ XREQUEST.PROCESSDP KEYWORD
1529	(5F9)	X'A'	0	CIREXDYN_XREQUEST_ACTIVATE	"10" ++ XREQUEST.ACTIVATE KEYWORD
1529	(5F9)	X'B'	0	CIREXDYN_XREQUEST_QUERY	"11" ++ XREQUEST.QUERY KEYWORD
1529	(5F9)	X'C'	0	CIREXDYN_XREQUEST_REPLACE	"12" ++ XREQUEST.REPLACE KEYWORD
1530	(5FA)	BITSTRING	1	CIREXDYN_XFLAGS	++ FIELD_LABEL
		1...		CIREXDYN_KEYUSED_CALLSTOPRC	"B'10000000'" ++ KEYUSED.CALLSTOPRC KEYWORD
		.1..		CIREXDYN_KEYUSED_RCFROM	"B'01000000'" ++ KEYUSED.RCFROM KEYWORD
		..1.		CIREXDYN_KEYUSED_KEEPRC	"B'00100000'" ++ KEYUSED.KEEPRC KEYWORD
		...1		CIREXDYN_XFASTPATH_YES	"B'00010000'" ++ XFASTPATH.YES KEYWORD
		.... 1...		CIREXDYN_XREENTRANT_REQ	"B'00001000'" ++ XREENTRANT.REQ KEYWORD

Table 61. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		CIREXDYN_XMESSAGE_ERROR	"B'00000100'" ++ XMESSAGE.ERROR KEYWORD
		.... ..1.		CIREXDYN_XSTATE_ACTIVE	"B'00000010'" ++ XSTATE.ACTIVE KEYWORD
		1		CIREXDYN_XSTATE_INACTIVE	"B'00000001'" ++ XSTATE.INACTIVE KEYWORD
1531	(5FB)	BITSTRING	1	CIREXDYN_XAMODE	++ XAMODE
1531	(5FB)	X'0'	0	CIREXDYN_XAMODE_31	"0" ++ XAMODE.31 KEYWORD
1531	(5FB)	X'1'	0	CIREXDYN_XAMODE_24	"1" ++ XAMODE.24 KEYWORD
1531	(5FB)	X'2'	0	CIREXDYN_XAMODE_DEFINED	"2" ++ XAMODE.DEFINED KEYWORD
1532	(5FC)	SIGNED	4	CIREXDYN_XKEY	++
1536	(600)	BITSTRING	1	CIREXDYN_XFLAGS2	++ FIELD_LABEL
		1...		CIREXDYN_XONEMODULE_YES	"B'10000000'" ++ XONEMODULE.YES KEYWORD
		.1..		CIREXDYN_XFORCE_YES	"B'01000000'" ++ XFORCE.YES KEYWORD
		..1.		CIREXDYN_XPERSIST_ADDRESSSPACE	"B'00100000'" ++ XPERSIST.ADDRESSSPACE KEYWORD
		...1		CIREXDYN_XPERSIST_IPL	"B'00010000'" ++ XPERSIST.IPL KEYWORD
		.... 1...		CIREXDYN_XANYKEY_YES	"B'00001000'" ++ XANYKEY.YES KEYWORD
		.... .1..		CIREXDYN_XABENDCONSEC_YES	"B'00000100'" ++ XABENDCONSEC.YES KEYWORD
		.... ..1.		CIREXDYN_XLINKSTACKOK_NO	"B'00000010'" ++ XLINKSTACKOK.NO KEYWORD
		1		CIREXDYN_KEYUSED_STOKEN	"B'00000001'" ++ KEYUSED.STOKEN KEYWORD
1537	(601)	BITSTRING	1	CIREXDYN_XFLAGS3	++ FIELD_LABEL
		1...		CIREXDYN_XRETINFO_HIGHEST	"B'10000000'" ++ XRETINFO.HIGHEST KEYWORD
		.1..		CIREXDYN_XRETINFO_LOWEST	"B'01000000'" ++ XRETINFO.LOWEST KEYWORD
		..1.		CIREXDYN_XRETINFO_ALL	"B'00100000'" ++ XRETINFO.ALL KEYWORD
		...1		CIREXDYN_XRETINFO_LAST	"B'00010000'" ++ XRETINFO.LAST KEYWORD
		.... 1...		CIREXDYN_XQTYPE_ADD	"B'00001000'" ++ XQTYPE.ADD KEYWORD
		.... .1..		CIREXDYN_XLOCAL_YES	"B'00000100'" ++ XLOCAL.YES KEYWORD
		.... ..1.		CIREXDYN_XPERSIST_JOBSTEPTASK	"B'00000010'" ++ XPERSIST.JOBSTEPTASK KEYWORD
		1		CIREXDYN_XWILDCARDSTAR_NO	"B'00000001'" ++ XWILDCARDSTAR.NO KEYWORD
1538	(602)	BITSTRING	1	CIREXDYN_XPOS	++ XPOS
1538	(602)	X'0'	0	CIREXDYN_XPOS_SYSTEM	"0" ++ XPOS.SYSTEM KEYWORD
1538	(602)	X'1'	0	CIREXDYN_XPOS_LAST	"1" ++ XPOS.LAST KEYWORD
1538	(602)	X'2'	0	CIREXDYN_XPOS_FIRST	"2" ++ XPOS.FIRST KEYWORD
1539	(603)	BITSTRING	1	CIREXDYN_XEXAAVER	++ XEXAAVER
1539	(603)	X'0'	0	CIREXDYN_XEXAAVER_0	"0" ++ XEXAAVER.0 KEYWORD
1539	(603)	X'1'	0	CIREXDYN_XEXAAVER_1	"1" ++ XEXAAVER.1 KEYWORD

Table 61. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1539	(603)	X'2'	0	CIREXDYN_XEXAAVER_2	"2" ++ XEXAAVER.2 KEYWORD
1539	(603)	X'3'	0	CIREXDYN_XEXAAVER_3	"3" ++ XEXAAVER.3 KEYWORD
1540	(604)	CHARACTER	4	CIREXDYN_XRSV0002	++ RESERVED
1544	(608)	CHARACTER	16	CIREXDYN_XEXITNAME	++
1560	(618)	CHARACTER	8	CIREXDYN_XMODNAME	++
1568	(620)	ADDRESS	4	CIREXDYN_XCMDINFO_ADDR	++ ADDR
1572	(624)	SIGNED	4	CIREXDYN_XABENDNUM	++
1576	(628)	SIGNED	4	CIREXDYN_XRCTO	++
1580	(62C)	SIGNED	4	CIREXDYN_XRCFROM	++
1584	(630)	SIGNED	4	CIREXDYN_XKEEPRC	++
1588	(634)	BITSTRING	1	CIREXDYN_XKEEPRCCOMP	++ XKEEPRCCOMP
1588	(634)	X'0'	0	CIREXDYN_XKEEPRCCOMP_EQ	"0" ++ XKEEPRCCOMP.EQ KEYWORD
1588	(634)	X'1'	0	CIREXDYN_XKEEPRCCOMP_NE	"1" ++ XKEEPRCCOMP.NE KEYWORD
1588	(634)	X'2'	0	CIREXDYN_XKEEPRCCOMP_GT	"2" ++ XKEEPRCCOMP.GT KEYWORD
1588	(634)	X'3'	0	CIREXDYN_XKEEPRCCOMP_LT	"3" ++ XKEEPRCCOMP.LT KEYWORD
1588	(634)	X'4'	0	CIREXDYN_XKEEPRCCOMP_GE	"4" ++ XKEEPRCCOMP.GE KEYWORD
1588	(634)	X'5'	0	CIREXDYN_XKEEPRCCOMP_LE	"5" ++ XKEEPRCCOMP.LE KEYWORD
1589	(635)	BITSTRING	1	CIREXDYN_XRCCOMPARE	++ XRCCOMPARE
1589	(635)	X'0'	0	CIREXDYN_XRCCOMPARE_EQ	"0" ++ XRCCOMPARE.EQ KEYWORD
1589	(635)	X'1'	0	CIREXDYN_XRCCOMPARE_NE	"1" ++ XRCCOMPARE.NE KEYWORD
1589	(635)	X'2'	0	CIREXDYN_XRCCOMPARE_GT	"2" ++ XRCCOMPARE.GT KEYWORD
1589	(635)	X'3'	0	CIREXDYN_XRCCOMPARE_LT	"3" ++ XRCCOMPARE.LT KEYWORD
1589	(635)	X'4'	0	CIREXDYN_XRCCOMPARE_GE	"4" ++ XRCCOMPARE.GE KEYWORD
1589	(635)	X'5'	0	CIREXDYN_XRCCOMPARE_LE	"5" ++ XRCCOMPARE.LE KEYWORD
1590	(636)	BITSTRING	1	CIREXDYN_XFLAGS4	++ FIELD_LABEL
		1...		CIREXDYN_KEYUSED_PRECALLADDR	"B'10000000'" ++ KEYUSED.PRECALLADDR KEYWORD
		.1..		CIREXDYN_XEXITTYPE_INSTALLATION	"B'01000000'" ++ XEXITTYPE.INSTALLATION KEYWORD
		..1.		CIREXDYN_XEXITTYPE_PROGRAM	"B'00100000'" ++ XEXITTYPE.PROGRAM KEYWORD
		...1		CIREXDYN_XEXITTYPE_NOTPROGRAM	"B'00010000'" ++ XEXITTYPE.NOTPROGRAM KEYWORD
		.... 1...		CIREXDYN_XMESSAGE_FOUNDBUTERROR	"B'00001000'" ++ XMESSAGE.FOUNDBUTERROR KEYWORD
		.... .1..		CIREXDYN_XADDRSPACE_ANY	"B'00000100'" ++ XADDRSPACE.ANY KEYWORD
		.... ..1.		CIREXDYN_KEYUSED_SERVICEID	"B'00000010'" ++ KEYUSED.SERVICEID KEYWORD
		1		CIREXDYN_XLOADAPF_YES	"B'00000001'" ++ XLOADAPF.YES KEYWORD
1591	(637)	BITSTRING	1	CIREXDYN_XEXRETVER	++ XEXRETVER
1591	(637)	X'0'	0	CIREXDYN_XEXRETVER_0	"0" ++ XEXRETVER.0 KEYWORD
1591	(637)	X'1'	0	CIREXDYN_XEXRETVER_1	"1" ++ XEXRETVER.1 KEYWORD
1592	(638)	SIGNED	4	CIREXDYN_XCALLSTOPRC	++
1596	(63C)	CHARACTER	44	CIREXDYN_XRSVNNNN	++ RESERVED
1596	(63C)	X'668'	0	CIREXDYN_PL_END	"*" ++ END OF BASE PLIST
1536	(600)	BITSTRING	1	CIREXDYN_XFLAGS2DF	++ FIELD_LABEL

Table 61. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		CIREXDYN_XDELETEFORCE_YES	"B'01000000'" ++ XDELETEFORCE.YES KEYWORD
1572	(624)	SIGNED	4	CIREXDYN_XADDABENDNUM	++
1588	(634)	BITSTRING	1	CIREXDYN_XKEEPRCCVAL	++
1589	(635)	BITSTRING	1	CIREXDYN_XRCCVAL	++
1596	(63C)	ADDRESS	4	CIREXDYN_XWORKAREA_ADDR	++ ADDR
1600	(640)	ADDRESS	4	CIREXDYN_XRETAREA_ADDR	++ ADDR
1604	(644)	SIGNED	4	CIREXDYN_XRETAREA_ALET	++ ALET
1608	(648)	SIGNED	4	CIREXDYN_XRETLEN	++
1612	(64C)	ADDRESS	4	CIREXDYN_XRUB_ADDR	++ ADDR
1616	(650)	SIGNED	4	CIREXDYN_XRUB_ALET	++ ALET
1620	(654)	CHARACTER	8	CIREXDYN_XNEXTTOKEN	++
1628	(65C)	ADDRESS	4	CIREXDYN_XSDWA_ADDR	++ ADDR
1632	(660)	ADDRESS	4	CIREXDYN_XPRECALLWA_ADDR	++ ADDR
1596	(63C)	ADDRESS	4	CIREXDYN_XANSAREA_ADDR	++ ADDR
1600	(640)	SIGNED	4	CIREXDYN_XANSAREA_ALET	++ ALET
1604	(644)	SIGNED	4	CIREXDYN_XANSLEN	++
1596	(63C)	ADDRESS	4	CIREXDYN_XPRECALLADDR	++
1596	(63C)	ADDRESS	4	CIREXDYN_XDSNAME_ADDR	++ ADDR
1600	(640)	SIGNED	4	CIREXDYN_XDSNAME_ALET	++ ALET
1604	(644)	CHARACTER	8	CIREXDYN_XJOBNAME	++
1612	(64C)	ADDRESS	4	CIREXDYN_XMODADDR	++
1616	(650)	CHARACTER	8	CIREXDYN_XPARAM	++
1624	(658)	CHARACTER	8	CIREXDYN_XSERVICEMASK	++
1632	(660)	BITSTRING	1	CIREXDYN_XAMRFLAGS	++ FIELD_LABEL
		1...		CIREXDYN_KEYUSED_SERVICEMASK	"B'10000000'" ++ KEYUSED.SERVICEMASK KEYWORD
		.1..		CIREXDYN_XDISABLEDCALL_OK	"B'01000000'" ++ XDISABLEDCALL.OK KEYWORD
1633	(661)	CHARACTER	3	CIREXDYN_XRSV0003	++ RESERVED
1604	(644)	CHARACTER	8	CIREXDYN_XSTOKEN	++
1624	(658)	CHARACTER	8	CIREXDYN_XSERVICEMASKM	++
1632	(660)	BITSTRING	1	CIREXDYN_XAMRFLAGSM	++ FIELD_LABEL
		1...		CIREXDYN_KEYUSED_SERVICEMASKM	"B'10000000'" ++ KEYUSED.SERVICEMASKM KEYWORD
1624	(658)	CHARACTER	8	CIREXDYN_XSERVICEMASKR	++
1632	(660)	BITSTRING	1	CIREXDYN_XAMRFLAGSR	++ FIELD_LABEL
		1...		CIREXDYN_KEYUSED_SERVICEMASKR	"B'10000000'" ++ KEYUSED.SERVICEMASKR KEYWORD
1640	(668)	X'70'	0	CIREXDYNL	"*-CIREXDYN" ++ LENGTH OF PLIST
				CSVDYNEX-1	
1640	(668)	DBL WORD	8	CIRXAREA(0)	CSVDYNEX WORKAREA= area
2152	(868)	SIGNED	4	CIRX0SAV(18)	CSVDYNEX FASTPATH save area
2152	(868)	X'358'	0	CIRGW1LN	"*-CIRGWORK" Length of first mapping
Second mapping of CIRGWORK used by IRPL and IRSETUP					
1368	(558)	BITSTRING	20	CIRS99RB	SVC 99 REQUEST BLOCK
1388	(56C)	SIGNED	4	CIRS99PT(0)	SVC 99 REQUEST BLOCK POINTER

Table 61. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1392	(570)	CHARACTER	121	CIRNLLNE(0)	NPLLOG OUTPUT LINE
1392	(570)	CHARACTER	1	CIRNLLCC	CARRIAGE CONTROL
1393	(571)	CHARACTER	10	CIRNLLSR	STATEMENT/DIAGNOSTIC SOURCE
1406	(57E)	CHARACTER	5	CIRNLLSH	STATEMENT NUMBER TEXT
1411	(583)	CHARACTER	6	CIRNLLSN	STATEMENT NUMBER
1411	(583)	X'1E'	0	CIRNLLL1	"*-CIRNLLSR" LENGTH OF FIRST PART OF LINE
1423	(58F)	CHARACTER	10		BLANKS
1433	(599)	CHARACTER	80	CIRNLLST	STATEMENT (ALL OR PART)
1516	(5EC)	SIGNED	4	CIRX19PS(0)	PARAMETER LIST FOR EXIT 19
1516	(5EC)	ADDRESS	4	CIRSTMTA	IRPL PARM STATEMENT ADDR
1520	(5F0)	ADDRESS	4	CIRSTMTL	IRPL PARM STATEMENT LEN
1524	(5F4)	ADDRESS	4	CIRINSSA	EXIT 19 INSERT STATEMENT ADDR
1528	(5F8)	ADDRESS	4	CIRINSSL	EXIT 19 INSERT STATEMENT LEN
1532	(5FC)	ADDRESS	1	CIRSWARN	$SCAN WARNING MASK
1533	(5FD)	ADDRESS	3		RESERVED FOR FUTURE USE
1536	(600)	ADDRESS	4	CIRPLWRK	IRPL 24 bit work area
1540	(604)	ADDRESS	4	CIRPRDCB	Original PARMLIB DCB
1544	(608)	ADDRESS	4	CIRPRMWR	Alt PARMLIB work areas
1548	(60C)	ADDRESS	4	CIRLPARM	Logical parmlib Readbuf adr
1552	(610)	SIGNED	4	CIRLRCNT	Logical dataset rec counter
	Fields used to save the current PARMLIB data set name.				
1556	(614)	BITSTRING	204	CIRIPRW	Init PRW data area
1760	(6E0)	ADDRESS	4	CIRIDSNE	Current INIDSNE address -1 ind no free slots
1764	(6E4)	ADDRESS	4	CIRCONDS	Console INIDSNE address
	UCBLOOK MF=(L,CIRUCLK) MACDATE -03/18/08-<3>				
0	(0)	X'6E8'	0	M00M1094	"CIRUCLK" ++ UCBLOOK NAME
1768	(6E8)	DBL WORD	8	CIRUCLK(0)	++ UCBLOOK PARM LIST
1768	(6E8)	BITSTRING	1	CIRUCLK_XVERSION	++ INPUT XVERSION
1769	(6E9)	BITSTRING	1	CIRUCLK_XSCHSET	++
1770	(6EA)	BITSTRING	2	CIRUCLK_XDEVN	++
1772	(6EC)	CHARACTER	4	CIRUCLK_XDEVNCHAR	++
1776	(6F0)	CHARACTER	6	CIRUCLK_XVOLSER	++
1782	(6F6)	BITSTRING	1	CIRUCLK_XDEVCLASS	++ XDEVCLASS
1782	(6F6)	X'0'	0	CIRUCLK_XDEVCLASS_DASDTAPE	"0" ++ XDEVCLASS.DASDTAPE KEYWORD
1782	(6F6)	X'1'	0	CIRUCLK_XDEVCLASS_TAPE	"1" ++ XDEVCLASS.TAPE KEYWORD
1782	(6F6)	X'2'	0	CIRUCLK_XDEVCLASS_DASD	"2" ++ XDEVCLASS.DASD KEYWORD
1783	(6F7)	BITSTRING	1	CIRUCLK_XRESERVED2	++ FIELD_LABEL
		1...		CIRUCLK_XNOTFIND_YES	"B'10000000'" ++ XNOTFIND.YES KEYWORD
1784	(6F8)	ADDRESS	4	CIRUCLK_XUCBPTR	++
1788	(6FC)	CHARACTER	5	CIRUCLK_XCOMPID	++
1793	(701)	BITSTRING	1	CIRUCLK_XMASK	++ FIELD_LABEL
		1...		CIRUCLK_XNONBASE_YES	"B'10000000'" ++ XNONBASE.YES KEYWORD
		.1..		CIRUCLK_XDYNAMIC_NO	"B'01000000'" ++ XDYNAMIC.NO KEYWORD

Table 61. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		CIRUCLK_XRANGE_3DIGIT	"B'00100000'" ++ XRANGE.3DIGIT KEYWORD
		...1		CIRUCLK_XLOC_ANY	"B'00010000'" ++ XLOC.ANY KEYWORD
		.... 1...		CIRUCLK_XSPECIAL_YES	"B'00001000'" ++ XSPECIAL.YES KEYWORD
		1		CIRUCLK_XUNBOUND_ALIAS_YES	"B'00000001'" ++ XUNBOUND_ALIAS.YES KEYWORD
1794	(702)	BITSTRING	1	CIRUCLK_XFLAGS	++ FIELD_LABEL
		1...		CIRUCLK_KEYUSED_DEVN	"B'10000000'" ++ KEYUSED.DEVN KEYWORD
		.1..		CIRUCLK_KEYUSED_DEVNCHAR	"B'01000000'" ++ KEYUSED.DEVNCHAR KEYWORD
		..1.		CIRUCLK_KEYUSED_VOLSER	"B'00100000'" ++ KEYUSED.VOLSER KEYWORD
		...1		CIRUCLK_KEYUSED_LASTING	"B'00010000'" ++ KEYUSED.LASTING KEYWORD
		.... 1...		CIRUCLK_KEYUSED_COMPID	"B'00001000'" ++ KEYUSED.COMPID KEYWORD
		.... .1..		CIRUCLK_KEYUSED_HELP	"B'00000100'" ++ KEYUSED.HELP KEYWORD
		.... ..1.		CIRUCLK_KEYUSED_PIN	"B'00000010'" ++ KEYUSED.PIN KEYWORD
		1		CIRUCLK_KEYUSED_PINPATHS	"B'00000001'" ++ KEYUSED.PINPATHS KEYWORD
1795	(703)	BITSTRING	1	CIRUCLK_XFLAGS2	++ FIELD_LABEL
		1...		CIRUCLK_KEYUSED_UCBCXPTR	"B'10000000'" ++ KEYUSED.UCBCXPTR KEYWORD
		.1..		CIRUCLK_KEYUSED_UCBPXPTR	"B'01000000'" ++ KEYUSED.UCBPXPTR KEYWORD
		..1.		CIRUCLK_KEYUSED_LDEVNCHAR	"B'00100000'" ++ KEYUSED.LDEVNCHAR KEYWORD
		...1		CIRUCLK_KEYUSED_SCHSET	"B'00010000'" ++ KEYUSED.SCHSET KEYWORD
1796	(704)	ADDRESS	4	CIRUCLK_XTEXT_ADDR	++ ADDR
1800	(708)	SIGNED	4	CIRUCLK_XTEXT_ALET	++ ALET
1804	(70C)	CHARACTER	8	CIRUCLK_XPTOKEN	++
1812	(714)	CHARACTER	8	CIRUCLK_XHELP	++
1820	(71C)	ADDRESS	4	CIRUCLK_XIOCTOKEN_ADDR	++ ADDR
1824	(720)	SIGNED	4	CIRUCLK_XIOCTOKEN_ALET	++ ALET
1828	(724)	ADDRESS	4	CIRUCLK_XUCBPAREA_ADDR	++ ADDR
1832	(728)	SIGNED	4	CIRUCLK_XUCBPAREA_ALET	++ ALET
1836	(72C)	ADDRESS	4	CIRUCLK_XUCBCXPTR	++
1840	(730)	ADDRESS	4	CIRUCLK_XUCBPXPTR	++
1844	(734)	CHARACTER	5	CIRUCLK_XLDEVNCHAR	++
1849	(739)	CHARACTER	3	CIRUCLK_XRESERVED1	++ FIELD_LABEL
1849	(739)	X'54'	0	CIRUCLKL	"*-CIRUCLK" ++ LENGTH OF PLIST
				UCBLOOK-3	
0	(0)	X'1E4'	0	CIRGW2LN	"*-CIRGWORK" Length of second mapping

Third mapping of CIRGWORK used by IRPOSTPL

Table 61. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1368	(558)	X'0'	0	CIRGW3LN	"*-CIRGWORK" Length of third mapping
	Fourth mapping of CIRGWORK used by IRDA				
1368	(558)	CHARACTER	8	CIRCURRC	$CKVTAB current value for $HASP496 message
1376	(560)	CHARACTER	8	CIRPREVC	$CKVTAB previous value for $HASP496 message
1384	(568)	SIGNED	4	CIRJQENC	$CKVTAB cur number of JQEs
1388	(56C)	SIGNED	4	CIRJQENP	$CKVTAB prev number of JQEs
1392	(570)	ADDRESS	4	CIRSPLF	FIRST SPL IN WORK CHAIN
1396	(574)	ADDRESS	4	CIRSPLL	LAST SPL IN WORK CHAIN
1400	(578)	ADDRESS	4	CIRMSTRS	ADDR OF MSTR REC SAVE AREA
1404	(57C)	ADDRESS	4	CIRTOTA	ADDR OF TEMP TRACK-1 TABLE
1408	(580)	ADDRESS	4	CIRTVECT	Addr of DAS temp vector
1412	(584)	ADDRESS	4	CIRCURDS	CKG ADDRESS OF CURRENT DS
1416	(588)	ADDRESS	4	CIRALTDS	CKG address of other DS
1420	(58C)	ADDRESS	4	CIRLFJQE	Address of last JQE put on free queue ($QREBLD only)
1424	(590)	ADDRESS	4	CIRCTENT	CTENT table used by IRDA
1428	(594)	ADDRESS	4	CIRCTEND	End of CTENT table
1432	(598)	SIGNED	4	CIRCOUNT	LOCK RETRY COUNT
1436	(59C)	SIGNED	2	CIRCLREC	SIZE OF CHLOG FROM INIT
1438	(59E)	BITSTRING	1	CIRIRDA2	IRDA flags 2
	CIRIRDA2 bit definitions				
		1...		CIRCKVWR	"B'10000000'" Init deck error encountered
		.1..		CIRCKVER	"B'01000000'" Only a warning is needed
		..1.		CIRCKVTM	"B'00100000'" Terminating error detected
1439	(59F)	BITSTRING	1		Reserved
	CTRACE PLISTVER=1,MF=L CTRACE parameter list MACDATE -02/23/15-<3>				
0	(0)	X'5A0'	0	M00M1095	"CIRCTLST" ++ CTRACE NAME
1440	(5A0)	DBL WORD	8	CIRCTLST(0)	++ CTRACE PARM LIST
1440	(5A0)	BITSTRING	1	CIRCTLST_XVERSION	++ INPUT XVERSION
1441	(5A1)	CHARACTER	3	CIRCTLST_XRSV0000	++ RESERVED
1444	(5A4)	SIGNED	4	CIRCTLST_XSERVICE	++ XSERVICE
1444	(5A4)	X'1'	0	CIRCTLST_DEFINE	"1" ++ XSERVICE.DEFINE KEYWORD
1444	(5A4)	X'2'	0	CIRCTLST_DELETE	"2" ++ XSERVICE.DELETE KEYWORD
1448	(5A8)	CHARACTER	8	CIRCTLST_XNAME	++
1456	(5B0)	CHARACTER	8	CIRCTLST_XSTARTNAM	++
1464	(5B8)	CHARACTER	8	CIRCTLST_XFMTTAB	++
1472	(5C0)	BITSTRING	1	CIRCTLST_XFLG1	++ FIELD_LABEL
		1...		CIRCTLST_XASIDS_YES	"B'10000000'" ++ XASIDS.YES KEYWORD
		.1..		CIRCTLST_XBUFFER_YES	"B'01000000'" ++ XBUFFER.YES KEYWORD
		..1.		CIRCTLST_XJOBS_YES	"B'00100000'" ++ XJOBS.YES KEYWORD

Table 61. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		CIRCTLST_KEYUSED_MINOPS	"B'00010000'" ++ KEYUSED.MINOPS KEYWORD
		.... 1...		CIRCTLST_XMOD_YES	"B'00001000'" ++ XMOD.YES KEYWORD
		.... .1..		CIRCTLST_XBUFDEFIN_YES	"B'00000100'" ++ XBUFDEFIN.YES KEYWORD
		.... ..1.		CIRCTLST_XWTR_YES	"B'00000010'" ++ XWTR.YES KEYWORD
		1		CIRCTLST_XMNFMSG_NO	"B'00000001'" ++ XMNFMSG.NO KEYWORD
1473	(5C1)	BITSTRING	1	CIRCTLST_XFLG2	++ FIELD_LABEL
		1...		CIRCTLST_XLIKEHEAD_YES	"B'10000000'" ++ XLIKEHEAD.YES KEYWORD
		.1..		CIRCTLST_XHEAD_YES	"B'01000000'" ++ XHEAD.YES KEYWORD
		..1.		CIRCTLST_XHEADOPTS_YES	"B'00100000'" ++ XHEADOPTS.YES KEYWORD
		...1		CIRCTLST_XMANYSUBS_YES	"B'00010000'" ++ XMANYSUBS.YES KEYWORD
		.... 1...		CIRCTLST_XWTRMODE_PAGEABLE	"B'00001000'" ++ XWTRMODE.PAGEABLE KEYWORD
		.... .1..		CIRCTLST_XWTRMODE_DREF	"B'00000100'" ++ XWTRMODE.DREF KEYWORD
		.... ..1.		CIRCTLST_XWTRMODE_FIXED	"B'00000010'" ++ XWTRMODE.FIXED KEYWORD
1474	(5C2)	BITSTRING	1	CIRCTLST_XFLG3	++ FIELD_LABEL
		1...		CIRCTLST_KEYUSED_SUB	"B'10000000'" ++ KEYUSED.SUB KEYWORD
		.1..		CIRCTLST_KEYUSED_PARM	"B'01000000'" ++ KEYUSED.PARM KEYWORD
		..1.		CIRCTLST_KEYUSED_BUFMIN	"B'00100000'" ++ KEYUSED.BUFMIN KEYWORD
		...1		CIRCTLST_KEYUSED_BUFMAX	"B'00010000'" ++ KEYUSED.BUFMAX KEYWORD
		.... 1...		CIRCTLST_KEYUSED_BUFDFLT	"B'00001000'" ++ KEYUSED.BUFDFLT KEYWORD
		.... .1..		CIRCTLST_KEYUSED_SSRC	"B'00000100'" ++ KEYUSED.SSRC KEYWORD
		.... ..1.		CIRCTLST_KEYUSED_SSRSNC	"B'00000010'" ++ KEYUSED.SSRSNC KEYWORD
		1		CIRCTLST_KEYUSED_IFNOSUBS	"B'00000001'" ++ KEYUSED.IFNOSUBS KEYWORD
1475	(5C3)	BITSTRING	1	CIRCTLST_XFLG4	++ FIELD_LABEL
		1...		CIRCTLST_KEYUSED_USERDATA	"B'10000000'" ++ KEYUSED.USERDATA KEYWORD
1476	(5C4)	ADDRESS	4	CIRCTLST_XLNKPARM	++ FIELD_LABEL
1480	(5C8)	ADDRESS	4	CIRCTLST_XMINOPS_ADDR	++ ADDR
1484	(5CC)	BITSTRING	2	CIRCTLST_XMINOPS_LEN	++ FIELD_LABEL
1486	(5CE)	CHARACTER	16	CIRCTLST_XUSERDATA	++
1502	(5DE)	CHARACTER	2	CIRCTLST_XRVS0002	++ FIELD_LABEL
1504	(5E0)	SIGNED	4	CIRCTLST_XBUFMIN	++
1508	(5E4)	SIGNED	4	CIRCTLST_XBUFMAX	++
1512	(5E8)	SIGNED	4	CIRCTLST_XBUFDFLT	++
1516	(5EC)	ADDRESS	4	CIRCTLST_XSUB_ADDR	++ ADDR

Table 61. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1520	(5F0)	BITSTRING	2	CIRCTLST_XSUB_LEN	++ FIELD_LABEL
1522	(5F2)	CHARACTER	2	CIRCTLST_XRVS0003	++ FIELD_LABEL
1524	(5F4)	CHARACTER	8	CIRCTLST_XPARM	++
1532	(5FC)	SIGNED	4	CIRCTLST_XSSRC	++
1536	(600)	SIGNED	4	CIRCTLST_XSSRSNC	++
1536	(600)	X'604'	0	CIRCTLST_PL_END	"*" ++ END OF BASE PLIST
1536	(600)	X'64'	0	CIRCTLSTL	"*-CIRCTLST" ++ LENGTH OF PLIST
				CTRACE-3 IARV64 PLISTVER=MAX,MF=L CTRACE parameter list MACDATE -12/05/14-<5>	
0	(0)	X'608'	0	M00M1096	"CIRIARV" ++ IARV64 NAME
1544	(608)	DBL WORD	8	CIRIARV(0)	++ IARV64 PARM LIST
1544	(608)	BITSTRING	1	CIRIARV_XVERSION	++ INPUT XVERSION
1545	(609)	BITSTRING	1	CIRIARV_XREQUEST	++ XREQUEST
1545	(609)	X'1'	0	CIRIARV_XREQUEST_GETSTOR	"1" ++ XREQUEST.GETSTOR KEYWORD
1545	(609)	X'2'	0	CIRIARV_XREQUEST_GETSHARED	"2" ++ XREQUEST.GETSHARED KEYWORD
1545	(609)	X'3'	0	CIRIARV_XREQUEST_DETACH	"3" ++ XREQUEST.DETACH KEYWORD
1545	(609)	X'4'	0	CIRIARV_XREQUEST_PAGEFIX	"4" ++ XREQUEST.PAGEFIX KEYWORD
1545	(609)	X'5'	0	CIRIARV_XREQUEST_PAGEUNFIX	"5" ++ XREQUEST.PAGEUNFIX KEYWORD
1545	(609)	X'6'	0	CIRIARV_XREQUEST_PAGEOUT	"6" ++ XREQUEST.PAGEOUT KEYWORD
1545	(609)	X'7'	0	CIRIARV_XREQUEST_DISCARDDATA	"7" ++ XREQUEST.DISCARDDATA KEYWORD
1545	(609)	X'8'	0	CIRIARV_XREQUEST_PAGEIN	"8" ++ XREQUEST.PAGEIN KEYWORD
1545	(609)	X'9'	0	CIRIARV_XREQUEST_PROTECT	"9" ++ XREQUEST.PROTECT KEYWORD
1545	(609)	X'A'	0	CIRIARV_XREQUEST_SHAREMEMOBJ	"10" ++ XREQUEST.SHAREMEMOBJ KEYWORD
1545	(609)	X'B'	0	CIRIARV_XREQUEST_CHANGEACCESS	"11" ++ XREQUEST.CHANGEACCESS KEYWORD
1545	(609)	X'C'	0	CIRIARV_XREQUEST_UNPROTECT	"12" ++ XREQUEST.UNPROTECT KEYWORD
1545	(609)	X'D'	0	CIRIARV_XREQUEST_CHANGEGUARD	"13" ++ XREQUEST.CHANGEGUARD KEYWORD
1545	(609)	X'E'	0	CIRIARV_XREQUEST_LIST	"14" ++ XREQUEST.LIST KEYWORD
1545	(609)	X'F'	0	CIRIARV_XREQUEST_GETCOMMON	"15" ++ XREQUEST.GETCOMMON KEYWORD
1545	(609)	X'10'	0	CIRIARV_XREQUEST_COUNTPAGES	"16" ++ XREQUEST.COUNTPAGES KEYWORD
1545	(609)	X'11'	0	CIRIARV_XREQUEST_PCIEFIX	"17" ++ XREQUEST.PCIEFIX KEYWORD
1545	(609)	X'12'	0	CIRIARV_XREQUEST_PCIEUNFIX	"18" ++ XREQUEST.PCIEUNFIX KEYWORD
1546	(60A)	BITSTRING	1	CIRIARV_XFLAGS0	++ FIELD_LABEL
		1...		CIRIARV_XMOTKNSOURCE_SYSTEM	"B'10000000'" ++ XMOTKNSOURCE.SYSTEM KEYWORD
		.1..		CIRIARV_XMOTKNCREATOR_SYSTEM	

Table 61. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"B'01000000'" ++ XMOTKNCREATOR.SYSTEM KEYWORD
		..1.		CIRIARV_XMATCH_MOTOKEN	"B'00100000'" ++ XMATCH.MOTOKEN KEYWORD
1547	(60B)	BITSTRING	1	CIRIARV_XKEY	++
1548	(60C)	BITSTRING	1	CIRIARV_XFLAGS1	++ FIELD_LABEL
		1...		CIRIARV_KEYUSED_KEY	"B'10000000'" ++ KEYUSED.KEY KEYWORD
		.1..		CIRIARV_KEYUSED_USERTKN	"B'01000000'" ++ KEYUSED.USERTKN KEYWORD
		..1.		CIRIARV_KEYUSED_TTOKEN	"B'00100000'" ++ KEYUSED.TTOKEN KEYWORD
		...1		CIRIARV_KEYUSED_CONVERTSTART	"B'00010000'" ++ KEYUSED.CONVERTSTART KEYWORD
		.... 1...		CIRIARV_KEYUSED_GUARDSIZE64	"B'00001000'" ++ KEYUSED.GUARDSIZE64 KEYWORD
		.... .1..		CIRIARV_KEYUSED_CONVERTSIZE64	"B'00000100'" ++ KEYUSED.CONVERTSIZE64 KEYWORD
		.... ..1.		CIRIARV_KEYUSED_MOTKN	"B'00000010'" ++ KEYUSED.MOTKN KEYWORD
		1		CIRIARV_KEYUSED_OWNERJOBNAME	"B'00000001'" ++ KEYUSED.OWNERJOBNAME KEYWORD
1549	(60D)	BITSTRING	1	CIRIARV_XFLAGS2	++ FIELD_LABEL
		1...		CIRIARV_XCOND_YES	"B'10000000'" ++ XCOND.YES KEYWORD
		.1..		CIRIARV_XFPROT_NO	"B'01000000'" ++ XFPROT.NO KEYWORD
		..1.		CIRIARV_XCONTROL_AUTH	"B'00100000'" ++ XCONTROL.AUTH KEYWORD
		...1		CIRIARV_XGUARDLOC_HIGH	"B'00010000'" ++ XGUARDLOC.HIGH KEYWORD
		.... 1...		CIRIARV_XCHANGEACCESS_GLOBAL	"B'00001000'" ++ XCHANGEACCESS.GLOBAL KEYWORD
		.... .1..		CIRIARV_XPAGEFRAMESIZE_1MEG	"B'00000100'" ++ XPAGEFRAMESIZE.1MEG KEYWORD
		.... ..1.		CIRIARV_XPAGEFRAMESIZE_MAX	"B'00000010'" ++ XPAGEFRAMESIZE.MAX KEYWORD
		1		CIRIARV_XPAGEFRAMESIZE_ALL	"B'00000001'" ++ XPAGEFRAMESIZE.ALL KEYWORD
1550	(60E)	BITSTRING	1	CIRIARV_XFLAGS3	++ FIELD_LABEL
		1...		CIRIARV_XMATCH_USERTOKEN	"B'10000000'" ++ XMATCH.USERTOKEN KEYWORD
		.1..		CIRIARV_XAFFINITY_SYSTEM	"B'01000000'" ++ XAFFINITY.SYSTEM KEYWORD
		..1.		CIRIARV_XUSE2GTO32G_YES	"B'00100000'" ++ XUSE2GTO32G.YES KEYWORD
		...1		CIRIARV_XOWNER_NO	"B'00010000'" ++ XOWNER.NO KEYWORD

Table 61. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		CIRIARV_XV64SELECT_NO	"B'00001000'" ++ XV64SELECT.NO KEYWORD
		.... .1..		CIRIARV_XSVCDUMPRGN_NO	"B'00000100'" ++ XSVCDUMPRGN.NO KEYWORD
		.... ..1.		CIRIARV_XV64SHARED_NO	"B'00000010'" ++ XV64SHARED.NO KEYWORD
		1		CIRIARV_XSVCDUMPRGN_ALL	"B'00000001'" ++ XSVCDUMPRGN.ALL KEYWORD
1551	(60F)	BITSTRING	1	CIRIARV_XFLAGS4	++ FIELD_LABEL
		1...		CIRIARV_XLONG_NO	"B'10000000'" ++ XLONG.NO KEYWORD
		.1..		CIRIARV_XCLEAR_NO	"B'01000000'" ++ XCLEAR.NO KEYWORD
		..1.		CIRIARV_XVIEW_READONLY	"B'00100000'" ++ XVIEW.READONLY KEYWORD
		...1		CIRIARV_XVIEW_SHAREDWRITE	"B'00010000'" ++ XVIEW.SHAREDWRITE KEYWORD
		.... 1...		CIRIARV_XVIEW_HIDDEN	"B'00001000'" ++ XVIEW.HIDDEN KEYWORD
		.... .1..		CIRIARV_XCONVERT_TOGUARD	"B'00000100'" ++ XCONVERT.TOGUARD KEYWORD
		.... ..1.		CIRIARV_XCONVERT_FROMGUARD	"B'00000010'" ++ XCONVERT.FROMGUARD KEYWORD
		1		CIRIARV_XKEEPREAL_NO	"B'00000001'" ++ XKEEPREAL.NO KEYWORD
1552	(610)	DBL WORD	8	CIRIARV_XSEGMENTS	++
1560	(618)	CHARACTER	16	CIRIARV_XTTOKEN	++
1576	(628)	DBL WORD	8	CIRIARV_XUSERTKN	++
1584	(630)	ADDRESS	8	CIRIARV_XORIGIN	++
1592	(638)	ADDRESS	8	CIRIARV_XRANGLIST	++
1600	(640)	ADDRESS	8	CIRIARV_XMEMOBJSTART	++
1608	(648)	SIGNED	4	CIRIARV_XGUARDSIZE	++
1612	(64C)	SIGNED	4	CIRIARV_XCONVERTSIZE	++
1616	(650)	SIGNED	4	CIRIARV_XALETVALUE	++
1620	(654)	SIGNED	4	CIRIARV_XNUMRANGE	++
1624	(658)	ADDRESS	4	CIRIARV_XV64LISTPTR	++
1628	(65C)	SIGNED	4	CIRIARV_XV64LISTLENGTH	++
1632	(660)	DBL WORD	8	CIRIARV_XCONVERTSTART	++
1640	(668)	DBL WORD	8	CIRIARV_XCONVERTSIZE64	++
1648	(670)	DBL WORD	8	CIRIARV_XGUARDSIZE64	++
1656	(678)	CHARACTER	8	CIRIARV_XUSERTOKEN	++
1664	(680)	BITSTRING	1	CIRIARV_XDUMPPRIORITY	++
1665	(681)	BITSTRING	1	CIRIARV_XFLAGS5	++ FIELD_LABEL
		1...		CIRIARV_XDUMPPROTOCOL_YES	"B'10000000'" ++ XDUMPPROTOCOL.YES KEYWORD
		.1..		CIRIARV_XORDER_DUMPPRIORITY	"B'01000000'" ++ XORDER.DUMPPRIORITY KEYWORD
		..1.		CIRIARV_XTYPE_PAGEABLE	"B'00100000'" ++ XTYPE.PAGEABLE KEYWORD
		...1		CIRIARV_XTYPE_DREF	"B'00010000'" ++ XTYPE.DREF KEYWORD

Table 61. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		CIRIARV_XOWNERCOM_HOME	"B'00001000'" ++ XOWNERCOM.HOME KEYWORD
		.... .1..		CIRIARV_XOWNERCOM_PRIMARY	"B'00000100'" ++ XOWNERCOM.PRIMARY KEYWORD
		.... ..1.		CIRIARV_XOWNERCOM_SYSTEM	"B'00000010'" ++ XOWNERCOM.SYSTEM KEYWORD
		1		CIRIARV_XOWNERCOM_BYASID	"B'00000001'" ++ XOWNERCOM.BYASID KEYWORD
1666	(682)	BITSTRING	1	CIRIARV_XFLAGS6	++ FIELD_LABEL
		1...		CIRIARV_XV64COMMON_NO	"B'10000000'" ++ XV64COMMON.NO KEYWORD
		.1..		CIRIARV_XMEMLIMIT_NO	"B'01000000'" ++ XMEMLIMIT.NO KEYWORD
		..1.		CIRIARV_XDETACHFIXED_YES	"B'00100000'" ++ XDETACHFIXED.YES KEYWORD
		...1		CIRIARV_XDOAUTHCHECKS_YES	"B'00010000'" ++ XDOAUTHCHECKS.YES KEYWORD
		.... 1...		CIRIARV_XLOCALSYSAREA_YES	"B'00001000'" ++ XLOCALSYSAREA.YES KEYWORD
		.... .1..		CIRIARV_XAMOUNTSIZE_4K	"B'00000100'" ++ XAMOUNTSIZE.4K KEYWORD
		.... ..1.		CIRIARV_XAMOUNTSIZE_1MEG	"B'00000010'" ++ XAMOUNTSIZE.1MEG KEYWORD
		1		CIRIARV_XMEMLIMIT_COND	"B'00000001'" ++ XMEMLIMIT.COND KEYWORD
1667	(683)	BITSTRING	1	CIRIARV_XFLAGS7	++ FIELD_LABEL
		1...		CIRIARV_KEYUSED_DUMP	"B'10000000'" ++ KEYUSED.DUMP KEYWORD
		.1..		CIRIARV_KEYUSED_OPTIONVALUE	"B'01000000'" ++ KEYUSED.OPTIONVALUE KEYWORD
		..1.		CIRIARV_KEYUSED_SVCDUMPRGN	"B'00100000'" ++ KEYUSED.SVCDUMPRGN KEYWORD
		...1		CIRIARV_XATTRIBUTE_DEFS	"B'00010000'" ++ XATTRIBUTE.DEFS KEYWORD
		.... 1...		CIRIARV_XATTRIBUTE_OWNERGONE	"B'00001000'" ++ XATTRIBUTE.OWNERGONE KEYWORD
		.... .1..		CIRIARV_XATTRIBUTE_NOTOWNERGONE	"B'00000100'" ++ XATTRIBUTE.NOTOWNERGONE KEYWORD
		.... ..1.		CIRIARV_XTRACKINFO_YES	"B'00000010'" ++ XTRACKINFO.YES KEYWORD
		1		CIRIARV_XUNLOCKED_YES	"B'00000001'" ++ XUNLOCKED.YES KEYWORD
1668	(684)	BITSTRING	1	CIRIARV_XDUMP	++ XDUMP
1668	(684)	X'0'	0	CIRIARV_XDUMP_NONE	"0" ++ XDUMP.NONE KEYWORD
1668	(684)	X'1'	0	CIRIARV_XDUMP_NO	"1" ++ XDUMP.NO KEYWORD
1668	(684)	X'2'	0	CIRIARV_XDUMP_LIKESQA	"2" ++ XDUMP.LIKESQA KEYWORD
1668	(684)	X'3'	0	CIRIARV_XDUMP_LIKECSA	"3" ++ XDUMP.LIKECSA KEYWORD
1668	(684)	X'20'	0	CIRIARV_XDUMP_LIKERGN	"32" ++ XDUMP.LIKERGN KEYWORD
1668	(684)	X'21'	0	CIRIARV_XDUMP_LIKELSQA	"33" ++ XDUMP.LIKELSQA KEYWORD
1668	(684)	X'FF'	0	CIRIARV_XDUMP_ALL	"255" ++ XDUMP.ALL KEYWORD
1669	(685)	BITSTRING	1	CIRIARV_XFLAGS8	++ FIELD_LABEL

Table 61. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		CIRIARV_XPAGEFRAMESIZE_PAGEABLE1MEG	"B'10000000'" ++ XPAGEFRAMESIZE.PAGEABLE1MEG KEYWOR
		.1..		CIRIARV_XPAGEFRAMESIZE_DREF1MEG	"B'01000000'" ++ XPAGEFRAMESIZE.DREF1MEG KEYWORD
1670	(686)	BITSTRING	2	CIRIARV_XOWNERASID	++
1672	(688)	BITSTRING	1	CIRIARV_XOPTIONVALUE	++
1673	(689)	CHARACTER	8	CIRIARV_XRSV0001	++ RESERVED
1681	(691)	CHARACTER	8	CIRIARV_XOWNERJOBNAME	++
1689	(699)	CHARACTER	7	CIRIARV_XRSV0004	++ RESERVED
1696	(6A0)	ADDRESS	8	CIRIARV_XDMAPAGETABLE	++
1704	(6A8)	DBL WORD	8	CIRIARV_XUNITS	++
1712	(6B0)	BITSTRING	1	CIRIARV_XFLAGS9	++ FIELD_LABEL
		1...		CIRIARV_KEYUSED_UNITS	"B'10000000'" ++ KEYUSED.UNITS KEYWORD
		.1..		CIRIARV_XUNITSIZE_1M	"B'01000000'" ++ XUNITSIZE.1M KEYWORD
		..1.		CIRIARV_XUNITSIZE_2G	"B'00100000'" ++ XUNITSIZE.2G KEYWORD
		...1		CIRIARV_XPAGEFRAMESIZE_1M	"B'00010000'" ++ XPAGEFRAMESIZE.1M KEYWORD
		.... 1...		CIRIARV_XPAGEFRAMESIZE_2G	"B'00001000'" ++ XPAGEFRAMESIZE.2G KEYWORD
		.... .1..		CIRIARV_XTYPE_FIXED	"B'00000100'" ++ XTYPE.FIXED KEYWORD
1713	(6B1)	CHARACTER	7	CIRIARV_XRSV0005	++ RESERVED
1713	(6B1)	X'6B8'	0	CIRIARV_PL_END	"*" ++ END OF BASE PLIST
1576	(628)	DBL WORD	8	CIRIARV_XOUTMOTKN	++
1576	(628)	DBL WORD	8	CIRIARV_XMOTKN	++
1720	(6B8)	X'B0'	0	CIRIARVL	"*-CIRIARV" ++ LENGTH OF PLIST
				IARV64-5	
1720	(6B8)	DBL WORD	8	(0)	Force work alignment
1720	(6B8)	BITSTRING	16	CIRCTUSR(0)	CTRACE userdata
1720	(6B8)	ADDRESS	8	CIRCTBUF	Addr of data area
1728	(6C0)	ADDRESS	4	CIRCTBLN	Length of data area
1732	(6C4)	SIGNED	2	CIRCTASI	Address space id of data
1734	(6C6)	BITSTRING	2		Reserved
1736	(6C8)	CHARACTER	8	CIRCTNAM	CTRACE component name
1744	(6D0)	BITSTRING	1	CIRJOTES	JOT ERROR SWITCH
1745	(6D1)	BITSTRING	1	CIRIRDAF	IRDA ERROR SWITCH
		CIRIRDAF BIT DEFINITIONS			
		1...		CIRWMER	"B'10000000'" SPL VOL ERROR DURING WARM START
		.1..		CIREXPRF	"B'01000000'" EXTRA VOLUMES WITH SPOOL PREFIX
		..1.		CIRMAXQT	"B'00100000'" MAX VOLUMES, OPERATOR SAID QUIT
		...1		CIRSPLGE	"B'00010000'" EXTENT TOO LARGE FOR TRCK GRPS

Table 61. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		CIRCLGSZ	"B'00001000'" LOG SIZE MUST BE CALCULATED
		.... ..1.		CIRJOTEC	"B'00000010'" JOT Error correction comp.
		1		CIRJOTRB	"B'00000001'" JOT rebuild completed
1745	(6D1)	X'3'	0	CIRJOTV	"CIRJOTEC+CIRJOTRB" JOT Verification Completed
1746	(6D2)	BITSTRING	1	CIRIRDA1	IRDA FLAG BYTE
	CIRIRDA1 BIT DEFINITIONS				
		1...		CIRMSGIS	"B'10000000'" HASP488 MESSAGE ISSUED
		.1..		CIRFWDDS	"B'01000000'" A FORWARDED DATASET FOUND
		..1.		CIRDONFW	"B'00100000'" FORWARDED DS PROC DONE
		...1		CIRFFWD	"B'00010000'" A DS HAS BEEN FORWARDED
		.... 1...		CIRCHIUS	"B'00001000'" INUSE INDICATOR HAS CHANGED
		.... .1..		CIRI460	"B'00000100'" HASP460 was issued
		.... ..1.		CIRI416	"B'00000010'" Need to issue HASP416
		1		CIRNODAT	"B'00000001'" CKPT data not useable
1747	(6D3)	BITSTRING	1	CIRPARMF	PARAMETER FLAG BYTE
1748	(6D4)	SIGNED	4	CIRPARML(0)	GENERIC PARM LIST
1748	(6D4)	SIGNED	4	CIRPARM1	PARM 1
1752	(6D8)	SIGNED	4	CIRPARM2	PARM 2
1756	(6DC)	SIGNED	4	CIRPARM3	PARM 3
1760	(6E0)	SIGNED	4	CIRPARM4	PARM 4
1764	(6E4)	SIGNED	4	CIRPARM5	PARM 5
1768	(6E8)	SIGNED	4	CIRPARM6	PARM 6
1768	(6E8)	X'6D3'	0	CIRPARMS	"CIRPARMF,*-CIRPARMF" FULL PARAMETER LIST
1772	(6EC)	SIGNED	4	CIRFWCNT	COUNT FORWARDED DATA SET
1776	(6F0)	CHARACTER	72	CIRCKPT1	CKPT1 SPEC SAVE AREA
1848	(738)	CHARACTER	72	CIRCKPT2	CKPT2 SPEC SAVE AREA
1920	(780)	CHARACTER	144	CIRCHFES	CURRENT STATE OF CKPT ALOC
2064	(810)	BITSTRING	4	CIRIDMEM	'In-Doubt' members mask
2068	(814)	ADDRESS	4	CIRM791W	CBADDR for HASP791 message
2072	(818)	SIGNED	4	CIRECBLS(0)	List of ECBs to wait on
2072	(818)	ADDRESS	4	CIRECBA1	Pointer to ECB 1
2076	(81C)	ADDRESS	4	CIRECBA2	Pointer to ECB 2
2080	(820)	SIGNED	4	CIRECB1	1st ECB
2084	(824)	SIGNED	4	CIRECB2	2nd ECB
	UCBLOOK MF=(L,CIRUCBL) MACDATE -03/18/08-<3>				
0	(0)	X'828'	0	M00M1097	"CIRUCBL" ++ UCBLOOK NAME
2088	(828)	DBL WORD	8	CIRUCBL(0)	++ UCBLOOK PARM LIST
2088	(828)	BITSTRING	1	CIRUCBL_XVERSION	++ INPUT XVERSION
2089	(829)	BITSTRING	1	CIRUCBL_XSCHSET	++

Table 61. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2090	(82A)	BITSTRING	2	CIRUCBL_XDEVN	++
2092	(82C)	CHARACTER	4	CIRUCBL_XDEVNCHAR	++
2096	(830)	CHARACTER	6	CIRUCBL_XVOLSER	++
2102	(836)	BITSTRING	1	CIRUCBL_XDEVCLASS	++ XDEVCLASS
2102	(836)	X'0'	0	CIRUCBL_XDEVCLASS_DASDTAPE	"0" ++ XDEVCLASS.DASDTAPE KEYWORD
2102	(836)	X'1'	0	CIRUCBL_XDEVCLASS_TAPE	"1" ++ XDEVCLASS.TAPE KEYWORD
2102	(836)	X'2'	0	CIRUCBL_XDEVCLASS_DASD	"2" ++ XDEVCLASS.DASD KEYWORD
2103	(837)	BITSTRING	1	CIRUCBL_XRESERVED2	++ FIELD_LABEL
		1...		CIRUCBL_XNOTFIND_YES	"B'10000000'" ++ XNOTFIND.YES KEYWORD
2104	(838)	ADDRESS	4	CIRUCBL_XUCBPTR	++
2108	(83C)	CHARACTER	5	CIRUCBL_XCOMPID	++
2113	(841)	BITSTRING	1	CIRUCBL_XMASK	++ FIELD_LABEL
		1...		CIRUCBL_XNONBASE_YES	"B'10000000'" ++ XNONBASE.YES KEYWORD
		.1..		CIRUCBL_XDYNAMIC_NO	"B'01000000'" ++ XDYNAMIC.NO KEYWORD
		..1.		CIRUCBL_XRANGE_3DIGIT	"B'00100000'" ++ XRANGE.3DIGIT KEYWORD
		...1		CIRUCBL_XLOC_ANY	"B'00010000'" ++ XLOC.ANY KEYWORD
		.... 1...		CIRUCBL_XSPECIAL_YES	"B'00001000'" ++ XSPECIAL.YES KEYWORD
		1		CIRUCBL_XUNBOUND_ALIAS_YES	"B'00000001'" ++ XUNBOUND_ALIAS.YES KEYWORD
2114	(842)	BITSTRING	1	CIRUCBL_XFLAGS	++ FIELD_LABEL
		1...		CIRUCBL_KEYUSED_DEVN	"B'10000000'" ++ KEYUSED.DEVN KEYWORD
		.1..		CIRUCBL_KEYUSED_DEVNCHAR	"B'01000000'" ++ KEYUSED.DEVNCHAR KEYWORD
		..1.		CIRUCBL_KEYUSED_VOLSER	"B'00100000'" ++ KEYUSED.VOLSER KEYWORD
		...1		CIRUCBL_KEYUSED_LASTING	"B'00010000'" ++ KEYUSED.LASTING KEYWORD
		.... 1...		CIRUCBL_KEYUSED_COMPID	"B'00001000'" ++ KEYUSED.COMPID KEYWORD
		.... .1..		CIRUCBL_KEYUSED_HELP	"B'00000100'" ++ KEYUSED.HELP KEYWORD
		.... ..1.		CIRUCBL_KEYUSED_PIN	"B'00000010'" ++ KEYUSED.PIN KEYWORD
		1		CIRUCBL_KEYUSED_PINPATHS	"B'00000001'" ++ KEYUSED.PINPATHS KEYWORD
2115	(843)	BITSTRING	1	CIRUCBL_XFLAGS2	++ FIELD_LABEL
		1...		CIRUCBL_KEYUSED_UCBCXPTR	"B'10000000'" ++ KEYUSED.UCBCXPTR KEYWORD
		.1..		CIRUCBL_KEYUSED_UCBPXPTR	"B'01000000'" ++ KEYUSED.UCBPXPTR KEYWORD
		..1.		CIRUCBL_KEYUSED_LDEVNCHAR	"B'00100000'" ++ KEYUSED.LDEVNCHAR KEYWORD
		...1		CIRUCBL_KEYUSED_SCHSET	"B'00010000'" ++ KEYUSED.SCHSET KEYWORD
2116	(844)	ADDRESS	4	CIRUCBL_XTEXT_ADDR	++ ADDR
2120	(848)	SIGNED	4	CIRUCBL_XTEXT_ALET	++ ALET

Table 61. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2124	(84C)	CHARACTER	8	CIRUCBL_XPTOKEN	++
2132	(854)	CHARACTER	8	CIRUCBL_XHELP	++
2140	(85C)	ADDRESS	4	CIRUCBL_XIOCTOKEN_ADDR	++ ADDR
2144	(860)	SIGNED	4	CIRUCBL_XIOCTOKEN_ALET	++ ALET
2148	(864)	ADDRESS	4	CIRUCBL_XUCBPAREA_ADDR	++ ADDR
2152	(868)	SIGNED	4	CIRUCBL_XUCBPAREA_ALET	++ ALET
2156	(86C)	ADDRESS	4	CIRUCBL_XUCBCXPTR	++
2160	(870)	ADDRESS	4	CIRUCBL_XUCBPXPTR	++
2164	(874)	CHARACTER	5	CIRUCBL_XLDEVNCHAR	++
2169	(879)	CHARACTER	3	CIRUCBL_XRESERVED1	++ FIELD_LABEL
2169	(879)	X'54'	0	CIRUCBLL	"*-CIRUCBL" ++ LENGTH OF PLIST
				UCBLOOK-3	
0	(0)	X'324'	0	CIRGW4LN	"*-CIRGWORK" Length of fourth mapping
Fifth mapping of CIRGWORK used by IRURDEV					
CIRCAPU IOSCAPU MF=(L,CIRCAPU) IOSCAPU parm list MACDATE -01/22/01-<1>					
0	(0)	X'558'	0	M00M1098	"CIRCAPU" ++ IOSCAPU NAME
1368	(558)	DBL WORD	8	CIRCAPU(0)	++ IOSCAPU PARM LIST
1368	(558)	BITSTRING	1	CIRCAPU_XVERSION	++ INPUT XVERSION
1369	(559)	BITSTRING	1	CIRCAPU_XFLAGS1	++ FIELD_LABEL
		1...		CIRCAPU_KEYUSED_CAPTUCB	"B'10000000'" ++ KEYUSED.CAPTUCB KEYWORD
		.1..		CIRCAPU_KEYUSED_UCAPTUCB	"B'01000000'" ++ KEYUSED.UCAPTUCB KEYWORD
		..1.		CIRCAPU_KEYUSED_CAPTOACT	"B'00100000'" ++ KEYUSED.CAPTOACT KEYWORD
		...1		CIRCAPU_KEYUSED_ASID	"B'00010000'" ++ KEYUSED.ASID KEYWORD
		.... 1...		CIRCAPU_KEYUSED_UCBPTR	"B'00001000'" ++ KEYUSED.UCBPTR KEYWORD
		.... .1..		CIRCAPU_KEYUSED_CAPTPTR	"B'00000100'" ++ KEYUSED.CAPTPTR KEYWORD
1370	(55A)	CHARACTER	2	CIRCAPU_XRESERVED1	++ FIELD_LABEL XRESERVED1
1372	(55C)	ADDRESS	4	CIRCAPU_XUCBPTR	++ XUCBPTR
1376	(560)	ADDRESS	4	CIRCAPU_XCAPTPTR	++ XCAPTPTR
1380	(564)	CHARACTER	1	CIRCAPU_XRESERVED2	++ FIELD_LABEL XRESERVED2
1381	(565)	BITSTRING	1	CIRCAPU_XMASK	++ FIELD_LABEL
		1...		CIRCAPU_XMSIFREE_YES	"B'10000000'" ++ XMSIFREE.YES KEYWORD
		.1..		CIRCAPU_XLASTING_YES	"B'01000000'" ++ XLASTING.YES KEYWORD
		..1.		CIRCAPU_XCAPTCOM_YES	"B'00100000'" ++ XCAPTCOM.YES KEYWORD
		...1		CIRCAPU_XCAPTCOM_NEVER	"B'00010000'" ++ XCAPTCOM.NEVER KEYWORD
1382	(566)	BITSTRING	2	CIRCAPU_XASID	++ XASID
1384	(568)	CHARACTER	16	CIRCAPU_XRESERVED3	++ FIELD_LABEL XRESERVED3
1384	(568)	X'20'	0	CIRCAPUL	"*-CIRCAPU" ++ LENGTH OF PLIST
				IOSCAPU-1	

Table 61. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'20'	0	CIRGW5LN	"*-CIRGWORK" Length of fifth mapping
		Sixth mapping of CIRGWORK used by IRMVS			
1368	(558)	ADDRESS	4	CIRSJLSP	SJF LOCAL STORAGE POINTER
1372	(55C)	ADDRESS	4	CIRSJPTR	SWB SJF POINTER
1376	(560)	BITSTRING	256	CIRSJEXP	SJF EXTRACT PARAMETER LIST
1632	(660)	CHARACTER	32	CIRFPTX	FOOTPRINT AREA FOR $GKINIT
1664	(680)	SIGNED	1	CIRFPLN	FOOTPRINT LENGTH
1665	(681)	CHARACTER	3	CIRRSV1	RESERVED FOR FUTURE USE
1665	(681)	X'12C'	0	CIRGW6LN	"*-CIRGWORK" Length of sixth mapping
		Seventh mapping of CIRGWORK used indirectly by IRNJE (IRNJE $CALLs NCOMMREQ, which $CALLs NPDDMSG to display a diagnostic message in error scenarios)			
1368	(558)	CHARACTER	120	CIRM500A	
1368	(558)	X'78'	0	CIRGW7LN	"*-CIRGWORK" Length of seventh mapping
		Eighth mapping of CIRGWORK used by IRFINAL, IRNJE and IRRJE.			
1368	(558)	SIGNED	4	CIRCMSTR(0)	Full word alignment
1368	(558)	CHARACTER	4		CPLTAB ID
1372	(55C)	ADDRESS	1		CPLTAB Version
1373	(55D)	ADDRESS	1		Sub Pool ID (non-JES2 AS)
1374	(55E)	ADDRESS	1		Sub Pool number (JES2 AS)
1375	(55F)	ADDRESS	1		Storage Key
1376	(560)	ADDRESS	4		CPINDEX offset
1380	(564)	CHARACTER	8		Cell Type
1388	(56C)	CHARACTER	8		Data space name
1396	(574)	ADDRESS	4		Cell size
1400	(578)	ADDRESS	1		General flags
1401	(579)	ADDRESS	1		Location flags
1402	(57A)	ADDRESS	1		Data space flags
1403	(57B)	ADDRESS	1		Attribute flags
1404	(57C)	ADDRESS	4		Limit of num of cells
1408	(580)	ADDRESS	4		Primary cell count
1412	(584)	ADDRESS	4		Secondary cell count
		IARVSERV MF=(L,CIRVSERV) List form of IARVSERV macro MACDATE -05/08/12-<0>			
0	(0)	X'588'	0	M00M1102	"CIRVSERV" ++ IARVSERV NAME
1416	(588)	DBL WORD	8	CIRVSERV(0)	++ IARVSERV PARM LIST
1416	(588)	BITSTRING	1	CIRVSERV_XVERSION	++ INPUT XVERSION
1417	(589)	BITSTRING	1	CIRVSERV_XSERVICE	++ XSERVICE
1417	(589)	X'1'	0	CIRVSERV_SHARE	"1" ++ XSERVICE.SHARE KEYWORD
1417	(589)	X'2'	0	CIRVSERV_UNSHARE	"2" ++ XSERVICE.UNSHARE KEYWORD
1417	(589)	X'3'	0	CIRVSERV_CHANGEACCESS	"3" ++ XSERVICE.CHANGEACCESS KEYWORD
1417	(589)	X'4'	0	CIRVSERV_SHARESEG	"4" ++ XSERVICE.SHARESEG KEYWORD
1418	(58A)	BITSTRING	1	CIRVSERV_XFLAGS1	++ FIELD_LABEL
		1...		CIRVSERV_TARGET_VIEW_RO	"B'10000000'" ++ XTARGET_VIEW.READONLY KEYWORD

Table 61. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		CIRVSERV_TARGET_VIEW_SW	"B'01000000'" ++ XTARGET_VIEW.SHAREDWRITE KEYWORD
		..1.		CIRVSERV_TARGET_VIEW_UW	"B'00100000'" ++ XTARGET_VIEW.UNIQUEWRITE KEYWORD
		...1		CIRVSERV_TARGET_VIEW_TW	"B'00010000'" ++ XTARGET_VIEW.TARGETWRITE KEYWORD
		.... 1...		CIRVSERV_TARGET_VIEW_LS	"B'00001000'" ++ XTARGET_VIEW.LIKESOURCE KEYWORD
		.... .1..		CIRVSERV_TARGET_VIEW_NA	"B'00000100'" ++ XTARGET_VIEW.HIDDEN KEYWORD
		.... ..1.		CIRVSERV_COPYNOW	"B'00000010'" ++ KEYUSED.COPYNOW KEYWORD
		1		CIRVSERV_RETAIN_YES	"B'00000001'" ++ XRETAIN.YES KEYWORD
1419	(58B)	BITSTRING	1	CIRVSERV_XFLAGS2	++ FIELD_LABEL
		1...		CIRVSERV_XPARTIALPAGE_YES	"B'10000000'" ++ XPARTIALPAGE.YES KEYWORD
1420	(58C)	SIGNED	4	CIRVSERV_XNUMRANGE	++
1424	(590)	ADDRESS	4	CIRVSERV_XRANGLIST	++
1424	(590)	X'C'	0	CIRVSERVL	"*-CIRVSERV" ++ LENGTH OF PLIST
				IARVSERV-0	
1428	(594)	ADDRESS	4	CIRVRLP	Pointer to range list
1432	(598)	SIGNED	4	CIRVRL(7)	IARVSERV range list
1460	(5B4)	ADDRESS	4	CIRVRETC	Return code for $HASP564
1464	(5B8)	ADDRESS	4	CIRVRSNC	Reason code for $HASP564
1468	(5BC)	BITSTRING	1	CIRFLAGV	NIT Data space error flag
		1...		CIRFV$DS	"B'10000000'" $DSPSERV service failed
		.1..		CIRFVIAR	"B'01000000'" IARVSERV service failed
		..1.		CIRFVNBL	"B'00100000'" 'NOT EXTEND' message
		...1		CIRFVNFD	"B'00010000'" 'NOT FOUND' message
		.... 1...		CIRFVNSH	"B'00001000'" 'NOT SHARED' message
		.... .1..		CIRFVRC	"B'00000100'" Include return code
		.... ..1.		CIRFVRS	"B'00000010'" Include reason code
1469	(5BD)	BITSTRING	1	CIRASKEY	ASDS data space storage key
1470	(5BE)	BITSTRING	2		Reserved for future use
1472	(5C0)	SIGNED	4	CIRASALT	ALET for ASDS data space
1476	(5C4)	ADDRESS	4	CIRASDSB	Addr of ASDS CSA DSB
1480	(5C8)	CHARACTER	8	CIRASNAM	Gen name of ASDS data space
1480	(5C8)	X'78'	0	CIRGW8LN	"*-CIRGWORK" Length of eighth mapping
		Ninth mapping of CIRGWORK used by IRSSI			
1368	(558)	ADDRESS	4	CIRETDEF	Local ETDEF work area
		This is mapping of CIRGWORK used by CSVDYNEX for Multi System Dump MACDATE -02/23/15-<1>			

Table 61. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'560'	0	M00M1103	"CIRDYNEX" ++ CSVDYNEX NAME
1376	(560)	DBL WORD	8	CIRDYNEX(0)	++ CSVDYNEX PARM LIST
1376	(560)	BITSTRING	1	CIRDYNEX_XVERSION	++ INPUT XVERSION
1377	(561)	BITSTRING	1	CIRDYNEX_XREQUEST	++ XREQUEST
1377	(561)	X'0'	0	CIRDYNEX_XREQUEST_DEFINE	"0" ++ XREQUEST.DEFINE KEYWORD
1377	(561)	X'1'	0	CIRDYNEX_XREQUEST_ADD	"1" ++ XREQUEST.ADD KEYWORD
1377	(561)	X'2'	0	CIRDYNEX_XREQUEST_MODIFY	"2" ++ XREQUEST.MODIFY KEYWORD
1377	(561)	X'3'	0	CIRDYNEX_XREQUEST_DELETE	"3" ++ XREQUEST.DELETE KEYWORD
1377	(561)	X'4'	0	CIRDYNEX_XREQUEST_UNDEFINE	"4" ++ XREQUEST.UNDEFINE KEYWORD
1377	(561)	X'5'	0	CIRDYNEX_XREQUEST_ATTRIB	"5" ++ XREQUEST.ATTRIB KEYWORD
1377	(561)	X'6'	0	CIRDYNEX_XREQUEST_LIST	"6" ++ XREQUEST.LIST KEYWORD
1377	(561)	X'7'	0	CIRDYNEX_XREQUEST_CALL	"7" ++ XREQUEST.CALL KEYWORD
1377	(561)	X'8'	0	CIRDYNEX_XREQUEST_RECOVER	"8" ++ XREQUEST.RECOVER KEYWORD
1377	(561)	X'9'	0	CIRDYNEX_XREQUEST_PROCESSDP	"9" ++ XREQUEST.PROCESSDP KEYWORD
1377	(561)	X'A'	0	CIRDYNEX_XREQUEST_ACTIVATE	"10" ++ XREQUEST.ACTIVATE KEYWORD
1377	(561)	X'B'	0	CIRDYNEX_XREQUEST_QUERY	"11" ++ XREQUEST.QUERY KEYWORD
1377	(561)	X'C'	0	CIRDYNEX_XREQUEST_REPLACE	"12" ++ XREQUEST.REPLACE KEYWORD
1378	(562)	BITSTRING	1	CIRDYNEX_XFLAGS	++ FIELD_LABEL
		1...		CIRDYNEX_KEYUSED_CALLSTOPRC	"B'10000000'" ++ KEYUSED.CALLSTOPRC KEYWORD
		.1..		CIRDYNEX_KEYUSED_RCFROM	"B'01000000'" ++ KEYUSED.RCFROM KEYWORD
		..1.		CIRDYNEX_KEYUSED_KEEPRC	"B'00100000'" ++ KEYUSED.KEEPRC KEYWORD
		...1		CIRDYNEX_XFASTPATH_YES	"B'00010000'" ++ XFASTPATH.YES KEYWORD
		.... 1...		CIRDYNEX_XREENTRANT_REQ	"B'00001000'" ++ XREENTRANT.REQ KEYWORD
		.... .1..		CIRDYNEX_XMESSAGE_ERROR	"B'00000100'" ++ XMESSAGE.ERROR KEYWORD
		.... ..1.		CIRDYNEX_XSTATE_ACTIVE	"B'00000010'" ++ XSTATE.ACTIVE KEYWORD
		1		CIRDYNEX_XSTATE_INACTIVE	"B'00000001'" ++ XSTATE.INACTIVE KEYWORD
1379	(563)	BITSTRING	1	CIRDYNEX_XAMODE	++ XAMODE
1379	(563)	X'0'	0	CIRDYNEX_XAMODE_31	"0" ++ XAMODE.31 KEYWORD
1379	(563)	X'1'	0	CIRDYNEX_XAMODE_24	"1" ++ XAMODE.24 KEYWORD
1379	(563)	X'2'	0	CIRDYNEX_XAMODE_DEFINED	"2" ++ XAMODE.DEFINED KEYWORD
1380	(564)	SIGNED	4	CIRDYNEX_XKEY	++
1384	(568)	BITSTRING	1	CIRDYNEX_XFLAGS2	++ FIELD_LABEL
		1...		CIRDYNEX_XONEMODULE_YES	"B'10000000'" ++ XONEMODULE.YES KEYWORD
		.1..		CIRDYNEX_XFORCE_YES	"B'01000000'" ++ XFORCE.YES KEYWORD
		..1.		CIRDYNEX_XPERSIST_ADDRESSSPACE	"B'00100000'" ++ XPERSIST.ADDRESSSPACE KEYWORD
		...1		CIRDYNEX_XPERSIST_IPL	"B'00010000'" ++ XPERSIST.IPL KEYWORD

Table 61. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		CIRDYNEX_XANYKEY_YES	"B'00001000'" ++ XANYKEY.YES KEYWORD
		.... .1..		CIRDYNEX_XABENDCONSEC_YES	"B'00000100'" ++ XABENDCONSEC.YES KEYWORD
		.... ..1.		CIRDYNEX_XLINKSTACKOK_NO	"B'00000010'" ++ XLINKSTACKOK.NO KEYWORD
		1		CIRDYNEX_KEYUSED_STOKEN	"B'00000001'" ++ KEYUSED.STOKEN KEYWORD
1385	(569)	BITSTRING	1	CIRDYNEX_XFLAGS3	++ FIELD_LABEL
		1...		CIRDYNEX_XRETINFO_HIGHEST	"B'10000000'" ++ XRETINFO.HIGHEST KEYWORD
		.1..		CIRDYNEX_XRETINFO_LOWEST	"B'01000000'" ++ XRETINFO.LOWEST KEYWORD
		..1.		CIRDYNEX_XRETINFO_ALL	"B'00100000'" ++ XRETINFO.ALL KEYWORD
		...1		CIRDYNEX_XRETINFO_LAST	"B'00010000'" ++ XRETINFO.LAST KEYWORD
		.... 1...		CIRDYNEX_XQTYPE_ADD	"B'00001000'" ++ XQTYPE.ADD KEYWORD
		.... .1..		CIRDYNEX_XLOCAL_YES	"B'00000100'" ++ XLOCAL.YES KEYWORD
		.... ..1.		CIRDYNEX_XPERSIST_JOBSTEPTASK	"B'00000010'" ++ XPERSIST.JOBSTEPTASK KEYWORD
		1		CIRDYNEX_XWILDCARDSTAR_NO	"B'00000001'" ++ XWILDCARDSTAR.NO KEYWORD
1386	(56A)	BITSTRING	1	CIRDYNEX_XPOS	++ XPOS
1386	(56A)	X'0'	0	CIRDYNEX_XPOS_SYSTEM	"0" ++ XPOS.SYSTEM KEYWORD
1386	(56A)	X'1'	0	CIRDYNEX_XPOS_LAST	"1" ++ XPOS.LAST KEYWORD
1386	(56A)	X'2'	0	CIRDYNEX_XPOS_FIRST	"2" ++ XPOS.FIRST KEYWORD
1387	(56B)	BITSTRING	1	CIRDYNEX_XEXAAVER	++ XEXAAVER
1387	(56B)	X'0'	0	CIRDYNEX_XEXAAVER_0	"0" ++ XEXAAVER.0 KEYWORD
1387	(56B)	X'1'	0	CIRDYNEX_XEXAAVER_1	"1" ++ XEXAAVER.1 KEYWORD
1387	(56B)	X'2'	0	CIRDYNEX_XEXAAVER_2	"2" ++ XEXAAVER.2 KEYWORD
1387	(56B)	X'3'	0	CIRDYNEX_XEXAAVER_3	"3" ++ XEXAAVER.3 KEYWORD
1388	(56C)	CHARACTER	4	CIRDYNEX_XRSV0002	++ RESERVED
1392	(570)	CHARACTER	16	CIRDYNEX_XEXITNAME	++
1408	(580)	CHARACTER	8	CIRDYNEX_XMODNAME	++
1416	(588)	ADDRESS	4	CIRDYNEX_XCMDINFO_ADDR	++ ADDR
1420	(58C)	SIGNED	4	CIRDYNEX_XABENDNUM	++
1424	(590)	SIGNED	4	CIRDYNEX_XRCTO	++
1428	(594)	SIGNED	4	CIRDYNEX_XRCFROM	++
1432	(598)	SIGNED	4	CIRDYNEX_XKEEPRC	++
1436	(59C)	BITSTRING	1	CIRDYNEX_XKEEPRCCOMP	++ XKEEPRCCOMP
1436	(59C)	X'0'	0	CIRDYNEX_XKEEPRCCOMP_EQ	"0" ++ XKEEPRCCOMP.EQ KEYWORD
1436	(59C)	X'1'	0	CIRDYNEX_XKEEPRCCOMP_NE	"1" ++ XKEEPRCCOMP.NE KEYWORD
1436	(59C)	X'2'	0	CIRDYNEX_XKEEPRCCOMP_GT	"2" ++ XKEEPRCCOMP.GT KEYWORD
1436	(59C)	X'3'	0	CIRDYNEX_XKEEPRCCOMP_LT	"3" ++ XKEEPRCCOMP.LT KEYWORD
1436	(59C)	X'4'	0	CIRDYNEX_XKEEPRCCOMP_GE	"4" ++ XKEEPRCCOMP.GE KEYWORD
1436	(59C)	X'5'	0	CIRDYNEX_XKEEPRCCOMP_LE	"5" ++ XKEEPRCCOMP.LE KEYWORD
1437	(59D)	BITSTRING	1	CIRDYNEX_XRCCOMPARE	++ XRCCOMPARE
1437	(59D)	X'0'	0	CIRDYNEX_XRCCOMPARE_EQ	"0" ++ XRCCOMPARE.EQ KEYWORD
1437	(59D)	X'1'	0	CIRDYNEX_XRCCOMPARE_NE	"1" ++ XRCCOMPARE.NE KEYWORD

Table 61. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1437	(59D)	X'2'	0	CIRDYNEX_XRCCOMPARE_GT	"2" ++ XRCCOMPARE.GT KEYWORD
1437	(59D)	X'3'	0	CIRDYNEX_XRCCOMPARE_LT	"3" ++ XRCCOMPARE.LT KEYWORD
1437	(59D)	X'4'	0	CIRDYNEX_XRCCOMPARE_GE	"4" ++ XRCCOMPARE.GE KEYWORD
1437	(59D)	X'5'	0	CIRDYNEX_XRCCOMPARE_LE	"5" ++ XRCCOMPARE.LE KEYWORD
1438	(59E)	BITSTRING	1	CIRDYNEX_XFLAGS4	++ FIELD_LABEL
		1...		CIRDYNEX_KEYUSED_PRECALLADDR	"B'10000000'" ++ KEYUSED.PRECALLADDR KEYWORD
		.1..		CIRDYNEX_XEXITTYPE_INSTALLATION	"B'01000000'" ++ XEXITTYPE.INSTALLATION KEYWORD
		..1.		CIRDYNEX_XEXITTYPE_PROGRAM	"B'00100000'" ++ XEXITTYPE.PROGRAM KEYWORD
		...1		CIRDYNEX_XEXITTYPE_NOTPROGRAM	"B'00010000'" ++ XEXITTYPE.NOTPROGRAM KEYWORD
		.... 1...		CIRDYNEX_XMESSAGE_FOUNDBUTERROR	"B'00001000'" ++ XMESSAGE.FOUNDBUTERROR KEYWORD
		.... .1..		CIRDYNEX_XADDRSPACE_ANY	"B'00000100'" ++ XADDRSPACE.ANY KEYWORD
		.... ..1.		CIRDYNEX_KEYUSED_SERVICEID	"B'00000010'" ++ KEYUSED.SERVICEID KEYWORD
		1		CIRDYNEX_XLOADAPF_YES	"B'00000001'" ++ XLOADAPF.YES KEYWORD
1439	(59F)	BITSTRING	1	CIRDYNEX_XEXRETVER	++ XEXRETVER
1439	(59F)	X'0'	0	CIRDYNEX_XEXRETVER_0	"0" ++ XEXRETVER.0 KEYWORD
1439	(59F)	X'1'	0	CIRDYNEX_XEXRETVER_1	"1" ++ XEXRETVER.1 KEYWORD
1440	(5A0)	SIGNED	4	CIRDYNEX_XCALLSTOPRC	++
1444	(5A4)	CHARACTER	44	CIRDYNEX_XRSVNNNN	++ RESERVED
1444	(5A4)	X'5D0'	0	CIRDYNEX_PL_END	"*" ++ END OF BASE PLIST
1384	(568)	BITSTRING	1	CIRDYNEX_XFLAGS2DF	++ FIELD_LABEL
		.1..		CIRDYNEX_XDELETEFORCE_YES	"B'01000000'" ++ XDELETEFORCE.YES KEYWORD
1420	(58C)	SIGNED	4	CIRDYNEX_XADDABENDNUM	++
1436	(59C)	BITSTRING	1	CIRDYNEX_XKEEPRCCVAL	++
1437	(59D)	BITSTRING	1	CIRDYNEX_XRCCVAL	++
1444	(5A4)	ADDRESS	4	CIRDYNEX_XWORKAREA_ADDR	++ ADDR
1448	(5A8)	ADDRESS	4	CIRDYNEX_XRETAREA_ADDR	++ ADDR
1452	(5AC)	SIGNED	4	CIRDYNEX_XRETAREA_ALET	++ ALET
1456	(5B0)	SIGNED	4	CIRDYNEX_XRETLEN	++
1460	(5B4)	ADDRESS	4	CIRDYNEX_XRUB_ADDR	++ ADDR
1464	(5B8)	SIGNED	4	CIRDYNEX_XRUB_ALET	++ ALET
1468	(5BC)	CHARACTER	8	CIRDYNEX_XNEXTTOKEN	++
1476	(5C4)	ADDRESS	4	CIRDYNEX_XSDWA_ADDR	++ ADDR
1480	(5C8)	ADDRESS	4	CIRDYNEX_XPRECALLWA_ADDR	++ ADDR
1444	(5A4)	ADDRESS	4	CIRDYNEX_XANSAREA_ADDR	++ ADDR
1448	(5A8)	SIGNED	4	CIRDYNEX_XANSAREA_ALET	++ ALET
1452	(5AC)	SIGNED	4	CIRDYNEX_XANSLEN	++
1444	(5A4)	ADDRESS	4	CIRDYNEX_XPRECALLADDR	++
1444	(5A4)	ADDRESS	4	CIRDYNEX_XDSNAME_ADDR	++ ADDR
1448	(5A8)	SIGNED	4	CIRDYNEX_XDSNAME_ALET	++ ALET
1452	(5AC)	CHARACTER	8	CIRDYNEX_XJOBNAME	++

Table 61. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1460	(5B4)	ADDRESS	4	CIRDYNEX_XMODADDR	++
1464	(5B8)	CHARACTER	8	CIRDYNEX_XPARAM	++
1472	(5C0)	CHARACTER	8	CIRDYNEX_XSERVICEMASK	++
1480	(5C8)	BITSTRING	1	CIRDYNEX_XAMRFLAGS	++ FIELD_LABEL
		1...		CIRDYNEX_KEYUSED_SERVICEMASK	"B'10000000'" ++ KEYUSED.SERVICEMASK KEYWORD
		.1..		CIRDYNEX_XDISABLEDCALL_OK	"B'01000000'" ++ XDISABLEDCALL.OK KEYWORD
1481	(5C9)	CHARACTER	3	CIRDYNEX_XRSV0003	++ RESERVED
1452	(5AC)	CHARACTER	8	CIRDYNEX_XSTOKEN	++
1472	(5C0)	CHARACTER	8	CIRDYNEX_XSERVICEMASKM	++
1480	(5C8)	BITSTRING	1	CIRDYNEX_XAMRFLAGSM	++ FIELD_LABEL
		1...		CIRDYNEX_KEYUSED_SERVICEMASKM	"B'10000000'" ++ KEYUSED.SERVICEMASKM KEYWORD
1472	(5C0)	CHARACTER	8	CIRDYNEX_XSERVICEMASKR	++
1480	(5C8)	BITSTRING	1	CIRDYNEX_XAMRFLAGSR	++ FIELD_LABEL
		1...		CIRDYNEX_KEYUSED_SERVICEMASKR	"B'10000000'" ++ KEYUSED.SERVICEMASKR KEYWORD
1488	(5D0)	X'70'	0	CIRDYNEXL	"*-CIRDYNEX" ++ LENGTH OF PLIST
				CSVDYNEX-1	
0	(0)	X'78'	0	CIRGW9LN	"*-CIRGWORK" Length of ninth mapping
End of CIRGWORK mappings.					
1488	(5D0)	ADDRESS	2	(0)	Ensure that
1488	(5D0)	ADDRESS	2	(0)	CIRGWORK is
1488	(5D0)	ADDRESS	2	(0)	larger than
1488	(5D0)	ADDRESS	2	(0)	each of the
1488	(5D0)	ADDRESS	2	(0)	individual
1488	(5D0)	ADDRESS	2	(0)	mappings of
1488	(5D0)	ADDRESS	2	(0)	the data
1488	(5D0)	ADDRESS	2	(0)	area
1488	(5D0)	ADDRESS	2	(0)	
2268	(8DC)	SIGNED	4	(0)	
2268	(8DC)	X'79C'	0	CIRWLEN	"*-PCEWORK" LENGTH OF CIR PCE WORK
2268	(8DC)	X'8DC'	0	CIRLEN	"*-PCE" LENGTH OF INIT PCE

Table 62. Structure NGDAS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NGDAS	
0	(0)	CHARACTER	3	NGDEYE	Eye catcher
3	(3)	BITSTRING	1	NGDFLAG1	Universal flag byte
		1...		NGD1RBLD	"B'10000000'" Rebuild has been performed
3	(3)	X'4'	0	NGDHDR	"*-NGDAS" Header length
4	(4)	SIGNED	2	NGDDATA(0)	

Table 62. Structure NGDAS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	CHARACTER	6	NGDVOLID	EBCDIC VOLSER ID
10	(A)	BITSTRING	1	NGDFLAG2	Individual volume flag byte
		1...		NGD2TRKQ	"B'10000000'" Should be on TRAK q
		.1..		NGD2WRKQ	"B'01000000'" Should be on WORK q
		..1.		NGD2CORR	"B'00100000'" DAS is corrupted
11	(B)	BITSTRING	1	NGDRBLDR	DAS rebuild reason
12	(C)	SIGNED	4	NGDTKCYL	Number of tracks per cyl
16	(10)	SIGNED	2	NGDNORTK	Number of recs per track
20	(14)	SIGNED	4	NGDTRKRC	RECY based tracks in DS
24	(18)	SIGNED	4	NGDMAPSZ	Number of bytes in map
28	(1C)	SIGNED	2	NGDMTCSZ	Minimum trackcell size
30	(1E)	SIGNED	2	NGDTGSIZ	Trackgroup size
32	(20)	BITSTRING	4	NGDEDONE	Expected DONE mask
36	(24)	CHARACTER	44	NGDDSN	Data set name work area
36	(24)	X'4C'	0	NGDASLEN	"*-NGDDATA" Size of temp vector entry

Table 63. Cross Reference for $CIRWORK

Name	Offset	Hex Tag
CIRACCTJ	28C	
CIRACCTN	290	
CIRALTDS	588	
CIRANSA	5F0	
CIRANSAL	5F4	
CIRASALT	5C0	
CIRASDSB	5C4	
CIRASKEY	5BD	
CIRASNAM	5C8	
CIRBLDM	3D0	C2D3C440
CIRBSCLC	2F4	0
CIRBTGFA	304	
CIRBTGLA	308	
CIRBTPRC	1E2	
CIRCAPU	558	
CIRCAPU_KEYUSED_ASID	559	10
CIRCAPU_KEYUSED_CAPTOACT	559	20
CIRCAPU_KEYUSED_CAPTPTR	559	4
CIRCAPU_KEYUSED_CAPTUCB	559	80
CIRCAPU_KEYUSED_UCAPTUCB	559	40
CIRCAPU_KEYUSED_UCBPTR	559	8
CIRCAPU_XASID	566	
CIRCAPU_XCAPTCOM_NEVER	565	10
CIRCAPU_XCAPTCOM_YES	565	20
CIRCAPU_XCAPTPTR	560	
CIRCAPU_XFLAGS1	559	
CIRCAPU_XLASTING_YES	565	40
CIRCAPU_XMASK	565	

Table 63. Cross Reference for $CIRWORK (continued)

Name	Offset	Hex Tag
CIRCAPU_XMSIFREE_YES	565	80
CIRCAPU_XRESERVED1	55A	
CIRCAPU_XRESERVED2	564	
CIRCAPU_XRESERVED3	568	
CIRCAPU_XUCBPTR	55C	
CIRCAPU_XVERSION	558	
CIRCAPUL	568	20
CIRCHFES	780	
CIRCHIUS	6D2	8
CIRCKPT1	6F0	
CIRCKPT2	738	
CIRCKPVR	144	
CIRCKVER	59E	40
CIRCKVTM	59E	20
CIRCKVWR	59E	80
CIRCLGSZ	6D1	8
CIRCLREC	59C	
CIRCMDTB	2E8	
CIRCMSTR	558	
CIRCMTSV	278	0
CIRCNECT	398	
CIRCONDS	6E4	
CIRCOUNT	598	
CIRCSRET	5D0	
CIRCTASI	6C4	
CIRCTBLN	6C0	
CIRCTBUF	6B8	
CIRCTEND	594	
CIRCTENT	590	
CIRCTLST	5A0	
CIRCTLST_DEFINE	5A4	1
CIRCTLST_DELETE	5A4	2
CIRCTLST_KEYUSED_BUFDFLT	5C2	8
CIRCTLST_KEYUSED_BUFMAX	5C2	10
CIRCTLST_KEYUSED_BUFMIN	5C2	20
CIRCTLST_KEYUSED_IFNOSUBS	5C2	1
CIRCTLST_KEYUSED_MINOPS	5C0	10
CIRCTLST_KEYUSED_PARM	5C2	40
CIRCTLST_KEYUSED_SSRC	5C2	4
CIRCTLST_KEYUSED_SSRSNC	5C2	2
CIRCTLST_KEYUSED_SUB	5C2	80
CIRCTLST_KEYUSED_USERDATA	5C3	80
CIRCTLST_PL_END	600	604
CIRCTLST_XASIDS_YES	5C0	80
CIRCTLST_XBUFDEFIN_YES	5C0	4
CIRCTLST_XBUFDFLT	5E8	
CIRCTLST_XBUFFER_YES	5C0	40
CIRCTLST_XBUFMAX	5E4	
CIRCTLST_XBUFMIN	5E0	

Table 63. Cross Reference for $CIRWORK (continued)

Name	Offset	Hex Tag
CIRCTLST_XFLG1	5C0	
CIRCTLST_XFLG2	5C1	
CIRCTLST_XFLG3	5C2	
CIRCTLST_XFLG4	5C3	
CIRCTLST_XFMTTAB	5B8	
CIRCTLST_XHEAD_YES	5C1	40
CIRCTLST_XHEADOPTS_YES	5C1	20
CIRCTLST_XJOBS_YES	5C0	20
CIRCTLST_XLIKEHEAD_YES	5C1	80
CIRCTLST_XLNKPARM	5C4	
CIRCTLST_XMANYSUBS_YES	5C1	10
CIRCTLST_XMINOPS_ADDR	5C8	
CIRCTLST_XMINOPS_LEN	5CC	
CIRCTLST_XMNFMSG_NO	5C0	1
CIRCTLST_XMOD_YES	5C0	8
CIRCTLST_XNAME	5A8	
CIRCTLST_XPARM	5F4	
CIRCTLST_XRSV0000	5A1	
CIRCTLST_XRVS0002	5DE	
CIRCTLST_XRVS0003	5F2	
CIRCTLST_XSERVICE	5A4	
CIRCTLST_XSSRC	5FC	
CIRCTLST_XSSRSNC	600	
CIRCTLST_XSTARTNAM	5B0	
CIRCTLST_XSUB_ADDR	5EC	
CIRCTLST_XSUB_LEN	5F0	
CIRCTLST_XUSERDATA	5CE	
CIRCTLST_XVERSION	5A0	
CIRCTLST_XWTR_YES	5C0	2
CIRCTLST_XWTRMODE_DREF	5C1	4
CIRCTLST_XWTRMODE_FIXED	5C1	2
CIRCTLST_XWTRMODE_PAGEABLE	5C1	8
CIRCTLSTL	600	64
CIRCTNAM	6C8	
CIRCTUSR	6B8	
CIRCURDS	584	
CIRCURRC	558	
CIRDOMID	394	
CIRDONFW	6D2	20
CIRDWORK	150	0
CIRDYNEX	560	
CIRDYNEX_KEYUSED_CALLSTOPRC	562	80
CIRDYNEX_KEYUSED_KEEPRC	562	20
CIRDYNEX_KEYUSED_PRECALLADDR	59E	80
CIRDYNEX_KEYUSED_RCFROM	562	40
CIRDYNEX_KEYUSED_SERVICEID	59E	2
CIRDYNEX_KEYUSED_SERVICEMASK	5C8	80
CIRDYNEX_KEYUSED_SERVICEMASKM	5C8	80
CIRDYNEX_KEYUSED_SERVICEMASKR	5C8	80

Table 63. Cross Reference for $CIRWORK (continued)

Name	Offset	Hex Tag
CIRDYNEX_KEYUSED_STOKEN	568	1
CIRDYNEX_PL_END	5A4	5D0
CIRDYNEX_XABENDCONSEC_YES	568	4
CIRDYNEX_XABENDNUM	58C	
CIRDYNEX_XADDABENDNUM	58C	
CIRDYNEX_XADDRSPACE_ANY	59E	4
CIRDYNEX_XAMODE	563	
CIRDYNEX_XAMODE_DEFINED	563	2
CIRDYNEX_XAMODE_24	563	1
CIRDYNEX_XAMODE_31	563	0
CIRDYNEX_XAMRFLAGS	5C8	
CIRDYNEX_XAMRFLAGSM	5C8	
CIRDYNEX_XAMRFLAGSR	5C8	
CIRDYNEX_XANSAREA_ADDR	5A4	
CIRDYNEX_XANSAREA_ALET	5A8	
CIRDYNEX_XANSLEN	5AC	
CIRDYNEX_XANYKEY_YES	568	8
CIRDYNEX_XCALLSTOPRC	5A0	
CIRDYNEX_XCMDINFO_ADDR	588	
CIRDYNEX_XDELETEFORCE_YES	568	40
CIRDYNEX_XDISABLEDCALL_OK	5C8	40
CIRDYNEX_XDSNAME_ADDR	5A4	
CIRDYNEX_XDSNAME_ALET	5A8	
CIRDYNEX_XEXAAVER	56B	
CIRDYNEX_XEXAAVER_0	56B	0
CIRDYNEX_XEXAAVER_1	56B	1
CIRDYNEX_XEXAAVER_2	56B	2
CIRDYNEX_XEXAAVER_3	56B	3
CIRDYNEX_XEXITNAME	570	
CIRDYNEX_XEXITTYPE_INSTALLATION	59E	40
CIRDYNEX_XEXITTYPE_NOTPROGRAM	59E	10
CIRDYNEX_XEXITTYPE_PROGRAM	59E	20
CIRDYNEX_XEXRETVER	59F	
CIRDYNEX_XEXRETVER_0	59F	0
CIRDYNEX_XEXRETVER_1	59F	1
CIRDYNEX_XFASTPATH_YES	562	10
CIRDYNEX_XFLAGS	562	
CIRDYNEX_XFLAGS2	568	
CIRDYNEX_XFLAGS2DF	568	
CIRDYNEX_XFLAGS3	569	
CIRDYNEX_XFLAGS4	59E	
CIRDYNEX_XFORCE_YES	568	40
CIRDYNEX_XJOBNAME	5AC	
CIRDYNEX_XKEEPRC	598	
CIRDYNEX_XKEEPRCCOMP	59C	
CIRDYNEX_XKEEPRCCOMP_EQ	59C	0
CIRDYNEX_XKEEPRCCOMP_GE	59C	4
CIRDYNEX_XKEEPRCCOMP_GT	59C	2
CIRDYNEX_XKEEPRCCOMP_LE	59C	5

Table 63. Cross Reference for $CIRWORK (continued)

Name	Offset	Hex Tag
CIRDYNEX_XKEEPRCCOMP_LT	59C	3
CIRDYNEX_XKEEPRCCOMP_NE	59C	1
CIRDYNEX_XKEEPRCCVAL	59C	
CIRDYNEX_XKEY	564	
CIRDYNEX_XLINKSTACKOK_NO	568	2
CIRDYNEX_XLOADAPF_YES	59E	1
CIRDYNEX_XLOCAL_YES	569	4
CIRDYNEX_XMESSAGE_ERROR	562	4
CIRDYNEX_XMESSAGE_FOUNDBUTERROR	59E	8
CIRDYNEX_XMODADDR	5B4	
CIRDYNEX_XMODNAME	580	
CIRDYNEX_XNEXTTOKEN	5BC	
CIRDYNEX_XONEMODULE_YES	568	80
CIRDYNEX_XPARAM	5B8	
CIRDYNEX_XPERSIST_ADDRESSSPACE	568	20
CIRDYNEX_XPERSIST_IPL	568	10
CIRDYNEX_XPERSIST_JOBSTEPTASK	569	2
CIRDYNEX_XPOS	56A	
CIRDYNEX_XPOS_FIRST	56A	2
CIRDYNEX_XPOS_LAST	56A	1
CIRDYNEX_XPOS_SYSTEM	56A	0
CIRDYNEX_XPRECALLADDR	5A4	
CIRDYNEX_XPRECALLWA_ADDR	5C8	
CIRDYNEX_XQTYPE_ADD	569	8
CIRDYNEX_XRCCOMPARE	59D	
CIRDYNEX_XRCCOMPARE_EQ	59D	0
CIRDYNEX_XRCCOMPARE_GE	59D	4
CIRDYNEX_XRCCOMPARE_GT	59D	2
CIRDYNEX_XRCCOMPARE_LE	59D	5
CIRDYNEX_XRCCOMPARE_LT	59D	3
CIRDYNEX_XRCCOMPARE_NE	59D	1
CIRDYNEX_XRCCVAL	59D	
CIRDYNEX_XRCFROM	594	
CIRDYNEX_XRCTO	590	
CIRDYNEX_XREENTRANT_REQ	562	8
CIRDYNEX_XREQUEST	561	
CIRDYNEX_XREQUEST_ACTIVATE	561	A
CIRDYNEX_XREQUEST_ADD	561	1
CIRDYNEX_XREQUEST_ATTRIB	561	5
CIRDYNEX_XREQUEST_CALL	561	7
CIRDYNEX_XREQUEST_DEFINE	561	0
CIRDYNEX_XREQUEST_DELETE	561	3
CIRDYNEX_XREQUEST_LIST	561	6
CIRDYNEX_XREQUEST_MODIFY	561	2
CIRDYNEX_XREQUEST_PROCESSDP	561	9
CIRDYNEX_XREQUEST_QUERY	561	B
CIRDYNEX_XREQUEST_RECOVER	561	8
CIRDYNEX_XREQUEST_REPLACE	561	C
CIRDYNEX_XREQUEST_UNDEFINE	561	4

Table 63. Cross Reference for $CIRWORK (continued)

Name	Offset	Hex Tag
CIRDYNEX_XRETAREA_ADDR	5A8	
CIRDYNEX_XRETAREA_ALET	5AC	
CIRDYNEX_XRETINFO_ALL	569	20
CIRDYNEX_XRETINFO_HIGHEST	569	80
CIRDYNEX_XRETINFO_LAST	569	10
CIRDYNEX_XRETINFO_LOWEST	569	40
CIRDYNEX_XRETLEN	5B0	
CIRDYNEX_XRSVNNNN	5A4	
CIRDYNEX_XRSV0002	56C	
CIRDYNEX_XRSV0003	5C9	
CIRDYNEX_XRUB_ADDR	5B4	
CIRDYNEX_XRUB_ALET	5B8	
CIRDYNEX_XSDWA_ADDR	5C4	
CIRDYNEX_XSERVICEMASK	5C0	
CIRDYNEX_XSERVICEMASKM	5C0	
CIRDYNEX_XSERVICEMASKR	5C0	
CIRDYNEX_XSTATE_ACTIVE	562	2
CIRDYNEX_XSTATE_INACTIVE	562	1
CIRDYNEX_XSTOKEN	5AC	
CIRDYNEX_XVERSION	560	
CIRDYNEX_XWILDCARDSTAR_NO	569	1
CIRDYNEX_XWORKAREA_ADDR	5A4	
CIRDYNEXL	5D0	70
CIRECB	15C	0
CIRECBA1	818	
CIRECBA2	81C	
CIRECBLS	818	
CIRECB1	820	
CIRECB2	824	
CIRETDEF	558	
CIREXDYN	5F8	
CIREXDYN_KEYUSED_CALLSTOPRC	5FA	80
CIREXDYN_KEYUSED_KEEPRC	5FA	20
CIREXDYN_KEYUSED_PRECALLADDR	636	80
CIREXDYN_KEYUSED_RCFROM	5FA	40
CIREXDYN_KEYUSED_SERVICEID	636	2
CIREXDYN_KEYUSED_SERVICEMASK	660	80
CIREXDYN_KEYUSED_SERVICEMASKM	660	80
CIREXDYN_KEYUSED_SERVICEMASKR	660	80
CIREXDYN_KEYUSED_STOKEN	600	1
CIREXDYN_PL_END	63C	668
CIREXDYN_XABENDCONSEC_YES	600	4
CIREXDYN_XABENDNUM	624	
CIREXDYN_XADDABENDNUM	624	
CIREXDYN_XADDRSPACE_ANY	636	4
CIREXDYN_XAMODE	5FB	
CIREXDYN_XAMODE_DEFINED	5FB	2
CIREXDYN_XAMODE_24	5FB	1
CIREXDYN_XAMODE_31	5FB	0

Table 63. Cross Reference for $CIRWORK (continued)

Name	Offset	Hex Tag
CIREXDYN_XAMRFLAGS	660	
CIREXDYN_XAMRFLAGSM	660	
CIREXDYN_XAMRFLAGSR	660	
CIREXDYN_XANSAREA_ADDR	63C	
CIREXDYN_XANSAREA_ALET	640	
CIREXDYN_XANSLEN	644	
CIREXDYN_XANYKEY_YES	600	8
CIREXDYN_XCALLSTOPRC	638	
CIREXDYN_XCMDINFO_ADDR	620	
CIREXDYN_XDELETEFORCE_YES	600	40
CIREXDYN_XDISABLEDCALL_OK	660	40
CIREXDYN_XDSNAME_ADDR	63C	
CIREXDYN_XDSNAME_ALET	640	
CIREXDYN_XEXAAVER	603	
CIREXDYN_XEXAAVER_0	603	0
CIREXDYN_XEXAAVER_1	603	1
CIREXDYN_XEXAAVER_2	603	2
CIREXDYN_XEXAAVER_3	603	3
CIREXDYN_XEXITNAME	608	
CIREXDYN_XEXITTYPE_INSTALLATION	636	40
CIREXDYN_XEXITTYPE_NOTPROGRAM	636	10
CIREXDYN_XEXITTYPE_PROGRAM	636	20
CIREXDYN_XEXRETVER	637	
CIREXDYN_XEXRETVER_0	637	0
CIREXDYN_XEXRETVER_1	637	1
CIREXDYN_XFASTPATH_YES	5FA	10
CIREXDYN_XFLAGS	5FA	
CIREXDYN_XFLAGS2	600	
CIREXDYN_XFLAGS2DF	600	
CIREXDYN_XFLAGS3	601	
CIREXDYN_XFLAGS4	636	
CIREXDYN_XFORCE_YES	600	40
CIREXDYN_XJOBNAME	644	
CIREXDYN_XKEEPRC	630	
CIREXDYN_XKEEPRCCOMP	634	
CIREXDYN_XKEEPRCCOMP_EQ	634	0
CIREXDYN_XKEEPRCCOMP_GE	634	4
CIREXDYN_XKEEPRCCOMP_GT	634	2
CIREXDYN_XKEEPRCCOMP_LE	634	5
CIREXDYN_XKEEPRCCOMP_LT	634	3
CIREXDYN_XKEEPRCCOMP_NE	634	1
CIREXDYN_XKEEPRCCVAL	634	
CIREXDYN_XKEY	5FC	
CIREXDYN_XLINKSTACKOK_NO	600	2
CIREXDYN_XLOADAPF_YES	636	1
CIREXDYN_XLOCAL_YES	601	4
CIREXDYN_XMESSAGE_ERROR	5FA	4
CIREXDYN_XMESSAGE_FOUNDBUTERROR	636	8
CIREXDYN_XMODADDR	64C	

Table 63. Cross Reference for $CIRWORK (continued)

Name	Offset	Hex Tag
CIREXDYN_XMODNAME	618	
CIREXDYN_XNEXTTOKEN	654	
CIREXDYN_XONEMODULE_YES	600	80
CIREXDYN_XPARAM	650	
CIREXDYN_XPERSIST_ADDRESSSPACE	600	20
CIREXDYN_XPERSIST_IPL	600	10
CIREXDYN_XPERSIST_JOBSTEPTASK	601	2
CIREXDYN_XPOS	602	
CIREXDYN_XPOS_FIRST	602	2
CIREXDYN_XPOS_LAST	602	1
CIREXDYN_XPOS_SYSTEM	602	0
CIREXDYN_XPRECALLADDR	63C	
CIREXDYN_XPRECALLWA_ADDR	660	
CIREXDYN_XQTYPE_ADD	601	8
CIREXDYN_XRCCOMPARE	635	
CIREXDYN_XRCCOMPARE_EQ	635	0
CIREXDYN_XRCCOMPARE_GE	635	4
CIREXDYN_XRCCOMPARE_GT	635	2
CIREXDYN_XRCCOMPARE_LE	635	5
CIREXDYN_XRCCOMPARE_LT	635	3
CIREXDYN_XRCCOMPARE_NE	635	1
CIREXDYN_XRCCVAL	635	
CIREXDYN_XRCFROM	62C	
CIREXDYN_XRCTO	628	
CIREXDYN_XREENTRANT_REQ	5FA	8
CIREXDYN_XREQUEST	5F9	
CIREXDYN_XREQUEST_ACTIVATE	5F9	A
CIREXDYN_XREQUEST_ADD	5F9	1
CIREXDYN_XREQUEST_ATTRIB	5F9	5
CIREXDYN_XREQUEST_CALL	5F9	7
CIREXDYN_XREQUEST_DEFINE	5F9	0
CIREXDYN_XREQUEST_DELETE	5F9	3
CIREXDYN_XREQUEST_LIST	5F9	6
CIREXDYN_XREQUEST_MODIFY	5F9	2
CIREXDYN_XREQUEST_PROCESSDP	5F9	9
CIREXDYN_XREQUEST_QUERY	5F9	B
CIREXDYN_XREQUEST_RECOVER	5F9	8
CIREXDYN_XREQUEST_REPLACE	5F9	C
CIREXDYN_XREQUEST_UNDEFINE	5F9	4
CIREXDYN_XRETAREA_ADDR	640	
CIREXDYN_XRETAREA_ALET	644	
CIREXDYN_XRETINFO_ALL	601	20
CIREXDYN_XRETINFO_HIGHEST	601	80
CIREXDYN_XRETINFO_LAST	601	10
CIREXDYN_XRETINFO_LOWEST	601	40
CIREXDYN_XRETLEN	648	
CIREXDYN_XRSVNNNN	63C	
CIREXDYN_XRSV0002	604	
CIREXDYN_XRSV0003	661	

Table 63. Cross Reference for $CIRWORK (continued)

Name	Offset	Hex Tag
CIREXDYN_XRUB_ADDR	64C	
CIREXDYN_XRUB_ALET	650	
CIREXDYN_XSDWA_ADDR	65C	
CIREXDYN_XSERVICEMASK	658	
CIREXDYN_XSERVICEMASKM	658	
CIREXDYN_XSERVICEMASKR	658	
CIREXDYN_XSTATE_ACTIVE	5FA	2
CIREXDYN_XSTATE_INACTIVE	5FA	1
CIREXDYN_XSTOKEN	644	
CIREXDYN_XVERSION	5F8	
CIREXDYN_XWILDCARDSTAR_NO	601	1
CIREXDYN_XWORKAREA_ADDR	63C	
CIREXDYNL	668	70
CIREXIT0	164	
CIREXPRF	6D1	40
CIRFFWD	6D2	10
CIRFLAGV	5BC	
CIRFLAG1	140	0
CIRFLAG2	141	0
CIRFLAG3	142	
CIRFLAG4	143	0
CIRFLAG5	282	0
CIRFLAG6	283	0
CIRFPLN	680	
CIRFPTX	660	
CIRFV$DS	5BC	80
CIRFVIAR	5BC	40
CIRFVNBL	5BC	20
CIRFVNFD	5BC	10
CIRFVNSH	5BC	8
CIRFVRC	5BC	4
CIRFVRS	5BC	2
CIRFWCNT	6EC	
CIRFWDDS	6D2	40
CIRF1CAN	140	4
CIRF1CI	140	20
CIRF1HPI	140	80
CIRF1INC	140	40
CIRF1PER	140	8
CIRF1SER	140	1
CIRF1SSW	140	2
CIRF1XI	140	10
CIRF2CM	141	10
CIRF2CMA	141	2
CIRF2CMT	141	1
CIRF2ECM	141	8
CIRF2HPO	141	20
CIRF2JEX	141	80
CIRF2RRD	141	40

Table 63. Cross Reference for $CIRWORK (continued)

Name	Offset	Hex Tag
CIRF2SSE	141	4
CIRF3BDV	142	10
CIRF3ERR	142	F
CIRF3IO1	142	8
CIRF3IO2	142	4
CIRF3I1V	142	9
CIRF3I12	142	C
CIRF3LOG	142	40
CIRF3LST	142	80
CIRF3MID	142	20
CIRF3VE1	142	2
CIRF3VE2	142	1
CIRF3V1I	142	6
CIRF3V12	142	3
CIRF4CHD	143	2
CIRF4CHM	143	4
CIRF4ILL	143	80
CIRF4RER	143	8
CIRF4RES	143	10
CIRF4RTE	143	1
CIRF4SCN	143	20
CIRF4XER	143	40
CIRGEMR	288	39
CIRGWORK	558	
CIRGW1LN	868	358
CIRGW2LN	0	1E4
CIRGW3LN	558	0
CIRGW4LN	0	324
CIRGW5LN	0	20
CIRGW6LN	681	12C
CIRGW7LN	558	78
CIRGW8LN	5C8	78
CIRGW9LN	0	78
CIRHCT	158	
CIRIARV	608	
CIRIARV_KEYUSED_CONVERTSIZE64	60C	4
CIRIARV_KEYUSED_CONVERTSTART	60C	10
CIRIARV_KEYUSED_DUMP	683	80
CIRIARV_KEYUSED_GUARDSIZE64	60C	8
CIRIARV_KEYUSED_KEY	60C	80
CIRIARV_KEYUSED_MOTKN	60C	2
CIRIARV_KEYUSED_OPTIONVALUE	683	40
CIRIARV_KEYUSED_OWNERJOBNAME	60C	1
CIRIARV_KEYUSED_SVCDUMPRGN	683	20
CIRIARV_KEYUSED_TTOKEN	60C	20
CIRIARV_KEYUSED_UNITS	6B0	80
CIRIARV_KEYUSED_USERTKN	60C	40
CIRIARV_PL_END	6B1	6B8
CIRIARV_XAFFINITY_SYSTEM	60E	40

Table 63. Cross Reference for $CIRWORK (continued)

Name	Offset	Hex Tag
CIRIARV_XALETVALUE	650	
CIRIARV_XAMOUNTSIZE_1MEG	682	2
CIRIARV_XAMOUNTSIZE_4K	682	4
CIRIARV_XATTRIBUTE_DEFS	683	10
CIRIARV_XATTRIBUTE_NOTOWNERGONE	683	4
CIRIARV_XATTRIBUTE_OWNERGONE	683	8
CIRIARV_XCHANGEACCESS_GLOBAL	60D	8
CIRIARV_XCLEAR_NO	60F	40
CIRIARV_XCOND_YES	60D	80
CIRIARV_XCONTROL_AUTH	60D	20
CIRIARV_XCONVERT_FROMGUARD	60F	2
CIRIARV_XCONVERT_TOGUARD	60F	4
CIRIARV_XCONVERTSIZE	64C	
CIRIARV_XCONVERTSIZE64	668	
CIRIARV_XCONVERTSTART	660	
CIRIARV_XDETACHFIXED_YES	682	20
CIRIARV_XDMAPAGETABLE	6A0	
CIRIARV_XDOAUTHCHECKS_YES	682	10
CIRIARV_XDUMP	684	
CIRIARV_XDUMP_ALL	684	FF
CIRIARV_XDUMP_LIKECSA	684	3
CIRIARV_XDUMP_LIKELSQA	684	21
CIRIARV_XDUMP_LIKERGN	684	20
CIRIARV_XDUMP_LIKESQA	684	2
CIRIARV_XDUMP_NO	684	1
CIRIARV_XDUMP_NONE	684	0
CIRIARV_XDUMPPRIORITY	680	
CIRIARV_XDUMPPROTOCOL_YES	681	80
CIRIARV_XFLAGS0	60A	
CIRIARV_XFLAGS1	60C	
CIRIARV_XFLAGS2	60D	
CIRIARV_XFLAGS3	60E	
CIRIARV_XFLAGS4	60F	
CIRIARV_XFLAGS5	681	
CIRIARV_XFLAGS6	682	
CIRIARV_XFLAGS7	683	
CIRIARV_XFLAGS8	685	
CIRIARV_XFLAGS9	6B0	
CIRIARV_XFPROT_NO	60D	40
CIRIARV_XGUARDLOC_HIGH	60D	10
CIRIARV_XGUARDSIZE	648	
CIRIARV_XGUARDSIZE64	670	
CIRIARV_XKEEPREAL_NO	60F	1
CIRIARV_XKEY	60B	
CIRIARV_XLOCALSYSAREA_YES	682	8
CIRIARV_XLONG_NO	60F	80
CIRIARV_XMATCH_MOTOKEN	60A	20
CIRIARV_XMATCH_USERTOKEN	60E	80
CIRIARV_XMEMLIMIT_COND	682	1

Table 63. Cross Reference for $CIRWORK (continued)

Name	Offset	Hex Tag
CIRIARV_XMEMLIMIT_NO	682	40
CIRIARV_XMEMOBJSTART	640	
CIRIARV_XMOTKN	628	
CIRIARV_XMOTKNCREATOR_SYSTEM	60A	40
CIRIARV_XMOTKNSOURCE_SYSTEM	60A	80
CIRIARV_XNUMRANGE	654	
CIRIARV_XOPTIONVALUE	688	
CIRIARV_XORDER_DUMPPRIORITY	681	40
CIRIARV_XORIGIN	630	
CIRIARV_XOUTMOTKN	628	
CIRIARV_XOWNER_NO	60E	10
CIRIARV_XOWNERASID	686	
CIRIARV_XOWNERCOM_BYASID	681	1
CIRIARV_XOWNERCOM_HOME	681	8
CIRIARV_XOWNERCOM_PRIMARY	681	4
CIRIARV_XOWNERCOM_SYSTEM	681	2
CIRIARV_XOWNERJOBNAME	691	
CIRIARV_XPAGEFRAMESIZE_ALL	60D	1
CIRIARV_XPAGEFRAMESIZE_DREF1MEG	0	40
CIRIARV_XPAGEFRAMESIZE_MAX	60D	2
CIRIARV_XPAGEFRAMESIZE_PAGEABLE1MEG	685	80
CIRIARV_XPAGEFRAMESIZE_1M	6B0	10
CIRIARV_XPAGEFRAMESIZE_1MEG	60D	4
CIRIARV_XPAGEFRAMESIZE_2G	6B0	8
CIRIARV_XRANGLIST	638	
CIRIARV_XREQUEST	609	
CIRIARV_XREQUEST_CHANGEACCESS	609	B
CIRIARV_XREQUEST_CHANGEGUARD	609	D
CIRIARV_XREQUEST_COUNTPAGES	609	10
CIRIARV_XREQUEST_DETACH	609	3
CIRIARV_XREQUEST_DISCARDDATA	609	7
CIRIARV_XREQUEST_GETCOMMON	609	F
CIRIARV_XREQUEST_GETSHARED	609	2
CIRIARV_XREQUEST_GETSTOR	609	1
CIRIARV_XREQUEST_LIST	609	E
CIRIARV_XREQUEST_PAGEFIX	609	4
CIRIARV_XREQUEST_PAGEIN	609	8
CIRIARV_XREQUEST_PAGEOUT	609	6
CIRIARV_XREQUEST_PAGEUNFIX	609	5
CIRIARV_XREQUEST_PCIEFIX	609	11
CIRIARV_XREQUEST_PCIEUNFIX	609	12
CIRIARV_XREQUEST_PROTECT	609	9
CIRIARV_XREQUEST_SHAREMEMOBJ	609	A
CIRIARV_XREQUEST_UNPROTECT	609	C
CIRIARV_XRSV0001	689	
CIRIARV_XRSV0004	699	
CIRIARV_XRSV0005	6B1	
CIRIARV_XSEGMENTS	610	
CIRIARV_XSVCDUMPRGN_ALL	60E	1

Table 63. Cross Reference for $CIRWORK (continued)

Name	Offset	Hex Tag
CIRIARV_XSVCDUMPRGN_NO	60E	4
CIRIARV_XTRACKINFO_YES	683	2
CIRIARV_XTTOKEN	618	
CIRIARV_XTYPE_DREF	681	10
CIRIARV_XTYPE_FIXED	6B0	4
CIRIARV_XTYPE_PAGEABLE	681	20
CIRIARV_XUNITS	6A8	
CIRIARV_XUNITSIZE_1M	6B0	40
CIRIARV_XUNITSIZE_2G	6B0	20
CIRIARV_XUNLOCKED_YES	683	1
CIRIARV_XUSERTKN	628	
CIRIARV_XUSERTOKEN	678	
CIRIARV_XUSE2GTO32G_YES	60E	20
CIRIARV_XVERSION	608	
CIRIARV_XVIEW_HIDDEN	60F	8
CIRIARV_XVIEW_READONLY	60F	20
CIRIARV_XVIEW_SHAREDWRITE	60F	10
CIRIARV_XV64COMMON_NO	682	80
CIRIARV_XV64LISTLENGTH	65C	
CIRIARV_XV64LISTPTR	658	
CIRIARV_XV64SELECT_NO	60E	8
CIRIARV_XV64SHARED_NO	60E	2
CIRIARVL	6B8	B0
CIRIDMEM	810	
CIRIDSNE	6E0	
CIRINFMR	288	3D
CIRINSSA	5F4	
CIRINSSL	5F8	
CIRIPRW	614	0
CIRIQNAM	39C	E2E8E2E9
CIRIRDAF	6D1	0
CIRIRDA1	6D2	0
CIRIRDA2	59E	0
CIRIRNAM	3A4	C9D5C9E3
CIRIRPL1	21A	0
CIRI416	6D2	2
CIRI460	6D2	4
CIRJBMAX	288	
CIRJBMIN	284	
CIRJNPRC	1DE	
CIRJOHI	1D6	FF0
CIRJOLOW	1D8	0
CIRJOPRC	1DC	
CIRJORAT	1D4	0
CIRJOTEC	6D1	2
CIRJOTES	6D0	
CIRJOTRB	6D1	1
CIRJOTV	6D1	3
CIRJQENC	568	

Table 63. Cross Reference for $CIRWORK (continued)

Name	Offset	Hex Tag
CIRJQENP	56C	
CIRJQHI	1D2	
CIRJQLOW	1D3	
CIRJQPRC	1DA	
CIRJQRAT	1D0	0
CIRLEN	8DC	8DC
CIRLFJQE	58C	
CIRLNENM	3AE	0
CIRLPARM	60C	
CIRLRCNT	610	
CIRMAXQT	6D1	20
CIRMSGIS	6D2	80
CIRMSTRS	578	
CIRMWORK	428	
CIRM500A	558	
CIRM791W	814	
CIRNDCHN	26C	0
CIRNDDOM	26C	10
CIRNDEYE	26C	0
CIRNDLAY	238	
CIRNDLEN	26C	14
CIRNDMSG	26C	C
CIRNDNXT	26C	4
CIRNDSTI	26C	8
CIRNFSSP	3C4	0
CIRNLLCC	570	
CIRNLLCT	216	1
CIRNLLL1	583	1E
CIRNLLNE	570	
CIRNLLSH	57E	
CIRNLLSN	583	
CIRNLLSR	571	
CIRNLLST	599	
CIRNLPCT	218	0
CIRNODAT	6D2	1
CIRNPLLG	228	
CIRNQMSG	234	
CIRNTCLF	3C8	0
CIRNTCLP	3CC	0
CIRNUMJR	3B4	0
CIRNUMJT	3B0	0
CIRNUMSR	3BC	0
CIRNUMST	3B8	0
CIRNXTOK	5C0	
CIRN3800	3C0	0
CIROPTA	38C	
CIROPTL	390	
CIROPTPF	168	
CIROPTS	16C	0

Table 63. Cross Reference for $CIRWORK (continued)

Name	Offset	Hex Tag
CIRPARMF	6D3	
CIRPARML	6D4	
CIRPARMS	6E8	6D3
CIRPARM1	6D4	
CIRPARM2	6D8	
CIRPARM3	6DC	
CIRPARM4	6E0	
CIRPARM5	6E4	
CIRPARM6	6E8	
CIRPDCT	23C	
CIRPDCT2	240	
CIRPLWRK	600	
CIRPRDCB	604	
CIRPREVC	560	
CIRPRMWR	608	
CIRP1AST	21A	80
CIRREPLY	148	0
CIRROPSL	29A	F0F0F0F0
CIRROPST	2B2	F0F0F0F0
CIRROPSU	2CA	F0F0F0F0
CIRRSV1	681	
CIRRUB	5AC	
CIRRUBRB	5B8	
CIRRUBRD	5BC	
CIRRUBR0	5B0	
CIRRUBR1	5B4	
CIRSCMLN	558	
CIRSCMSG	55A	
CIRSDLCT	21C	0
CIRSJEXP	560	
CIRSJLSP	558	
CIRSJPTR	55C	
CIRSNALC	2F8	0
CIRSPLF	570	
CIRSPLGE	6D1	10
CIRSPLL	574	
CIRSPT	30C	0
CIRSTIMC	25C	0
CIRSTIMS	244	0
CIRSTMCL	25C	10
CIRSTMSL	244	18
CIRSTMTA	5EC	
CIRSTMTC	214	0
CIRSTMTL	5F0	
CIRSTMTT	1EC	
CIRSTMTW	1E8	
CIRSWARN	5FC	
CIRSYMBP	1F0	0
CIRS99PT	56C	

Table 63. Cross Reference for $CIRWORK (continued)

Name	Offset	Hex Tag
CIRS99RB	558	
CIRTCPLC	2FC	0
CIRTDCTS	2F0	
CIRTGEDM	294	40202020
CIRTGPRC	1E0	
CIRTOTA	57C	
CIRTRANL	20C	0
CIRTRANR	210	0
CIRTSTOR	2EC	
CIRTVECT	580	
CIRUCBL	828	
CIRUCBL_KEYUSED_COMPID	842	8
CIRUCBL_KEYUSED_DEVN	842	80
CIRUCBL_KEYUSED_DEVNCHAR	842	40
CIRUCBL_KEYUSED_HELP	842	4
CIRUCBL_KEYUSED_LASTING	842	10
CIRUCBL_KEYUSED_LDEVNCHAR	843	20
CIRUCBL_KEYUSED_PIN	842	2
CIRUCBL_KEYUSED_PINPATHS	842	1
CIRUCBL_KEYUSED_SCHSET	843	10
CIRUCBL_KEYUSED_UCBCXPTR	843	80
CIRUCBL_KEYUSED_UCBPXPTR	843	40
CIRUCBL_KEYUSED_VOLSER	842	20
CIRUCBL_XCOMPID	83C	
CIRUCBL_XDEVCLASS	836	
CIRUCBL_XDEVCLASS_DASD	836	2
CIRUCBL_XDEVCLASS_DASDTAPE	836	0
CIRUCBL_XDEVCLASS_TAPE	836	1
CIRUCBL_XDEVN	82A	
CIRUCBL_XDEVNCHAR	82C	
CIRUCBL_XDYNAMIC_NO	841	40
CIRUCBL_XFLAGS	842	
CIRUCBL_XFLAGS2	843	
CIRUCBL_XHELP	854	
CIRUCBL_XIOCTOKEN_ADDR	85C	
CIRUCBL_XIOCTOKEN_ALET	860	
CIRUCBL_XLDEVNCHAR	874	
CIRUCBL_XLOC_ANY	841	10
CIRUCBL_XMASK	841	
CIRUCBL_XNONBASE_YES	841	80
CIRUCBL_XNOTFIND_YES	837	80
CIRUCBL_XPTOKEN	84C	
CIRUCBL_XRANGE_3DIGIT	841	20
CIRUCBL_XRESERVED1	879	
CIRUCBL_XRESERVED2	837	
CIRUCBL_XSCHSET	829	
CIRUCBL_XSPECIAL_YES	841	8
CIRUCBL_XTEXT_ADDR	844	
CIRUCBL_XTEXT_ALET	848	

Table 63. Cross Reference for $CIRWORK (continued)

Name	Offset	Hex Tag
CIRUCBL_XUCBCXPTR	86C	
CIRUCBL_XUCBPAREA_ADDR	864	
CIRUCBL_XUCBPAREA_ALET	868	
CIRUCBL_XUCBPTR	838	
CIRUCBL_XUCBPXPTR	870	
CIRUCBL_XUNBOUND_ALIAS_YES	841	1
CIRUCBL_XVERSION	828	
CIRUCBL_XVOLSER	830	
CIRUCBLL	879	54
CIRUCLK	6E8	
CIRUCLK_KEYUSED_COMPID	702	8
CIRUCLK_KEYUSED_DEVN	702	80
CIRUCLK_KEYUSED_DEVNCHAR	702	40
CIRUCLK_KEYUSED_HELP	702	4
CIRUCLK_KEYUSED_LASTING	702	10
CIRUCLK_KEYUSED_LDEVNCHAR	703	20
CIRUCLK_KEYUSED_PIN	702	2
CIRUCLK_KEYUSED_PINPATHS	702	1
CIRUCLK_KEYUSED_SCHSET	703	10
CIRUCLK_KEYUSED_UCBCXPTR	703	80
CIRUCLK_KEYUSED_UCBPXPTR	703	40
CIRUCLK_KEYUSED_VOLSER	702	20
CIRUCLK_XCOMPID	6FC	
CIRUCLK_XDEVCLASS	6F6	
CIRUCLK_XDEVCLASS_DASD	6F6	2
CIRUCLK_XDEVCLASS_DASDTAPE	6F6	0
CIRUCLK_XDEVCLASS_TAPE	6F6	1
CIRUCLK_XDEVN	6EA	
CIRUCLK_XDEVNCHAR	6EC	
CIRUCLK_XDYNAMIC_NO	701	40
CIRUCLK_XFLAGS	702	
CIRUCLK_XFLAGS2	703	
CIRUCLK_XHELP	714	
CIRUCLK_XIOCTOKEN_ADDR	71C	
CIRUCLK_XIOCTOKEN_ALET	720	
CIRUCLK_XLDEVNCHAR	734	
CIRUCLK_XLOC_ANY	701	10
CIRUCLK_XMASK	701	
CIRUCLK_XNONBASE_YES	701	80
CIRUCLK_XNOTFIND_YES	6F7	80
CIRUCLK_XPTOKEN	70C	
CIRUCLK_XRANGE_3DIGIT	701	20
CIRUCLK_XRESERVED1	739	
CIRUCLK_XRESERVED2	6F7	
CIRUCLK_XSCHSET	6E9	
CIRUCLK_XSPECIAL_YES	701	8
CIRUCLK_XTEXT_ADDR	704	
CIRUCLK_XTEXT_ALET	708	
CIRUCLK_XUCBCXPTR	72C	

Table 63. Cross Reference for $CIRWORK (continued)

Name	Offset	Hex Tag
CIRUCLK_XUCBPAREA_ADDR	724	
CIRUCLK_XUCBPAREA_ALET	728	
CIRUCLK_XUCBPTR	6F8	
CIRUCLK_XUCBPXPTR	730	
CIRUCLK_XUNBOUND_ALIAS_YES	701	1
CIRUCLK_XVERSION	6E8	
CIRUCLK_XVOLSER	6F0	
CIRUCLKL	739	54
CIRVOLTB	2E4	
CIRVRETC	5B4	
CIRVRL	598	
CIRVRLP	594	
CIRVRSNC	5B8	
CIRVSERV	588	
CIRVSERV_CHANGEACCESS	589	3
CIRVSERV_COPYNOW	58A	2
CIRVSERV_RETAIN_YES	58A	1
CIRVSERV_SHARE	589	1
CIRVSERV_SHARESEG	589	4
CIRVSERV_TARGET_VIEW_LS	58A	8
CIRVSERV_TARGET_VIEW_NA	58A	4
CIRVSERV_TARGET_VIEW_RO	58A	80
CIRVSERV_TARGET_VIEW_SW	58A	40
CIRVSERV_TARGET_VIEW_TW	58A	10
CIRVSERV_TARGET_VIEW_UW	58A	20
CIRVSERV_UNSHARE	589	2
CIRVSERV_XFLAGS1	58A	
CIRVSERV_XFLAGS2	58B	
CIRVSERV_XNUMRANGE	58C	
CIRVSERV_XPARTIALPAGE_YES	58B	80
CIRVSERV_XRANGLIST	590	
CIRVSERV_XSERVICE	589	
CIRVSERV_XVERSION	588	
CIRVSERVL	590	C
CIRWLEN	8DC	79C
CIRWMER	6D1	80
CIRWXIT0	160	
CIRXAREA	668	
CIRXEMN	288	3C
CIRXEMNM	288	48
CIRX0#RT	224	
CIRX0PS	38C	
CIRX0RNM	5C8	
CIRX0SAV	868	
CIRX0XRT	220	
CIRX19PS	5EC	
CIRZIP	300	
CIRZJPRC	1E4	
CIR5BRTE	282	2

Table 63. Cross Reference for $CIRWORK (continued)

Name	Offset	Hex Tag
CIR5DMEM	282	8
CIR5DSEQ	282	20
CIR5HPRM	282	10
CIR5IRDD	282	80
CIR5LPRM	282	4
CIR5QWIK	282	40
CIR5RRTE	282	1
CIR6CLSE	283	40
CIR6DERR	283	80
CIR6SKZL	283	20
M00M1092	0	5F8
M00M1094	0	6E8
M00M1095	0	5A0
M00M1096	0	608
M00M1097	0	828
M00M1098	0	558
M00M1102	0	588
M00M1103	0	560
NGDAS	0	
NGDASLEN	24	4C
NGDDATA	4	
NGDDSN	24	40404040
NGDEDONE	20	0
NGDEYE	0	
NGDFLAG1	3	
NGDFLAG2	A	
NGDHDR	3	4
NGDMAPSZ	18	
NGDMTCSZ	1C	
NGDNORTK	10	
NGDRBLDR	B	
NGDTGSIZ	1E	
NGDTKCYL	C	
NGDTRKRC	14	
NGDVOLID	4	
NGD1RBLD	3	80
NGD2CORR	A	20
NGD2TRKQ	A	80
NGD2WRKQ	A	40
PCE	0	

Chapter 26. $CIWORK Information

$CIWORK Heading Information

Common Name: C/I subtask work areas
Macro ID: $CIWORK
DSECT Name: CIWORK and CIWORKB
Owning Component: JES2 (SC1BH)
Eye-Catcher ID:
```
CIWORK          CIWORKB
Offset:  CIWID-CIWORK    CIWBID-CIWORKB
Length:  L'CIWID         L'CIWBID
```
Storage Attributes:
```
Subpool:   10
Key:       1
Residency: Private storage is in either the JES2 address space
or the JES2 CI address space.  The CIW is located in
31 bit virtual and 64 bit real storage.  The CIWB is
located in 24 bit virtual and 64 bit real (due to
requirments of DFSMS and the interpreter).
```

Size: See CIWLEN (31 bit) and CIWBLEN (24 bit)
Created by: HASPCNVS C/I subtask
Pointed to by:
```
DCNVCIW  field of the $DTECNV  data area
DCNVCIWB field of the $DTECNV  data area
```
Serialization: None required
Function:
```
This part maps two private data areas used by the JES2
converter interpreter subtasks.  The CIWB is the 24
bit storage work area that contains paramters to
services that must be in 24 bit storage.  The CIW
contains all the other work areas (in 31 bit storage).
```

$CIWORK mapping

Table 64. Structure CIWORK

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CIWORK	, JES2 C/I 31 bit work area
0	(0)	CHARACTER	8	CIWID	Eyecatcher
8	(8)	ADDRESS	1	CIWVER	CB version
8	(8)	X'1'	0	CIWVERN	"1" Current version number
9	(9)	BITSTRING	3		Reserved
12	(C)	ADDRESS	4	CIWDTE	Related DTE address
16	(10)	ADDRESS	4	CIWCIWB	Related CIWB address
20	(14)	ADDRESS	4		
MACDATE 12/25/13					
24	(18)	ADDRESS	4	CIWPOSTE	. 1ST WORD - ECB ADDRESS
28	(1C)	ADDRESS	4		. 2ND WORD - ASCB ADDRESS
32	(20)	ADDRESS	4		. 3RD WORD - ERRET ADDRESS
36	(24)	ADDRESS	4		. 4TH WORD - BYTE0,ECBKEY
36	(24)	X'18'	0	CIWPECB	"CIWPOSTE" Address of ECB
36	(24)	X'1C'	0	CIWPASCB	"CIWPOSTE+4,4,C'A'" ADDRESS OF HASP ASCB

Table 64. Structure CIWORK (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
36	(24)	X'24'	0	CIWPECBK	"CIWPOSTE+12,1" Storage key of HASP ECB
36	(24)	X'10'	0	CIWPSTLN	"*-CIWPOSTE" Length of POST MF=L
40	(28)	BITSTRING	1	CIWSTAT	Processor status byte
		1...		CIWSJCTV	"B'10000000'" Valid JCT read
		.1..		CIWSDST	"B'01000000'" Data set type - bit on -> SYSIN bit off -> SYSOUT
		..1.		CIWSCAS	"B'00100000'" Alternate system symbols must be captured
		...1		CIWSHOLD	"B'00010000'" Job is/to be held
		.... 1...		CIWSXSCH	"B'00001000'" Exit 6 altered SCHENV
41	(29)	BITSTRING	3	CIWFRSN(0)	Fake open failure info
See HASCDSOC for values					
41	(29)	BITSTRING	1	CIWDSKY	Data set failure occured on
42	(2A)	BITSTRING	1	CIWROUT	Routine that found error
43	(2B)	BITSTRING	1	CIWFAIL	Return code from routine
44	(2C)	ADDRESS	4	CIWADDR	Address of JCL converter
48	(30)	ADDRESS	4	CIWINTA	Address of JCL interpreter
52	(34)	ADDRESS	4	CIWSPLR	Address of SWA SPOOOLer
56	(38)	ADDRESS	4	CIWSJBP	Address of conversion task SJB
60	(3C)	ADDRESS	4	CIWACEE	Save area for ACEE pointer
64	(40)	ADDRESS	4	CIWJSCBO	Save area for old JSCB
68	(44)	ADDRESS	4	CIWJSCBN	Save area for new JSCB
72	(48)	ADDRESS	4	CIWCPTR	Pointer to converter's message buffer
76	(4C)	ADDRESS	4	CIWWAVE	Addr of the WAVE control block for $SEAS calls
80	(50)	ADDRESS	4	CIWDSRVA	Address of DSERV area
84	(54)	BITSTRING	4		Reserved
88	(58)	DBL WORD	8	CIWSTIME	CALLCI start time
96	(60)	DBL WORD	8	CIWSCPU	CALLCI start CPU
Work Area for date/time manipulation (see TIME, CONVTOD and STCKCONV macros)					
104	(68)	BITSTRING	16	CIWETOD	TOD value in STCKE format
120	(78)	BITSTRING	16	CIWTDVAL	Decimal time/date
MACDATE 02/15/04					
136	(88)	SIGNED	4	CIWTML(0)	
136	(88)	BITSTRING	28		
136	(88)	X'88'	0	CIWTIMEL	"CIWTML,*-CIWTML" Equate for list form
MACDATE 05/30/98					
136	(88)	SIGNED	4	CIWCTL(0)	
136	(88)	BITSTRING	32		
136	(88)	X'88'	0	CIWCONVL	"CIWCTL,*-CIWCTL" Equate for list form

Table 64. Structure CIWORK (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		XPL and parameter list for exits 6, 59, and 60. Field CIWPARM thru CIWCIWA make up the exit 6/60 paramater list for compatibility and should be kept together.			
168	(A8)	SIGNED	4	(0)	Ensure alignment
168	(A8)	BITSTRING	64	CIWXPL	Exit 6/59 work area
184	(B8)	SIGNED	4	CIWPARM(0)	Exit 6 parameter list
184	(B8)	ADDRESS	4	CIWUWAA	Addr of exit 6 user work area
188	(BC)	ADDRESS	4	CIWP2A	If R0=0 then internal text image address Else If R0=4 then converter return code address
192	(C0)	ADDRESS	4	CIWDTEA	Address of DTE
196	(C4)	ADDRESS	4	CIWJCTA	Address of JCT buffer
200	(C8)	ADDRESS	4	CIWCNMB	Address of converter message buffer
204	(CC)	ADDRESS	4	CIWCIWA	Address of C/I work area
208	(D0)	CHARACTER	8	CIWJCLS	Job class of job
216	(D8)	CHARACTER	16	CIWSCHE	Scheduling environment
232	(E8)	BITSTRING	20		Reserved
		Start of general work areas, cleared en mass at startup.			
252	(FC)	SIGNED	4	CIWCLR(0)	Start of work area cleared in converter sub-task initialization
252	(FC)	ADDRESS	4	CIWCATA	Address of CAT for job
256	(100)	CHARACTER	8	CIWJCLAS	JOBCLASS of job
264	(108)	CHARACTER	1	CIW1CLAS	1 character JOBCLASS of job
265	(109)	BITSTRING	3		Reserved
268	(10C)	CHARACTER	16	CIWJSCHE	Scheduling environment
284	(11C)	CHARACTER	16	CIWISCHE	Internal text SCHENV before exit 6/60 called
300	(12C)	CHARACTER	16	CIWISCRT	Work area for SCHENV
316	(13C)	ADDRESS	4	CIWJQAA	Address of JQA for job
320	(140)	BITSTRING	6	CIWJCTRK	MQTR of JCT
326	(146)	SIGNED	1	CIWJPRIO	JOBCLASS of job
327	(147)	ADDRESS	1		Reserved
328	(148)	SIGNED	4	CIWJKEY	Job key save area
332	(14C)	ADDRESS	4	CIWPAD	Addr of current(open) PAD
336	(150)	SIGNED	4	CIWPADL	and PAD data space ALET
340	(154)	BITSTRING	8	CIWPCRT	Open PAD create time
348	(15C)	ADDRESS	4	CIWPD00	Addr of PROC00 PAD
352	(160)	ADDRESS	4	CIWJPAD	Address of PAD for job
356	(164)	CHARACTER	144	CIWCNPR	Converter entry list
500	(1F4)	BITSTRING	32	CIWITSPP	SWA SPOOLer parm list
532	(214)	SIGNED	4	CIWSYMA(0)	System symbolics data area
532	(214)	CHARACTER	7	CIWSYM1	&SYSUID keyword
539	(21B)	CHARACTER	8	CIWSYMU	&SYSUID parameter value
548	(224)	SIGNED	2	CIWCOM	Console id for conversion
550	(226)	BITSTRING	1	CIWINTF1	Int text processing flag
		1...		CIWI1DSN	"B'10000000'" Valid DSN= on JES DD stmt
551	(227)	BITSTRING	1		Reserved

Table 64. Structure CIWORK (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
552	(228)	ADDRESS	4	CIWIOT	Address of allocation IOT
556	(22C)	ADDRESS	4	CIWIOT1	Addr of IOT containing last PDDB before 1st input stream PDDB
560	(230)	SIGNED	4	CIWPDB1	Offset of above CIWIOT1 PDDB
564	(234)	SIGNED	4	CIWLIND	Index value of last input stream data set processed
568	(238)	SIGNED	4	CIWISNR	Index value of current input stream data set
572	(23C)	ADDRESS	4	CIWIOTA	Input IOT for text exit
576	(240)	SIGNED	4	CIWPDBO	Offset of last input PDDB
580	(244)	ADDRESS	1	CIWUIDL	USERID length + value
580	(244)	X'245'	0	CIWUID	"CIWUIDL+1,8,C'C'" USERID for this job
589	(24D)	ADDRESS	1	CIWGRPL	GROUP length + value
589	(24D)	X'24E'	0	CIWGRP	"CIWGRPL+1,8,C'C'" GROUP for this job
598	(256)	ADDRESS	1	CIWPASL	PASSWORD length + value
598	(256)	X'257'	0	CIWPAS	"CIWPASL+1,8,C'C'" PASSWORD for this job
607	(25F)	ADDRESS	1	CIWNPASL	New PASSWORD len + value
607	(25F)	X'260'	0	CIWNPAS	"CIWNPASL+1,8,C'C'" New PASSWORD for this job
616	(268)	CHARACTER	1	CIWRD	Job card RD= parameter
617	(269)	BITSTRING	1	CIWFLG1	Serialized flag byte (Update using OIL/NIL only)
		.1..		CIW1CLR	"B'01000000'" CLOSE has been issued once for job in XCNVRTY
618	(26A)	SIGNED	2	CIWITDL	Length of internal text
620	(26C)	ADDRESS	4	CIWAR0	XRT @ for trace ID 13
624	(270)	SIGNED	4	CIWERC1	User exit return code 1
628	(274)	SIGNED	4	CIWERC2	User exit return code 2
632	(278)	SIGNED	4	CIWERC3	User exit return code 3
636	(27C)	BITSTRING	172	CIWESV1	CNVT exit save area 1
808	(328)	DBL WORD	8	(0)	
808	(328)	CHARACTER	200	CIWWORK	Message work area
808	(328)	X'328'	0	CIWETXT	"CIWWORK" End of text address
808	(328)	X'330'	0	CIWUDSN	"CIWWORK+8" User DSN address
808	(328)	X'334'	0	CIWITXT	"CIWWORK+12" Internal text address
808	(328)	X'338'	0	CIWIDSN	"CIWWORK+16" Internal text DSN address
808	(328)	X'33C'	0	CIWPDDB	"CIWWORK+20" SYSIN PDDB address
1008	(3F0)	BITSTRING	16	CIWUWA	Exit user work area
1024	(400)	BITSTRING	6	CIWJLOG	JES log control
CONVERSION EXIT LIST					
1032	(408)	SIGNED	4	CIWXLST(0)	Conversion exit list
1032	(408)	BITSTRING	1	CIWXLHD	Exit list header
Converter exit entries					
1040	(410)	BITSTRING	8	CIWXLTE	Internal text exit entry
1048	(418)	BITSTRING	8	CIWXOPN	SYSIN open exit
1056	(420)	BITSTRING	8	CIWXPUT	SYSIN put exit

Table 64. Structure CIWORK (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1064	(428)	BITSTRING	1	CIWXCLS	SYSIN close exit.
1064	(428)	X'20'	0	CIWXLEN	"*-CIWXLTE" Len of exit list entries
1072	(430)	DBL WORD	8	(0)	Alighnment
1072	(430)	BITSTRING	1	CIWSAVE2	Save area for SYSIN exits
	Work Area for SYSIN open exit				
1240	(4D8)	ADDRESS	4	CIWSPDDB	SYSIN PDDB address
1244	(4DC)	BITSTRING	1	CIWDEVTP	1st Byte of device type
1245	(4DD)	BITSTRING	3		Reserved
1248	(4E0)	ADDRESS	4	CIWIOTL	Address of last IOT
1252	(4E4)	SIGNED	2	CIWIOTCT	Instream IOT count
1254	(4E6)	SIGNED	2	CIWCDLRL	Card lrecl (always 80 for SYSIN exit)
1256	(4E8)	SIGNED	2	CIWDEFLR	Default LRECL (80)
1258	(4EA)	BITSTRING	1	CIWDEFRF	Default record format
1259	(4EB)	BITSTRING	1	CIWINFLG	Input flag value
1260	(4EC)	SIGNED	4	CIWDSKEY	Dataset key
1264	(4F0)	BITSTRING	1	CIWDELRS	Failure reason code
1265	(4F1)	BITSTRING	1	CIWPRLBE	PROCLIB failure reason
1265	(4F1)	X'1'	0	CIWEROPN	"1" Open failure
1265	(4F1)	X'2'	0	CIWERDEF	"2" Not defined
1265	(4F1)	X'3'	0	CIWERLRL	"3" LRECL not valid
1265	(4F1)	X'4'	0	CIWERBLK	"4" BLKSIZE not valid
1265	(4F1)	X'5'	0	CIWERBLC	"5" BLKSIZE/LRECL combo
1266	(4F2)	BITSTRING	6		Reserved
1272	(4F8)	CHARACTER	8	CIWPROCL	PROCLIB DD name for message
1280	(500)	DBL WORD	8	(0)	Force Dword alignment
1280	(500)	BITSTRING	48	CIWCRTSY	Parm block for HASPRDDS.
1328	(530)	BITSTRING	32	CIWOPNSP	Open SPOOL parm list
1360	(550)	BITSTRING	28	CIWPUTPL	JRWPUTPL for sysin dataset
1388	(56C)	ADDRESS	4	CIWSYTBL	Ptr to symbol table for converter use (see macro IEFSJSYD)
1392	(570)	SIGNED	4	CIWBLDM(0)	Control block ID
1396	(574)	BITSTRING	4		Console ID
1400	(578)	ADDRESS	4		Address of the CART
1404	(57C)	ADDRESS	4		Pointer for JOBID
1408	(580)	ADDRESS	4		Control block address
1412	(584)	ADDRESS	4		Display routine address
1416	(588)	ADDRESS	4	(6)	6 word work area
1440	(5A0)	ADDRESS	4		Caller's R11 value
1444	(5A4)	BITSTRING	2		ROUT code for Message
1446	(5A6)	BITSTRING	2		Not used
1448	(5A8)	CHARACTER	4		Message ID
1452	(5AC)	CHARACTER	1		Separator character
1453	(5AD)	ADDRESS	1		Flag byte 1
1454	(5AE)	ADDRESS	1		'DISPER'
1455	(5AF)	ADDRESS	1		Flag byte 2
1456	(5B0)	ADDRESS	1		Flag byte 3
1457	(5B1)	CHARACTER	8		Symbolic name of dest.
1465	(5B9)	BITSTRING	15		Not used
1480	(5C8)	ADDRESS	4	(0)	Ensure multiple of 4

Table 64. Structure CIWORK (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1480	(5C8)	ADDRESS	2	(0)	
	Work Area for Job Correlator				
1480	(5C8)	CHARACTER	1	CIWJCOR	PCEJQE Job Correlator
1480	(5C8)	X'50C'	0	CIWCLRL	"*-CIWCLR" END OF WORK AREA CLEARED IN CONVERTER SUBTASK INITIALIZATION
1480	(5C8)	X'608'	0	CIWLEN	"*-CIWORK" Length of work area

Table 65. Structure CIWORKB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CIWORKB	, JES2 C/I 24 bit work area
0	(0)	CHARACTER	8	CIWBID	Eyecatcher
8	(8)	ADDRESS	1	CIWBVER	CB version
8	(8)	X'1'	0	CIWBVERN	"1" Current version number
9	(9)	BITSTRING	3		Reserved
12	(C)	ADDRESS	4	CIWBDTE	Related DTE address
	Interpreter processing work areas				
16	(10)	BITSTRING	96	CIWBNEL	Interpreter parm list
112	(70)	BITSTRING	256	CIWBJICA	JES/Interpreter comm area
368	(170)	BITSTRING	168	CIWBSAV	24 bit save area
536	(218)	BITSTRING	36	CIWBQMPA	Queue mngr parm area
572	(23C)	BITSTRING	8	CIWBJDVT	JDVT name
580	(244)	SIGNED	4	CIWBDEBS(0)	Address of DEB's for ACB's
580	(244)	BITSTRING	32	CIWBDEBJ	DEB for JCL data set
612	(264)	BITSTRING	32	CIWBDEBI	DEB for JCL image data set
644	(284)	BITSTRING	32	CIWBDEBM	DEB for system msg data set
676	(2A4)	BITSTRING	32	CIWBDEBT	DEB for internal text data set
708	(2C4)	BITSTRING	32	CIWBDEBA	DEB for SWA blocks DS
740	(2E4)	BITSTRING	32	CIWBDEBE	DEB for EVENTLOG DS
772	(304)	BITSTRING	148	CIWBJMR	JMR work area
920	(398)	SIGNED	4	CIWBCL(0)	ALIGN LIST TO FULLWORD
920	(398)	ADDRESS	1		OPTION BYTE
921	(399)	ADDRESS	3		DCB OR ACB ADDRESS
921	(399)	X'398'	0	CIWBCLOS	"CIWBCL,*-CIWBCL"
924	(39C)	SIGNED	4	CIWBOP(0)	ALIGN LIST TO WORD
924	(39C)	ADDRESS	1		Option byte
925	(39D)	ADDRESS	3		DCB or ACB address
925	(39D)	X'39C'	0	CIWBOPEN	"CIWBOP,*-CIWBOP"
	DCB for PROCLIB, and ACBs for the JES datasets. CIWBPROC DCB for PROCLIB data set IWBPROC DCB DSORG=PO,MACRF=R,RECFM=FB,LRECL=80, DDNAME= ,EXLST= -				
928	(3A0)	SIGNED	4	(0)	CIWBPROC Origin DATA CONTROL BLOCK
928	(3A0)	SIGNED	4	CIWBPROC(0)	ORIGIN ON WORD BOUNDARY DIRECT ACCESS DEVICE INTERFACE
928	(3A0)	BITSTRING	16		FDAD, DVTBL
944	(3B0)	ADDRESS	4		KEYLEN, DEVT, TRBAL COMMON ACCESS METHOD INTERFACE

Table 65. Structure CIWORKB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
948	(3B4)	ADDRESS	1		BUFNO, NUMBER OF BUFFERS
949	(3B5)	ADDRESS	3		BUFCB, BUFFER POOL CONTROL BLOCK
952	(3B8)	ADDRESS	2		BUFL, BUFFER LENGTH
954	(3BA)	BITSTRING	2		DSORG, DATA SET ORGANIZATION
956	(3BC)	ADDRESS	4		IOBAD FOR EXCP OR RESERVED FOUNDATION EXTENSION
960	(3C0)	BITSTRING	1		BFTEK, BFALN, DCBE INDICATORS
961	(3C1)	ADDRESS	3		EODAD (END OF DATA ROUTINE ADDRESS)
964	(3C4)	BITSTRING	1		RECFM (RECORD FORMAT)
965	(3C5)	ADDRESS	3		EXLST (EXIT LIST ADDRESS) FOUNDATION BLOCK
968	(3C8)	CHARACTER	8		DDNAME
976	(3D0)	BITSTRING	1		OFLGS (OPEN FLAGS)
977	(3D1)	BITSTRING	1		IFLGS (IOS FLAGS)
978	(3D2)	BITSTRING	2		MACR (MACRO FORMAT) BSAM-BPAM-QSAM INTERFACE
980	(3D4)	BITSTRING	1		OPTCD, OPTION CODES
981	(3D5)	ADDRESS	3		CHECK OR INTERNAL QSAM SYNCHRONIZING RTN.
984	(3D8)	ADDRESS	4		SYNAD, SYNCHRONOUS ERROR RTN. (3 BYTES)
988	(3DC)	SIGNED	2		INTERNAL ACCESS METHOD FLAGS
990	(3DE)	ADDRESS	2		BLKSIZE, BLOCK SIZE
992	(3E0)	SIGNED	4		INTERNAL ACCESS METHOD FLAGS
996	(3E4)	ADDRESS	4		INTERNAL ACCESS METHOD USE BSAM-BPAM INTERFACE
1000	(3E8)	ADDRESS	1		NCP, MAX NUM OF OUTSTANDING READ/WRITES
1001	(3E9)	ADDRESS	3		EOBR, INTERNAL ACCESS METHOD USE
1004	(3EC)	ADDRESS	4		EOBW, INTERNAL ACCESS METHOD USE
1008	(3F0)	ADDRESS	1	(2)	FLAGS AND EITHER DIRCT OR BUFOFF
1010	(3F2)	ADDRESS	2		LRECL
1012	(3F4)	ADDRESS	4		CNTRL, NOTE, POINT
CIWBJCL ACB for JCL data set					
1016	(3F8)	SIGNED	4	(0)	CIWBJCL Origin
1016	(3F8)	SIGNED	4	CIWBJCL(0)	
1016	(3F8)	BITSTRING	1		. ACB IDENTIFICATION
1017	(3F9)	ADDRESS	1		ACB SUBTYPE X04SVHS
1018	(3FA)	ADDRESS	2		. ACB LENGTH X03004HS
1020	(3FC)	ADDRESS	4		. AMB LIST POINTER
1024	(400)	ADDRESS	4		. INTERFACE ROUTINE POINTER
1028	(404)	BITSTRING	1		MACRF(1) X04SVHS
1029	(405)	BITSTRING	1		MACRF(2) X04SVHS FOR NUMERIC IN PARENS
1030	(406)	ADDRESS	1		. NO OF CONCURRENT X04SVHS STRINGS FOR AIX PATH X04SVHS FOR NUMERIC IN PARENS
1031	(407)	ADDRESS	1		. NUMBER OF STRINGS X04SVHS FOR NUMERIC IN PARENS
1032	(408)	ADDRESS	2		. NUMBER OF DATA BUFFERS FOR NUMERIC IN PARENS

Table 65. Structure CIWORKB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1034	(40A)	ADDRESS	2		. NUMBER OF INDEX BUFFERS
1036	(40C)	BITSTRING	1		MACRF(3) X04SVHS FOR NUMERIC IN PARENS
1037	(40D)	ADDRESS	1		SHARED RESOURCE POOL ID
1038	(40E)	ADDRESS	2		. JES BUFFER POOL/NUMBER X04SVHS OF JOURNAL BUFFERS
1040	(410)	BITSTRING	1		. RECFM=A
1041	(411)	BITSTRING	1		READ INTEGRITY OPTIONS
1042	(412)	BITSTRING	2		. DSORG=ACB
1044	(414)	ADDRESS	4		X04SVHS
1048	(418)	ADDRESS	4		. PASSWORD POINTER
1052	(41C)	ADDRESS	4		. EXIT LIST POINTER
1056	(420)	CHARACTER	8		
1064	(428)	BITSTRING	1		OFLAGS
1065	(429)	ADDRESS	1		. ERFLAGS
1066	(42A)	BITSTRING	1		INFLGS(1) X04SVHS
1067	(42B)	BITSTRING	1		INFLGS(2) X04SVHS
1068	(42C)	ADDRESS	4		. OPENJ JFCB POINTER
1072	(430)	ADDRESS	4		BUFFER SPACE
1076	(434)	ADDRESS	2		. BLOCK SIZE
1078	(436)	ADDRESS	2		. RECORD SIZE
1080	(438)	ADDRESS	4		. USER WORKAREA POINTER
1084	(43C)	ADDRESS	4		CONTROL BLOCK MANIPULATION WORKAREA POINTER
1088	(440)	ADDRESS	4		. PTR TO APPLICATION NAME X03004
CIWBJCLI ACB for JCL images data set					
1092	(444)	SIGNED	4	(0)	CIWBJCLI origin
1092	(444)	SIGNED	4	CIWBJCLI(0)	
1092	(444)	BITSTRING	1		. ACB IDENTIFICATION
1093	(445)	ADDRESS	1		ACB SUBTYPE X04SVHS
1094	(446)	ADDRESS	2		. ACB LENGTH X03004HS
1096	(448)	ADDRESS	4		. AMB LIST POINTER
1100	(44C)	ADDRESS	4		. INTERFACE ROUTINE POINTER
1104	(450)	BITSTRING	1		MACRF(1) X04SVHS
1105	(451)	BITSTRING	1		MACRF(2) X04SVHS FOR NUMERIC IN PARENS
1106	(452)	ADDRESS	1		. NO OF CONCURRENT X04SVHS STRINGS FOR AIX PATH X04SVHS FOR NUMERIC IN PARENS
1107	(453)	ADDRESS	1		. NUMBER OF STRINGS X04SVHS FOR NUMERIC IN PARENS
1108	(454)	ADDRESS	2		. NUMBER OF DATA BUFFERS FOR NUMERIC IN PARENS
1110	(456)	ADDRESS	2		. NUMBER OF INDEX BUFFERS
1112	(458)	BITSTRING	1		MACRF(3) X04SVHS FOR NUMERIC IN PARENS
1113	(459)	ADDRESS	1		SHARED RESOURCE POOL ID
1114	(45A)	ADDRESS	2		. JES BUFFER POOL/NUMBER X04SVHS OF JOURNAL BUFFERS
1116	(45C)	BITSTRING	1		. RECFM=A
1117	(45D)	BITSTRING	1		READ INTEGRITY OPTIONS
1118	(45E)	BITSTRING	2		. DSORG=ACB

Table 65. Structure CIWORKB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1120	(460)	ADDRESS	4		X04SVHS
1124	(464)	ADDRESS	4		. PASSWORD POINTER
1128	(468)	ADDRESS	4		. EXIT LIST POINTER
1132	(46C)	CHARACTER	8		
1140	(474)	BITSTRING	1		OFLAGS
1141	(475)	ADDRESS	1		. ERFLAGS
1142	(476)	BITSTRING	1		INFLGS(1) X04SVHS
1143	(477)	BITSTRING	1		INFLGS(2) X04SVHS
1144	(478)	ADDRESS	4		. OPENJ JFCB POINTER
1148	(47C)	ADDRESS	4		BUFFER SPACE
1152	(480)	ADDRESS	2		. BLOCK SIZE
1154	(482)	ADDRESS	2		. RECORD SIZE
1156	(484)	ADDRESS	4		. USER WORKAREA POINTER
1160	(488)	ADDRESS	4		CONTROL BLOCK MANIPULATION WORKAREA POINTER
1164	(48C)	ADDRESS	4		. PTR TO APPLICATION NAME X03004
CIWBMSG ACB for system msgs data set					
1168	(490)	SIGNED	4	(0)	CIWBMSG Origin
1168	(490)	SIGNED	4	CIWBMSG(0)	
1168	(490)	BITSTRING	1		. ACB IDENTIFICATION
1169	(491)	ADDRESS	1		ACB SUBTYPE X04SVHS
1170	(492)	ADDRESS	2		. ACB LENGTH X03004HS
1172	(494)	ADDRESS	4		. AMB LIST POINTER
1176	(498)	ADDRESS	4		. INTERFACE ROUTINE POINTER
1180	(49C)	BITSTRING	1		MACRF(1) X04SVHS
1181	(49D)	BITSTRING	1		MACRF(2) X04SVHS FOR NUMERIC IN PARENS
1182	(49E)	ADDRESS	1		. NO OF CONCURRENT X04SVHS STRINGS FOR AIX PATH X04SVHS FOR NUMERIC IN PARENS
1183	(49F)	ADDRESS	1		. NUMBER OF STRINGS X04SVHS FOR NUMERIC IN PARENS
1184	(4A0)	ADDRESS	2		. NUMBER OF DATA BUFFERS FOR NUMERIC IN PARENS
1186	(4A2)	ADDRESS	2		. NUMBER OF INDEX BUFFERS
1188	(4A4)	BITSTRING	1		MACRF(3) X04SVHS FOR NUMERIC IN PARENS
1189	(4A5)	ADDRESS	1		SHARED RESOURCE POOL ID
1190	(4A6)	ADDRESS	2		. JES BUFFER POOL/NUMBER X04SVHS OF JOURNAL BUFFERS
1192	(4A8)	BITSTRING	1		. RECFM=A
1193	(4A9)	BITSTRING	1		READ INTEGRITY OPTIONS
1194	(4AA)	BITSTRING	2		. DSORG=ACB
1196	(4AC)	ADDRESS	4		X04SVHS
1200	(4B0)	ADDRESS	4		. PASSWORD POINTER
1204	(4B4)	ADDRESS	4		. EXIT LIST POINTER
1208	(4B8)	CHARACTER	8		
1216	(4C0)	BITSTRING	1		OFLAGS
1217	(4C1)	ADDRESS	1		. ERFLAGS
1218	(4C2)	BITSTRING	1		INFLGS(1) X04SVHS
1219	(4C3)	BITSTRING	1		INFLGS(2) X04SVHS
1220	(4C4)	ADDRESS	4		. OPENJ JFCB POINTER

Table 65. Structure CIWORKB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1224	(4C8)	ADDRESS	4		BUFFER SPACE
1228	(4CC)	ADDRESS	2		. BLOCK SIZE
1230	(4CE)	ADDRESS	2		. RECORD SIZE
1232	(4D0)	ADDRESS	4		. USER WORKAREA POINTER
1236	(4D4)	ADDRESS	4		CONTROL BLOCK MANIPULATION WORKAREA POINTER
1240	(4D8)	ADDRESS	4		. PTR TO APPLICATION NAME X03004
	CIWBTXT ACB for internal text data set				
1244	(4DC)	SIGNED	4	(0)	CIWBTXT Origin
1244	(4DC)	SIGNED	4	CIWBTXT(0)	
1244	(4DC)	BITSTRING	1		. ACB IDENTIFICATION
1245	(4DD)	ADDRESS	1		ACB SUBTYPE X04SVHS
1246	(4DE)	ADDRESS	2		. ACB LENGTH X03004HS
1248	(4E0)	ADDRESS	4		. AMB LIST POINTER
1252	(4E4)	ADDRESS	4		. INTERFACE ROUTINE POINTER
1256	(4E8)	BITSTRING	1		MACRF(1) X04SVHS
1257	(4E9)	BITSTRING	1		MACRF(2) X04SVHS FOR NUMERIC IN PARENS
1258	(4EA)	ADDRESS	1		. NO OF CONCURRENT X04SVHS STRINGS FOR AIX PATH X04SVHS FOR NUMERIC IN PARENS
1259	(4EB)	ADDRESS	1		. NUMBER OF STRINGS X04SVHS FOR NUMERIC IN PARENS
1260	(4EC)	ADDRESS	2		. NUMBER OF DATA BUFFERS FOR NUMERIC IN PARENS
1262	(4EE)	ADDRESS	2		. NUMBER OF INDEX BUFFERS
1264	(4F0)	BITSTRING	1		MACRF(3) X04SVHS FOR NUMERIC IN PARENS
1265	(4F1)	ADDRESS	1		SHARED RESOURCE POOL ID
1266	(4F2)	ADDRESS	2		. JES BUFFER POOL/NUMBER X04SVHS OF JOURNAL BUFFERS
1268	(4F4)	BITSTRING	1		. RECFM=A
1269	(4F5)	BITSTRING	1		READ INTEGRITY OPTIONS
1270	(4F6)	BITSTRING	2		. DSORG=ACB
1272	(4F8)	ADDRESS	4		X04SVHS
1276	(4FC)	ADDRESS	4		. PASSWORD POINTER
1280	(500)	ADDRESS	4		. EXIT LIST POINTER
1284	(504)	CHARACTER	8		
1292	(50C)	BITSTRING	1		OFLAGS
1293	(50D)	ADDRESS	1		. ERFLAGS
1294	(50E)	BITSTRING	1		INFLGS(1) X04SVHS
1295	(50F)	BITSTRING	1		INFLGS(2) X04SVHS
1296	(510)	ADDRESS	4		. OPENJ JFCB POINTER
1300	(514)	ADDRESS	4		BUFFER SPACE
1304	(518)	ADDRESS	2		. BLOCK SIZE
1306	(51A)	ADDRESS	2		. RECORD SIZE
1308	(51C)	ADDRESS	4		. USER WORKAREA POINTER
1312	(520)	ADDRESS	4		CONTROL BLOCK MANIPULATION WORKAREA POINTER
1316	(524)	ADDRESS	4		. PTR TO APPLICATION NAME X03004
	CIWBSWA ACB for SWA blocks data set				

Table 65. Structure CIWORKB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1320	(528)	SIGNED	4	(0)	CIWBSWA origin
1320	(528)	SIGNED	4	CIWBSWA(0)	
1320	(528)	BITSTRING	1		. ACB IDENTIFICATION
1321	(529)	ADDRESS	1		ACB SUBTYPE X04SVHS
1322	(52A)	ADDRESS	2		. ACB LENGTH X03004HS
1324	(52C)	ADDRESS	4		. AMB LIST POINTER
1328	(530)	ADDRESS	4		. INTERFACE ROUTINE POINTER
1332	(534)	BITSTRING	1		MACRF(1) X04SVHS
1333	(535)	BITSTRING	1		MACRF(2) X04SVHS FOR NUMERIC IN PARENS
1334	(536)	ADDRESS	1		. NO OF CONCURRENT X04SVHS STRINGS FOR AIX PATH X04SVHS FOR NUMERIC IN PARENS
1335	(537)	ADDRESS	1		. NUMBER OF STRINGS X04SVHS FOR NUMERIC IN PARENS
1336	(538)	ADDRESS	2		. NUMBER OF DATA BUFFERS FOR NUMERIC IN PARENS
1338	(53A)	ADDRESS	2		. NUMBER OF INDEX BUFFERS
1340	(53C)	BITSTRING	1		MACRF(3) X04SVHS FOR NUMERIC IN PARENS
1341	(53D)	ADDRESS	1		SHARED RESOURCE POOL ID
1342	(53E)	ADDRESS	2		. JES BUFFER POOL/NUMBER X04SVHS OF JOURNAL BUFFERS
1344	(540)	BITSTRING	1		. RECFM=A
1345	(541)	BITSTRING	1		READ INTEGRITY OPTIONS
1346	(542)	BITSTRING	2		. DSORG=ACB
1348	(544)	ADDRESS	4		X04SVHS
1352	(548)	ADDRESS	4		. PASSWORD POINTER
1356	(54C)	ADDRESS	4		. EXIT LIST POINTER
1360	(550)	CHARACTER	8		
1368	(558)	BITSTRING	1		OFLAGS
1369	(559)	ADDRESS	1		. ERFLAGS
1370	(55A)	BITSTRING	1		INFLGS(1) X04SVHS
1371	(55B)	BITSTRING	1		INFLGS(2) X04SVHS
1372	(55C)	ADDRESS	4		. OPENJ JFCB POINTER
1376	(560)	ADDRESS	4		BUFFER SPACE
1380	(564)	ADDRESS	2		. BLOCK SIZE
1382	(566)	ADDRESS	2		. RECORD SIZE
1384	(568)	ADDRESS	4		. USER WORKAREA POINTER
1388	(56C)	ADDRESS	4		CONTROL BLOCK MANIPULATION WORKAREA POINTER
1392	(570)	ADDRESS	4		. PTR TO APPLICATION NAME X03004
CIWBEVT ACB for EVENTLOG data set					
1396	(574)	SIGNED	4	(0)	CIWBEVT origin
1396	(574)	SIGNED	4	CIWBEVT(0)	
1396	(574)	BITSTRING	1		. ACB IDENTIFICATION
1397	(575)	ADDRESS	1		ACB SUBTYPE X04SVHS
1398	(576)	ADDRESS	2		. ACB LENGTH X03004HS
1400	(578)	ADDRESS	4		. AMB LIST POINTER
1404	(57C)	ADDRESS	4		. INTERFACE ROUTINE POINTER
1408	(580)	BITSTRING	1		MACRF(1) X04SVHS

Table 65. Structure CIWORKB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1409	(581)	BITSTRING	1		MACRF(2) X04SVHS FOR NUMERIC IN PARENS
1410	(582)	ADDRESS	1		. NO OF CONCURRENT X04SVHS STRINGS FOR AIX PATH X04SVHS FOR NUMERIC IN PARENS
1411	(583)	ADDRESS	1		. NUMBER OF STRINGS X04SVHS FOR NUMERIC IN PARENS
1412	(584)	ADDRESS	2		. NUMBER OF DATA BUFFERS FOR NUMERIC IN PARENS
1414	(586)	ADDRESS	2		. NUMBER OF INDEX BUFFERS
1416	(588)	BITSTRING	1		MACRF(3) X04SVHS FOR NUMERIC IN PARENS
1417	(589)	ADDRESS	1		SHARED RESOURCE POOL ID
1418	(58A)	ADDRESS	2		. JES BUFFER POOL/NUMBER X04SVHS OF JOURNAL BUFFERS
1420	(58C)	BITSTRING	1		. RECFM=A
1421	(58D)	BITSTRING	1		READ INTEGRITY OPTIONS
1422	(58E)	BITSTRING	2		. DSORG=ACB
1424	(590)	ADDRESS	4		X04SVHS
1428	(594)	ADDRESS	4		. PASSWORD POINTER
1432	(598)	ADDRESS	4		. EXIT LIST POINTER
1436	(59C)	CHARACTER	8		
1444	(5A4)	BITSTRING	1		OFLAGS
1445	(5A5)	ADDRESS	1		. ERFLAGS
1446	(5A6)	BITSTRING	1		INFLGS(1) X04SVHS
1447	(5A7)	BITSTRING	1		INFLGS(2) X04SVHS
1448	(5A8)	ADDRESS	4		. OPENJ JFCB POINTER
1452	(5AC)	ADDRESS	4		BUFFER SPACE
1456	(5B0)	ADDRESS	2		. BLOCK SIZE
1458	(5B2)	ADDRESS	2		. RECORD SIZE
1460	(5B4)	ADDRESS	4		. USER WORKAREA POINTER
1464	(5B8)	ADDRESS	4		CONTROL BLOCK MANIPULATION WORKAREA POINTER
1468	(5BC)	ADDRESS	4		. PTR TO APPLICATION NAME X03004
1468	(5BC)	X'5C0'	0	CIWBLEN	"*-CIWORKB" Length of work area

Table 66. Cross Reference for $CIWORK

Name	Offset	Hex Tag
CIWACEE	3C	
CIWADDR	2C	
CIWAR0	26C	
CIWBCL	398	
CIWBCLOS	399	398
CIWBDEBA	2C4	
CIWBDEBE	2E4	
CIWBDEBI	264	
CIWBDEBJ	244	
CIWBDEBM	284	
CIWBDEBS	244	
CIWBDEBT	2A4	
CIWBDTE	C	

Table 66. Cross Reference for $CIWORK (continued)

Name	Offset	Hex Tag
CIWBEVT	574	
CIWBID	0	C3C9E6D6
CIWBJCL	3F8	
CIWBJCLI	444	
CIWBJDVT	23C	
CIWBJICA	70	
CIWBJMR	304	
CIWBLDM	570	C2D3C440
CIWBLEN	5BC	5C0
CIWBMSG	490	
CIWBNEL	10	
CIWBOP	39C	
CIWBOPEN	39D	39C
CIWBPROC	3A0	
CIWBQMPA	218	
CIWBSAV	170	
CIWBSWA	528	
CIWBTXT	4DC	
CIWBVER	8	
CIWBVERN	8	1
CIWCATA	FC	
CIWCDLRL	4E6	
CIWCIWA	CC	
CIWCIWB	10	
CIWCLR	FC	
CIWCLRL	5C8	50C
CIWCNMB	C8	
CIWCNPR	164	
CIWCOM	224	0
CIWCONVL	88	88
CIWCPTR	48	
CIWCRTSY	500	0
CIWCTL	88	
CIWDEFLR	4E8	
CIWDEFRF	4EA	
CIWDELRS	4F0	
CIWDEVTP	4DC	
CIWDSKEY	4EC	
CIWDSKY	29	
CIWDSRVA	50	
CIWDTE	C	
CIWDTEA	C0	
CIWERBLC	4F1	5
CIWERBLK	4F1	4
CIWERC1	270	
CIWERC2	274	
CIWERC3	278	
CIWERDEF	4F1	2
CIWERLRL	4F1	3

Table 66. Cross Reference for $CIWORK (continued)

Name	Offset	Hex Tag
CIWEROPN	4F1	1
CIWESV1	27C	
CIWETOD	68	
CIWETXT	328	328
CIWFAIL	2B	
CIWFLG1	269	
CIWFRSN	29	
CIWGRP	24D	24E
CIWGRPL	24D	
CIWID	0	C3C9E6D6
CIWIDSN	328	338
CIWINFLG	4EB	
CIWINTA	30	
CIWINTF1	226	
CIWIOT	228	
CIWIOTA	23C	
CIWIOTCT	4E4	
CIWIOTL	4E0	
CIWIOT1	22C	
CIWISCHE	11C	
CIWISCRT	12C	
CIWISNR	238	
CIWITDL	26A	
CIWITSPP	1F4	
CIWITXT	328	334
CIWI1DSN	226	80
CIWJCLAS	100	
CIWJCLS	D0	
CIWJCOR	5C8	
CIWJCTA	C4	
CIWJCTRK	140	
CIWJKEY	148	
CIWJLOG	400	
CIWJPAD	160	
CIWJPRIO	146	
CIWJQAA	13C	
CIWJSCBN	44	
CIWJSCBO	40	
CIWJSCHE	10C	
CIWLEN	5C8	608
CIWLIND	234	
CIWNPAS	25F	260
CIWNPASL	25F	
CIWOPNSP	530	
CIWORK	0	
CIWORKB	0	
CIWPAD	14C	
CIWPADL	150	
CIWPARM	B8	

Table 66. Cross Reference for $CIWORK (continued)

Name	Offset	Hex Tag
CIWPAS	256	257
CIWPASCB	24	1C
CIWPASL	256	
CIWPCRT	154	
CIWPDBO	240	
CIWPDB1	230	
CIWPDDB	328	33C
CIWPD00	15C	
CIWPECB	24	18
CIWPECBK	24	24
CIWPOSTE	18	
CIWPRLBE	4F1	
CIWPROCL	4F8	
CIWPSTLN	24	10
CIWPUTPL	550	
CIWP2A	BC	
CIWRD	268	
CIWROUT	2A	
CIWSAVE2	430	
CIWSCAS	28	20
CIWSCHE	D8	
CIWSCPU	60	
CIWSDST	28	40
CIWSHOLD	28	10
CIWSJBP	38	
CIWSJCTV	28	80
CIWSPDDB	4D8	
CIWSPLR	34	
CIWSTAT	28	
CIWSTIME	58	
CIWSXSCH	28	8
CIWSYMA	214	
CIWSYMU	21B	
CIWSYM1	214	
CIWSYTBL	56C	
CIWTDVAL	78	
CIWTIMEL	88	88
CIWTML	88	
CIWUDSN	328	330
CIWUID	244	245
CIWUIDL	244	
CIWUWA	3F0	
CIWUWAA	B8	
CIWVER	8	
CIWVERN	8	1
CIWWAVE	4C	
CIWWORK	328	
CIWXCLS	428	
CIWXLEN	428	20

Table 66. Cross Reference for $CIWORK (continued)

Name	Offset	Hex Tag
CIWXLHD	408	
CIWXLST	408	
CIWXLTE	410	
CIWXOPN	418	
CIWXPL	A8	
CIWXPUT	420	
CIW1CLAS	108	
CIW1CLR	269	40

Chapter 27. $CK Information

$CK Programming Interface Information

$CK is a programming interface.

$CK Heading Information

Common Name:	HASP Checkpoint block and CCW DSECTS
Macro ID:	$CK
DSECT Name:	CKA CKAE CKB CKDDSECT
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	CKB Offset: CKBID-CKB Length: L'CKBID
Storage Attributes:	Subpool: CKBPOOL (See $HASPEQU) Key: 1 Residency: For CKBs that represent checkpoint data sets on DASD: Virtual storage of the CKB, CKA, and CKAE is 31 bit private storage of the JES2 address space. The CKB is page fixed for the life of JES2 and must lie on a 2K boundary to ensure that the check and lock buffers do not cross a 2K boundary. The data areas can be backed with 64 bit real storage. The CKI contains the data areas (DCB, IOB, etc) used for checkpoint I/O that must be located in 24 bit virtual storage. The CKI can be backed with 64 bit real storage. For CKBs that represent checkpoint data sets on a coupling facility: Virtual storage of the CKB is 31 bit private storage of the JES2 address space. The CKB can be backed with 64 bit real storage.
Size:	CKB for data set on DASD CKBDASZE CKB for data set on Coupling Facility CKBCFSZE CKA+CKAE for data set on DASD only CKAPLEN + number_of_4K_records in CKPT data set * CKAELEN CKBSIZE in the CK contains the total length.
Created by:	CKPTALOC called during initialization or from the checkpoint dialog.
Pointed to by:	CKB - The $CKBCRNT field in the $HCT data area - The CKGCKB field in the $CKGPAR data area CKA - The CKBCKA field in the CKB data area
Serialization:	These control blocks are used to direct I/O to the checkpoint data set. Checkpoint I/O should only be issued by the initialization and checkpoint PCEs. They are not used by other subtasks or PCEs.

$CK Heading Information

Function: Control block for I/O operations directed to a checkpoint data set.
A CKB exists for each checkpoint data set allocated.
The CKB contains:
:xmp.
- Checkpoint IOB
- Checkpoint status and flags
- CCW packets for track 1 data
- Data packets for track 1 data
- IDAWS for master record
:exmp.

$CK mapping

Table 67. Structure CKB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CKB	
0	(0)	CHARACTER	4	CKBID	CKB eyecatcher
4	(4)	BITSTRING	1	CKBFLAG1	CKB I/O Flags
		.1..		CKB1SHFL	"B'01000000'" CCW PACKETS SHUFFLED
		..1.		CKB1SPCI	"B'00100000'" PCI flag to be turned on
5	(5)	BITSTRING	1	CKBFLAG2	CKB Processing flags
		CKBFLAG2 DEFINITIONS ARE PASSED AS INPUT TO KTRK1IO ROUTINE. THEY INDICATE THE OPERATIONS TO BE PERFORMED BY KTRK1IO. CKB2TLCK IMPLIES READ OF LOCK RECORD IF TEST-LOCK FAILS.			
		1...		CKB2RCHK	"B'10000000'" READ OF CHECK RECD REQ'D
		.1..		CKB2WCHK	"B'01000000'" WRITE OF CHECK RECD REQ'D
		..1.		CKB2TLCK	"B'00100000'" TEST OF LOCK RECD REQ'D
		...1		CKB2RLCK	"B'00010000'" READ OF LOCK RECD REQ'D
		.... 1...		CKB2RMST	"B'00001000'" READ OF MASTER RECD REQ'D
		.... .1..		CKB2RLOG	"B'00000100'" READ OF CHANGE LOG REQ'D
		.... ..1.		CKB2WLCK	"B'00000010'" WRITE OF LOCK RECD REQ'D
		1		CKB2MSLI	"B'00000001'" SUPPRESS LENGTH ERROR ON MASTER RECORD READ
6	(6)	BITSTRING	1	CKBFLAG3	Reserved for future IBM Use
7	(7)	BITSTRING	1	CKBNREC	RECORD COUNT FROM CKDNREC
8	(8)	SIGNED	4	CKBSIZE(0)	SIZE OF ENTIRE CKB
8	(8)	SIGNED	1	CKBSUBP	Subpool CKB is in
9	(9)	SIGNED	3	CKBSIZEL	Length of CKB
12	(C)	ADDRESS	4	CKBTRK1T	ADDR OF TRACK ONE TABLE
		Key data area used in the search key operations			
16	(10)	DBL WORD	8	(0)	
16	(10)	BITSTRING	8	CKBKEY	SEARCH KEY CCW ARGUMENT
		Lock record read buffer			

Table 67. Structure CKB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
24	(18)	DBL WORD	8	(0)	
24	(18)	BITSTRING	8	CKBLRKEY	Key portion of lock record
32	(20)	BITSTRING	372	CKBLRDAT	LOCK DATA INPUT AREA
32	(20)	SIGNED	4	CKBLRSYS	Member ID ($SIDBUSY) Fld
36	(24)	SIGNED	4	CKBLRLVI	Level indicator field
40	(28)	CHARACTER	4	CKBLRSID	$SID field
44	(2C)	CHARACTER	360	CKBLROTH(0)	Area to copy to check record if CKPT on CF
		Any changes to the equates CKBLRPLN to CKBLRMVS require changes to the parameter list passed to XCFQSTAT routine in the HASPXCF module. The data is required to be mapped together.			
44	(2C)	CHARACTER	8	CKBLRPLN	MVS sysplex name
52	(34)	BITSTRING	4	CKBLRSYT	MVS system id/token
56	(38)	BITSTRING	8	CKBLRPLI	MVS sysplex id
64	(40)	BITSTRING	8	CKBLRMTK	XCF member token
72	(48)	CHARACTER	8	CKBLRMVS	MVS System Name
		End of data to be mapped together for XCFQSTAT.			
404	(194)	X'168'	0	CKBLROTL	"*-CKBLROTH" Size of lock data to be moved to "check record" when CKPT is on CF
404	(194)	ADDRESS	2	(0)	Ensure hard coded
404	(194)	ADDRESS	2	(0)	length is correct
404	(194)	X'174'	0	CKBLKRLN	"*-CKBLRDAT" SIZE OF DATA AREA OF LOCK
		Lock record write buffer			
408	(198)	DBL WORD	8	CKBLWKEY	STORAGE AREA FOR WRITING
408	(198)	X'198'	0	CKBLWKYP	"CKBLWKEY,8,C'C'" Define character version of field since PLX and the offset table don't handle doublewords well
416	(1A0)	BITSTRING	372	CKBLWDAT	LOCK RECORD KEY AND DATA
416	(1A0)	SIGNED	4	CKBLWSYS	Member ID ($SIDBUSY) Fld
420	(1A4)	SIGNED	4	CKBLWLVI	Level indicator field
424	(1A8)	CHARACTER	4	CKBLWSID	$SID field
428	(1AC)	CHARACTER	360	CKBLWOTH(0)	Area to copy to check record if CKPT on CF
		Any changes to the equates CKBLWPLN to CKBLWMVS require changes to the parameter list passed to XCFQSTAT routine in the HASPXCF module. The data is required to be mapped together.			
428	(1AC)	CHARACTER	8	CKBLWPLN	MVS sysplex name
436	(1B4)	BITSTRING	4	CKBLWSYT	MVS system id/token
440	(1B8)	BITSTRING	8	CKBLWPLI	MVS sysplex id
448	(1C0)	BITSTRING	8	CKBLWMTK	XCF member token
456	(1C8)	CHARACTER	8	CKBLWMVS	MVS System Name
		End of data to be mapped together for XCFQSTAT.			
788	(314)	X'168'	0	CKBLWOTL	"*-CKBLWOTH" Size of lock data to be moved to "check record" when CKPT is on CF

Table 67. Structure CKB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
788	(314)	ADDRESS	2	(0)	Ensure hard coded
788	(314)	ADDRESS	2	(0)	length is correct
	Check record buffer				
792	(318)	DBL WORD	8	CKBCKDAT(0)	START OF CHECK RECORD DATA
792	(318)	CHARACTER	372	CKBCKREC(0)	Size of Check record (Offset table needs hard coded values)
792	(318)	BITSTRING	1	CKBCKHFM	CKPT DS FILE NAMES, FLAGS
792	(318)	X'318'	0	CKBCKHFP	"CKBCKHFM,308,C'C'" Get character version for offset table
1100	(44C)	ADDRESS	2	(0)	Ensure lengths are
1100	(44C)	ADDRESS	2	(0)	correct
1100	(44C)	SIGNED	1	CKBFORWD	Dataset forwarded indicator
1101	(44D)	BITSTRING	1	CKBCKFLG	Flag byte
		1...		CKBCKGMT	"B'10000000'" CKBWRTIM is in GMT
		.1..		CKBCKCKM	"B'01000000'" GMT offsets on all members are not within 1 minute (skip checks in HASPIRDA)
1102	(44E)	BITSTRING	6	CKBLVOTH	Level of other checkpoint (CKBCKLEV of other CKB)
1108	(454)	BITSTRING	32	CKBSVDEF	WLM Service Definition ID
1140	(474)	SIGNED	4	CKBWRTIM	Time data set last written
1144	(478)	DBL WORD	8	(0)	
1144	(478)	DBL WORD	8	CKBCKLEV	Level of all data in ckpt
1144	(478)	X'478'	0	CKBCKLVP	"CKBCKLEV,8,C'C'" Define character version of field since PLX and the offset table don't handle doublewords well
1144	(478)	X'47C'	0	CKBCKLVH	"CKBCKLEV+4,4,C'F'" Full word version of level number of 4K pages
1152	(480)	DBL WORD	8	CKB4KLEV	Level of 4K pages in ckpt
1152	(480)	X'480'	0	CKB4KLVP	"CKB4KLEV,8,C'C'" Define character version of field since PLX and the offset table don't handle doublewords well
1152	(480)	X'484'	0	CKB4KLVH	"CKB4KLEV+4,4,C'F'" Full word version of level number of 4K pages
1160	(488)	SIGNED	1	CKBCKVAL(0)	CHECK VALUE
1160	(488)	X'174'	0	CKBCKRLN	"*-CKBCKDAT" LENGTH OF CHECK RECORD
1164	(48C)	ADDRESS	2	(0)	Make sure hardcoded
1164	(48C)	ADDRESS	2	(0)	length is accurate
	Other data buffers				
1164	(48C)	BITSTRING	8		Reserved for future IBM use
1176	(498)	DBL WORD	8	CKBDCONT(0)	Resume point for DASD CKB
1216	(4C0)	SIGNED	4	CKBCFSZE(0)	Size of CKB when CKPT is on a CF
	Work areas used by PGSER BRANCH=SPECIAL requests				
1176	(498)	DBL WORD	8	(0)	Align save area
1176	(498)	BITSTRING	72	CKBPGSAV	Page fixed save area

Table 67. Structure CKB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1248	(4E0)	DBL WORD	8	CKBPGSSL(16)	16 entry SSL
		31 bit I/O packets. There is one packet for every IOB defined in the CKI. The packets include IOB extensions, IOS diagnostic areas, and pointers to areas such as the IOB, CCW areas, etc. The packets are mapped by the CKP data area.			
1376	(560)	DBL WORD	8	(0)	Align data areas
1376	(560)	BITSTRING	0	CKBCKAS(0)	I/O work area packets
2672	(A70)	SIGNED	4		Reserved
2672	(A70)	X'1000'	0	CKBDASZE	"((*-CKB+2047)/2048)*2048" CKB length

Table 68. Structure CKA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CKA	, CKPT I/O work area packets
0	(0)	BITSTRING	48	CKAIOBE	IOB extension area (IOBE)
48	(30)	BITSTRING	96	CKAIEDB	I/O error data block (IEDB)
144	(90)	DBL WORD	8	(0)	Alignment
144	(90)	ADDRESS	4	CKAIOB	Corresponding IOB pointer (pointer to CKIP)
148	(94)	ADDRESS	4	CKACCWS	CCW work area (4K)
152	(98)	ADDRESS	4	CKACCWD	CCW data area (4K)
156	(9C)	ADDRESS	4	CKARNGL	IARV64 range list (8K)
160	(A0)	ADDRESS	4	CKARNGND	Used part of RANGLIST end
164	(A4)	ADDRESS	4	CKAERCCW	Failing CCW address
168	(A8)	ADDRESS	4	CKAERCC2	2ndary failing CCW address
172	(AC)	BITSTRING	16	CKADXPRM	Define extend data area
188	(BC)	BITSTRING	5	CKACHR1	CCHHR for failing CCW
193	(C1)	BITSTRING	5	CKACHR2	CCHHR for failing CCW 2
198	(C6)	SIGNED	2	CKAERRCT	Appendage error retry cntr
200	(C8)	SIGNED	2	CKARETRY	General I/O error retry cnt
202	(CA)	SIGNED	2	CKALIRCT	Interrupted I/O retry cntr
204	(CC)	BITSTRING	1	CKAFLAG1	Processing flags
		1...		CKA1IOAC	"B'10000000'" I/O active to this CKP
		.1..		CKA1LAST	"B'01000000'" Last CKP
		..1.		CKA1MSTF	"B'00100000'" Master record fixed
205	(CD)	BITSTRING	1	CKASVFLG	Save area for last $KIOFLAG
206	(CE)	SIGNED	2		Reserved
208	(D0)	SIGNED	4	(2)	Reserved
216	(D8)	DBL WORD	8	(0)	Align length
216	(D8)	X'D8'	0	CKALEN	"*-CKA" Length of a packet

Table 69. Structure CKI

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CKI	, CKPT I/O areas DSECT
0	(0)	CHARACTER	4	CKIID	Eyecatcher

Table 69. Structure CKI (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
DCB used for CKPT I/O DATA CONTROL BLOCK					
4	(4)	SIGNED	4	CKIDCBL(0)	ORIGIN ON WORD BOUNDARY DIRECT ACCESS DEVICE INTERFACE
4	(4)	ADDRESS	4		DCBE ADDRESS
8	(8)	BITSTRING	12		FDAD, DVTBL
20	(14)	ADDRESS	4		KEYLEN, DEVT, TRBAL COMMON ACCESS METHOD INTERFACE
24	(18)	ADDRESS	1		BUFNO, NUMBER OF BUFFERS
25	(19)	ADDRESS	3		BUFCB, BUFFER POOL CONTROL BLOCK
28	(1C)	ADDRESS	2		BUFL, BUFFER LENGTH
30	(1E)	BITSTRING	2		DSORG, DATA SET ORGANIZATION
32	(20)	ADDRESS	4		IOBAD FOR EXCP OR RESERVED FOUNDATION EXTENSION
36	(24)	BITSTRING	1		BFTEK, BFALN, DCBE INDICATORS
37	(25)	ADDRESS	3		EODAD (END OF DATA ROUTINE ADDRESS)
40	(28)	BITSTRING	1		RECFM (RECORD FORMAT)
41	(29)	ADDRESS	3		EXLST (EXIT LIST ADDRESS) FOUNDATION BLOCK
44	(2C)	CHARACTER	8		DDNAME
52	(34)	BITSTRING	1		OFLGS (OPEN FLAGS)
53	(35)	BITSTRING	1		IFLGS (IOS FLAGS)
54	(36)	BITSTRING	2		MACR (MACRO FORMAT)
54	(36)	X'4'	0	CKIDCB	"CKIDCBL,*-CKIDCBL" DCB address and length
DCBE associated with DCB DATA CONTROL BLOCK EXTENSION.					
56	(38)	SIGNED	4	CKIDCBEL(0)	0 Alignment and identifier
60	(3C)	SIGNED	2		4 Length of DCBE, minimum is 56
62	(3E)	BITSTRING	2		6 Reserved, should be zero
64	(40)	ADDRESS	4		8 0 if not open, OPEN points to DCB
68	(44)	BITSTRING	4		C Disk address of current member
72	(48)	BITSTRING	1		10 Flags set by system
73	(49)	BITSTRING	1		11 Flags set by user
74	(4A)	SIGNED	2		12 Number of stripes if extended format
76	(4C)	BITSTRING	1		14 Flags set by user
77	(4D)	BITSTRING	3		15 Reserved
80	(50)	BITSTRING	4		18 Reserved
84	(54)	SIGNED	4		1C Block size
88	(58)	BITSTRING	8		20 Reserved & number of blocks in ds
96	(60)	ADDRESS	4		28 End of data routine address or 0
100	(64)	ADDRESS	4		2C I/O error routine (synchronous) or 0
104	(68)	BITSTRING	6		30 Reserved, should be zero
110	(6E)	ADDRESS	1	(2)	36 MULTACC and MULTSDN
SHORTEST POSSIBLE DCBE IN ANY RELEASE.					

Table 69. Structure CKI (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
110	(6E)	X'38'	0	CKIDCBE	"CKIDCBEL,*-CKIDCBEL" DCBE address and length
	DCB exit vector list				
112	(70)	SIGNED	4	CKIVELL(0)	DCB exit list for ABEND
112	(70)	ADDRESS	1		DCB ABEND exit, Last entry
113	(71)	ADDRESS	3	CKIAEBGN	DCB exit code addr.
113	(71)	X'70'	0	CKIVEL	"CKIVELL,*-CKIVELL" DCB exit list addr/length
	DCB CLOSE ABEND exit list (copied from HASPCKDA). See code at KALVDOAE for routine/interface info				
136	(88)	SIGNED	4	(0)	Alignment
136	(88)	X'74'	0	CKIVELST	"CKIVDOAE,*-CKIVDOAE" Exit routine area and len
	Six IOBs used for I/O to the checkpoint.				
136	(88)	X'6'	0	CKIOBCNT	"6" Number of IOBs to create
136	(88)	DBL WORD	8	(0)	Align IOBs
136	(88)	BITSTRING	0	CKIIOBS(0)	6 sets of IOBs
	Required 24 bit (and other) work areas				
472	(1D8)	DBL WORD	8	CKIDWORK	24 bit work area
480	(1E0)	ADDRESS	4	CKITRKLL	DVCT OR UCB ADDR, OR DEVTYPE
484	(1E4)	BITSTRING	1		FLAG BYTE
485	(1E5)	BITSTRING	1		RESERVED
486	(1E6)	ADDRESS	2		TRACK BALANCE
488	(1E8)	ADDRESS	1		RECORD NUMBER
489	(1E9)	ADDRESS	1		KEY LENGTH
490	(1EA)	ADDRESS	2		DATA LENGTH
490	(1EA)	X'1E0'	0	CKITRKCL	"CKITRKLL,*-CKITRKLL" Work area equate
496	(1F0)	DBL WORD	8	(0)	Align length
496	(1F0)	X'1F0'	0	CKILEN	"*-CKI" Length of data area

Table 70. Structure CKIP

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CKIP	, CKPT I/O work area packets
0	(0)	BITSTRING	40	CKIPIOB	Checkpoint IOB
40	(28)	SIGNED	4	CKIPECB	and I/O ECBs
44	(2C)	ADDRESS	4	CKIPCKA	I/O packet work area (CKA)
48	(30)	ADDRESS	4	CKIPCKB	CKB pointer
52	(34)	SIGNED	4		Reserved
56	(38)	DBL WORD	8	(0)	
56	(38)	X'38'	0	CKIPLEN	"*-CKIP" Length of IOB area

Table 71. Cross Reference for $CK

Name	Offset	Hex Tag
CKA	0	
CKACCWD	98	

Table 71. Cross Reference for $CK (continued)

Name	Offset	Hex Tag
CKACCWS	94	
CKACHR1	BC	
CKACHR2	C1	
CKADXPRM	AC	
CKAERCCW	A4	
CKAERCC2	A8	
CKAERRCT	C6	
CKAFLAG1	CC	
CKAIEDB	30	
CKAIOB	90	
CKAIOBE	0	
CKALEN	D8	D8
CKALIRCT	CA	
CKARETRY	C8	
CKARNGL	9C	
CKARNGND	A0	
CKASVFLG	CD	
CKA1IOAC	CC	80
CKA1LAST	CC	40
CKA1MSTF	CC	20
CKB	0	
CKBCFSZE	4C0	
CKBCKAS	560	
CKBCKCKM	44D	40
CKBCKDAT	318	
CKBCKFLG	44D	
CKBCKGMT	44D	80
CKBCKHFM	318	
CKBCKHFP	318	318
CKBCKLEV	478	
CKBCKLVH	478	47C
CKBCKLVP	478	478
CKBCKREC	318	
CKBCKRLN	488	174
CKBCKVAL	488	
CKBDASZE	A70	1000
CKBDCONT	498	
CKBFLAG1	4	
CKBFLAG2	5	
CKBFLAG3	6	
CKBFORWD	44C	
CKBID	0	
CKBKEY	10	
CKBLKRLN	194	174
CKBLRDAT	20	
CKBLRKEY	18	
CKBLRLVI	24	
CKBLRMTK	40	
CKBLRMVS	48	

Table 71. Cross Reference for $CK (continued)

Name	Offset	Hex Tag
CKBLROTH	2C	
CKBLROTL	194	168
CKBLRPLI	38	
CKBLRPLN	2C	
CKBLRSID	28	
CKBLRSYS	20	
CKBLRSYT	34	
CKBLVOTH	44E	
CKBLWDAT	1A0	
CKBLWKEY	198	
CKBLWKYP	198	198
CKBLWLVI	1A4	
CKBLWMTK	1C0	
CKBLWMVS	1C8	
CKBLWOTH	1AC	
CKBLWOTL	314	168
CKBLWPLI	1B8	
CKBLWPLN	1AC	
CKBLWSID	1A8	
CKBLWSYS	1A0	
CKBLWSYT	1B4	
CKBNREC	7	
CKBPGSAV	498	
CKBPGSSL	4E0	
CKBSIZE	8	
CKBSIZEL	9	
CKBSUBP	8	
CKBSVDEF	454	
CKBTRK1T	C	
CKBWRTIM	474	
CKB1SHFL	4	40
CKB1SPCI	4	20
CKB2MSLI	5	1
CKB2RCHK	5	80
CKB2RLCK	5	10
CKB2RLOG	5	4
CKB2RMST	5	8
CKB2TLCK	5	20
CKB2WCHK	5	40
CKB2WLCK	5	2
CKB4KLEV	480	
CKB4KLVH	480	484
CKB4KLVP	480	480
CKI	0	
CKIAEBGN	71	
CKIDCB	36	4
CKIDCBE	6E	38
CKIDCBEL	38	C4C3C2C5
CKIDCBL	4	

Table 71. Cross Reference for $CK (continued)

Name	Offset	Hex Tag
CKIDWORK	1D8	
CKIID	0	C3D2C940
CKIIOBS	88	
CKILEN	1F0	1F0
CKIOBCNT	88	6
CKIP	0	
CKIPCKA	2C	
CKIPCKB	30	
CKIPECB	28	
CKIPIOB	0	
CKIPLEN	38	38
CKITRKCL	1EA	1E0
CKITRKLL	1E0	
CKIVEL	71	70
CKIVELL	70	
CKIVELST	88	74

Chapter 28. $CKGPAR Information

$CKGPAR Heading Information

Common Name:	Checkpoint Generalized Parameter List
Macro ID:	$CKGPAR
DSECT Name:	CKG
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	CKG Offset: CKGID Length: L'CKGID
Storage Attributes:	Subpool: 0 Key: 1 Residency: Virtual is in 31 bit storage private storage in the JES2 address space. Real can be in 64 bit storage.
Size:	See CKGSIZE
Created by:	HASPIRDA for the checkpoint data sets that are defined in the JES2 initialization stream KDIALOG for data sets that are being allocated during the checkpoint reconfiguration dialog.
Pointed to by:	$CKG1 field of the HCT data area $CKG2 field of the HCT data area
Serialization:	None required.
Function:	This DSECT describes the parameter list required by all checkpoint management routines.

$CKGPAR mapping

Table 72. Structure CKG

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CKG	
0	(0)	CHARACTER	4	CKGID	CONTROL BLOCK EYE CATCHER
4	(4)	SIGNED	1	CKGVER	VERSION IDENTIFIER
4	(4)	X'2'	0	CKGVNR	"2" Version number
5	(5)	BITSTRING	1	CKGFLAG1	FLAGS
		1...		CKG1ESUP	"B'10000000'" SUPRESS I/O ERROR MESSAGES FOR THIS DATA SET
		.1..		CKG1LOKD	"B'01000000'" THIS FILE HAS BEEN LOCKED
		..1.		CKG1ITRP	"B'00100000'" THIS FILE HAS HAD INTERRUPTED I/O
		...1		CKG1IOER	"B'00010000'" THIS FILE HAS HAD AN I/O ERROR
		.... 1...		CKG1EXTN	"B'00001000'" File successfully extended
		.... .1..		CKG1DELE	"B'00000100'" Delete structure at unalloc
6	(6)	BITSTRING	1	CKGFLAG2	Second flag byte
		1...		CKG2DASD	"B'10000000'" Checkpoint resides on DASD

Table 72. Structure CKG (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		CKG2CF	"B'01000000'" Checkpoint resides on CF
		..1.		CKG2FCON	"B'00100000'" This was the first connect to the structure, and as such, caused the actual allocation of the struct. in the Coupling Facility. Used by KFORMAT
		...1		CKG2ALOC	"B'00010000'" Data set allocated
		.... 1...		CKG2RBLD	"B'00001000'" A CF rebuild is in progress
		.... .1..		CKG2NEWR	"B'00000100'" A structure could be used to satisfy this allocation
		.... ..1.		CKG2CYL	"B'00000010'" Data set allocated on EAV cylinder managed-EAS storage.
		1		CKG2IORQ	"B'00000001'" I/O required (CF or EXCP)
7	(7)	BITSTRING	1	CKGALPRM	Hold CKPTALOC parm list for use by CFFORMAT
7	(7)	X'80'	0	CKGAOLD	"$CKAOLD" OLD=YES was specified
7	(7)	X'40'	0	CKGANEW	"$CKANEW" NEW=YES was specified
7	(7)	X'20'	0	CKGADEF	"$CKADEF" NEW=DEFER was specified
8	(8)	CHARACTER	8	CKGFILE	FILE NAME
16	(10)	ADDRESS	4	CKGHFAME	ADDRESS OF THE HFAME
20	(14)	ADDRESS	4	CKGCKB	ADDRESS OF THE CKB
24	(18)	ADDRESS	4	CKGTOKEN	ADDRESS OF A TOKEN FIELD
28	(1C)	ADDRESS	4	CKGDTE	Address of related DTE
32	(20)	ADDRESS	4	CKGCKI	Address of the CKI
36	(24)	ADDRESS	4	CKGTOT	ADDR OF THE TRACK 1 TABLE (TOT)
40	(28)	SIGNED	4	CKGCF4KL	Size, in 4K elements, the structure is lacking
44	(2C)	SIGNED	4	CKGCFSIZ	Size, in 1K units, of the CF structure
48	(30)	CHARACTER	16	CKGCONTK	Connection Token (only used if data set in CF)
64	(40)	SIGNED	1	CKGCONID	Connection Id (only used if data set in CF)
65	(41)	BITSTRING	1	CKGFLAG3	CKB CF Request footprints
		1...		CKG3MOVE	"B'10000000'" IXLLSTx MOVE Request
		.1..		CKG3RITE	"B'01000000'" IXLLSTx WRITE Request
		..1.		CKG3READ	"B'00100000'" IXLLSTx READ Request
		...1		CKG3LOCK	"B'00010000'" IXLLSTx LOCK Request
		.... 1...		CKG3RLST	"B'00001000'" IXLLSTx READLIST Request
		.... .1..		CKG3DELM	"B'00000100'" IXLLSTx DELETE MULT rqst
		.... ..1.		CKG3ALTR	"B'00000010'" IXLALTER request

Table 72. Structure CKG (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
66	(42)	BITSTRING	1	CKGFLAG4	Fourth flag byte
		1...		CKG4LE0B	"B'10000000'" List 0 LEIDs are built
		.1..		CKG4LE1B	"B'01000000'" List 1 LEIDs are built
		..1.		CKG4COND	"B'00100000'" Get LOCK conditionally
		...1		CKG4STEL	"B'00010000'" Steal the CF lock from CKGSCNID holder
		.... 1...		CKG4NOCK	"B'00001000'" No check record found for data set on CF
		.... .1..		CKG4WCFL	"B'00000100'" Waiting for CF lock
		.... ..1.		CKG4DUPC	"B'00000010'" Duplicate connection - when this data set was allocated on CF, NEWCKPTn pointed to the same str as CKPTn; however, we can only have one connection active to a given str at time.
		1		CKG4VALR	"B'00000001'" Validation error
67	(43)	BITSTRING	1	CKGFLAG5	CCW 1 I/O Error flags
		1...		CKG5NDTR	"B'10000000'" No data written on error
		.1..		CKG5DTRS	"B'01000000'" Data written on error
		..1.		CKG5CHKR	"B'00100000'" Error on CHECK record
		...1		CKG5LCKR	"B'00010000'" Error on LOCK record
		.... 1...		CKG5MSTR	"B'00001000'" Error on MASTER record
		.... .1..		CKG5LOGR	"B'00000100'" Error on Change log recd
		.... ..1.		CKG5PAGR	"B'00000010'" Error on 4K page record
		1		CKG5VERP	"B'00000001'" Error on verify CCWs
68	(44)	BITSTRING	1	CKGFLAG6	CCW 2 I/O Error flags Bit definitions are the same as CKGFLAG5
69	(45)	BITSTRING	3		Reserved for future use
72	(48)	BITSTRING	4	CKGERROR(0)	Error flag word (set by CFALOC, used by PRE536 to display variable text of HASP536 message)
72	(48)	BITSTRING	3	CKGCFERR	$OFFSTBL only supports
75	(4B)	BITSTRING	1		bit string of length 24.
76	(4C)	SIGNED	4	CKGSUBRC	CKPT subtask request RC
80	(50)	SIGNED	4	CKGCKRC	RC from MVS services
84	(54)	SIGNED	4	CKGCKRSN(0)	Reason code from service
84	(54)	SIGNED	2	CKGCFRIN	First two bytes are internally defined

Table 72. Structure CKG (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
86	(56)	SIGNED	2	CKGCFREX	Last two bytes have external meaning
88	(58)	CHARACTER	4	CKGMSGID	Error message to issue
92	(5C)	ADDRESS	4	CKGANSA	Pointer to hold a single IXLLIST answer area.
96	(60)	SIGNED	4	CKGECB	XECB for asynch IXL reqs
96	(60)	BITSTRING	24	CKGXECB	XECB for asynch IXL reqs
120	(78)	SIGNED	4	CKGRECB	ECB portion of XECB for CF locking and DASD reserve
120	(78)	BITSTRING	24	CKGRXECB	XECB for CF locking request
144	(90)	ADDRESS	8	CKGLIST0	Addr of LIST0 data buffer
152	(98)	SIGNED	4	CKGT1NUM	Number of elements in a Track1 CF access
156	(9C)	SIGNED	1	CKGL0BLT	ID of List0 Leid builder
157	(9D)	SIGNED	1	CKGL1BLT	ID of List1 Leid builder
158	(9E)	BITSTRING	1	CKGECBTP	I/O completion code for $HASP291 message
159	(9F)	SIGNED	1	CKGSCNID	Steal lock from CONID
160	(A0)	ADDRESS	4	CKGCFQUD	CFQU data area pointer
164	(A4)	SIGNED	2	CKGRETRY	Error retry counter
166	(A6)	SIGNED	2		Reserved for future IBM use
168	(A8)	SIGNED	4		Reserved for future IBM use
176	(B0)	DBL WORD	8	(0)	Round size to doubleword
176	(B0)	X'B0'	0	CKGSIZE	"*-CKG" SIZE OF THE CKG
		Use the DS 0S to ensure that fields in the CKG that are dependent on fields in MVS control blocks are the correct size. Since the S-con can not have a length associated with it (and it therefore forces half-word alignment), the S-cons are grouped down here.			
176	(B0)	ADDRESS	2	(0)	Verify CKGCONTK
176	(B0)	ADDRESS	2	(0)	and CONCONTOKEN are same length
176	(B0)	ADDRESS	2	(0)	Verify CKGCONID
176	(B0)	ADDRESS	2	(0)	and CONACONID are the same length

Table 73. Cross Reference for $CKGPAR

Name	Offset	Hex Tag
CKG	0	
CKGADEF	7	20
CKGALPRM	7	
CKGANEW	7	40
CKGANSA	5C	
CKGAOLD	7	80
CKGCFERR	48	
CKGCFQUD	A0	
CKGCFREX	56	
CKGCFRIN	54	
CKGCFSIZ	2C	
CKGCF4KL	28	

Table 73. Cross Reference for $CKGPAR (continued)

Name	Offset	Hex Tag
CKGCKB	14	
CKGCKI	20	
CKGCKRC	50	
CKGCKRSN	54	
CKGCONID	40	
CKGCONTK	30	
CKGDTE	1C	
CKGECB	60	
CKGECBTP	9E	
CKGERROR	48	
CKGFILE	8	
CKGFLAG1	5	
CKGFLAG2	6	
CKGFLAG3	41	
CKGFLAG4	42	
CKGFLAG5	43	
CKGFLAG6	44	
CKGHFAME	10	
CKGID	0	C3D2C740
CKGLIST0	90	
CKGL0BLT	9C	
CKGL1BLT	9D	
CKGMSGID	58	
CKGRECB	78	
CKGRETRY	A4	
CKGRXECB	78	
CKGSCNID	9F	
CKGSIZE	B0	B0
CKGSUBRC	4C	
CKGTOKEN	18	
CKGTOT	24	
CKGT1NUM	98	
CKGVER	4	
CKGVNR	4	2
CKGXECB	60	
CKG1DELE	5	4
CKG1ESUP	5	80
CKG1EXTN	5	8
CKG1IOER	5	10
CKG1ITRP	5	20
CKG1LOKD	5	40
CKG2ALOC	6	10
CKG2CF	6	40
CKG2CYL	6	2
CKG2DASD	6	80
CKG2FCON	6	20
CKG2IORQ	6	1
CKG2NEWR	6	4
CKG2RBLD	6	8

Table 73. Cross Reference for $CKGPAR (continued)

Name	Offset	Hex Tag
CKG3ALTR	41	2
CKG3DELM	41	4
CKG3LOCK	41	10
CKG3MOVE	41	80
CKG3READ	41	20
CKG3RITE	41	40
CKG3RLST	41	8
CKG4COND	42	20
CKG4DUPC	42	2
CKG4LE0B	42	80
CKG4LE1B	42	40
CKG4NOCK	42	8
CKG4STEL	42	10
CKG4VALR	42	1
CKG4WCFL	42	4
CKG5CHKR	43	20
CKG5DTRS	43	40
CKG5LCKR	43	10
CKG5LOGR	43	4
CKG5MSTR	43	8
CKG5NDTR	43	80
CKG5PAGR	43	2
CKG5VERP	43	1

Chapter 29. $CKM Information

$CKM Heading Information

Common Name:	JES2 Checkpoint Inter-member Communications Area
Macro ID:	$CKM
DSECT Name:	CKM
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'CKM ' Offset: CKMID-CKM Length: L'CKM
Storage Attributes:	Subpool: 0 Key: 1 Residency: Virtual and real storage are anywhere in the private storage of the JES2 address space.
Size:	See CKMLEN
Created by:	Routine CKRRINIT during JES2 initialization
Pointed to by:	CKWCKMA field of the $CKW data area
Serialization:	None required
Function:	The $CKM data area is used by JES2 checkpoint reconfiguration routines to coordinate processing with other members in a MAS. The $CKM contains fields to communicate with callers of the CKRRxxxx routines and fields used internally to communicate with other members using JESXCF services.

$CKM mapping

Table 74. Structure CKM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CKM	, Checkpoint inter-member communications area
0	(0)	CHARACTER	4	CKMID	Control block eyecatcher
4	(4)	ADDRESS	1	CKMVERSN	Control block version
4	(4)	X'1'	0	CKMVERN	"1" Current version number
5	(5)	BITSTRING	3		Reserved for future use
		Input/Output for routine CKRRSTRT callers. Fields in section are named CKMSxxxx. | "S" for start Output fields are available to caller until the next CKRRDONE call.			
8	(8)	DBL WORD	8	(0)	Alignment
8	(8)	BITSTRING	0	CKMSPARM(0)	CKRRSTRT parameter list
8	(8)	DBL WORD	8	CKMSBEGN(0)	Beginning of CKRRSTRT parms
8	(8)	BITSTRING	1	CKMSFLG1	(IO) Flag byte 1 for CKRRSTRT
		1...		CKMS1MBD	"B'10000000'" (I.) - This member MUST be driver (owns the Q's)
		.1..		CKMS1DRV	"B'01000000'" (.O) - CKRRSTRT has determined this is the initial driving member

Table 74. Structure CKM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		CKMS1OPV	"B'00100000'" (IO) - Use OPVERIFY=YES during this reconfiguration
		...1		CKMS1HUP	"B'00010000'" (I.) - HFAM update is pending
9	(9)	BITSTRING	1	CKMSFLG2	(IO) Flag byte 2 (Used for reconfiguration reason)
		1...		CKMS2IO1	"B'10000000'" (IO) - I/O error on CKPT1
		.1..		CKMS2IO2	"B'01000000'" (IO) - I/O error on CKPT2
9	(9)	X'C0'	0	CKMS2IOE	"CKMS2IO1+CKMS2IO2" (.O) - I/O error on CKPTn
		..1.		CKMS2CKV	"B'00100000'" (IO) - CKPT on volatile CF
		...1		CKMS2OPR	"B'00010000'" (IO) - Operator requested dialog
		.... 1...		CKMS2CAN	"B'00001000'" (.O) - Reconfiguration cancelled by JES2
		.... .1..		CKMS2SET	"B'00000100'" (IO) - Set CKPTDEF command (also sets CKMS2OPR)
10	(A)	BITSTRING	2		Reserved for future use
12	(C)	BITSTRING	4	CKMSDCON	(IO) Console ID or zero
16	(10)	SIGNED	4	CKMSNIOE	(.O) Number of members with I/O errors on CKPTn (Check CKMSFLG2 bits for "n")
20	(14)	CHARACTER	4	CKMSDNAM	(.O) Name of driving member (Original driving member, use CKMCCDMN after syncs)
24	(18)	BITSTRING	8	CKMSLEVN	(I.) Checkpoint level number
32	(20)	CHARACTER	128	CKMSMEMV	(.O) Vector of member names at original driver selection
160	(A0)	BITSTRING	308	CKMSHFAM	(IO) Copy of HFAM to initially use for this reconfig
468	(1D4)	BITSTRING	4		Reserved for future use
472	(1D8)	DBL WORD	8	CKMSEND(0)	End of CKRRSTRT parm list
	CKRRSTRT return codes				
472	(1D8)	X'0'	0	CKMSRCOK	"0" STRT processing completed
472	(1D8)	X'4'	0	CKMSRCCN	"4" Reconfig cancelled by JES2
	Input/Output for routine CKRRSYNC callers. Fields in section are named CKMCxxxx. | "C" for sync Output fields are available to caller until the next CKRRSYNC or CKRRDONE call.				
472	(1D8)	DBL WORD	8	(0)	Alignment
472	(1D8)	BITSTRING	0	CKMCPARM(0)	CKRRSYNC parameter list
472	(1D8)	DBL WORD	8	CKMCBEGN(0)	Beginning of CKRRSYNC parms
472	(1D8)	BITSTRING	1	CKMCFLG1	(IO) Flag byte 1 for CKRRSYNC
		1...		CKMC1DMF	"B'10000000'" (.O) - Driving member failed

Table 74. Structure CKM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		CKMC1NDM	"B'01000000'" (.O) - This member is new driver (This bit only set for transitions, and NOT on subsequent syncs)
		..1.		CKMC1OKW	"B'00100000'" (IO) - OK for this non-driving member to wait for driver without issuing a delay message. Always zero on return
473	(1D9)	BITSTRING	3		
476	(1DC)	CHARACTER	4	CKMCCDMN	(.O) Name of current/new driving member
480	(1E0)	CHARACTER	8	CKMCTYPE	(I.) Type of sync call
		CKMCACT contains an "action" code set by the driving member that tells non-driving members what to do.			
488	(1E8)	SIGNED	4	CKMCACT	(IO) Action code (in on driver)
488	(1E8)	X'0'	0	CKMCACNL	"0" - Null (Action implied by CKMCTYPE)
488	(1E8)	X'4'	0	CKMCACCT	"4" - Continue (All members successful, wrap up and call DONE)
488	(1E8)	X'8'	0	CKMCACRT	"8" - Retry (Member(s) unsuccessful, retry from the top)
488	(1E8)	X'C'	0	CKMCACOC	"12" - Operator requested CANCEL or TERM
488	(1E8)	X'10'	0	CKMCACF1	"16" - Start using forwarded CKPT1
488	(1E8)	X'14'	0	CKMCACF2	"20" - Start using forwarded CKPT2
488	(1E8)	X'18'	0	CKMCACS1	"24" - Suspend CKPT1
488	(1E8)	X'1C'	0	CKMCACS2	"28" - Suspend CKPT2
488	(1E8)	X'20'	0	CKMCACU1	"32" - Start using CKPT1
488	(1E8)	X'24'	0	CKMCACU2	"36" - Start using CKPT2
		The "condition" fields communicate conditions from all members to the driving member. Conditions are collected into a vector on the driving member.			
492	(1EC)	SIGNED	4	CKMCICON	(I.) Condition on entering CKRRSYNC call
492	(1EC)	X'0'	0	CKMCCCNL	"0" (.O) - Null condition (member not participating or failed)
492	(1EC)	X'4'	0	CKMCCCOK	"4" (IO) - OK condition (previous action successful or no condition to report)
492	(1EC)	X'8'	0	CKMCCCUS	"8" (IO) - Unsuccessful result from previous action
496	(1F0)	BITSTRING	128	CKMCCONV	(.O) (On driver only) A vector containing the condition from each member

Table 74. Structure CKM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
624	(270)	SIGNED	4	CKMCCONM	(.O) (On driving member only) Maximum condition value from CKMCCONV vector
		"Reason codes" are communicated from all members to the driving member. The "reason codes" are collected into a vector on the driving member. Reason codes are set to zero by CKRRSYNC for non-participating or failed members.			
628	(274)	SIGNED	4	CKMCIRSN	(I.) Reason code on entry to CKRRSYNC call
632	(278)	BITSTRING	1	CKMCRSNV	(.O) (On driver only) A vector containing reason codes for each member
		Latest $HFAM from driving member			
760	(2F8)	BITSTRING	308	CKMCHFAM	(IO) Copy of HFAM from driver when CKRRSYNC called
1068	(42C)	BITSTRING	4		Reserved for future use
1072	(430)	DBL WORD	8	CKMCEND(0)	End of CKRRSYNC parm list
		CKRRSYNC return codes			
1072	(430)	X'0'	0	CKMCRCOK	"0" SYNC processing completed
1072	(430)	X'4'	0	CKMCRCDF	"4" Driving member failed
		Input/Output for routine CKRRDONE callers. Fields in section are named CKMDxxxx. | "D" for done Output fields are available to caller until the next CKRRSTRT call. CKRRDONE return codes			
1072	(430)	X'0'	0	CKMDRCOK	"0" DONE processing completed
1072	(430)	X'4'	0	CKMDRCRC	"4" Re-enter CKPT reconfig (Start-up request for new reconfig was received)
		Data internal to CKRRxxxx routines. Fields in section are named CKMIxxxx. | "I" for internal Fields between CKMIDATA and CKMICLR1 are persistent for the life of this JES2. Fields beginning at CKMICLR1 are cleared when CKRRSTRT is called. Fields beginning at CKMICLR2 are cleared when CKRRSYNC or CKRRDONE are called.			
1072	(430)	DBL WORD	8	CKMIDATA(0)	Beginning of internal data
1072	(430)	CHARACTER	8	CKMIIEYE	Internal data eyecatcher (set by CKRRINIT)
1080	(438)	ADDRESS	4	CKMICKXA	Addr of CKX used to build messages and acks (obtained by CKRRINIT)
1084	(43C)	ADDRESS	4	CKMICKXS	Addr of CKX used to save last received msg or ack (obtained by CKRRINIT)
1088	(440)	DBL WORD	8	CKMICRST	Reconfig start TOD (STCK)
1096	(448)	DBL WORD	8	CKMICRET	Reconfig end TOD (STCK)

Table 74. Structure CKM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1104	(450)	SIGNED	4	CKMICRSE	Count of system events received during reconfig
1108	(454)	SIGNED	4	CKMICRIF	Count of IXZXIXIF requests issued in reconfiguration
1112	(458)	SIGNED	4	CKMIXECB(0)	XECB to wait on
		General status flag byte			
1136	(470)	BITSTRING	1	CKMIFLG1	General status flag byte 1
		1...		CKMI1CAP	"B'10000000'" - Reconfiguration capable
		.1..		CKMI1RST	"B'01000000'" - Reconfiguration started
		..1.		CKMI1CAN	"B'00100000'" - Reconfiguration cancelled by JES2
1137	(471)	BITSTRING	3		Reserved
		Mailbox names (set by CKRRINIT)			
1140	(474)	CHARACTER	1	CKMIMBNS	
1156	(484)	CHARACTER	1	CKMIMBNR	
		Delay time constants (set by CKRRINIT)			
0	(0)	X'F'	0	CKMISECS	"15" Wait time for other members in seconds
1172	(494)	SIGNED	4	CKMISTBI	STIMERM wait time for other members in 100th's of seconds
1172	(494)	X'3'	0	CKMISECI	"3" Wait time for IXZXIXIF to complete in seconds
1176	(498)	SIGNED	4	CKMISTIF	STIMERM wait time for IXZXIXIF in 100th's of seconds
1176	(498)	X'64'	0	CKMIIFFC	"100" Interval between IXZXIXIF requests in 100th's of seconds
1180	(49C)	SIGNED	4	CKMIIFFI	STIMERM wait time between IXZXIXIF requests in 100th's of seconds
		JESXCF post exit information (set by CKRRINIT). Field CKMICKMA is also used for STIMERM.			
1184	(4A0)	ADDRESS	4	CKMICKMA	Pointer to $CKM used by IXZXIXMB for POSTDATA= and STIMERM for PARM=
1188	(4A4)	ADDRESS	4	CKMIHCTA	Addr of $HCT for post exit
1188	(4A4)	X'4'	0	CKMIPXRP	"4" Post exit reason code for incorrect exit parm list
1188	(4A4)	X'8'	0	CKMIPXRD	"8" Post exit reason code for incorrect post data
1188	(4A4)	X'C'	0	CKMIPXRM	"12" Post exit reason code for incorrect mailbox name
1192	(4A8)	SIGNED	4		Reserved
		Beginning of area cleared by CKRRSTRT. Warning: The remainder of the $CKM data area is cleared when CKRRSTRT is called. The area from CKMICLR1 for a length of CKMICL1L is cleared. Note: See CKMICLR2 below for beginning of area to clear on CKRRSYNC and CKRRDONE calls.			

Table 74. Structure CKM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1200	(4B0)	DBL WORD	8	CKMICLR1(0)	Begin area to clear on STRT
	Reconfiguration status flags				
1200	(4B0)	BITSTRING	1	CKMIFLG2	General status flag byte 2
		1...		CKMI2NIH	"B'10000000'" - Reconfig initiated from elsewhere assumed
		.1..		CKMI2ONE	"B'01000000'" - Single member reconfig (Set by IFGETVER rtn)
		..1.		CKMI2RCO	"B'00100000'" - Reconfig is committed (First driving member was committed)
		...1		CKMI2DCO	"B'00010000'" - Driving member is (re)committed
		.... 1...		CKMI2DRV	"B'00001000'" - We are driving member
		.... .1..		CKMI2DMF	"B'00000100'" - Driving member failed during this SYNC/DONE (or was previously pending)
		.... ..1.		CKMI2DFP	"B'00000010'" - Driving member failed is pending for next call to CKRRSYNC
		1		CKMI2WSG	"B'00000001'" - This non-driving member waiting for a sync go-ahead message
1201	(4B1)	BITSTRING	1	CKMIFLG3	General status flag byte 3
		1...		CKMI3RDD	"B'10000000'" - Ready for driver decommit
		.1..		CKMI3IFT	"B'01000000'" - STIMERM used to control frequency of IXZXIXIF requests is set
1202	(4B2)	BITSTRING	1		Reserved
	The following byte is permanently dedicated for IBM int rnal Function Component Test (FCT) use only. Warning: This section is used only for testing. Setting data in this section causes permanent waits or $K25 ABENDs.				
1203	(4B3)	CHARACTER	1	CKMIFCT	FCT test byte
	Reconfiguration operation sequence number Starts at zero on exit from CKRRSTRT and increments by one for each CKRRSYNC and by one more for CKRRDONE.				
1204	(4B4)	SIGNED	4	CKMIOSEQ	Operation sequence number
	Information about members participating in the current reconfiguration This information is looked at, but NOT set by, the IFGETVER (get member information) routine. IFGETVER does, however, subtract failed members from the participating member mask.				
1208	(4B8)	SIGNED	4	CKMIDMNO	Current/last committed
1212	(4BC)	CHARACTER	4	CKMIDMNA	driver number and name
1216	(4C0)	SIGNED	4	CKMIDCNO	Current/last candidate

Table 74. Structure CKM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1220	(4C4)	CHARACTER	4	CKMIDCNA	driver number and name (zeros unless driver is being selected)
1224	(4C8)	BITSTRING	4	CKMIMMPM	Participating member mask
1228	(4CC)	BITSTRING	4		Reserved
	Timing data				
1232	(4D0)	DBL WORD	8	(0)	Alignment
--ISTMS STIMERM SET,MF=L List form to set timer MACDATE = 08/19/88					
1232	(4D0)	BITSTRING	24	CKMISTMS	REMOTE STIMERM SET PARM LIST
1232	(4D0)	X'18'	0	CKMISTSL	"*-CKMISTMS" Length of parm list
--ISTMC STIMERM CANCEL,MF=L List form to cancel timer MACDATE = 08/19/88					
1256	(4E8)	BITSTRING	16	CKMISTMC	REMOTE STIMERM TEST/CANCEL PARM LIST
1256	(4E8)	X'10'	0	CKMISTCL	"*-CKMISTMC" Length of parm list
1272	(4F8)	DBL WORD	8	(0)	Alignment
1272	(4F8)	SIGNED	4	CKMISTMI	STIMERM ID=id-area while waiting for response from IXZXIXIF service
1276	(4FC)	SIGNED	4	CKMISTMM	STIMERM ID=id-area while waiting for msg, ack or system event
1280	(500)	SIGNED	4	CKMISTME	STIMERM ID=id-area used for postponed IXZXIXIF request
1284	(504)	SIGNED	4	CKMISTEI	STIMERM interval set for postponed IXZXIXIF request
1288	(508)	BITSTRING	1	CKMISTF	Interval timer flag byte (This byte is serialized with OIL and NIL)
	1...			CKMISTFI	"B'10000000'" STIMERM interval expired IXZXIXIF service
	.1..			CKMISTFM	"B'01000000'" STIMERM interval expired for msg, ack or sys event
	..1.			CKMISTFE	"B'00100000'" STIMERM interval expired for postponed IXZXIXIF request
1289	(509)	BITSTRING	7		Reserved
	Beginning of area cleared by CKRRSYNC and CKRRDONE calls. Warning: The remainder of the $CKM data area is cleared when CKRRSYNC or CKRRDONE is called. The area from CKMICLR2 for a length of CKMICL2L is cleared. Note: See CKMICLR1 above for beginning of area to clear on CKRRSTRT calls.				
1296	(510)	DBL WORD	8	CKMICLR2(0)	Begin area to clear on SYNC or DONE calls
	Information returned from IFGETVER routine				
1296	(510)	BITSTRING	1	CKMIIFG	IFGETVER flags

Table 74. Structure CKM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		CKMIIFGD	"B'10000000'" - Failed driver candidate's state indicates driver
		.1..		CKMIIFGC	"B'01000000'" - Failed driver XCF user state shows committed
1297	(511)	BITSTRING	3		Reserved
1300	(514)	BITSTRING	4	CKMIMMRC	Reconfig capable mask
1304	(518)	BITSTRING	4	CKMIMMST	Reconfig started mask
1308	(51C)	BITSTRING	4	CKMIMMMD	Member MUST drive mask
1312	(520)	BITSTRING	4	CKMIMMCO	Reconfig committed mask
1316	(524)	BITSTRING	4	CKMIMMDR	Driving member mask
1320	(528)	SIGNED	4	CKMIICNO	Candidate for driving member (based on CKPT level and MUST drive)
1324	(52C)	CHARACTER	4	CKMIICNA	Candidate's name
1328	(530)	SIGNED	4	CKMIIDNO	Driving member number (Based on XMAUC1DR bit of lowest participating mem)
1332	(534)	CHARACTER	4	CKMIIDNA	Driving member name
1336	(538)	CHARACTER	128	CKMIMEMV	Vector of member names
1464	(5B8)	BITSTRING	160	CKMIMCLV	Vector member CKPT levels from XMAUCRLV in member's XCF user state
1624	(658)	SIGNED	4	CKMIIFTS	BIN time stamp of last IXZXIXIF completion
		Bit mapped work mask for member states, etc.			
1628	(65C)	BITSTRING	4	CKMIMMWK	Member affinity work mask
1632	(660)	BITSTRING	1	CKMERRAF	Mask of systems to dump
		Data used by the WUSTATE routine - R1 parameter equates for expected XCF user state data - Mask of members that have not made the expected state change and have a HASP257 message outstanding			
1632	(660)	X'1'	0	CKMIWUST	"1" Expecting "started"
1632	(660)	X'2'	0	CKMIWUDR	"2" Expecting "driving member" (issued by non-drivers)
1632	(660)	X'3'	0	CKMIWUCO	"3" Expecting "reconfiguration committed" (issued by driver only)
1632	(660)	X'4'	0	CKMIWUDD	"4" Expecting "driver done" (issued by non-drivers waiting for driver to revert to capable only)
1632	(660)	X'5'	0	CKMIWUAD	"5" Expecting "all done" (every participating member to revert to capable only)
1636	(664)	BITSTRING	1	CKMIWUDM	Mask of delayed members w/ pending user state change
		Driver selection information			
1640	(668)	SIGNED	4	(0)	Alignment
1640	(668)	BITSTRING	0	CKMIDS(0)	Driver selection info

Table 74. Structure CKM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1640	(668)	SIGNED	4	CKMIDSBG(0)	Begin driver selection info
1640	(668)	BITSTRING	1	CKMIDFLG	Reconfig reason flags
		1...		CKMIDFOV	"B'10000000'" - Use OPVERIFY=YES
		.1..		CKMIDFI1	"B'01000000'" - I/O error on CKPT1
		..1.		CKMIDFI2	"B'00100000'" - I/O error on CKPT2
1640	(668)	X'60'	0	CKMIDFIO	"CKMIDFI1+CKMIDFI2" - I/O error on CKPTn
		...1		CKMIDFCV	"B'00010000'" - CKPT on volatile CF
		.... 1...		CKMIDFOR	"B'00001000'" - Operator requested dialog
		.... .1..		CKMIDFCN	"B'00000100'" - Cancelled by JES2
		.... ..1.		CKMIDFHU	"B'00000010'" - Pending HFAM update
		1		CKMIDFST	"B'00000001'" - Set CKPTDEF command (also sets CKMIDFOR)
1641	(669)	BITSTRING	3		Reserved
1644	(66C)	SIGNED	4	CKMIDSOS	Operation sequence number
1648	(670)	BITSTRING	4	CKMIDCON	Console ID or zero
1652	(674)	SIGNED	4	CKMIDSI1	Number of CKPT1 I/O errors
1656	(678)	SIGNED	4	CKMIDSI2	Number of CKPT2 I/O errors
1660	(67C)	CHARACTER	4	CKMIDNAM	Name of driving member
1664	(680)	CHARACTER	128	CKMIDPMV	Participating memb names
1792	(700)	BITSTRING	308	CKMIDSHF	HFAM to initially use for this reconfig instance
2100	(834)	SIGNED	4	CKMIDSEN(0)	End driver selection info
Reason codes for $K28 errors					
2100	(834)	X'1'	0	CKMIECKM	"1" CKM eyecatcher error
2100	(834)	X'2'	0	CKMIESND	"2" STRT called again w/o DONE
2100	(834)	X'3'	0	CKMIECNS	"3" SYNC called before STRT
2100	(834)	X'4'	0	CKMIECAN	"4" SYNC called after reconfig cancelled by JES2
2100	(834)	X'5'	0	CKMIEDNS	"5" DONE called before STRT
2100	(834)	X'6'	0	CKMIESTE	"6" More than one reconfig reason in parm list
2100	(834)	X'7'	0	CKMIECTE	"7" Sync type (CKMCTYPE) mismatch detected by this non-driving member
2100	(834)	X'8'	0	CKMIESWD	"8" Non-driving member called CKRRSYNC when driving member called CKRRDONE
2100	(834)	X'9'	0	CKMIEDWS	"9" Non-driving member called CKRRDONE when driving member called CKRRSYNC
2100	(834)	X'A'	0	CKMIEIEC	"10" Internal eyecatcher error (Possible storage overlay from STRT/SYNC parm list)

Table 74. Structure CKM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Register save area, $ERROR reason code, and $Kxx error code index. Fields are set by the $CKRRRC, $CKRRV and $CKRRK30 macros and CRERROR routine.			
2100	(834)	SIGNED	4	CKMIKRGS(3)	R14, R15, R0 at time of error
2112	(840)	SIGNED	4	CKMIKRSN(0)	$Kxx reason code set from
2112	(840)	BITSTRING	1	CKMIKRSF	- (CKMIFUNC) Function code
2113	(841)	BITSTRING	1	CKMIKRSS	- (CKMIFLG2) Status flags
2114	(842)	ADDRESS	1	CKMIKRST	- (CKMIXERT) Error type
2115	(843)	ADDRESS	1	CKMIKRSX	- (CKMILSTX) Last IXZXIXxx
2116	(844)	ADDRESS	1	CKMIKXX	$Kxx error code index
2116	(844)	X'1'	0	CKMIK29	"1" - Fail with $K29 error - JESXCF data
2116	(844)	X'2'	0	CKMIK30	"2" - Fail with $K30 error - HASPCKRR internal logic
2116	(844)	X'3'	0	CKMIK34	"3" - Fail with $K34 error - JESXCF return code
		Footprint information Caution: Footprints are used for diagnosis ONLY and are NOT tested to control the flow or logic in reconfiguration routines. Using footprints to control main-line logic diminishes their value as an independent diagnosis tool, and could cause the diagnostic data to become part of a problem instead of an aid for problem determination. Function footprint codes			
2117	(845)	BITSTRING	1	CKMIFUNC	Function being performed
		111.		CKMIFURM	"B'11100000'" - CKRRxxxx routine mask
		..1.		CKMIFURI	"B'00100000'" - CKRRINIT routine called
		.1..		CKMIFURS	"B'01000000'" - CKRRSTRT routine called
		.11.		CKMIFURC	"B'01100000'" - CKRRSYNC routine called
		1...		CKMIFURD	"B'10000000'" - CKRRDONE routine called
		...1		CKMIFUDR	"B'00010000'" - Driver path if bit on (set/reset by mult rtns)
		.... 1...		CKMIFUIF	"B'00001000'" - In routine IFGETVER
		.... .1..		CKMIFUWU	"B'00000100'" - In routine WUSTATE
		.... ..1.		CKMIFUDS	"B'00000010'" - In routine DSELECT
		1		CKMIFUIM	"B'00000001'" - In routine IMPROC
		Last IXZXIXxx function footprint			
2118	(846)	ADDRESS	1	CKMILSTX	Last JESXCF function
2118	(846)	X'1'	0	CKMILXAC	"1" - Acknowledge message
2118	(846)	X'2'	0	CKMILXIF	"2" - Obtain member information

Table 74. Structure CKM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2118	(846)	X'3'	0	CKMILXMB	"3" - Create mailbox
2118	(846)	X'4'	0	CKMILXMC	"4" - Clear mailbox
2118	(846)	X'5'	0	CKMILXMD	"5" - Delete mailbox
2118	(846)	X'6'	0	CKMILXRM	"6" - Receive message
2118	(846)	X'7'	0	CKMILXSM	"7" - Send message
2118	(846)	X'8'	0	CKMILXUS	"8" - Call to XCFUSTAT to update XCF user state
	Specific error type Error type equates have the form: CKMIXExx for JESXCF related $K29 and $K34 errors CKMIIExx for HASPCKRR internal logic $K30 errors				
2119	(847)	ADDRESS	1	CKMIXERT	Error type
Error types for JESXCF related $K29 or $K34 errors					
2119	(847)	X'1'	0	CKMIXERC	"1" - Unexpected return code (Used for $K34 only)
2119	(847)	X'2'	0	CKMIXEDA	"2" - IXZXIXRM DATA= addr is 0
2119	(847)	X'3'	0	CKMIXEZL	"3" - IXZXIXRM DATALEN is 0
2119	(847)	X'4'	0	CKMIXEZT	"4" - IXZXIXSM/IF REQTOKEN is 0
2119	(847)	X'5'	0	CKMIXEEE	"5" - YIXEN eyecatcher error
2119	(847)	X'6'	0	CKMIXEER	"6" - YIXEN system RC is not 0
2119	(847)	X'7'	0	CKMIXEES	"7" - YIXEN rsn code is not 0
2119	(847)	X'8'	0	CKMIXEEV	"8" - YIXEN not for sys event
2119	(847)	X'9'	0	CKMIXEEO	"9" - YIXEN msg offset is 0
2119	(847)	X'A'	0	CKMIXEEL	"10" - YIXEN msg length is 0
2119	(847)	X'B'	0	CKMIXEEC	"11" - YIXEN inconsistent length
2119	(847)	X'C'	0	CKMIXESE	"12" - YIXSE eyecatcher error
2119	(847)	X'D'	0	CKMIXESO	"13" - YIXSE msg offset is 0
2119	(847)	X'E'	0	CKMIXESM	"14" - YIXSE offset points past end of msg
2119	(847)	X'F'	0	CKMIXESI	"15" - YIXSE not for member info
2119	(847)	X'10'	0	CKMIXEIE	"16" - YIXIF eyecatcher error
2119	(847)	X'11'	0	CKMIXEIL	"17" - YIXIF length greater than remaining msg len
2119	(847)	X'12'	0	CKMIXEIG	"18" - YIXIF group name error
2119	(847)	X'13'	0	CKMIXEIP	"19" - YIXIF member name not blank padded
2119	(847)	X'14'	0	CKMIXEID	"20" - YIXIF duplicate member #
2119	(847)	X'15'	0	CKMIXEIO	"21" - YIXIF offset inconsistent with YIXIF length
2119	(847)	X'16'	0	CKMIXEIB	"22" - YIXIF offset past msg end
2119	(847)	X'17'	0	CKMIXEIU	"23" - YIXIF own memb # missing
2119	(847)	X'18'	0	CKMIXEIN	"24" - YIXIF own name mismatch
2119	(847)	X'19'	0	CKMIXEAE	"25" - YIXAC eyecatcher error
2119	(847)	X'1A'	0	CKMIXEAC	"26" - YIXAC inconsistent length
2119	(847)	X'1B'	0	CKMIXEAO	"27" - YIXAC msg offset is 0
Error types for HASPCKRR internal logic $K30 errors					
2119	(847)	X'0'	0	CKMIIEUN	"0" Unknown error type
2119	(847)	X'1'	0	CKMIIEIL	"1" Internal logic error
2119	(847)	X'2'	0	CKMIIESU	"2" Non-start-up msg received in start-up mailbox
2119	(847)	X'3'	0	CKMIIEMT	"3" Unexpected msg type received

Table 74. Structure CKM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2119	(847)	X'4'	0	CKMIIEMS	"4" Cannot find a REQTOKEN in CKMISMRT token vector
2119	(847)	X'5'	0	CKMIIEIN	"5" Message type does not match envelope
2119	(847)	X'6'	0	CKMIIEOS	"6" Sync operation sequence number mismatch
2119	(847)	X'7'	0	CKMIIEDF	"7" Inconsistent view of driver failed status
2119	(847)	X'8'	0	CKMIIEIR	"8" Unexpected return code from IMPROC
2119	(847)	X'9'	0	CKMIIEIM	"9" Invalid member number passed to subroutine
2119	(847)	X'A'	0	CKMIIEDE	"10" Non-zero DOM ID found on a DOMDELAY verify call
2119	(847)	X'B'	0	CKMIIEHD	"11" We are driving when there is another driver with a lower member number
2119	(847)	X'C'	0	CKMIIEMD	"12" Multiple members with MUST in XCF user state and we aren't the lowest MUST drive member #
2119	(847)	X'D'	0	CKMIIEAD	"13" IMPROC is processing an appl msg, but we do not have a driver or driver candidate
2119	(847)	X'E'	0	CKMIIEEY	"14" Invalid CKX eyecatcher
2119	(847)	X'F'	0	CKMIIEMH	"15" Invalid msg type passed to MHEADER routine
		IXZXIXxx macro return and reason codes			
2120	(848)	SIGNED	4	CKMIRTNC	Last IXZXIXxx return code (except for IXZXIXUS)
2124	(84C)	SIGNED	4	CKMIRSNC	Last IXZXIXxx reason code (except for IXZXIXUS)
		Other footprints			
2128	(850)	SIGNED	4	CKMIIFRC	Last IFGETVER return code
2132	(854)	SIGNED	4	CKMIIMRC	Last IMPROC return code
2136	(858)	SIGNED	4		Reserved
		Data associated with IXZXIXxx services General use data			
2136	(858)	X'8'	0	CKMITOKL	"8" Length of JESXCF msg token
2140	(85C)	SIGNED	4	CKMICRML	Current residual msg length
2144	(860)	SIGNED	4	CKMIMSGL	Length of msg/ack to send
2148	(864)	CHARACTER	1	CKMISMNA	XCF member name to send to
		Data returned from IXZXIXIF for member information			
2164	(874)	BITSTRING	1	CKMIIFRT	Request token (REQTOKEN=)
		Data returned from IXZXIXRM for a system event			
2172	(87C)	ADDRESS	4	CKMIRMED	Addr of message (DATA=)
2176	(880)	SIGNED	4	CKMIRMEL	Length of msg (DATALEN=)
2180	(884)	BITSTRING	1	CKMIRMET	Message token (MSGTOKEN=)
		Data returned from IXZXIXRM for a message or ack			
2188	(88C)	ADDRESS	4	CKMIRMMD	Addr of message (DATA=)

Table 74. Structure CKM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2192	(890)	SIGNED	4	CKMIRMML	Length of msg (DATALEN=)
2196	(894)	BITSTRING	8	CKMIRMMT	Message token (MSGTOKEN=)
2204	(89C)	SIGNED	4		Reserved
2208	(8A0)	SIGNED	4	CKMIRMSN	Sending member number (set by IMPROC routine)
2212	(8A4)	BITSTRING	1	CKMIRMAC	Req token from ack's YIXAC (set by IMPROC routine)
		Data returned from IXZXIXSM			
2220	(8AC)	BITSTRING	1	CKMISMRT	Request tokens (REQTOKEN=). One for each member number
		Data associated with $BLDMSG usage			
--IBMSG	$BLDMSG MF=L List form of $BLDMSG				
2476	(9AC)	SIGNED	4	CKMIBMSG(0)	Control block ID
2480	(9B0)	BITSTRING	4		Console ID
2484	(9B4)	ADDRESS	4		Address of the CART
2488	(9B8)	ADDRESS	4		Pointer for JOBID
2492	(9BC)	ADDRESS	4		Control block address
2496	(9C0)	ADDRESS	4		Display routine address
2500	(9C4)	ADDRESS	4	(6)	6 word work area
2524	(9DC)	ADDRESS	4		Caller's R11 value
2528	(9E0)	BITSTRING	2		ROUT code for Message
2530	(9E2)	BITSTRING	2		Not used
2532	(9E4)	CHARACTER	4		Message ID
2536	(9E8)	CHARACTER	1		Separator character
2537	(9E9)	ADDRESS	1		Flag byte 1
2538	(9EA)	ADDRESS	1		'DISPER'
2539	(9EB)	ADDRESS	1		Flag byte 2
2540	(9EC)	ADDRESS	1		Flag byte 3
2541	(9ED)	CHARACTER	8		Symbolic name of dest.
2549	(9F5)	BITSTRING	15		Not used
2564	(A04)	ADDRESS	4	(0)	Ensure multiple of 4
2564	(A04)	ADDRESS	2	(0)	
0	(0)	X'58'	0	CKMIBMLN	"*-CKMIBMSG" Length of $BLDMSG MF=L
2564	(A04)	SIGNED	4	CKMID254	DOM ID for HASP254/709 msg
2568	(A08)	BITSTRING	128	CKMID257	DOM ID vector for HASP257
2696	(A88)	CHARACTER	4	CKMIDMCM	HASP257 causing member name
2700	(A8C)	ADDRESS	1	CKMIDMAC	HASP257 waiting for action
2700	(A8C)	X'1'	0	CKMIDMA1	"1" - Reconfig starting
2700	(A8C)	X'2'	0	CKMIDMA2	"2" - Driver commit
2700	(A8C)	X'3'	0	CKMIDMA3	"3" - Reconfig commit
2700	(A8C)	X'4'	0	CKMIDMA4	"4" - JESXCF msg from driver
2700	(A8C)	X'5'	0	CKMIDMA5	"5" - JESXCF ack from non-drv
2700	(A8C)	X'6'	0	CKMIDMA6	"6" - Driver decommit
2700	(A8C)	X'7'	0	CKMIDMA7	"7" - Reconfig decommit
2701	(A8D)	CHARACTER	2	CKMIDMMT	First two chars of CKXMEYE for HASP257 message
2703	(A8F)	BITSTRING	5		Reserved
		List form macros for JESXCF services			
2712	(A98)	DBL WORD	8	CKMIXLST(0)	JESXCF list form macros

Table 74. Structure CKM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
------- IXZXIXAC MF=(L,CKMIIXAC) Acknowledge message MACDATE -11/12/03-<1>					
0	(0)	X'A98'	0	M00M1086	"CKMIIXAC" ++ IXZXIXAC NAME
2712	(A98)	DBL WORD	8	CKMIIXAC(0)	++ IXZXIXAC PARM LIST
2712	(A98)	BITSTRING	1	CKMIIXAC_XVERSION	++ INPUT XVERSION
2713	(A99)	CHARACTER	6	CKMIIXAC_XEYECATCH	++ CONSTANT XEYECATCH
2719	(A9F)	BITSTRING	1	CKMIIXAC_XSTB	++ INPUT
		1...		CKMIIXAC_XSTB_NO	"B'10000000'" ++ XSTB.NO KEYWORD
		.1..		CKMIIXAC_XSTB_YES	"B'01000000'" ++ XSTB.YES KEYWORD
2720	(AA0)	BITSTRING	8	CKMIIXAC_XMSGTOKEN	++ XMSGTOKEN
2728	(AA8)	ADDRESS	4	CKMIIXAC_XDATA	++ XDATA
2732	(AAC)	SIGNED	4	CKMIIXAC_XDATALEN	++ XDATALEN
2736	(AB0)	SIGNED	4	CKMIIXAC_XUSERRC	++ XUSERRC
2740	(AB4)	SIGNED	4	CKMIIXAC_XGROUPTOKEN	++ XGROUPTOKEN
2744	(AB8)	SIGNED	4	CKMIIXAC_XSYSRC	++ XSYSRC
2748	(ABC)	SIGNED	4	CKMIIXAC_XSYSRSN	++ XSYSRSN
2752	(AC0)	BITSTRING	1	CKMIIXAC_XKEYS	++ FIELD_LABEL
		1...		CKMIIXAC_KEYUSED_DATA	"B'10000000'" ++ KEYUSED.DATA KEYWORD
		.1..		CKMIIXAC_KEYUSED_DATALEN	"B'01000000'" ++ KEYUSED.DATALEN KEYWORD
		..1.		CKMIIXAC_KEYUSED_USERRC	"B'00100000'" ++ KEYUSED.USERRC KEYWORD
		...1		CKMIIXAC_KEYUSED_SYSRC	"B'00010000'" ++ KEYUSED.SYSRC KEYWORD
		.... 1...		CKMIIXAC_KEYUSED_SYSRSN	"B'00001000'" ++ KEYUSED.SYSRSN KEYWORD
2753	(AC1)	BITSTRING	1	CKMIIXAC_XMSGATTR	++ INPUT
		1...		CKMIIXAC_XMSGATTR_J3CONNECT	"B'10000000'" ++ XMSGATTR.J3CONNECT KEYWORD
		.1..		CKMIIXAC_XMSGATTR_EXPRESS	"B'01000000'" ++ XMSGATTR.EXPRESS KEYWORD
2753	(AC1)	X'2A'	0	CKMIIXACL	"*-CKMIIXAC" ++ LENGTH OF PLIST
				IXZXIXAC-1	
------- IXZXIXIF MF=(L,CKMIIXIF) Obtain member information MACDATE -11/12/03-<2>					
0	(0)	X'A98'	0	M00M1088	"CKMIIXIF" ++ IXZXIXIF NAME
2712	(A98)	DBL WORD	8	CKMIIXIF(0)	++ IXZXIXIF PARM LIST
2712	(A98)	BITSTRING	1	CKMIIXIF_XVERSION	++ INPUT XVERSION
2713	(A99)	CHARACTER	6	CKMIIXIF_XEYECATCH	++ CONSTANT XEYECATCH
2719	(A9F)	CHARACTER	1	CKMIIXIF_XRSV0001	++ RESERVED XRSV0001
2720	(AA0)	SIGNED	4	CKMIIXIF_XGROUPTOKEN	++ XGROUPTOKEN
2724	(AA4)	CHARACTER	16	CKMIIXIF_XREQMBOX	++ XREQMBOX
2740	(AB4)	CHARACTER	8	CKMIIXIF_XREQTOKEN	++ XREQTOKEN
2748	(ABC)	ADDRESS	4	CKMIIXIF_XANSAREA	++ XANSAREA
2752	(AC0)	SIGNED	4	CKMIIXIF_XANSLEN	++ XANSLEN
2756	(AC4)	BITSTRING	1	CKMIIXIF_XINFOLVL	++ INPUT
		1...		CKMIIXIF_XINFOLVL_GROUP	"B'10000000'" ++ XINFOLVL.GROUP KEYWORD

Table 74. Structure CKM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		CKMIIXIF_XINFOLVL_MEMBER	"B'01000000'" ++ XINFOLVL.MEMBER KEYWORD
2757	(AC5)	BITSTRING	1	CKMIIXIF_XKEYS	++ FIELD_LABEL
		1...		CKMIIXIF_KEYUSED_REQMBOX	"B'10000000'" ++ KEYUSED.REQMBOX KEYWORD
		.1..		CKMIIXIF_KEYUSED_ANSAREA	"B'01000000'" ++ KEYUSED.ANSAREA KEYWORD
		..1.		CKMIIXIF_KEYUSED_GROUPTOKEN	"B'00100000'" ++ KEYUSED.GROUPTOKEN KEYWORD
		...1		CKMIIXIF_KEYUSED_GROUPNAME	"B'00010000'" ++ KEYUSED.GROUPNAME KEYWORD
2758	(AC6)	BITSTRING	1	CKMIIXIF_XSTATE	++ INPUT
		1...		CKMIIXIF_XSTATE_ANY	"B'10000000'" ++ XSTATE.ANY KEYWORD
		.1..		CKMIIXIF_XSTATE_ACTIVE	"B'01000000'" ++ XSTATE.ACTIVE KEYWORD
2759	(AC7)	BITSTRING	1	CKMIIXIF_XSYSTEM	++ INPUT
		1...		CKMIIXIF_XSYSTEM_ANY	"B'10000000'" ++ XSYSTEM.ANY KEYWORD
		.1..		CKMIIXIF_XSYSTEM_CURRENT	"B'01000000'" ++ XSYSTEM.CURRENT KEYWORD
2760	(AC8)	BITSTRING	1	CKMIIXIF_XPOLYJES	++ INPUT
		1...		CKMIIXIF_XPOLYJES_YES	"B'10000000'" ++ XPOLYJES.YES KEYWORD
		.1..		CKMIIXIF_XPOLYJES_NO	"B'01000000'" ++ XPOLYJES.NO KEYWORD
2761	(AC9)	BITSTRING	2	CKMIIXIF_XFUNCTION	++ INPUT
2761	(AC9)	BITSTRING	0	CKMIIXIF_XFUNCTION_ARM	"B'1000000000000000'" ++ XFUNCTION.ARM KEYWORD
2763	(ACB)	CHARACTER	8	CKMIIXIF_XGROUPNAME	++ XGROUPNAME
2763	(ACB)	X'3B'	0	CKMIIXIFL	"*-CKMIIXIF" ++ LENGTH OF PLIST
				IXZXIXIF-2	
------- IXZXIXMB MF=(L,CKMIIXMB) Create mailbox MACDATE -93/05/10-<1>					
2712	(A98)	SIGNED	2	M00M1089(0)	IXZXIXMB-1
2712	(A98)	DBL WORD	8	CKMIIXMB(0)	++ IXZXIXMB PARM LIST
2712	(A98)	BITSTRING	1	CKMIIXMB_XVERSION	++ INPUT XVERSION
2713	(A99)	CHARACTER	6	CKMIIXMB_XEYECATCH	++ CONSTANT XEYECATCH
2719	(A9F)	CHARACTER	1	CKMIIXMB_XRSV0001	++ RESERVED XRSV0001
2720	(AA0)	CHARACTER	16	CKMIIXMB_XMBOXNAME	++ XMBOXNAME
2736	(AB0)	ADDRESS	4	CKMIIXMB_XPOSTXIT	++ XPOSTXIT
2740	(AB4)	ADDRESS	4	CKMIIXMB_XPOSTDATA	++ XPOSTDATA
2744	(AB8)	SIGNED	4	CKMIIXMB_XPOSTALET	++ XPOSTALET
2748	(ABC)	SIGNED	4	CKMIIXMB_XGROUPTOKEN	++ XGROUPTOKEN
2752	(AC0)	BITSTRING	1	CKMIIXMB_XSYSEVENTS	++ FIELD_LABEL
		1...		CKMIIXMB_XSYSEVENT_YES	"B'10000000'" ++ XSYSEVENT.YES KEYWORD
		.1..		CKMIIXMB_XSYSEVENT_NO	"B'01000000'" ++ XSYSEVENT.NO KEYWORD
2752	(AC0)	X'29'	0	CKMIIXMBL	"*-CKMIIXMB" ++ LENGTH OF PLIST

Table 74. Structure CKM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
				IXZXIXMB-1	
------- IXZXIXMC MF=(L,CKMIIXMC) Clear mailbox MACDATE -93/05/10-<1>					
2712	(A98)	SIGNED	2	M00M1090(0)	IXZXIXMC-1
2712	(A98)	DBL WORD	8	CKMIIXMC(0)	++ IXZXIXMC PARM LIST
2712	(A98)	BITSTRING	1	CKMIIXMC_XVERSION	++ INPUT XVERSION
2713	(A99)	CHARACTER	6	CKMIIXMC_XEYECATCH	++ CONSTANT XEYECATCH
2719	(A9F)	BITSTRING	1	CKMIIXMC_XSTB	++ INPUT
		1...		CKMIIXMC_XSTB_NO	"B'10000000'" ++ XSTB.NO KEYWORD
		.1..		CKMIIXMC_XSTB_YES	"B'01000000'" ++ XSTB.YES KEYWORD
2720	(AA0)	CHARACTER	16	CKMIIXMC_XMBOXNAME	++ XMBOXNAME
2736	(AB0)	SIGNED	4	CKMIIXMC_XGROUPTOKEN	++ XGROUPTOKEN
2736	(AB0)	X'1C'	0	CKMIIXMCL	"*-CKMIIXMC" ++ LENGTH OF PLIST
				IXZXIXMC-1	
------- IXZXIXMD MF=(L,CKMIIXMD) Delete mailbox MACDATE -93/05/10-<1>					
2712	(A98)	SIGNED	2	M00M1091(0)	IXZXIXMD-1
2712	(A98)	DBL WORD	8	CKMIIXMD(0)	++ IXZXIXMD PARM LIST
2712	(A98)	BITSTRING	1	CKMIIXMD_XVERSION	++ INPUT XVERSION
2713	(A99)	CHARACTER	6	CKMIIXMD_XEYECATCH	++ CONSTANT XEYECATCH
2719	(A9F)	BITSTRING	1	CKMIIXMD_XSTB	++ INPUT
		1...		CKMIIXMD_XSTB_NO	"B'10000000'" ++ XSTB.NO KEYWORD
		.1..		CKMIIXMD_XSTB_YES	"B'01000000'" ++ XSTB.YES KEYWORD
2720	(AA0)	CHARACTER	16	CKMIIXMD_XMBOXNAME	++ XMBOXNAME
2736	(AB0)	SIGNED	4	CKMIIXMD_XGROUPTOKEN	++ XGROUPTOKEN
2736	(AB0)	X'1C'	0	CKMIIXMDL	"*-CKMIIXMD" ++ LENGTH OF PLIST
				IXZXIXMD-1	
------- IXZXIXRM MF=(L,CKMIIXRM) Receive message MACDATE -93/05/10-<1>					
2712	(A98)	SIGNED	2	M00M1092(0)	IXZXIXRM-1
2712	(A98)	DBL WORD	8	CKMIIXRM(0)	++ IXZXIXRM PARM LIST
2712	(A98)	BITSTRING	1	CKMIIXRM_XVERSION	++ INPUT XVERSION
2713	(A99)	CHARACTER	6	CKMIIXRM_XEYECATCH	++ CONSTANT XEYECATCH
2719	(A9F)	CHARACTER	1	CKMIIXRM_XRSV0001	++ RESERVED XRSV0001
2720	(AA0)	CHARACTER	16	CKMIIXRM_XMBOXNAME	++ XMBOXNAME
2736	(AB0)	ADDRESS	4	CKMIIXRM_XDATA	++ XDATA
2740	(AB4)	SIGNED	4	CKMIIXRM_XDATALEN	++ XDATALEN
2744	(AB8)	BITSTRING	8	CKMIIXRM_XMSGTOKEN	++ XMSGTOKEN
2752	(AC0)	SIGNED	4	CKMIIXRM_XGROUPTOKEN	++ XGROUPTOKEN
2756	(AC4)	BITSTRING	1	CKMIIXRM_XMSGFETCH	++ INPUT
		1...		CKMIIXRM_XMSGFETCH_ALL	"B'10000000'" ++ XMSGFETCH.ALL KEYWORD
		.1..		CKMIIXRM_XMSGFETCH_MESSAGES	"B'01000000'" ++ XMSGFETCH.MESSAGES KEYWORD
		..1.		CKMIIXRM_XMSGFETCH_SYSEVENT	

Table 74. Structure CKM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"B'00100000'" ++ XMSGFETCH.SYSEVENT KEYWORD
		...1		CKMIIXRM_XMSGFETCH_ACKS	"B'00010000'" ++ XMSGFETCH.ACKS KEYWORD
2757	(AC5)	BITSTRING	1	CKMIIXRM_XKEYS	++ FIELD_LABEL
		1...		CKMIIXRM_KEYUSED_MSGFETCH	"B'10000000'" ++ KEYUSED.MSGFETCH KEYWORD
2757	(AC5)	X'2E'	0	CKMIIXRML	"*-CKMIIXRM" ++ LENGTH OF PLIST
				IXZXIXRM-1	
------- IXZXIXSM MF=(L,CKMIIXSM) Send message MACDATE -10/16/01-<2>					
0	(0)	X'A98'	0	M00M1093	"CKMIIXSM" ++ IXZXIXSM NAME
2712	(A98)	DBL WORD	8	CKMIIXSM(0)	++ IXZXIXSM PARM LIST
2712	(A98)	BITSTRING	1	CKMIIXSM_XVERSION	++ INPUT XVERSION
2713	(A99)	CHARACTER	6	CKMIIXSM_XEYECATCH	++ CONSTANT XEYECATCH
2719	(A9F)	BITSTRING	1	CKMIIXSM_XMSGATTR	++ INPUT
		1...		CKMIIXSM_XMSGATTR_J3CONNECT	"B'10000000'" ++ XMSGATTR.J3CONNECT KEYWORD
		.1..		CKMIIXSM_XMSGATTR_EXPRESS	"B'01000000'" ++ XMSGATTR.EXPRESS KEYWORD
2720	(AA0)	CHARACTER	16	CKMIIXSM_XMBOXNAME	++ XMBOXNAME
2736	(AB0)	CHARACTER	16	CKMIIXSM_XMEMBER	++ XMEMBER
2752	(AC0)	ADDRESS	4	CKMIIXSM_XDATA	++ XDATA
2756	(AC4)	SIGNED	4	CKMIIXSM_XDATALEN	++ XDATALEN
2760	(AC8)	BITSTRING	8	CKMIIXSM_XREQTOKEN	++ XREQTOKEN
2768	(AD0)	CHARACTER	16	CKMIIXSM_XREQMBOX	++ XREQMBOX
2784	(AE0)	SIGNED	4	CKMIIXSM_XDATAALET	++ XDATAALET
2788	(AE4)	SIGNED	4	CKMIIXSM_XRESPDALT	++ XRESPDALT
2792	(AE8)	SIGNED	4	CKMIIXSM_XECB	++ XECB
2796	(AEC)	SIGNED	4	CKMIIXSM_XEXIT	++ XEXIT
2800	(AF0)	BITSTRING	8	CKMIIXSM_XCONNECT	++ XCONNECT
2808	(AF8)	SIGNED	4	CKMIIXSM_XGROUPTOKEN	++ XGROUPTOKEN
2812	(AFC)	SIGNED	4	CKMIIXSM_XUSERRC	++ XUSERRC
2816	(B00)	SIGNED	4	CKMIIXSM_XRESPDATA	++ XRESPDATA
2820	(B04)	SIGNED	4	CKMIIXSM_XRESPDLEN	++ XRESPDLEN
2824	(B08)	CHARACTER	4	CKMIIXSM_XRSV00001	++ RESERVED XRSV00001
2828	(B0C)	BITSTRING	8	CKMIIXSM_XMSGTOKEN	++ XMSGTOKEN
2836	(B14)	SIGNED	4	CKMIIXSM_XRIPSIZE	++ XRIPSIZE
2840	(B18)	BITSTRING	1	CKMIIXSM_XREQTYPE	++ INPUT
		1...		CKMIIXSM_XREQTYPE_ASYNC	"B'10000000'" ++ XREQTYPE.ASYNC KEYWORD
		.1..		CKMIIXSM_XREQTYPE_SYNC	"B'01000000'" ++ XREQTYPE.SYNC KEYWORD
		..1.		CKMIIXSM_XREQTYPE_ASYNCACK	"B'00100000'" ++ XREQTYPE.ASYNCACK KEYWORD
		...1		CKMIIXSM_XREQTYPE_COMM	"B'00010000'" ++ XREQTYPE.COMM KEYWORD
2841	(B19)	BITSTRING	1	CKMIIXSM_XSEGTYPE	++ INPUT
		1...		CKMIIXSM_XSEGTYPE_SINGLE	"B'10000000'" ++ XSEGTYPE.SINGLE KEYWORD

Table 74. Structure CKM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		CKMIIXSM_XSEGTYPE_FIRST	"B'01000000'" ++ XSEGTYPE.FIRST KEYWORD
		..1.		CKMIIXSM_XSEGTYPE_MIDDLE	"B'00100000'" ++ XSEGTYPE.MIDDLE KEYWORD
		...1		CKMIIXSM_XSEGTYPE_LAST	"B'00010000'" ++ XSEGTYPE.LAST KEYWORD
		.... 1...		CKMIIXSM_XSEGTYPE_ABORT	"B'00001000'" ++ XSEGTYPE.ABORT KEYWORD
2842	(B1A)	BITSTRING	1	CKMIIXSM_XKEYS	++ FIELD_LABEL
		1...		CKMIIXSM_KEYUSED_REQTYPE	"B'10000000'" ++ KEYUSED.REQTYPE KEYWORD
		.1..		CKMIIXSM_KEYUSED_REQTOKEN	"B'01000000'" ++ KEYUSED.REQTOKEN KEYWORD
		..1.		CKMIIXSM_KEYUSED_REQMBOX	"B'00100000'" ++ KEYUSED.REQMBOX KEYWORD
		...1		CKMIIXSM_KEYUSED_EXIT	"B'00010000'" ++ KEYUSED.EXIT KEYWORD
		.... 1...		CKMIIXSM_KEYUSED_SEGTYPE	"B'00001000'" ++ KEYUSED.SEGTYPE KEYWORD
		.... .1..		CKMIIXSM_KEYUSED_CONNECT	"B'00000100'" ++ KEYUSED.CONNECT KEYWORD
		.... ..1.		CKMIIXSM_KEYUSED_MSGTOKEN	"B'00000010'" ++ KEYUSED.MSGTOKEN KEYWORD
		1		CKMIIXSM_KEYUSED_MSGATTR	"B'00000001'" ++ KEYUSED.MSGATTR KEYWORD
2843	(B1B)	BITSTRING	1	CKMIIXSM_XKEYS1	++ FIELD_LABEL
		1...		CKMIIXSM_KEYUSED_ECB	"B'10000000'" ++ KEYUSED.ECB KEYWORD
		.1..		CKMIIXSM_KEYUSED_DATAALET	"B'01000000'" ++ KEYUSED.DATAALET KEYWORD
		..1.		CKMIIXSM_KEYUSED_RELEASE_CADS	"B'00100000'" ++ KEYUSED.RELEASE_CADS KEYWORD
		...1		CKMIIXSM_KEYUSED_RIPSIZE	"B'00010000'" ++ KEYUSED.RIPSIZE KEYWORD
2843	(B1B)	X'84'	0	CKMIIXSML IXZXIXSM-2	"*-CKMIIXSM" ++ LENGTH OF PLIST
2848	(B20)	DBL WORD	8	(0)	Alignment
2848	(B20)	X'88'	0	CKMIXLLN	"*-CKMIXLST" Length of longest list form
End of data internal to CKRRxxxx routines					
2848	(B20)	DBL WORD	8	(0)	Alignment
2848	(B20)	X'610'	0	CKMICL2L	"*-CKMICLR2" Length of area to clear in CKRRSTRT
2848	(B20)	X'670'	0	CKMICL1L	"*-CKMICLR1" Length of area to clear in CKRRSYNC or CKRRDONE
2848	(B20)	X'6F0'	0	CKMIEND	"*-CKMIDATA" Length of internal data
End of $CKM data area					
2848	(B20)	X'B20'	0	CKMLEN	"*-CKM" Length of $CKM data area PRINT ON

Table 75. Cross Reference for $CKM

Name	Offset	Hex Tag
CKM	0	
CKMCACCT	1E8	4
CKMCACF1	1E8	10
CKMCACF2	1E8	14
CKMCACNL	1E8	0
CKMCACOC	1E8	C
CKMCACRT	1E8	8
CKMCACS1	1E8	18
CKMCACS2	1E8	1C
CKMCACT	1E8	
CKMCACU1	1E8	20
CKMCACU2	1E8	24
CKMCBEGN	1D8	
CKMCCCNL	1EC	0
CKMCCCOK	1EC	4
CKMCCCUS	1EC	8
CKMCCDMN	1DC	
CKMCCONM	270	
CKMCCONV	1F0	
CKMCEND	430	
CKMCFLG1	1D8	
CKMCHFAM	2F8	
CKMCICON	1EC	
CKMCIRSN	274	
CKMCPARM	1D8	
CKMCRCDF	430	4
CKMCRCOK	430	0
CKMCRSNV	278	
CKMCTYPE	1E0	
CKMC1DMF	1D8	80
CKMC1NDM	1D8	40
CKMC1OKW	1D8	20
CKMDRCOK	430	0
CKMDRCRC	430	4
CKMERRAF	660	
CKMIBMLN	0	58
CKMIBMSG	9AC	C2D3C440
CKMICKMA	4A0	
CKMICKXA	438	
CKMICKXS	43C	
CKMICLR1	4B0	
CKMICLR2	510	
CKMICL1L	B20	670
CKMICL2L	B20	610
CKMICRET	448	
CKMICRIF	454	
CKMICRML	85C	
CKMICRSE	450	
CKMICRST	440	

Table 75. Cross Reference for $CKM (continued)

Name	Offset	Hex Tag
CKMID	0	
CKMIDATA	430	
CKMIDCNA	4C4	
CKMIDCNO	4C0	
CKMIDCON	670	
CKMIDFCN	668	4
CKMIDFCV	668	10
CKMIDFHU	668	2
CKMIDFIO	668	60
CKMIDFI1	668	40
CKMIDFI2	668	20
CKMIDFLG	668	
CKMIDFOR	668	8
CKMIDFOV	668	80
CKMIDFST	668	1
CKMIDMAC	A8C	
CKMIDMA1	A8C	1
CKMIDMA2	A8C	2
CKMIDMA3	A8C	3
CKMIDMA4	A8C	4
CKMIDMA5	A8C	5
CKMIDMA6	A8C	6
CKMIDMA7	A8C	7
CKMIDMCM	A88	
CKMIDMMT	A8D	
CKMIDMNA	4BC	
CKMIDMNO	4B8	
CKMIDNAM	67C	
CKMIDPMV	680	
CKMIDS	668	
CKMIDSBG	668	
CKMIDSEN	834	
CKMIDSHF	700	
CKMIDSI1	674	
CKMIDSI2	678	
CKMIDSOS	66C	
CKMID254	A04	
CKMID257	A08	
CKMIECAN	834	4
CKMIECKM	834	1
CKMIECNS	834	3
CKMIECTE	834	7
CKMIEDNS	834	5
CKMIEDWS	834	9
CKMIEIEC	834	A
CKMIEND	B20	6F0
CKMIESND	834	2
CKMIESTE	834	6
CKMIESWD	834	8

Table 75. Cross Reference for $CKM (continued)

Name	Offset	Hex Tag
CKMIFCT	4B3	
CKMIFLG1	470	
CKMIFLG2	4B0	
CKMIFLG3	4B1	
CKMIFUDR	845	10
CKMIFUDS	845	2
CKMIFUIF	845	8
CKMIFUIM	845	1
CKMIFUNC	845	
CKMIFURC	845	60
CKMIFURD	845	80
CKMIFURI	845	20
CKMIFURM	845	E0
CKMIFURS	845	40
CKMIFUWU	845	4
CKMIHCTA	4A4	
CKMIICNA	52C	
CKMIICNO	528	
CKMIIDNA	534	
CKMIIDNO	530	
CKMIIEAD	847	D
CKMIIEDE	847	A
CKMIIEDF	847	7
CKMIIEEY	847	E
CKMIIEHD	847	B
CKMIIEIL	847	1
CKMIIEIM	847	9
CKMIIEIN	847	5
CKMIIEIR	847	8
CKMIIEMD	847	C
CKMIIEMH	847	F
CKMIIEMS	847	4
CKMIIEMT	847	3
CKMIIEOS	847	6
CKMIIESU	847	2
CKMIIEUN	847	0
CKMIIEYE	430	
CKMIIFFC	498	64
CKMIIFFI	49C	
CKMIIFG	510	
CKMIIFGC	510	40
CKMIIFGD	510	80
CKMIIFRC	850	
CKMIIFRT	874	
CKMIIFTS	658	
CKMIIMRC	854	
CKMIIXAC	A98	
CKMIIXAC_KEYUSED_DATA	AC0	80
CKMIIXAC_KEYUSED_DATALEN	AC0	40

Table 75. Cross Reference for $CKM (continued)

Name	Offset	Hex Tag
CKMIIXAC_KEYUSED_SYSRC	AC0	10
CKMIIXAC_KEYUSED_SYSRSN	AC0	8
CKMIIXAC_KEYUSED_USERRC	AC0	20
CKMIIXAC_XDATA	AA8	
CKMIIXAC_XDATALEN	AAC	
CKMIIXAC_XEYECATCH	A99	
CKMIIXAC_XGROUPTOKEN	AB4	
CKMIIXAC_XKEYS	AC0	
CKMIIXAC_XMSGATTR	AC1	
CKMIIXAC_XMSGATTR_EXPRESS	AC1	40
CKMIIXAC_XMSGATTR_J3CONNECT	AC1	80
CKMIIXAC_XMSGTOKEN	AA0	
CKMIIXAC_XSTB	A9F	
CKMIIXAC_XSTB_NO	A9F	80
CKMIIXAC_XSTB_YES	A9F	40
CKMIIXAC_XSYSRC	AB8	
CKMIIXAC_XSYSRSN	ABC	
CKMIIXAC_XUSERRC	AB0	
CKMIIXAC_XVERSION	A98	
CKMIIXACL	AC1	2A
CKMIIXIF	A98	
CKMIIXIF_KEYUSED_ANSAREA	AC5	40
CKMIIXIF_KEYUSED_GROUPNAME	AC5	10
CKMIIXIF_KEYUSED_GROUPTOKEN	AC5	20
CKMIIXIF_KEYUSED_REQMBOX	AC5	80
CKMIIXIF_XANSAREA	ABC	
CKMIIXIF_XANSLEN	AC0	
CKMIIXIF_XEYECATCH	A99	
CKMIIXIF_XFUNCTION	AC9	
CKMIIXIF_XFUNCTION_ARM	AC9	8000
CKMIIXIF_XGROUPNAME	ACB	
CKMIIXIF_XGROUPTOKEN	AA0	
CKMIIXIF_XINFOLVL	AC4	
CKMIIXIF_XINFOLVL_GROUP	AC4	80
CKMIIXIF_XINFOLVL_MEMBER	AC4	40
CKMIIXIF_XKEYS	AC5	
CKMIIXIF_XPOLYJES	AC8	
CKMIIXIF_XPOLYJES_NO	AC8	40
CKMIIXIF_XPOLYJES_YES	AC8	80
CKMIIXIF_XREQMBOX	AA4	
CKMIIXIF_XREQTOKEN	AB4	
CKMIIXIF_XRSV0001	A9F	
CKMIIXIF_XSTATE	AC6	
CKMIIXIF_XSTATE_ACTIVE	AC6	40
CKMIIXIF_XSTATE_ANY	AC6	80
CKMIIXIF_XSYSTEM	AC7	
CKMIIXIF_XSYSTEM_ANY	AC7	80
CKMIIXIF_XSYSTEM_CURRENT	AC7	40
CKMIIXIF_XVERSION	A98	

Table 75. Cross Reference for $CKM (continued)

Name	Offset	Hex Tag
CKMIIXIFL	ACB	3B
CKMIIXMB	A98	
CKMIIXMB_XEYECATCH	A99	
CKMIIXMB_XGROUPTOKEN	ABC	
CKMIIXMB_XMBOXNAME	AA0	
CKMIIXMB_XPOSTALET	AB8	
CKMIIXMB_XPOSTDATA	AB4	
CKMIIXMB_XPOSTXIT	AB0	
CKMIIXMB_XRSV0001	A9F	
CKMIIXMB_XSYSEVENT_NO	AC0	40
CKMIIXMB_XSYSEVENT_YES	AC0	80
CKMIIXMB_XSYSEVENTS	AC0	
CKMIIXMB_XVERSION	A98	
CKMIIXMBL	AC0	29
CKMIIXMC	A98	
CKMIIXMC_XEYECATCH	A99	
CKMIIXMC_XGROUPTOKEN	AB0	
CKMIIXMC_XMBOXNAME	AA0	
CKMIIXMC_XSTB	A9F	
CKMIIXMC_XSTB_NO	A9F	80
CKMIIXMC_XSTB_YES	A9F	40
CKMIIXMC_XVERSION	A98	
CKMIIXMCL	AB0	1C
CKMIIXMD	A98	
CKMIIXMD_XEYECATCH	A99	
CKMIIXMD_XGROUPTOKEN	AB0	
CKMIIXMD_XMBOXNAME	AA0	
CKMIIXMD_XSTB	A9F	
CKMIIXMD_XSTB_NO	A9F	80
CKMIIXMD_XSTB_YES	A9F	40
CKMIIXMD_XVERSION	A98	
CKMIIXMDL	AB0	1C
CKMIIXRM	A98	
CKMIIXRM_KEYUSED_MSGFETCH	AC5	80
CKMIIXRM_XDATA	AB0	
CKMIIXRM_XDATALEN	AB4	
CKMIIXRM_XEYECATCH	A99	
CKMIIXRM_XGROUPTOKEN	AC0	
CKMIIXRM_XKEYS	AC5	
CKMIIXRM_XMBOXNAME	AA0	
CKMIIXRM_XMSGFETCH	AC4	
CKMIIXRM_XMSGFETCH_ACKS	AC4	10
CKMIIXRM_XMSGFETCH_ALL	AC4	80
CKMIIXRM_XMSGFETCH_MESSAGES	AC4	40
CKMIIXRM_XMSGFETCH_SYSEVENT	AC4	20
CKMIIXRM_XMSGTOKEN	AB8	
CKMIIXRM_XRSV0001	A9F	
CKMIIXRM_XVERSION	A98	
CKMIIXRML	AC5	2E

Table 75. Cross Reference for $CKM (continued)

Name	Offset	Hex Tag
CKMIIXSM	A98	
CKMIIXSM_KEYUSED_CONNECT	B1A	4
CKMIIXSM_KEYUSED_DATAALET	B1B	40
CKMIIXSM_KEYUSED_ECB	B1B	80
CKMIIXSM_KEYUSED_EXIT	B1A	10
CKMIIXSM_KEYUSED_MSGATTR	B1A	1
CKMIIXSM_KEYUSED_MSGTOKEN	B1A	2
CKMIIXSM_KEYUSED_RELEASE_CADS	B1B	20
CKMIIXSM_KEYUSED_REQMBOX	B1A	20
CKMIIXSM_KEYUSED_REQTOKEN	B1A	40
CKMIIXSM_KEYUSED_REQTYPE	B1A	80
CKMIIXSM_KEYUSED_RIPSIZE	B1B	10
CKMIIXSM_KEYUSED_SEGTYPE	B1A	8
CKMIIXSM_XCONNECT	AF0	
CKMIIXSM_XDATA	AC0	
CKMIIXSM_XDATAALET	AE0	
CKMIIXSM_XDATALEN	AC4	
CKMIIXSM_XECB	AE8	
CKMIIXSM_XEXIT	AEC	
CKMIIXSM_XEYECATCH	A99	
CKMIIXSM_XGROUPTOKEN	AF8	
CKMIIXSM_XKEYS	B1A	
CKMIIXSM_XKEYS1	B1B	
CKMIIXSM_XMBOXNAME	AA0	
CKMIIXSM_XMEMBER	AB0	
CKMIIXSM_XMSGATTR	A9F	
CKMIIXSM_XMSGATTR_EXPRESS	A9F	40
CKMIIXSM_XMSGATTR_J3CONNECT	A9F	80
CKMIIXSM_XMSGTOKEN	B0C	
CKMIIXSM_XREQMBOX	AD0	
CKMIIXSM_XREQTOKEN	AC8	
CKMIIXSM_XREQTYPE	B18	
CKMIIXSM_XREQTYPE_ASYNC	B18	80
CKMIIXSM_XREQTYPE_ASYNCACK	B18	20
CKMIIXSM_XREQTYPE_COMM	B18	10
CKMIIXSM_XREQTYPE_SYNC	B18	40
CKMIIXSM_XRESPDALT	AE4	
CKMIIXSM_XRESPDATA	B00	
CKMIIXSM_XRESPDLEN	B04	
CKMIIXSM_XRIPSIZE	B14	
CKMIIXSM_XRSV00001	B08	
CKMIIXSM_XSEGTYPE	B19	
CKMIIXSM_XSEGTYPE_ABORT	B19	8
CKMIIXSM_XSEGTYPE_FIRST	B19	40
CKMIIXSM_XSEGTYPE_LAST	B19	10
CKMIIXSM_XSEGTYPE_MIDDLE	B19	20
CKMIIXSM_XSEGTYPE_SINGLE	B19	80
CKMIIXSM_XUSERRC	AFC	
CKMIIXSM_XVERSION	A98	

Table 75. Cross Reference for $CKM (continued)

Name	Offset	Hex Tag
CKMIIXSML	B1B	84
CKMIKRGS	834	
CKMIKRSF	840	
CKMIKRSN	840	
CKMIKRSS	841	
CKMIKRST	842	
CKMIKRSX	843	
CKMIKXX	844	
CKMIK29	844	1
CKMIK30	844	2
CKMIK34	844	3
CKMILSTX	846	
CKMILXAC	846	1
CKMILXIF	846	2
CKMILXMB	846	3
CKMILXMC	846	4
CKMILXMD	846	5
CKMILXRM	846	6
CKMILXSM	846	7
CKMILXUS	846	8
CKMIMBNR	484	
CKMIMBNS	474	
CKMIMCLV	5B8	
CKMIMEMV	538	
CKMIMMCO	520	
CKMIMMDR	524	
CKMIMMMD	51C	
CKMIMMPM	4C8	
CKMIMMRC	514	
CKMIMMST	518	
CKMIMMWK	65C	
CKMIMSGL	860	
CKMIOSEQ	4B4	
CKMIPXRD	4A4	8
CKMIPXRM	4A4	C
CKMIPXRP	4A4	4
CKMIRMAC	8A4	
CKMIRMED	87C	
CKMIRMEL	880	
CKMIRMET	884	
CKMIRMMD	88C	
CKMIRMML	890	
CKMIRMMT	894	
CKMIRMSN	8A0	
CKMIRSNC	84C	
CKMIRTNC	848	
CKMISECI	494	3
CKMISECS	0	F
CKMISMNA	864	

Table 75. Cross Reference for $CKM (continued)

Name	Offset	Hex Tag
CKMISMRT	8AC	
CKMISTBI	494	
CKMISTCL	4E8	10
CKMISTEI	504	
CKMISTF	508	
CKMISTFE	508	20
CKMISTFI	508	80
CKMISTFM	508	40
CKMISTIF	498	
CKMISTMC	4E8	0
CKMISTME	500	
CKMISTMI	4F8	
CKMISTMM	4FC	
CKMISTMS	4D0	0
CKMISTSL	4D0	18
CKMITOKL	858	8
CKMIWUAD	660	5
CKMIWUCO	660	3
CKMIWUDD	660	4
CKMIWUDM	664	
CKMIWUDR	660	2
CKMIWUST	660	1
CKMIXEAC	847	1A
CKMIXEAE	847	19
CKMIXEAO	847	1B
CKMIXECB	458	
CKMIXEDA	847	2
CKMIXEEC	847	B
CKMIXEEE	847	5
CKMIXEEL	847	A
CKMIXEEO	847	9
CKMIXEER	847	6
CKMIXEES	847	7
CKMIXEEV	847	8
CKMIXEIB	847	16
CKMIXEID	847	14
CKMIXEIE	847	10
CKMIXEIG	847	12
CKMIXEIL	847	11
CKMIXEIN	847	18
CKMIXEIO	847	15
CKMIXEIP	847	13
CKMIXEIU	847	17
CKMIXERC	847	1
CKMIXERT	847	
CKMIXESE	847	C
CKMIXESI	847	F
CKMIXESM	847	E
CKMIXESO	847	D

Table 75. Cross Reference for $CKM (continued)

Name	Offset	Hex Tag
CKMIXEZL	847	3
CKMIXEZT	847	4
CKMIXLLN	B20	88
CKMIXLST	A98	
CKMI1CAN	470	20
CKMI1CAP	470	80
CKMI1RST	470	40
CKMI2DCO	4B0	10
CKMI2DFP	4B0	2
CKMI2DMF	4B0	4
CKMI2DRV	4B0	8
CKMI2NIH	4B0	80
CKMI2ONE	4B0	40
CKMI2RCO	4B0	20
CKMI2WSG	4B0	1
CKMI3IFT	4B1	40
CKMI3RDD	4B1	80
CKMLEN	B20	B20
CKMSBEGN	8	
CKMSDCON	C	
CKMSDNAM	14	
CKMSEND	1D8	
CKMSFLG1	8	
CKMSFLG2	9	
CKMSHFAM	A0	
CKMSLEVN	18	
CKMSMEMV	20	
CKMSNIOE	10	
CKMSPARM	8	
CKMSRCCN	1D8	4
CKMSRCOK	1D8	0
CKMS1DRV	8	40
CKMS1HUP	8	10
CKMS1MBD	8	80
CKMS1OPV	8	20
CKMS2CAN	9	8
CKMS2CKV	9	20
CKMS2IOE	9	C0
CKMS2IO1	9	80
CKMS2IO2	9	40
CKMS2OPR	9	10
CKMS2SET	9	4
CKMVERN	4	1
CKMVERSN	4	
M00M1086	0	A98
M00M1088	0	A98
M00M1089	A98	
M00M1090	A98	
M00M1091	A98	

Table 75. Cross Reference for $CKM (continued)

Name	Offset	Hex Tag
M00M1092	A98	
M00M1093	0	A98

Chapter 30. $CKPRECV Information

$CKPRECV Heading Information

Common Name:	Checkpoint recovery parameter list
Macro ID:	$CKPRECV
DSECT Name:	CKR
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	"CKR " Offset: CKRID Length: L'CKRID
Storage Attributes:	Subpool: 0 Key: 1 Residency: Virtual and real storage are anywhere in the storage of the JES2 address space
Size:	See CKRSIZE
Created by:	$CKPTDIA macro
Pointed to by:	Register 1 upon entry to KDIALOG
Serialization:	None required
Function:	The CKPRECV is used to describe the requirements of the caller of the checkpoint reconfiguration. It is $GETWORK'ed by the caller (via the $CKPTDIA macro) and $RETWORK'ed by the dialog routine.

$CKPRECV mapping

Table 76. Structure CKR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CKR	
0	(0)	CHARACTER	4	CKRID	ID PLACED HERE BY GETWORK
4	(4)	ADDRESS	4	CKRCKG	ADDRESS OF THE CKGPAR
8	(8)	ADDRESS	4	CKRCKG2	ADDR CKG FOR COMPANION DATA SET
12	(C)	BITSTRING	1	CKRFLAG1	Flag byte
		1...		CKR1IOER	"B'10000000'" Reason for call is IOERROR
		.1..		CKR1RECO	"B'01000000'" Reason for call is RECONFIG
		..1.		CKR1INIT	"B'00100000'" Reason for call is INIT
		...1		CKR1CFV	"B'00010000'" REASON=VOLATILE when dialog is entered
		.... 1...		CKR1SETC	"B'00001000'" Reason for call is SET cmnd
		.... .1..		CKR1THIS	"B'00000100'" Most up to date queues are in this system's memory
		.... ..1.		CKR1OTH	"B'00000010'" Some other system has the most up date queues

Table 76. Structure CKR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1		CKR1STAT	"B'00000001'" Use the $STATUS byte to determine if we have most up-to-date copy of the queues
13	(D)	BITSTRING	1	CKRFLAG2	Flag byte
		1...		CKR2RECR	"B'10000000'" RECURSIVE ERROR PENDING
		.1..		CKR2MIOE	"B'01000000'" The checkpoint reconfig was resulted from the I/O error on my system
		..1.		CKR2OPT7	"B'00100000'" OPTION 7/8 PROCESSING
		...1		CKR2DEL	"B'00010000'" DELETE IS VALID RESPONSE TO HASP237, HASP273, HASP278
		.... 1...		CKR2QUSE	"B'00001000'" Reset $QSONDA when finished
		.... .1..		CKR2CREA	"B'00000100'" CREATE IS VALID RESPONSE TO HASP278 MESSAGE
		.... ..1.		CKR2NCRE	"B'00000010'" CREATE IS INVALID RESPONSE TO FIRST HASP278 MESSAGE
		1		CKR2KRSV	"B'00000001'" RESERVE WAS IN EFFECT WHEN DIALOG WAS ENTERED
13	(D)	X'16'	0	CKR2KNUL	"CKR2DEL+CKR2CREA+CKR2NCRE" KNULLCHK & KDSLOC FLAGS
	ALL BIT CONFIGURATIONS FOR CKRFLAG3 ARE DEFINED IN $HASPEQU				
14	(E)	BITSTRING	1	CKRFLAG3	Flag byte (Shadowed in CKWRECF3)
15	(F)	BITSTRING	1	CKRFLAG4	Flag byte
		1...		CKR4ILEV	"B'10000000'" Increment $CKPTLEV
		.1..		CKR4LIM	"B'01000000'" Main task limited caller
		..1.		CKR4OPV	"B'00100000'" Verify reconfiguration with operator possibly due to OPVERIFY=YES specified
		...1		CKR4FWC1	"B'00010000'" Forward CKPT1
		.... 1...		CKR4FWC2	"B'00001000'" Forward CKPT2
		.... .1..		CKR4OAR	"B'00000100'" Operator assistance requested (this is used for the issuance of HASP235 message)
		.... ..1.		CKR4RSM1	"B'00000010'" Resume CKPT1
		1		CKR4RSM2	"B'00000001'" Resume CKPT2
16	(10)	BITSTRING	1	CKRFLAG5	DISPER flag for HASPMSG
		1...		CKR5CRC	"B'10000000'" Reconfig Complete -255
		.1..		CKR5CRCO	"B'01000000'" Reconfig Cancelled by Operator -255
		..1.		CKR5CRCJ	"B'00100000'" Reconfig Cancelled by JES2 -255
		...1		CKR5CRFA	"B'00010000'" Reconfig failed -255

Table 76. Structure CKR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
17	(11)	BITSTRING	1	CKRFLAG6	More invocation flags
		1...		CKR6SOFT	"B'10000000'" Soft error (detected by JES2)
		.1..		CKR62NDR	"B'01000000'" Secondary reason code exists
18	(12)	CHARACTER	2	CKR2NDR	Secondary reason code
20	(14)	BITSTRING	1	CKRDSETR	Local copy of CKWDSETR
21	(15)	BITSTRING	3		Reserved
24	(18)	SIGNED	4	CKRCOUNT	The number of members unable to reconfigure
28	(1C)	CHARACTER	8	CKRMODN	Module that issued $CKPTDIA
36	(24)	CHARACTER	8	CKRSEQN	Sequence number of issuer
	CKRCACT contains an "action" code set by the driving member that tells non-driving members what to do. This is copied from CKMCACT and its values are mapped in the $CKM.				
44	(2C)	SIGNED	4	CKRCACT	Reconfig "action" saved for undoing reconfig
48	(30)	CHARACTER	4	CKRAERRC	$ERROR CODE FOR HASP275 MESSAGE
52	(34)	ADDRESS	4	CKRACODE	ADDR OF $ERROR MACRO TO BE USED IF ALL ELSE FAILS
56	(38)	SIGNED	4	CKRRTCD1	Return code from KDLRECON or KDLINITC routine
	ALL WTO DOM IDS ARE KEPT HERE				
60	(3C)	ADDRESS	4	CKRDMFST(0)	FIRST DOM ID
60	(3C)	SIGNED	4	CKRDM233	DOM ID for message HASP233
64	(40)	SIGNED	4	CKRDM235	DOM ID for message HASP235
68	(44)	SIGNED	4	CKRDM237	DOM ID for message HASP237
72	(48)	SIGNED	4	CKRDM270	DOM ID FOR MESSAGE HASP270
76	(4C)	SIGNED	4	CKRDM271	DOM ID FOR MESSAGE HASP271
80	(50)	SIGNED	4	CKRDM272	DOM ID FOR MESSAGE HASP272
84	(54)	SIGNED	4	CKRDM273	DOM ID FOR MESSAGE HASP273
88	(58)	SIGNED	4	CKRDM275	DOM ID FOR MESSAGE HASP275
92	(5C)	SIGNED	4	CKRDM276	DOM ID FOR MESSAGE HASP276
96	(60)	SIGNED	4	CKRDM277	DOM ID FOR MESSAGE HASP277
100	(64)	SIGNED	4	CKRDM278	DOM ID FOR MESSAGE HASP278
104	(68)	SIGNED	4	CKRDM281	DOM ID FOR MESSAGE HASP281
108	(6C)	SIGNED	4	CKRDM282	DOM ID FOR MESSAGE HASP282
112	(70)	SIGNED	4	CKRDM284	DOM ID FOR MESSAGE HASP284
116	(74)	SIGNED	4	CKRDM285	DOM ID FOR MESSAGE HASP285
120	(78)	SIGNED	4	CKRDM294	DOM ID FOR MESSAGE HASP294
124	(7C)	SIGNED	4	CKRDM299	DOM ID FOR MESSAGE HASP299
128	(80)	SIGNED	4	CKRDMINT	DOM ID for init statement
128	(80)	X'80'	0	CKRDMLST	"*-4" LAST DOM ID
	THE WTOR ECB				
132	(84)	ADDRESS	4	CKRECB(0)	ECB USED FOR ALL WTOR'S
156	(9C)	ADDRESS	4	CKRSAVHF	ANCHOR FOR SAVED HFAM'S
160	(A0)	CHARACTER	8	CKRCKPTD	'CKPTDEF' when needed
168	(A8)	CHARACTER	144	CKRESPON	ALL REPLIES TO WTOR'S COME HERE
------ $BLDMSG MF=L List form of $BLDMSG					

Table 76. Structure CKR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
312	(138)	SIGNED	4	CKRMSGL(0)	Control block ID
316	(13C)	BITSTRING	4		Console ID
320	(140)	ADDRESS	4		Address of the CART
324	(144)	ADDRESS	4		Pointer for JOBID
328	(148)	ADDRESS	4		Control block address
332	(14C)	ADDRESS	4		Display routine address
336	(150)	ADDRESS	4	(6)	6 word work area
360	(168)	ADDRESS	4		Caller's R11 value
364	(16C)	BITSTRING	2		ROUT code for Message
366	(16E)	BITSTRING	2		Not used
368	(170)	CHARACTER	4		Message ID
372	(174)	CHARACTER	1		Separator character
373	(175)	ADDRESS	1		Flag byte 1
374	(176)	ADDRESS	1		'DISPER'
375	(177)	ADDRESS	1		Flag byte 2
376	(178)	ADDRESS	1		Flag byte 3
377	(179)	CHARACTER	8		Symbolic name of dest.
385	(181)	BITSTRING	15		Not used
400	(190)	ADDRESS	4	(0)	Ensure multiple of 4
400	(190)	ADDRESS	2	(0)	
400	(190)	ADDRESS	4	CKRCKGW	Spare CKG pointer
404	(194)	ADDRESS	4	CKRECLST(2)	ECB LIST
		BLD parameter list used as $SCAN token by the $MSGDISR display routine			
-------		$BLDMSG MF=L For HASP272 init stmt reply			
412	(19C)	SIGNED	4	CKRSDBLD(0)	Control block ID
416	(1A0)	BITSTRING	4		Console ID
420	(1A4)	ADDRESS	4		Address of the CART
424	(1A8)	ADDRESS	4		Pointer for JOBID
428	(1AC)	ADDRESS	4		Control block address
432	(1B0)	ADDRESS	4		Display routine address
436	(1B4)	ADDRESS	4	(6)	6 word work area
460	(1CC)	ADDRESS	4		Caller's R11 value
464	(1D0)	BITSTRING	2		ROUT code for Message
466	(1D2)	BITSTRING	2		Not used
468	(1D4)	CHARACTER	4		Message ID
472	(1D8)	CHARACTER	1		Separator character
473	(1D9)	ADDRESS	1		Flag byte 1
474	(1DA)	ADDRESS	1		'DISPER'
475	(1DB)	ADDRESS	1		Flag byte 2
476	(1DC)	ADDRESS	1		Flag byte 3
477	(1DD)	CHARACTER	8		Symbolic name of dest.
485	(1E5)	BITSTRING	15		Not used
500	(1F4)	ADDRESS	4	(0)	Ensure multiple of 4
500	(1F4)	ADDRESS	2	(0)	
		GENERATE ENOUGH SPACE TO HANDLE ALL POSSIBLE RESPONSES TO THE HASP272 MESSAGE. THE LENGTH INCLUDES 1 BYTE FOR THE LENGTH; 1 BYTE FOR THE RESPONSE; AND 4 BYTES FOR THE ADDRESS OF THE PROCESSING ROUTINES. THERE ARE TWO ENTRIES AT THE END FOR CKPTDEF AND CANCEL.			
500	(1F4)	BITSTRING	72	CKRVECTR	RESPONSE VECTOR

Table 76. Structure CKR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
572	(23C)	BITSTRING	72	CKRHFAME	TEMPORARY HFAME
644	(284)	BITSTRING	1	CKRMFLAG	FLAG BYTE USED FOR MESSAGE CREATION
	PARAMETER LIST FOR KTRK1IO ROUTINE				
648	(288)	ADDRESS	4	CKRPARMX(0)	PARAMETER LIST FOR $CALLS
648	(288)	ADDRESS	4	CKRTCKG1	ADDRESS OF CKG1
652	(28C)	ADDRESS	4	CKRTCKG2	ADDRESS OF CKG2
656	(290)	ADDRESS	4	CKRTKYR1	ADDRESS OF KEY COMP FOR DS1
660	(294)	ADDRESS	4	CKRTKYR2	ADDRESS OF KEY COMP FOR DS2
664	(298)	ADDRESS	4	CKRTKYW1	ADDRESS KEY WRITE FOR DS1
668	(29C)	ADDRESS	4	CKRTKYW2	ADDRESS KEY WRITE FOR DS2
668	(29C)	X'288'	0	CKRPARM	"CKRPARMX,*-CKRPARMX" PARAMETER LIST
648	(288)	BITSTRING	12	CKRTQE	TQE AREA
672	(2A0)	ADDRESS	4	CKRCVCKG	ADDRESS OF CKG WHICH HAS HAD AN I/O ERROR AS A COMPANION
676	(2A4)	ADDRESS	4		RESERVED FOR FUTURE USE
680	(2A8)	ADDRESS	4	(0)	ENSURE WORK AREA ENDS ON WORD BOUNDARY
	Equates for HASPCKDS as a function indicator for type of work to do in subroutines - KDLRFORW, KDLRSUSP, KDLRRESM, KDLROPT1, KDLROPT5, and KDLROPT7				
680	(2A8)	X'0'	0	CKRPROC	"0" Process the function
680	(2A8)	X'4'	0	CKRFNSH	"4" Finish up remaining work
680	(2A8)	X'8'	0	CKRCLEN	"8" Clean up the work
680	(2A8)	X'C'	0	CKRDRVF	"12" Handle driver failure
680	(2A8)	X'2A8'	0	CKRSIZE	"*-CKR" SIZE OF WORK AREA

Table 77. Cross Reference for $CKPRECV

Name	Offset	Hex Tag
CKR	0	
CKRACODE	34	
CKRAERRC	30	
CKRCACT	2C	
CKRCKG	4	
CKRCKGW	190	
CKRCKG2	8	
CKRCKPTD	A0	
CKRCLEN	2A8	8
CKRCOUNT	18	
CKRCVCKG	2A0	
CKRDMFST	3C	
CKRDMINT	80	
CKRDMLST	80	80
CKRDM233	3C	
CKRDM235	40	
CKRDM237	44	
CKRDM270	48	

Table 77. Cross Reference for $CKPRECV (continued)

Name	Offset	Hex Tag
CKRDM271	4C	
CKRDM272	50	
CKRDM273	54	
CKRDM275	58	
CKRDM276	5C	
CKRDM277	60	
CKRDM278	64	
CKRDM281	68	
CKRDM282	6C	
CKRDM284	70	
CKRDM285	74	
CKRDM294	78	
CKRDM299	7C	
CKRDRVF	2A8	C
CKRDSETR	14	
CKRECB	84	
CKRECLST	194	
CKRESPON	A8	
CKRFLAG1	C	
CKRFLAG2	D	
CKRFLAG3	E	
CKRFLAG4	F	
CKRFLAG5	10	
CKRFLAG6	11	
CKRFNSH	2A8	4
CKRHFAME	23C	
CKRID	0	
CKRMFLAG	284	
CKRMODN	1C	
CKRMSGL	138	C2D3C440
CKRPARM	29C	288
CKRPARMX	288	
CKRPROC	2A8	0
CKRRTCD1	38	
CKRSAVHF	9C	
CKRSDBLD	19C	C2D3C440
CKRSEQN	24	
CKRSIZE	2A8	2A8
CKRTCKG1	288	
CKRTCKG2	28C	
CKRTKYR1	290	
CKRTKYR2	294	
CKRTKYW1	298	
CKRTKYW2	29C	
CKRTQE	288	
CKRVECTR	1F4	
CKR1CFV	C	10
CKR1INIT	C	20
CKR1IOER	C	80

Table 77. Cross Reference for $CKPRECV (continued)

Name	Offset	Hex Tag
CKR1OTH	C	2
CKR1RECO	C	40
CKR1SETC	C	8
CKR1STAT	C	1
CKR1THIS	C	4
CKR2CREA	D	4
CKR2DEL	D	10
CKR2KNUL	D	16
CKR2KRSV	D	1
CKR2MIOE	D	40
CKR2NCRE	D	2
CKR2NDR	12	
CKR2OPT7	D	20
CKR2QUSE	D	8
CKR2RECR	D	80
CKR4FWC1	F	10
CKR4FWC2	F	8
CKR4ILEV	F	80
CKR4LIM	F	40
CKR4OAR	F	4
CKR4OPV	F	20
CKR4RSM1	F	2
CKR4RSM2	F	1
CKR5CRC	10	80
CKR5CRCJ	10	20
CKR5CRCO	10	40
CKR5CRFA	10	10
CKR6SOFT	11	80
CKR62NDR	11	40

Chapter 31. $CKPTQCB Information

$CKPTQCB Heading Information

Common Name:	Checkpoint request queue element
Macro ID:	$CKPTQCB
DSECT Name:	CKPTQCB
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	CKQ Offset: CKQID Length: L'CKQID
Storage Attributes:	Subpool: 0 Key: 1 Residency: Virtual and real storage are above 16M, in the private storage of the JES2 address space.
Size:	See CKQLEN
Created by:	$CKPTQUE service
Pointed to by:	$CKQHEAD field of the HCT data area
Serialization:	Normal PCE dispatch serialization
Function:	The $CKPWQCB represents a unit of work for the CKPT PCE to perform, once the CKPT queues are obtained. Queue elements are created via the $CKPTQUE macro and service routines.

$CKPTQCB mapping

Table 78. Structure CKPTQCB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CKPTQCB	CKPT request queue element
0	(0)	CHARACTER	4	CKQID	Control block id
4	(4)	ADDRESS	1	CKQVERSN	Control block version
4	(4)	X'1'	0	CKQVERN	"1" Version number
5	(5)	BITSTRING	3		Reserved
8	(8)	ADDRESS	4	CKQNEXT	Next CB on work queue
16	(10)	DBL WORD	8	CKQREGS(2)	R0 and R1 on entry to service.
32	(20)	ADDRESS	4	CKQRTNA	Address of routine
36	(24)	ADDRESS	4	CKQPCE	Address of associated PCE
36	(24)	X'28'	0	CKQLEN	"*-CKPTQCB" Length of CKPTQCB

Table 79. Cross Reference for $CKPTQCB

Name	Offset	Hex Tag
CKPTQCB	0	
CKQID	0	C3D2D840
CKQLEN	24	28
CKQNEXT	8	
CKQPCE	24	
CKQREGS	10	
CKQRTNA	20	

Table 79. Cross Reference for $CKPTQCB (continued)

Name	Offset	Hex Tag
CKQVERN	4	1
CKQVERSN	4	

Chapter 32. $CKPWORK Information

$CKPWORK Programming Interface Information

$CKPWORK is a programming interface.

$CKPWORK Heading Information

Common Name:	HASP Checkpoint PCE Work Area DSECT
Macro ID:	$CKPWORK
DSECT Name:	PCE ($CKPWORK is part of the PCE DSECT)
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4
Storage Attributes:	Subpool: See $PCE Key: See $PCE Residency: See $PCE
Size:	See symbol CKPPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by:	See $PCE
Pointed to by:	$CKPTPCE field of the $HCT data area
Serialization:	Normal PCE dispatch serialization
Function:	The fields in this work area are used by the JES2 checkpoint processor. $CKPWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $CKPWORK are actually part of the PCE DSECT, but only map PCEs with the value PCECKPID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

$CKPWORK mapping

Table 80. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	HASP CHECKPOINT PROCESSOR
320	(140)	SIGNED	4	CKPHLTIM	Checkpoint held time
324	(144)	SIGNED	4	CKPDRMTM	Checkpoint dormancy time
328	(148)	SIGNED	2	CKPUWORK	General work area
330	(14A)	BITSTRING	4	CKPUMASK	General work mask
334	(14E)	BITSTRING	1	CKPFLAG1	FLAG BYTE --
		1...		CKP1FILL	"B'10000000'" TGB HAS BEEN FILLED
		..1.		CKP1OFLW	"B'00100000'" CH LOG IS OVERFLOWING
		...1		CKP1SFMI	"B'00010000'" SPOOL FULL MSG ISSUED

Table 80. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		CKP1PCAP	"B'00001000'" CKVR subtask posted
		.... .1..		CKP1VLEN	"B'00000100'" CURRENT CB IS IN VARIABLE LENGTH SECTION OF CKPT
		.... ..1.		CKP1LHBS	"B'00000010'" CKPQSOLD is zero because the lock was held by the system
		1		CKP1STOP	"B'00000001'" When reach end of DAS chain, do not start over (used in KBLOB)
335	(14F)	BITSTRING	1		Reserved for future use
336	(150)	SIGNED	4	CKPSRCHO	Search offset within extent
340	(154)	BITSTRING	4		Reserved for alignment
CKPT PCE uses special form of TQE					
344	(158)	DBL WORD	8	(0)	Alignment
344	(158)	BITSTRING	24	CKPSTQE	$STIMER queue element
368	(170)	BITSTRING	24	CKPMITQE	$STIMER queue element for max interval to wait before a ckpt write
392	(188)	BITSTRING	24	CKPAPECB	HASPCKAP ECB
416	(1A0)	SIGNED	4	CKPAPTIM	TIME OF LAST HASPCKAP POST
420	(1A4)	SIGNED	4	CKPBTIME	SPOOL WARNING TIME STAMP
424	(1A8)	ADDRESS	4	CKPPALA	ADDRESS OF PAGE ADDR LIST
428	(1AC)	ADDRESS	4	CKPTRPTR	ADDRESS OF THE CHECKPOINT TRACE WORK AREA
432	(1B0)	ADDRESS	4	CKPCLENT	ADDRESS OF THE NEXT AVAILABLE ENTRY IN THE CHANGE LOG
436	(1B4)	ADDRESS	4	CKPCLEND	Byte past end of CHLOG area
440	(1B8)	SIGNED	4	CKPUSER1	RESERVED FOR USER
444	(1BC)	SIGNED	4	CKPUSER2	RESERVED FOR USER
448	(1C0)	SIGNED	4	CKPSTCK	TIMER SAVE AREA
452	(1C4)	SIGNED	4	CKPDASN	ADDRESS OF NEXT DAS FOR BLOB
456	(1C8)	BITSTRING	32	CKPBLMPR	Previous mask of volumes in the BLOB (from last time through KBLOB)
488	(1E8)	BITSTRING	32	CKPBLMSK	Mask of volumes in BLOB with affinity for this member
520	(208)	BITSTRING	32	CKPBLMFN	Mask of vols in BLOB at end of KBLOB (may include vols without affinity for the member)
552	(228)	BITSTRING	32	CKPBLMWK	Work mask for KBLOB
584	(248)	BITSTRING	1		Reserved for future use
585	(249)	BITSTRING	1	CKPDASP2	'M' of next DAS to use when filling BLOB round- robin from the DASes
586	(24A)	SIGNED	2	CKPRETRY	I/O ERROR RETRY COUNTER +1
588	(24C)	CHARACTER	4	CKPRLSID	SYSTEM NAME AND AFFINITY
592	(250)	ADDRESS	1	CKPRLAFF	FROM $ESYS,RESET=
593	(251)	BITSTRING	1	CKPBLCNT	COUNT OF SPOOLS IN BLOB
594	(252)	SIGNED	2	CKPTGESZ	Max num of entries in BLOB
596	(254)	SIGNED	4	CKPQLOCK(0)	Query Lock work area
596	(254)	SIGNED	4	CKPQSSID	System ID of lock holder
600	(258)	CHARACTER	16	CKPQSSNM	System name of lock holder

Table 80. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
616	(268)	ADDRESS	4	CKPQCKGA	CKG address
616	(268)	X'18'	0	CKPQLLEN	"*-CKPQLOCK" Length of Query Lock
616	(268)	X'257'	0	CKPSTLID	"CKPQSSID+3" 1 byte lock id to be cleared via $SYS,RESET=
620	(26C)	ADDRESS	4	CKPSQDA	Query lock SQD pointer
624	(270)	SIGNED	4	CKPQSOLD	System ID of previous CF lock holder
632	(278)	DBL WORD	8	CKPCSTRT	STCK WHEN CKPT STARTED CYCLE (KRESERVE ISSUED)
640	(280)	ADDRESS	4	CKPECMBF	Addr of first CMB for reset of checkpoint lock FIFO q
644	(284)	ADDRESS	4	CKPECNID	Console id for reset lock messages
648	(288)	CHARACTER	8	CKPECART	CART for reset lock msgs
656	(290)	SIGNED	4	CKPTMR14	KSTIMER/KTTIMER R14 save @
660	(294)	SIGNED	4		Reserved
664	(298)	DBL WORD	8	(0)	
664	(298)	X'158'	0	CKPPCEWS	"*-PCEWORK" LENGTH OF PCE WORK AREA

Table 81. Cross Reference for $CKPWORK

Name	Offset	Hex Tag
CKPAPECB	188	
CKPAPTIM	1A0	
CKPBLCNT	251	
CKPBLMFN	208	
CKPBLMPR	1C8	
CKPBLMSK	1E8	
CKPBLMWK	228	
CKPBTIME	1A4	
CKPCLEND	1B4	
CKPCLENT	1B0	
CKPCSTRT	278	
CKPDASN	1C4	
CKPDASP2	249	
CKPDRMTM	144	
CKPECART	288	
CKPECMBF	280	
CKPECNID	284	
CKPFLAG1	14E	
CKPHLTIM	140	
CKPMITQE	170	
CKPPALA	1A8	
CKPPCEWS	298	158
CKPQCKGA	268	
CKPQLLEN	268	18
CKPQLOCK	254	
CKPQSOLD	270	

Table 81. Cross Reference for $CKPWORK (continued)

Name	Offset	Hex Tag
CKPQSSID	254	
CKPQSSNM	258	
CKPRETRY	24A	
CKPRLAFF	250	
CKPRLSID	24C	
CKPSQDA	26C	
CKPSRCHO	150	
CKPSTCK	1C0	
CKPSTLID	268	257
CKPSTQE	158	
CKPTGESZ	252	
CKPTMR14	290	
CKPTRPTR	1AC	
CKPUMASK	14A	
CKPUSER1	1B8	
CKPUSER2	1BC	
CKPUWORK	148	
CKP1FILL	14E	80
CKP1LHBS	14E	2
CKP1OFLW	14E	20
CKP1PCAP	14E	8
CKP1SFMI	14E	10
CKP1STOP	14E	1
CKP1VLEN	14E	4
PCE	0	

Chapter 33. $CKW Information

$CKW Heading Information

Common Name:	Checkpoint Routine Work Area
Macro ID:	$CKW
DSECT Name:	CKW
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	CKW Offset: CKWID Length: L'CKWID
Storage Attributes:	Subpool: 0 Key: 1 Residency: Virtual and real storage are above 16M, in the private storage of the JES2 address space.
Size:	See CKWLNGTH
Created by:	HASPIRMA during JES2 initialization
Pointed to by:	$CKW field of the HCT data area
Serialization:	Normal PCE dispatch serialization
Function:	The $CKW maps a work area used by the externally $CALLable routines in the checkpoint modules (HASPCKPT and HASPCKDS). Since these routines are $CALLable under different PCEs (namely, init and checkpoint), this work area holds common fields which must be PCE work area independent.

$CKW mapping

Table 82. Structure CKW

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CKW	CKPT WORK AREA MAPPING
0	(0)	CHARACTER	4	CKWID	CONTROL BLOCK ID
4	(4)	ADDRESS	1	CKWVERSN	CONTROL BLOCK VERSION
4	(4)	X'4'	0	CKWVERN	"4" Version number
5	(5)	BITSTRING	1	CKWFLAG1	Ckpt work area flags
		1...		CKW1FNLW	"B'10000000'" FINAL CHECKPOINT DS WRITE
		.1..		CKW1OFLW	"B'01000000'" CHANGE LOG OVERFLOWING
		..1.		CKW1ESUP	"B'00100000'" SUPPRESS I/O ERROR MESSAGES
		...1		CKW1S266	"B'00010000'" SUPPRESS 266/267 MESSAGES DURING KFORMAT ROUTINE
		.... 1...		CKWLDIAG	"B'00001000'" THE CHECKPOINT WAS RECONFIGURED (SET BY DIALOG, RESET AFTER OBTAINING THE LOCK)
		.... .1..		CKW1SPIO	"B'00000100'" SPLIT THE IO ACROSS 2 CALLS TO KPRIMW (ONE TO START THE I/O ONE TO WAIT FOR IT)

Table 82. Structure CKW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ..1.		CKW1SPSC	"B'00000010'" THIS IS THE SECOND CALL TO KPRIMW (TO WAIT FOR THE I/O IF IT WAS STARTED)
6	(6)	BITSTRING	1	CKWFLAG2	CKPT work area flags
		1...		CKW2R1LS	"B'10000000'" LAST CKPT PHASE WAS RD 1
		.1..		CKW2R2LS	"B'01000000'" LAST CKPT PHASE WAS RD 2
		..1.		CKW2PWLS	"B'00100000'" LAST CKPT PHASE WAS PRM W
		...1		CKW2IWLS	"B'00010000'" LAST CKPT PHASE WAS INT W
		.... 1...		CKW2FWLS	"B'00001000'" LAST CKPT PHASE WAS FIN W
		.... .1..		CKW2FMLS	"B'00000100'" LAST CKPT PHASE WAS FMT W
		1		CKW2INTR	"B'00000001'" INIT owner reset in lock
7	(7)	BITSTRING	1	CKWFLAG3	CKPT Work flag 3
		.1..		CKW3FMCP	"B'01000000'" KFORMAT needs to copy pages to I/O area
		...1		CKW3R2WP	"B'00010000'" Wrapping active for READ2
		.... 1...		CKW3PWWP	"B'00001000'" Wrapping active for primary write
		.... .1..		CKW3NOPT	"B'00000100'" Do not optimize writes
		.... ..1.		CKW3STA	"B'00000010'" Status from previous CKPT holder pending
8	(8)	BITSTRING	1	CKWFLAG4	CKPT Work Flag 4
		1...		CKW4WTO1	"B'10000000'" VOLATILE=ONECKPT=WTOR
		.1..		CKW4IGN1	"B'01000000'" VOLATILE=ONECKPT=IGNORE
		..1.		CKW4DIA1	"B'00100000'" VOLATILE=ONECKPT=DIALOG
		...1		CKW4WTOR	"B'00010000'" VOLATILE=ALLCKPT=WTOR
		.... 1...		CKW4IGNO	"B'00001000'" VOLATILE=ALLCKPT=IGNORE
		.... .1..		CKW4DIAG	"B'00000100'" VOLATILE=ALLCKPT=DIALOG
		.... ..1.		CKW4P1V	"B'00000010'" CKPT1 previously volatile
		1		CKW4P2V	"B'00000001'" CKPT2 previously volatile
9	(9)	BITSTRING	1	CKWFLAG5	CKPT Work Flag 5
		1...		CKW51VOL	"B'10000000'" CKPT1 is volatile
		.1..		CKW51NVL	"B'01000000'" CKPT1 is non-volatile
		..1.		CKW52VOL	"B'00100000'" CKPT2 is volatile
		...1		CKW52NVL	"B'00010000'" CKPT2 is non-volatile

Table 82. Structure CKW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		CKW5STRL	"B'00001000'" Need STRLIST on SDUMPX
		.... .1..		CKW5PROT	"B'00000100'" CKPT memory read-only
		.... ..1.		CKW5PMST	"B'00000010'" Master record is read-only
10	(A)	BITSTRING	1	CKWFLAG6	CKPT Work Flag 6
		1...		CKW6LOCK	"B'10000000'" Locking operation
		.1..		CKW6READ	"B'01000000'" Read operation
		..1.		CKW6WRT	"B'00100000'" Write operation
		...1		CKW6FMT	"B'00010000'" Format operation
		.... 1...		CKW6EXT	"B'00001000'" Extend operation
		.... .1..		CKW6PRIM	"B'00000100'" Primary CKPT operation
		.... ..1.		CKW6LOKD	"B'00000010'" CKPT lock is held
11	(B)	BITSTRING	1	CKWFLAG7	CKPT Work Flag 7
		1...		CKW7WTCP	"B'10000000'" CKPT2 is write checkpoint
		.1..		CKW7RDCP	"B'01000000'" CKPT2 is read checkpoint
16	(10)	DBL WORD	8	CKWGTLKT	Time mbr got CKPT lock
24	(18)	DBL WORD	8	CKWRLSET	Time mbr gave up CKPT lock
32	(20)	DBL WORD	8	CKWPREVT	Time of last access to CKPT by mbr in CKWSTASY
40	(28)	DBL WORD	8	CKWSTHLD	Time of HOLD interval start
48	(30)	BITSTRING	1	CKWSCAN	$SCAN Work byte
		1...		CKWSCF	"B'10000000'" STRNAME= was specified
		.1..		CKWSDSN	"B'01000000'" DSN= was just specified
		..1.		CKWSVOL	"B'00100000'" VOL= was just specified
48	(30)	X'E0'	0	CKWSCNL	"CKWSCF+CKWSDSN+CKWSVOL" (NEW)CKPTn level bits
		.... ..1.		CKWCFER	"B'00000010'" CF str does not exist
		1		CKWSNCN	"B'00000001'" NEWCKPTn was changed
48	(30)	X'1'	0	CKWSCDL	"CKWSNCN" CKPTDEF level bits
49	(31)	BITSTRING	1	CKWRECF3	Shadow copy of CKRFLAG3
50	(32)	BITSTRING	2	CKWRESV1	Reserved for future IBM use
52	(34)	BITSTRING	4	CKWRCID	Connection id of member holding the lock if the reserve data set is on a structure
56	(38)	ADDRESS	4	CKWLKIT	Local KIT information
60	(3C)	ADDRESS	4	CKWLKITE	Last byte of local KIT
64	(40)	ADDRESS	4	CKWKTJQE	Address of JQE local KIT
68	(44)	ADDRESS	4	CKWKTJQX	Address of JQX local KIT
72	(48)	ADDRESS	4	CKWKTJOE	Address of JOE local KIT
76	(4C)	ADDRESS	4	CKWKTPST	Address of PST local KIT
80	(50)	SIGNED	2	CKWLKNUM	Number of local KITs
82	(52)	BITSTRING	1	CKWSTASY	CKPT status member
83	(53)	BITSTRING	1	CKWLSTSY	Prior memb that wrote CKPT

Table 82. Structure CKW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
84	(54)	SIGNED	4	CKWMAXRC	Maximum # of 4K CKPT pages
88	(58)	SIGNED	4	CKWVERSZ	Size of a CKPT version
92	(5C)	SIGNED	4	CKWVERMR	Max size of base MSTR rec
96	(60)	SIGNED	4	CKWMSTBI	Base (31bit) mstr I/O len
100	(64)	SIGNED	4	CKWMSTBL	Base (31bit) mstr rec len
104	(68)	ADDRESS	4	CKWCKMA	Address of CKM control blk
108	(6C)	ADDRESS	4	CKWPPLA	ADDRESS OF PAGE POINTER LIST
112	(70)	ADDRESS	4	CKWCTWA	ADDRESS OF CKPT TRACE WORK AREA
120	(78)	ADDRESS	8	CKW4K64	4K pages 64 bit area
128	(80)	SIGNED	8	CKW4K64L	Segments for 4K page area
136	(88)	DBL WORD	8	CKWSHRTK	Token for our view of CKPT
144	(90)	ADDRESS	8	CKWIO64	I/O pages 64 bit area
152	(98)	SIGNED	8	CKWIO64L	Segments for I/O page area
160	(A0)	ADDRESS	8	CKWCAL1	1st CKPT change list elem
168	(A8)	ADDRESS	8	CKWCALC	Current CKPT change list
176	(B0)	ADDRESS	8	CKWCALCE	1 byte past end of CALC
184	(B8)	ADDRESS	8	CKWCTLB	Addr of CKPT control bytes
192	(C0)	ADDRESS	8	CKWCTLBI	Addr of CKPT I/O ctrl bytes
200	(C8)	ADDRESS	8	CKWCTLBE	End of I/O CTLB work area
208	(D0)	ADDRESS	8	CKWERREG(16)	Save area for regs if error
		Accumulators used to gather performance data for the JES2 checkpoint trace records. The data is accumulated across, at most, one checkpoint cycle (not all data is collected for an entire checkpoint cycle).			
336	(150)	SIGNED	4	CKWCKPTN	Number of $CKPTs issued
344	(158)	DBL WORD	8	CKWMVSWT	Amount of wall-clock time in microseconds that JES2 is idle (MVS WAIT)
352	(160)	DBL WORD	8	CKWQSUSE	Amount of wall-clock time in microseconds that PCEs were actively using the queues ($QSUSE)
360	(168)	DBL WORD	8	CKWQSLST	Time of most recent $WAIT by PCE with $QSUSE
368	(170)	SIGNED	4	CKWWTTM	Total PCE wait time before obtaining the queues (in units of 16 microseconds)
372	(174)	SIGNED	4	CKWPAINR	Member pain rate
376	(178)	SIGNED	4	CKWPAINV	Member pain value
380	(17C)	SIGNED	4	CKWOHV	CKPT access overhead (in microsecs)
384	(180)	SIGNED	4	CKWQSMX	Longest QSUSE (microsecs)
388	(184)	SIGNED	4	CKWPNRC	Captured pain rate
392	(188)	SIGNED	4	CKWOPTCK	Number of $CKPTs (CALEs) skipped due to CKPT optimization
396	(18C)	SIGNED	4	CKWOPT4K	Number of 4K pages skipped due to CKPT optimization
400	(190)	SIGNED	4	CKWPAGCT	4K pages in current I/O
404	(194)	SIGNED	4	CKWCBCNT	CBs in change log for I/O
408	(198)	SIGNED	4	CKWCKPSZ	Size of checkpoint data
412	(19C)	ADDRESS	4	CKWIOLST	Address of I/O needed list
		General parameter list			

Table 82. Structure CKW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
416	(1A0)	DBL WORD	8	(0)	Align parmlist
416	(1A0)	BITSTRING	0	CKWPARMS(0)	GENERAL PARAMETER LIST
416	(1A0)	ADDRESS	4	CKWPARM1	PARAMETER WORD 1
420	(1A4)	ADDRESS	4	CKWPARM2	PARAMETER WORD 2
424	(1A8)	ADDRESS	4	CKWPARM3	PARAMETER WORD 3
428	(1AC)	ADDRESS	4	CKWPARM4	PARAMETER WORD 4
432	(1B0)	ADDRESS	4	CKWPARM5	PARAMETER WORD 5
436	(1B4)	ADDRESS	4	CKWPARM6	PARAMETER WORD 6
436	(1B4)	X'18'	0	CKWPARML	"*-CKWPARMS" LENGTH OF GENERAL PARM LIST
440	(1B8)	DBL WORD	8	(0)	Align next
440	(1B8)	BITSTRING	8	CKWLKEY1	CKPT1 LOCK KEY COMPARAND VAL
448	(1C0)	BITSTRING	8	CKWLKEY2	CKPT2 LOCK KEY COMPARAND VAL
456	(1C8)	BITSTRING	8	CKWLKVL1	CKPT1 LOCK KEY WRITE VALUE
464	(1D0)	BITSTRING	8	CKWLKVL2	CKPT2 LOCK KEY WRITE VALUE
472	(1D8)	SIGNED	4	CKWKT1RC	KTRK1IO - RETURN CODE SAVE
476	(1DC)	SIGNED	4	CKWCT1RC	CFTRK1IO - return code save
480	(1E0)	SIGNED	4	CKWCFAIL	CFTRK1IO - failing CKG
484	(1E4)	SIGNED	4	CKWDFAIL	KTRK1IO - failing CKG
488	(1E8)	ADDRESS	4	CKWCFTD	CF Trace data table
492	(1EC)	ADDRESS	4	CKWXREQ	Pointer to XREQ area
496	(1F0)	DBL WORD	8	CKWKT1PK	KTRK1IO - 1ST CCW PACKET (PSEUDO TIC CCW)
504	(1F8)	DBL WORD	8	CKWINITM	Time IRDA got the CKPT data set lock
512	(200)	DBL WORD	8	CKWCKWTM	Time CKPT started waiting for CKPT request (CKWAIT)
520	(208)	SIGNED	4	CKWCKWRE	R14 at time CKWAIT called
524	(20C)	SIGNED	4	CKWFMCKG	CKG work area - KFORMAT
528	(210)	SIGNED	2	CKWXCFAS	XCF ASID
530	(212)	BITSTRING	6		Reserved for future use
536	(218)	DBL WORD	8	(0)	Align next field
536	(218)	CHARACTER	8	CKWCFLVL	$CKPTLEV when CF subtask is posted
536	(218)	X'21C'	0	CKWCFLVN	"CKWCFLVL+4,4,C'F'" 4 byte level for PLX code
544	(220)	DBL WORD	8	CKWR2LEV	CKPT level at last Read 2
552	(228)	DBL WORD	8	CKWWRLEV	CKPT level at last IW/FW
	CKPT PCE uses special form of TQE				
560	(230)	DBL WORD	8	(0)	Alignment
560	(230)	BITSTRING	24	CKWKSTQE	TQE for CKPT services
584	(248)	SIGNED	4	CKWQECB(0)	KWRITE HASP272 msg ecb
608	(260)	CHARACTER	8	CKWQREPL	KWRITE HASP272 reply area
	$T CKPTDEF command parameter area This area is used by $T CKPTDEF CKPT1/2 commands to pass requested changes to the checkpoint reconfig process.				
616	(268)	BITSTRING	1	CKWDSETR	Requested function number
	0 No function required				
616	(268)	X'1'	0	CKWDSCK1	"1" Update CKPT1 spec
616	(268)	X'2'	0	CKWDSCK2	"2" Update CKPT2 spec

Table 82. Structure CKW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
616	(268)	X'3'	0	CKWDDCK1	"3" Make CKPT1 INUSE=NO
616	(268)	X'4'	0	CKWDDCK2	"4" Make CKPT2 INUSE=NO
616	(268)	X'5'	0	CKWDRCK1	"5" Make CKPT1 INUSE=YES
616	(268)	X'6'	0	CKWDRCK2	"6" Make CKPT2 INUSE=YES
617	(269)	BITSTRING	1	CKWDSWRK	SXIT work area for CKWDSETR
618	(26A)	BITSTRING	2		Reserved
620	(26C)	BITSTRING	72	CKWDHFE	Requested HFAME setting
692	(2B4)	BITSTRING	72	CKWDSVHF	Saved NEWCKPTn HFAME
764	(2FC)	BITSTRING	4	CKWCONID	Dialog console id
DOM IDs for HASP256 message					
768	(300)	SIGNED	4	CKWDRNC1	DOMID FOR $HASP256 NEWCKPT1
772	(304)	SIGNED	4	CKWDRNC2	DOMID FOR $HASP256 NEWCKPT2
776	(308)	CHARACTER	80	CKWMSG	MESSAGE WORK AREA
776	(308)	CHARACTER	70	CKWDIAGR	CKPTALOC error reason text
------- $BLDMSG MF=L List form of $BLDMSG					
856	(358)	SIGNED	4	CKWBLMSG(0)	Control block ID
860	(35C)	BITSTRING	4		Console ID
864	(360)	ADDRESS	4		Address of the CART
868	(364)	ADDRESS	4		Pointer for JOBID
872	(368)	ADDRESS	4		Control block address
876	(36C)	ADDRESS	4		Display routine address
880	(370)	ADDRESS	4	(6)	6 word work area
904	(388)	ADDRESS	4		Caller's R11 value
908	(38C)	BITSTRING	2		ROUT code for Message
910	(38E)	BITSTRING	2		Not used
912	(390)	CHARACTER	4		Message ID
916	(394)	CHARACTER	1		Separator character
917	(395)	ADDRESS	1		Flag byte 1
918	(396)	ADDRESS	1		'DISPER'
919	(397)	ADDRESS	1		Flag byte 2
920	(398)	ADDRESS	1		Flag byte 3
921	(399)	CHARACTER	8		Symbolic name of dest.
929	(3A1)	BITSTRING	15		Not used
944	(3B0)	ADDRESS	4	(0)	Ensure multiple of 4
944	(3B0)	ADDRESS	2	(0)	
944	(3B0)	SIGNED	4	CKWPPL(0)	PURGE PARAMETER LIST
960	(3C0)	ADDRESS	4	CKWSTAR	DVCT OR UCB ADDR, OR DEVTYPE
964	(3C4)	BITSTRING	1		FLAG BYTE
965	(3C5)	BITSTRING	1		RESERVED
966	(3C6)	ADDRESS	2		TRACK BALANCE
968	(3C8)	ADDRESS	1		RECORD NUMBER
969	(3C9)	ADDRESS	1		KEY LENGTH
970	(3CA)	ADDRESS	2		DATA LENGTH
972	(3CC)	SIGNED	4	(2)	Reserved
984	(3D8)	DBL WORD	8	CKWRESVS(0)	ISGENQ MF=L begins here MACDATE -01/23/13-<2>
		1		CKWRESV_XCOND_NO	"X'01'"
		.... ..1.		CKWRESV_XCOND_YES	"X'02'"
		1		CKWRESV_XREQUEST_OBTAIN	"X'01'"
		.... ..1.		CKWRESV_XREQUEST_CHANGE	"X'02'"

Table 82. Structure CKW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		11		CKWRESV_XREQUEST_RELEASE	"X'03'"
0	(0)	X'3D8'	0	M00M1087	"CKWRESV" ++ ISGENQ NAME
984	(3D8)	DBL WORD	8	CKWRESV(0)	++ ISGENQ PARM LIST
984	(3D8)	BITSTRING	1	CKWRESV_XVERSION	++ INPUT XVERSION
985	(3D9)	CHARACTER	1	CKWRESV_XRSV0000	++ RESERVED
986	(3DA)	BITSTRING	1	CKWRESV_XSCOPE	++ XSCOPE
986	(3DA)	X'1'	0	CKWRESV_XSCOPE_STEP	"1" ++ XSCOPE.STEP KEYWORD
986	(3DA)	X'2'	0	CKWRESV_XSCOPE_SYSTEM	"2" ++ XSCOPE.SYSTEM KEYWORD
986	(3DA)	X'3'	0	CKWRESV_XSCOPE_SYSTEMS	"3" ++ XSCOPE.SYSTEMS KEYWORD
986	(3DA)	X'3'	0	CKWRESV_XSCOPE_SYSPLEX	"3" ++ XSCOPE.SYSPLEX KEYWORD
987	(3DB)	BITSTRING	1	CKWRESV_XCONTROL	++ XCONTROL
987	(3DB)	X'1'	0	CKWRESV_XCONTROL_SHARED	"1" ++ XCONTROL.SHARED KEYWORD
987	(3DB)	X'2'	0	CKWRESV_XCONTROL_EXCLUSIVE	"2" ++ XCONTROL.EXCLUSIVE KEYWORD
988	(3DC)	BITSTRING	1	CKWRESV_XFLAGS1	++ FIELD_LABEL
		.1..		CKWRESV_XTEST_YES	"B'01000000'" ++ XTEST.YES KEYWORD
		..1.		CKWRESV_XCONTENTIONACT_FAIL	"B'00100000'" ++ XCONTENTIONACT.FAIL KEYWORD
		...1		CKWRESV_XWAITTYPE_ECB	"B'00010000'" ++ XWAITTYPE.ECB KEYWORD
		.... 1...		CKWRESV_XRESLIST_YES	"B'00001000'" ++ XRESLIST.YES KEYWORD
		.... .1..		CKWRESV_XENQMAX_NO	"B'00000100'" ++ XENQMAX.NO KEYWORD
		.... ..1.		CKWRESV_XRNL_NO	"B'00000010'" ++ XRNL.NO KEYWORD
		1		CKWRESV_XQNAME_DO_NOT_OVERRIDE	"B'00000001'" ++ XQNAME.DO_NOT_OVERRIDE KEYWORD
989	(3DD)	BITSTRING	1	CKWRESV_XFLAGS2	++ FIELD_LABEL
		1...		CKWRESV_XRESERVEVOLUME_YES	"B'10000000'" ++ XRESERVEVOLUME.YES KEYWORD
		.1..		CKWRESV_XSYNCHRES_YES	"B'01000000'" ++ XSYNCHRES.YES KEYWORD
		..1.		CKWRESV_XSYNCHRES_NO	"B'00100000'" ++ XSYNCHRES.NO KEYWORD
		...1		CKWRESV_XCONTROL_DO_NOT_OVERRIDE	"B'00010000'" ++ XCONTROL.DO_NOT_OVERRIDE KEYWORD
		.... 1...		CKWRESV_XSCOPE_DO_NOT_OVERRIDE	"B'00001000'" ++ XSCOPE.DO_NOT_OVERRIDE KEYWORD
		.... .1..		CKWRESV_XRNL_DO_NOT_OVERRIDE	"B'00000100'" ++ XRNL.DO_NOT_OVERRIDE KEYWORD
		.... ..1.		CKWRESV_XSYNCHRES_DO_NOT_OVERRIDE	"B'00000010'" ++ XSYNCHRES.DO_NOT_OVERRIDE KEYWORD
		1		CKWRESV_XRNAME_DO_NOT_OVERRIDE	"B'00000001'" ++ XRNAME.DO_NOT_OVERRIDE KEYWORD

Table 82. Structure CKW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
990	(3DE)	BITSTRING	1	CKWRESV_XFLAGS3	++ FIELD_LABEL
		1...		CKWRESV_KEYUSED_CONTROL	"B'10000000'" ++ KEYUSED.CONTROL KEYWORD
		1		CKWRESV_XRNAMELEN_DO_NOT_OVERRIDE	"B'00000001'" ++ XRNAMELEN.DO_NOT_OVERRIDE KEYWORD
991	(3DF)	BITSTRING	1	CKWRESV_XFLAGS4	++ FIELD_LABEL
		1		CKWRESV_XUCB@_DO_NOT_OVERRIDE	"B'00000001'" ++ XUCB@.DO_NOT_OVERRIDE KEYWORD
992	(3E0)	ADDRESS	8	CKWRESV_XRESTABLE_ADDR3164	++ ADDR3164
1000	(3E8)	ADDRESS	8	CKWRESV_XENQTOKEN_ADDR3164	++ ADDR3164
1008	(3F0)	ADDRESS	8	CKWRESV_XRETURNTABLE_ADDR3164	
1016	(3F8)	ADDRESS	8	CKWRESV_XENQTOKENTBL_ADDR3164	
1024	(400)	ADDRESS	8	CKWRESV_XRNAME_ADDR3164	++ ADDR3164
1032	(408)	ADDRESS	8	CKWRESV_XANSAREA_ADDR3164	++ ADDR3164
1040	(410)	CHARACTER	8	CKWRESV_XQNAME	++
1048	(418)	CHARACTER	16	CKWRESV_XOWNINGTTOKEN	++
1064	(428)	SIGNED	4	CKWRESV_XRESTABLE_ALET	++ ALET
1068	(42C)	SIGNED	4	CKWRESV_XENQTOKEN_ALET	++ ALET
1072	(430)	SIGNED	4	CKWRESV_XRETURNTABLE_ALET	++ ALET
1076	(434)	SIGNED	4	CKWRESV_XENQTOKENTBL_ALET	++ ALET
1080	(438)	SIGNED	4	CKWRESV_XRNAME_ALET	++ ALET
1084	(43C)	SIGNED	4	CKWRESV_XANSAREA_ALET	++ ALET
1088	(440)	SIGNED	4	CKWRESV_XANSLEN	++
1092	(444)	ADDRESS	4	CKWRESV_XECB@	++
1096	(448)	ADDRESS	4	CKWRESV_XUCB@	++
1100	(44C)	BITSTRING	2	CKWRESV_XNUMRES	++
1102	(44E)	BITSTRING	1	CKWRESV_XRNAMELEN	++
1103	(44F)	CHARACTER	1	CKWRESV_XRSV0001	++ RESERVED
1104	(450)	CHARACTER	8	CKWRESV_XRSVNNNN	++ RESERVED
1104	(450)	X'458'	0	CKWRESV_PL_END	"*" ++ END OF BASE PLIST
986	(3DA)	BITSTRING	1	CKWRESV_XSCOPEVAL	++
987	(3DB)	BITSTRING	1	CKWRESV_XCONTROLVAL	++
1112	(458)	X'80'	0	CKWRESVL	"*-CKWRESV" ++ LENGTH OF PLIST
				ISGENQ-2	
		MACDATE -04/24/09-<0>			
0	(0)	X'3D8'	0	M00M1089	"CKWCFPUR" ++ IXLPURGE NAME
984	(3D8)	DBL WORD	8	CKWCFPUR(0)	++ IXLPURGE PARM LIST
984	(3D8)	BITSTRING	1	CKWCFPUR_XVERSION	++ INPUT XVERSION
985	(3D9)	BITSTRING	1	CKWCFPUR_XSCOPEFLAGS	++ FIELD_LABEL
		1...		CKWCFPUR_XSCOPE_STOKEN	"B'10000000'" ++ XSCOPE.STOKEN KEYWORD
		.1..		CKWCFPUR_XSCOPE_TTOKEN	"B'01000000'" ++ XSCOPE.TTOKEN KEYWORD
		..1.		CKWCFPUR_XSCOPE_CONTOKEN	"B'00100000'" ++ XSCOPE.CONTOKEN KEYWORD
986	(3DA)	CHARACTER	2	CKWCFPUR_XRSV0001	++ RESERVED
988	(3DC)	CHARACTER	8	CKWCFPUR_XSTOKEN	++
996	(3E4)	CHARACTER	16	CKWCFPUR_XTTOKEN	++

Table 82. Structure CKW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1012	(3F4)	CHARACTER	16	CKWCFPUR_XCONTOKEN	++
1028	(404)	CHARACTER	8	CKWCFPUR_XREQID	++
1028	(404)	X'34'	0	CKWCFPURL IXLPURGE-0	"*-CKWCFPUR" ++ LENGTH OF PLIST
0	(0)	X'3D8'	0	CKWCFPRL	"CKWCFPUR,*-CKWCFPUR" Length of IXLPURGE
0	(0)	X'3D8'	0	M00M1090	"CKWXLIST" ++ IXLLIST NAME
984	(3D8)	DBL WORD	8	CKWXLIST(0)	++ IXLLIST PARM LIST
984	(3D8)	CHARACTER	96	CKWXLIST_XSHL_DATA	++ FIELD_LABEL
1080	(438)	CHARACTER	4	CKWXLIST_XMOB_DATA	++ FIELD_LABEL
1084	(43C)	CHARACTER	112	CKWXLIST_XMCB_DATA1	++ FIELD_LABEL
1196	(4AC)	CHARACTER	20	CKWXLIST_XMCB_DATA2	++ FIELD_LABEL
1196	(4AC)	X'4C0'	0	CKWXLIST_PL_END	"*" ++ END OF BASE PLIST
984	(3D8)	BITSTRING	1	CKWXLIST_XVERSION	++ INPUT XVERSION
985	(3D9)	BITSTRING	1	CKWXLIST_XCMDCODE	++ FIELD_LABEL
986	(3DA)	CHARACTER	4	CKWXLIST_XSHLFLGS	++ FIELD_LABEL
990	(3DE)	CHARACTER	2	CKWXLIST_XRSV0102	++ RESERVED
992	(3E0)	BITSTRING	1	CKWXLIST_XCOMPCONID	++ FIELD_LABEL
993	(3E1)	BITSTRING	1	CKWXLIST_XBUFSTGKEY	++
994	(3E2)	BITSTRING	2	CKWXLIST_XANSLEN	++
996	(3E4)	CHARACTER	16	CKWXLIST_XCONTOKEN	++
1012	(3F4)	CHARACTER	12	CKWXLIST_XDATADDR	++ FIELD_LABEL
1024	(400)	CHARACTER	8	CKWXLIST_XADJADDR	++ FIELD_LABEL
1032	(408)	CHARACTER	8	CKWXLIST_XANSADDR	++ FIELD_LABEL
1040	(410)	CHARACTER	8	CKWXLIST_XREQDATA	++
1048	(418)	CHARACTER	8	CKWXLIST_XREQID	++
1056	(420)	CHARACTER	16	CKWXLIST_XOPTIONALDATA	++ FIELD_LABEL
1072	(430)	CHARACTER	8	CKWXLIST_XRSV0103	++ RESERVED
986	(3DA)	BITSTRING	1	CKWXLIST_XSHLFLGS1	++ FIELD_LABEL
		1...		CKWXLIST_KEYUSED_BUFFER	"B'10000000'" ++ KEYUSED.BUFFER KEYWORD
		.1..		CKWXLIST_KEYUSED_BUFLIST	"B'01000000'" ++ KEYUSED.BUFLIST KEYWORD
		..1.		CKWXLIST_KEYUSED_ADJAREA	"B'00100000'" ++ KEYUSED.ADJAREA KEYWORD
		...1		CKWXLIST_KEYUSED_ANSAREA	"B'00010000'" ++ KEYUSED.ANSAREA KEYWORD
		.... 1...		CKWXLIST_XPAGEABLE_NO	"B'00001000'" ++ XPAGEABLE.NO KEYWORD
		.... .1..		CKWXLIST_KEYUSED_BUFSTGKEY	"B'00000100'" ++ KEYUSED.BUFSTGKEY KEYWORD
		.... ..1.		CKWXLIST_XBUFADDRTYPE_REAL	"B'00000010'" ++ XBUFADDRTYPE.REAL KEYWORD
987	(3DB)	BITSTRING	1	CKWXLIST_XSHLFLGS2	++ FIELD_LABEL
		1...		CKWXLIST_XMODE_SYNCECB	"B'10000000'" ++ XMODE.SYNCECB KEYWORD
		.1..		CKWXLIST_XMODE_SYNCEXIT	"B'01000000'" ++ XMODE.SYNCEXIT KEYWORD
		..1.		CKWXLIST_XMODE_SYNCTOKEN	"B'00100000'" ++ XMODE.SYNCTOKEN KEYWORD
		...1		CKWXLIST_XMODE_ASYNCECB	"B'00010000'" ++ XMODE.ASYNCECB KEYWORD

Table 82. Structure CKW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		CKWXLIST_XMODE_ASYNCEXIT	"B'00001000'" ++ XMODE.ASYNCEXIT KEYWORD
		.... .1..		CKWXLIST_XMODE_ASYNCTOKEN	"B'00000100'" ++ XMODE.ASYNCTOKEN KEYWORD
		.... ..1.		CKWXLIST_XMODE_ASYNCNORESPONSE	"B'00000010'" ++ XMODE.ASYNCNORESPONSE KEYWORD
988	(3DC)	BITSTRING	1	CKWXLIST_XSHLFLGS3	++ FIELD_LABEL
		1...		CKWXLIST_XLOCKOPER_SET	"B'10000000'" ++ XLOCKOPER.SET KEYWORD
		.1..		CKWXLIST_XLOCKOPER_RESET	"B'01000000'" ++ XLOCKOPER.RESET KEYWORD
		..1.		CKWXLIST_XLOCKOPER_NOTHELD	"B'00100000'" ++ XLOCKOPER.NOTHELD KEYWORD
		...1		CKWXLIST_XLOCKOPER_HELDBY	"B'00010000'" ++ XLOCKOPER.HELDBY KEYWORD
		.... 1...		CKWXLIST_XLOCKOPER_TEST	"B'00001000'" ++ XLOCKOPER.TEST KEYWORD
		.... .1..		CKWXLIST_XLOCKOPER_READNEXT	"B'00000100'" ++ XLOCKOPER.READNEXT KEYWORD
		.... ..1.		CKWXLIST_XLOCKMODE_COND	"B'00000010'" ++ XLOCKMODE.COND KEYWORD
		1		CKWXLIST_KEYUSED_LOCKCOMP	"B'00000001'" ++ KEYUSED.LOCKCOMP KEYWORD
989	(3DD)	BITSTRING	1	CKWXLIST_XSHLFLGS4	++ FIELD_LABEL
		1...		CKWXLIST_XTYPE_ADJDATA	"B'10000000'" ++ XTYPE.ADJDATA KEYWORD
		.1..		CKWXLIST_XTYPE_ECONTROLS	"B'01000000'" ++ XTYPE.ECONTROLS KEYWORD
		..1.		CKWXLIST_KEYUSED_EXTRESTOKEN	"B'00100000'" ++ KEYUSED.EXTRESTOKEN KEYWORD
		1		CKWXLIST_RCVRYREQASYNC	"B'00000001'" ++ MACUSED.LIST KEYWORD
996	(3E4)	CHARACTER	13	CKWXLIST_XRSV0201	++ RESERVED
1009	(3F1)	BITSTRING	1	CKWXLIST_XCONID	++ FIELD_LABEL
1010	(3F2)	CHARACTER	2	CKWXLIST_XRSV0202	++ RESERVED
1012	(3F4)	SIGNED	4	CKWXLIST_XBUFFER_ALET	++ ALET
1016	(3F8)	SIGNED	4	CKWXLIST_XBUFSIZE	++
1020	(3FC)	ADDRESS	4	CKWXLIST_XBUFFER	++
1012	(3F4)	SIGNED	4	CKWXLIST_XBUFALET	++
1016	(3F8)	SIGNED	4	CKWXLIST_XBUFLIST_ALET	++ ALET
1020	(3FC)	ADDRESS	4	CKWXLIST_XBUFLIST	++
1024	(400)	SIGNED	4	CKWXLIST_XADJAREA_ALET	++ ALET
1028	(404)	ADDRESS	4	CKWXLIST_XADJAREA	++
1024	(400)	SIGNED	4	CKWXLIST_XMOSVECTOR_ALET	++ ALET
1028	(404)	ADDRESS	4	CKWXLIST_XMOSVECTOR	++
1032	(408)	SIGNED	4	CKWXLIST_XANSAREA_ALET	++ ALET
1036	(40C)	ADDRESS	4	CKWXLIST_XANSAREA	++
1040	(410)	ADDRESS	4	CKWXLIST_XREQECB	++
1044	(414)	CHARACTER	4	CKWXLIST_XRSV0203	++ RESERVED
1040	(410)	SIGNED	4	CKWXLIST_XREQTOKEN_ALET	++ ALET

Table 82. Structure CKW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1044	(414)	ADDRESS	4	CKWXLIST_XREQTOKEN	++
1056	(420)	CHARACTER	8	CKWXLIST_XLOCKDATA	++
1064	(428)	CHARACTER	8	CKWXLIST_XRSV0204	++ RESERVED
1056	(420)	CHARACTER	16	CKWXLIST_XEXTRESTOKEN	++
1056	(420)	CHARACTER	8	CKWXLIST_XEXTRESTOKENTKN	++ FIELD_LABEL
1064	(428)	CHARACTER	8	CKWXLIST_XEXTRESTOKENPSVN	++ FIELD_LABEL
1080	(438)	BITSTRING	2	CKWXLIST_XCMDLEN	++ FIELD_LABEL
1082	(43A)	BITSTRING	1	CKWXLIST_XBUFNUM	++
1083	(43B)	BITSTRING	1	CKWXLIST_XBUFINCRNUM	++
1084	(43C)	CHARACTER	1	CKWXLIST_XCCA	++ FIELD_LABEL
1085	(43D)	CHARACTER	1	CKWXLIST_XCCB	++ FIELD_LABEL
1086	(43E)	CHARACTER	2	CKWXLIST_XRSV0501	++ RESERVED
1088	(440)	BITSTRING	4	CKWXLIST_XCMDFLGS1	++ FIELD_LABEL
1092	(444)	CHARACTER	4	CKWXLIST_XB8TO11	++ FIELD_LABEL
1096	(448)	SIGNED	4	CKWXLIST_XLOCKINDEX	++
1100	(44C)	SIGNED	4	CKWXLIST_XLISTNUM	++
1104	(450)	CHARACTER	12	CKWXLIST_XENTRYID	++
1116	(45C)	CHARACTER	8	CKWXLIST_XNEWVERS	++
1124	(464)	CHARACTER	8	CKWXLIST_XVERSCOMP	++
1132	(46C)	CHARACTER	16	CKWXLIST_XAUTHCOMP1	++ FIELD_LABEL
1148	(47C)	CHARACTER	16	CKWXLIST_XNEWAUTH1	++ FIELD_LABEL
1164	(48C)	CHARACTER	32	CKWXLIST_XLISTDESC	++
1088	(440)	CHARACTER	1	CKWXLIST_XCMDFLGS1A	++ FIELD_LABEL
1089	(441)	CHARACTER	1	CKWXLIST_XCMDFLGS1B	++ FIELD_LABEL
1090	(442)	CHARACTER	1	CKWXLIST_XCMDFLGS1C	++ FIELD_LABEL
1091	(443)	CHARACTER	1	CKWXLIST_XCMDFLGS1D	++ FIELD_LABEL
1088	(440)	BITSTRING	1	CKWXLIST_XELEMNUM	++
1088	(440)	BITSTRING	1	CKWXLIST_XDBS	++ FIELD_LABEL
1091	(443)	CHARACTER	1	CKWXLIST_XUID3	++ FIELD_LABEL
1092	(444)	CHARACTER	3	CKWXLIST_XRSV0502	++ RESERVED
1095	(447)	CHARACTER	1	CKWXLIST_XCGLM	++ FIELD_LABEL
1092	(444)	BITSTRING	2	CKWXLIST_XSTARTINDEX	++
1094	(446)	BITSTRING	2	CKWXLIST_XENDINDEX	++
1096	(448)	SIGNED	4	CKWXLIST_XVECTORINDEX	++
1104	(450)	SIGNED	4	CKWXLIST_XLISTLIMIT	++
1108	(454)	CHARACTER	8	CKWXLIST_XRSV0601	++ RESERVED
1132	(46C)	CHARACTER	16	CKWXLIST_XENTRYNAME	++
1132	(46C)	CHARACTER	16	CKWXLIST_XENTRYKEY	++
1132	(46C)	CHARACTER	16	CKWXLIST_XKEYCOMP	++
1132	(46C)	CHARACTER	1	CKWXLIST_XUID2	++ FIELD_LABEL
1133	(46D)	CHARACTER	15	CKWXLIST_XRSV0602	++ RESERVED
1148	(47C)	CHARACTER	8	CKWXLIST_XRESTOKEN	++
1156	(484)	CHARACTER	8	CKWXLIST_XRSV0603	++ RESERVED
1148	(47C)	BITSTRING	2	CKWXLIST_XFIRSTELEM	++
1150	(47E)	BITSTRING	2	CKWXLIST_XLASTELEM	++
1152	(480)	CHARACTER	8	CKWXLIST_XRSV0604	++ RESERVED
1160	(488)	CHARACTER	1	CKWXLIST_XCMDFLGS2A	++ FIELD_LABEL
1161	(489)	CHARACTER	3	CKWXLIST_XRSV0605	++ RESERVED
1164	(48C)	CHARACTER	1	CKWXLIST_XUID1	++ FIELD_LABEL
1165	(48D)	CHARACTER	31	CKWXLIST_XRSV0606	++ RESERVED
1196	(4AC)	CHARACTER	16	CKWXLIST_XMOVETOKEY0	++ FIELD_LABEL
1212	(4BC)	SIGNED	4	CKWXLIST_XMOVETOLIST0	++ FIELD_LABEL

Table 82. Structure CKW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1216	(4C0)	X'E8'	0	CKWXLISTL IXLLIST-3	"*-CKWXLIST" ++ LENGTH OF PLIST
0	(0)	X'3D8'	0	CKWCFLSL	"CKWXLIST,*-CKWXLIST" Length of IXLLIST
0	(0)	X'3D8'	0	M00M1091	"CKWIARV" ++ IARV64 NAME
984	(3D8)	DBL WORD	8	CKWIARV(0)	++ IARV64 PARM LIST
984	(3D8)	BITSTRING	1	CKWIARV_XVERSION	++ INPUT XVERSION
985	(3D9)	BITSTRING	1	CKWIARV_XREQUEST	++ XREQUEST
985	(3D9)	X'1'	0	CKWIARV_XREQUEST_GETSTOR	"1" ++ XREQUEST.GETSTOR KEYWORD
985	(3D9)	X'2'	0	CKWIARV_XREQUEST_GETSHARED	"2" ++ XREQUEST.GETSHARED KEYWORD
985	(3D9)	X'3'	0	CKWIARV_XREQUEST_DETACH	"3" ++ XREQUEST.DETACH KEYWORD
985	(3D9)	X'4'	0	CKWIARV_XREQUEST_PAGEFIX	"4" ++ XREQUEST.PAGEFIX KEYWORD
985	(3D9)	X'5'	0	CKWIARV_XREQUEST_PAGEUNFIX	"5" ++ XREQUEST.PAGEUNFIX KEYWORD
985	(3D9)	X'6'	0	CKWIARV_XREQUEST_PAGEOUT	"6" ++ XREQUEST.PAGEOUT KEYWORD
985	(3D9)	X'7'	0	CKWIARV_XREQUEST_DISCARDDATA	"7" ++ XREQUEST.DISCARDDATA KEYWORD
985	(3D9)	X'8'	0	CKWIARV_XREQUEST_PAGEIN	"8" ++ XREQUEST.PAGEIN KEYWORD
985	(3D9)	X'9'	0	CKWIARV_XREQUEST_PROTECT	"9" ++ XREQUEST.PROTECT KEYWORD
985	(3D9)	X'A'	0	CKWIARV_XREQUEST_SHAREMEMOBJ	"10" ++ XREQUEST.SHAREMEMOBJ KEYWORD
985	(3D9)	X'B'	0	CKWIARV_XREQUEST_CHANGEACCESS	"11" ++ XREQUEST.CHANGEACCESS KEYWORD
985	(3D9)	X'C'	0	CKWIARV_XREQUEST_UNPROTECT	"12" ++ XREQUEST.UNPROTECT KEYWORD
985	(3D9)	X'D'	0	CKWIARV_XREQUEST_CHANGEGUARD	"13" ++ XREQUEST.CHANGEGUARD KEYWORD
985	(3D9)	X'E'	0	CKWIARV_XREQUEST_LIST	"14" ++ XREQUEST.LIST KEYWORD
985	(3D9)	X'F'	0	CKWIARV_XREQUEST_GETCOMMON	"15" ++ XREQUEST.GETCOMMON KEYWORD
985	(3D9)	X'10'	0	CKWIARV_XREQUEST_COUNTPAGES	"16" ++ XREQUEST.COUNTPAGES KEYWORD
985	(3D9)	X'11'	0	CKWIARV_XREQUEST_PCIEFIX	"17" ++ XREQUEST.PCIEFIX KEYWORD
985	(3D9)	X'12'	0	CKWIARV_XREQUEST_PCIEUNFIX	"18" ++ XREQUEST.PCIEUNFIX KEYWORD
986	(3DA)	BITSTRING	1	CKWIARV_XFLAGS0	++ FIELD_LABEL
		1...		CKWIARV_XMOTKNSOURCE_SYSTEM	"B'10000000'" ++ XMOTKNSOURCE.SYSTEM KEYWORD
		.1..		CKWIARV_XMOTKNCREATOR_SYSTEM	"B'01000000'" ++ XMOTKNCREATOR.SYSTEM KEYWORD
		..1.		CKWIARV_XMATCH_MOTOKEN	"B'00100000'" ++ XMATCH.MOTOKEN KEYWORD
987	(3DB)	BITSTRING	1	CKWIARV_XKEY	++
988	(3DC)	BITSTRING	1	CKWIARV_XFLAGS1	++ FIELD_LABEL

Table 82. Structure CKW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		CKWIARV_KEYUSED_KEY	"B'10000000'" ++ KEYUSED.KEY KEYWORD
		.1..		CKWIARV_KEYUSED_USERTKN	"B'01000000'" ++ KEYUSED.USERTKN KEYWORD
		..1.		CKWIARV_KEYUSED_TTOKEN	"B'00100000'" ++ KEYUSED.TTOKEN KEYWORD
		...1		CKWIARV_KEYUSED_CONVERTSTART	"B'00010000'" ++ KEYUSED.CONVERTSTART KEYWORD
		.... 1...		CKWIARV_KEYUSED_GUARDSIZE64	"B'00001000'" ++ KEYUSED.GUARDSIZE64 KEYWORD
		.... .1..		CKWIARV_KEYUSED_CONVERTSIZE64	"B'00000100'" ++ KEYUSED.CONVERTSIZE64 KEYWORD
		.... ..1.		CKWIARV_KEYUSED_MOTKN	"B'00000010'" ++ KEYUSED.MOTKN KEYWORD
		1		CKWIARV_KEYUSED_OWNERJOBNAME	"B'00000001'" ++ KEYUSED.OWNERJOBNAME KEYWORD
989	(3DD)	BITSTRING	1	CKWIARV_XFLAGS2	++ FIELD_LABEL
		1...		CKWIARV_XCOND_YES	"B'10000000'" ++ XCOND.YES KEYWORD
		.1..		CKWIARV_XFPROT_NO	"B'01000000'" ++ XFPROT.NO KEYWORD
		..1.		CKWIARV_XCONTROL_AUTH	"B'00100000'" ++ XCONTROL.AUTH KEYWORD
		...1		CKWIARV_XGUARDLOC_HIGH	"B'00010000'" ++ XGUARDLOC.HIGH KEYWORD
		.... 1...		CKWIARV_XCHANGEACCESS_GLOBAL	"B'00001000'" ++ XCHANGEACCESS.GLOBAL KEYWORD
		.... .1..		CKWIARV_XPAGEFRAMESIZE_1MEG	"B'00000100'" ++ XPAGEFRAMESIZE.1MEG KEYWORD
		.... ..1.		CKWIARV_XPAGEFRAMESIZE_MAX	"B'00000010'" ++ XPAGEFRAMESIZE.MAX KEYWORD
		1		CKWIARV_XPAGEFRAMESIZE_ALL	"B'00000001'" ++ XPAGEFRAMESIZE.ALL KEYWORD
990	(3DE)	BITSTRING	1	CKWIARV_XFLAGS3	++ FIELD_LABEL
		1...		CKWIARV_XMATCH_USERTOKEN	"B'10000000'" ++ XMATCH.USERTOKEN KEYWORD
		.1..		CKWIARV_XAFFINITY_SYSTEM	"B'01000000'" ++ XAFFINITY.SYSTEM KEYWORD
		..1.		CKWIARV_XUSE2GTO32G_YES	"B'00100000'" ++ XUSE2GTO32G.YES KEYWORD
		...1		CKWIARV_XOWNER_NO	"B'00010000'" ++ XOWNER.NO KEYWORD
		.... 1...		CKWIARV_XV64SELECT_NO	"B'00001000'" ++ XV64SELECT.NO KEYWORD
		.... .1..		CKWIARV_XSVCDUMPRGN_NO	"B'00000100'" ++ XSVCDUMPRGN.NO KEYWORD
		.... ..1.		CKWIARV_XV64SHARED_NO	"B'00000010'" ++ XV64SHARED.NO KEYWORD

Table 82. Structure CKW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1		CKWIARV_XSVCDUMPRGN_ALL	"B'00000001'" ++ XSVCDUMPRGN.ALL KEYWORD
991	(3DF)	BITSTRING	1	CKWIARV_XFLAGS4	++ FIELD_LABEL
		1...		CKWIARV_XLONG_NO	"B'10000000'" ++ XLONG.NO KEYWORD
		.1..		CKWIARV_XCLEAR_NO	"B'01000000'" ++ XCLEAR.NO KEYWORD
		..1.		CKWIARV_XVIEW_READONLY	"B'00100000'" ++ XVIEW.READONLY KEYWORD
		...1		CKWIARV_XVIEW_SHAREDWRITE	"B'00010000'" ++ XVIEW.SHAREDWRITE KEYWORD
		.... 1...		CKWIARV_XVIEW_HIDDEN	"B'00001000'" ++ XVIEW.HIDDEN KEYWORD
		.... .1..		CKWIARV_XCONVERT_TOGUARD	"B'00000100'" ++ XCONVERT.TOGUARD KEYWORD
		.... ..1.		CKWIARV_XCONVERT_FROMGUARD	"B'00000010'" ++ XCONVERT.FROMGUARD KEYWORD
		1		CKWIARV_XKEEPREAL_NO	"B'00000001'" ++ XKEEPREAL.NO KEYWORD
992	(3E0)	DBL WORD	8	CKWIARV_XSEGMENTS	++
1000	(3E8)	CHARACTER	16	CKWIARV_XTTOKEN	++
1016	(3F8)	DBL WORD	8	CKWIARV_XUSERTKN	++
1024	(400)	ADDRESS	8	CKWIARV_XORIGIN	++
1032	(408)	ADDRESS	8	CKWIARV_XRANGLIST	++
1040	(410)	ADDRESS	8	CKWIARV_XMEMOBJSTART	++
1048	(418)	SIGNED	4	CKWIARV_XGUARDSIZE	++
1052	(41C)	SIGNED	4	CKWIARV_XCONVERTSIZE	++
1056	(420)	SIGNED	4	CKWIARV_XALETVALUE	++
1060	(424)	SIGNED	4	CKWIARV_XNUMRANGE	++
1064	(428)	ADDRESS	4	CKWIARV_XV64LISTPTR	++
1068	(42C)	SIGNED	4	CKWIARV_XV64LISTLENGTH	++
1072	(430)	DBL WORD	8	CKWIARV_XCONVERTSTART	++
1080	(438)	DBL WORD	8	CKWIARV_XCONVERTSIZE64	++
1088	(440)	DBL WORD	8	CKWIARV_XGUARDSIZE64	++
1096	(448)	CHARACTER	8	CKWIARV_XUSERTOKEN	++
1104	(450)	BITSTRING	1	CKWIARV_XDUMPPRIORITY	++
1105	(451)	BITSTRING	1	CKWIARV_XFLAGS5	++ FIELD_LABEL
		1...		CKWIARV_XDUMPPROTOCOL_YES	"B'10000000'" ++ XDUMPPROTOCOL.YES KEYWORD
		.1..		CKWIARV_XORDER_DUMPPRIORITY	"B'01000000'" ++ XORDER.DUMPPRIORITY KEYWORD
		..1.		CKWIARV_XTYPE_PAGEABLE	"B'00100000'" ++ XTYPE.PAGEABLE KEYWORD
		...1		CKWIARV_XTYPE_DREF	"B'00010000'" ++ XTYPE.DREF KEYWORD
		.... 1...		CKWIARV_XOWNERCOM_HOME	"B'00001000'" ++ XOWNERCOM.HOME KEYWORD
		.... .1..		CKWIARV_XOWNERCOM_PRIMARY	"B'00000100'" ++ XOWNERCOM.PRIMARY KEYWORD
		.... ..1.		CKWIARV_XOWNERCOM_SYSTEM	"B'00000010'" ++ XOWNERCOM.SYSTEM KEYWORD

Table 82. Structure CKW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1		CKWIARV_XOWNERCOM_BYASID	"B'00000001'" ++ XOWNERCOM.BYASID KEYWORD
1106	(452)	BITSTRING	1	CKWIARV_XFLAGS6	++ FIELD_LABEL
		1...		CKWIARV_XV64COMMON_NO	"B'10000000'" ++ XV64COMMON.NO KEYWORD
		.1..		CKWIARV_XMEMLIMIT_NO	"B'01000000'" ++ XMEMLIMIT.NO KEYWORD
		..1.		CKWIARV_XDETACHFIXED_YES	"B'00100000'" ++ XDETACHFIXED.YES KEYWORD
		...1		CKWIARV_XDOAUTHCHECKS_YES	"B'00010000'" ++ XDOAUTHCHECKS.YES KEYWORD
		.... 1...		CKWIARV_XLOCALSYSAREA_YES	"B'00001000'" ++ XLOCALSYSAREA.YES KEYWORD
		.... .1..		CKWIARV_XAMOUNTSIZE_4K	"B'00000100'" ++ XAMOUNTSIZE.4K KEYWORD
		.... ..1.		CKWIARV_XAMOUNTSIZE_1MEG	"B'00000010'" ++ XAMOUNTSIZE.1MEG KEYWORD
		1		CKWIARV_XMEMLIMIT_COND	"B'00000001'" ++ XMEMLIMIT.COND KEYWORD
1107	(453)	BITSTRING	1	CKWIARV_XFLAGS7	++ FIELD_LABEL
		1...		CKWIARV_KEYUSED_DUMP	"B'10000000'" ++ KEYUSED.DUMP KEYWORD
		.1..		CKWIARV_KEYUSED_OPTIONVALUE	"B'01000000'" ++ KEYUSED.OPTIONVALUE KEYWORD
		..1.		CKWIARV_KEYUSED_SVCDUMPRGN	"B'00100000'" ++ KEYUSED.SVCDUMPRGN KEYWORD
		...1		CKWIARV_XATTRIBUTE_DEFS	"B'00010000'" ++ XATTRIBUTE.DEFS KEYWORD
		.... 1...		CKWIARV_XATTRIBUTE_OWNERGONE	"B'00001000'" ++ XATTRIBUTE.OWNERGONE KEYWORD
		.... .1..		CKWIARV_XATTRIBUTE_NOTOWNERGONE	"B'00000100'" ++ XATTRIBUTE.NOTOWNERGONE KEYWORD
		.... ..1.		CKWIARV_XTRACKINFO_YES	"B'00000010'" ++ XTRACKINFO.YES KEYWORD
		1		CKWIARV_XUNLOCKED_YES	"B'00000001'" ++ XUNLOCKED.YES KEYWORD
1108	(454)	BITSTRING	1	CKWIARV_XDUMP	++ XDUMP
1108	(454)	X'0'	0	CKWIARV_XDUMP_NONE	"0" ++ XDUMP.NONE KEYWORD
1108	(454)	X'1'	0	CKWIARV_XDUMP_NO	"1" ++ XDUMP.NO KEYWORD
1108	(454)	X'2'	0	CKWIARV_XDUMP_LIKESQA	"2" ++ XDUMP.LIKESQA KEYWORD
1108	(454)	X'3'	0	CKWIARV_XDUMP_LIKECSA	"3" ++ XDUMP.LIKECSA KEYWORD
1108	(454)	X'20'	0	CKWIARV_XDUMP_LIKERGN	"32" ++ XDUMP.LIKERGN KEYWORD
1108	(454)	X'21'	0	CKWIARV_XDUMP_LIKELSQA	"33" ++ XDUMP.LIKELSQA KEYWORD
1108	(454)	X'FF'	0	CKWIARV_XDUMP_ALL	"255" ++ XDUMP.ALL KEYWORD
1109	(455)	BITSTRING	1	CKWIARV_XFLAGS8	++ FIELD_LABEL
		1...		CKWIARV_XPAGEFRAMESIZE_PAGEABLE1MEG	"B'10000000'" ++ XPAGEFRAMESIZE.PAGEABLE1MEG KEYWOR
		.1..		CKWIARV_XPAGEFRAMESIZE_DREF1MEG	

Table 82. Structure CKW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"B'01000000'" ++ XPAGEFRAMESIZE.DREF1MEG KEYWORD
1110	(456)	BITSTRING	2	CKWIARV_XOWNERASID	++
1112	(458)	BITSTRING	1	CKWIARV_XOPTIONVALUE	++
1113	(459)	CHARACTER	8	CKWIARV_XRSV0001	++ RESERVED
1121	(461)	CHARACTER	8	CKWIARV_XOWNERJOBNAME	++
1129	(469)	CHARACTER	7	CKWIARV_XRSV0004	++ RESERVED
1136	(470)	ADDRESS	8	CKWIARV_XDMAPAGETABLE	++
1144	(478)	DBL WORD	8	CKWIARV_XUNITS	++
1152	(480)	BITSTRING	1	CKWIARV_XFLAGS9	++ FIELD_LABEL
		1...		CKWIARV_KEYUSED_UNITS	"B'10000000'" ++ KEYUSED.UNITS KEYWORD
		.1..		CKWIARV_XUNITSIZE_1M	"B'01000000'" ++ XUNITSIZE.1M KEYWORD
		..1.		CKWIARV_XUNITSIZE_2G	"B'00100000'" ++ XUNITSIZE.2G KEYWORD
		...1		CKWIARV_XPAGEFRAMESIZE_1M	"B'00010000'" ++ XPAGEFRAMESIZE.1M KEYWORD
		.... 1...		CKWIARV_XPAGEFRAMESIZE_2G	"B'00001000'" ++ XPAGEFRAMESIZE.2G KEYWORD
		.... .1..		CKWIARV_XTYPE_FIXED	"B'00000100'" ++ XTYPE.FIXED KEYWORD
1153	(481)	CHARACTER	7	CKWIARV_XRSV0005	++ RESERVED
1153	(481)	X'488'	0	CKWIARV_PL_END	"*" ++ END OF BASE PLIST
1016	(3F8)	DBL WORD	8	CKWIARV_XOUTMOTKN	++
1016	(3F8)	DBL WORD	8	CKWIARV_XMOTKN	++
1160	(488)	X'B0'	0	CKWIARVL	"*-CKWIARV" ++ LENGTH OF PLIST
				IARV64-5	
1160	(488)	ADDRESS	8	CKWI64PT	Rangelist pointer
1168	(490)	BITSTRING	16	CKWI64RG(0)	Rangelist
1168	(490)	ADDRESS	8	CKWI64RA	Address of area
1176	(498)	DBL WORD	8	CKWI64RC	Count of areas
1216	(4C0)	SIGNED	4	(0)	Align next
1216	(4C0)	BITSTRING	32	CKWVRLA	VRL entry work area
				IARVSERV MF=(L,CKWVSERV) List form of IARVSERV macro MACDATE -05/08/12-<0>	
0	(0)	X'4E0'	0	M00M1092	"CKWVSERV" ++ IARVSERV NAME
1248	(4E0)	DBL WORD	8	CKWVSERV(0)	++ IARVSERV PARM LIST
1248	(4E0)	BITSTRING	1	CKWVSERV_XVERSION	++ INPUT XVERSION
1249	(4E1)	BITSTRING	1	CKWVSERV_XSERVICE	++ XSERVICE
1249	(4E1)	X'1'	0	CKWVSERV_SHARE	"1" ++ XSERVICE.SHARE KEYWORD
1249	(4E1)	X'2'	0	CKWVSERV_UNSHARE	"2" ++ XSERVICE.UNSHARE KEYWORD
1249	(4E1)	X'3'	0	CKWVSERV_CHANGEACCESS	"3" ++ XSERVICE.CHANGEACCESS KEYWORD
1249	(4E1)	X'4'	0	CKWVSERV_SHARESEG	"4" ++ XSERVICE.SHARESEG KEYWORD
1250	(4E2)	BITSTRING	1	CKWVSERV_XFLAGS1	++ FIELD_LABEL
		1...		CKWVSERV_TARGET_VIEW_RO	"B'10000000'" ++ XTARGET_VIEW.READONLY KEYWORD
		.1..		CKWVSERV_TARGET_VIEW_SW	"B'01000000'" ++ XTARGET_VIEW.SHAREDWRITE KEYWORD

Table 82. Structure CKW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		CKWVSERV_TARGET_VIEW_UW	"B'00100000'" ++ XTARGET_VIEW.UNIQUEWRITE KEYWORD
		...1		CKWVSERV_TARGET_VIEW_TW	"B'00010000'" ++ XTARGET_VIEW.TARGETWRITE KEYWORD
		.... 1...		CKWVSERV_TARGET_VIEW_LS	"B'00001000'" ++ XTARGET_VIEW.LIKESOURCE KEYWORD
		.... .1..		CKWVSERV_TARGET_VIEW_NA	"B'00000100'" ++ XTARGET_VIEW.HIDDEN KEYWORD
		.... ..1.		CKWVSERV_COPYNOW	"B'00000010'" ++ KEYUSED.COPYNOW KEYWORD
		1		CKWVSERV_RETAIN_YES	"B'00000001'" ++ XRETAIN.YES KEYWORD
1251	(4E3)	BITSTRING	1	CKWVSERV_XFLAGS2	++ FIELD_LABEL
		1...		CKWVSERV_XPARTIALPAGE_YES	"B'10000000'" ++ XPARTIALPAGE.YES KEYWORD
1252	(4E4)	SIGNED	4	CKWVSERV_XNUMRANGE	++
1256	(4E8)	ADDRESS	4	CKWVSERV_XRANGLIST	++
1256	(4E8)	X'C'	0	CKWVSERVL	"*-CKWVSERV" ++ LENGTH OF PLIST
				IARVSERV-0	
1264	(4F0)	DBL WORD	8	CKWRESTM	Time CKPT got the reserve
Data used for CKPT tuning purposes					
1272	(4F8)	DBL WORD	8	CKWTSECT(0)	CKPT tuning section
1272	(4F8)	DBL WORD	8	CKWAUTOT	Time of last start/stop
1280	(500)	SIGNED	4	CKWHOLDM	Manual HOLD
1284	(504)	SIGNED	4	CKWLDRM	Manual MINDORM
1288	(508)	SIGNED	4	CKWHDRM	Manual MAXDORM
1292	(50C)	BITSTRING	1	CKWTFLG1	Processing flags
		1...		CKWT1ON	"B'10000000'" CKPT tuning is on
		.1..		CKWT1SM	"B'01000000'" Single member mode
		..1.		CKWT1TCM	"B'00100000'" Ckpt tuning changes made
1293	(50D)	BITSTRING	1		Reserved
1294	(50E)	SIGNED	2	CKWTSEQN	Ckpt tuning cycle number
1296	(510)	SIGNED	4	CKWBCL	Length of basic cycle
1300	(514)	SIGNED	4	CKWFHOLD	"fair-share" HOLD value
1304	(518)	DBL WORD	8	CKWTOTPN	Total pain
1312	(520)	SIGNED	4	CKWALCH	Allocated CKPT time
1316	(524)	SIGNED	4	CKWAVLH	Available CKPT time
1320	(528)	SIGNED	4	CKWMAXPN	Maximum pain
1324	(52C)	ADDRESS	4	CKWMAXM	Ptr to member entry with maximum pain
1328	(530)	SIGNED	4		Reserved
1332	(534)	SIGNED	4	CKWADJMN	Number of adjustable mbrs
1336	(538)	BITSTRING	1	CKWADJMA	Arrays of pointers to entries in CKWMBRDT
Tuning data for all members. Entries in this array are mapped by CKWMBRDE.					
1464	(5B8)	BITSTRING	1408	CKWMBRDT	Member data
2872	(B38)	BITSTRING	4	CKWRMASK	Reported members mask
2876	(B3C)	BITSTRING	4	CKWWMASK	Work mask for messages
2880	(B40)	BITSTRING	4	CKWZMASK	Reset value for CKWRMASK

Table 82. Structure CKW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2884	(B44)	BITSTRING	4	CKWLMASK	Last action mask
2888	(B48)	ADDRESS	4	CKWCTMSG	Ptr to tuning XREQ buffer
2888	(B48)	X'654'	0	CKWTSIZE	"*-CKWTSECT" Length of tuning section
2888	(B48)	X'B4C'	0	CKWLNGTH	"*-CKW" LENGTH OF CKW

Table 83. Structure CKWMBRDE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CKWMBRDE	, Member tuning data
0	(0)	BITSTRING	1	CKWMID	Member id
1	(1)	BITSTRING	3		Reserved
4	(4)	SIGNED	4	CKWMRHLD	Reported HOLD
8	(8)	SIGNED	4	CKWMCHLD	Calculated HOLD
12	(C)	SIGNED	4	CKWMRLDR	Reported min DORMANCY
16	(10)	SIGNED	4	CKWMCLDR	Calculated min DORMANCY
20	(14)	SIGNED	4	CKWMRHDR	Reported max DORMANCY
24	(18)	SIGNED	4	CKWMCHDR	Calculated max DORMANCY
28	(1C)	SIGNED	4	CKWMQSMX	Longest QSUSE (microsecs)
32	(20)	SIGNED	4	CKWMOHV	CKPT overhead (microsecs)
36	(24)	SIGNED	4	CKWMPNR	Pain rate
40	(28)	SIGNED	4	CKWMPNV	Pain value
40	(28)	X'2C'	0	CKWMSIZE	"*-CKWMBRDE" Size of member entry

Table 84. Cross Reference for $CKW

Name	Offset	Hex Tag
CKW	0	
CKWADJMA	538	
CKWADJMN	534	
CKWALCH	520	
CKWAUTOT	4F8	
CKWAVLH	524	
CKWBCL	510	
CKWBLMSG	358	C2D3C440
CKWCALC	A8	
CKWCALCE	B0	
CKWCAL1	A0	
CKWCBCNT	194	
CKWCFAIL	1E0	
CKWCFER	30	2
CKWCFLSL	0	3D8
CKWCFLVL	218	
CKWCFLVN	218	21C
CKWCFPRL	0	3D8
CKWCFPUR	3D8	
CKWCFPUR_XCONTOKEN	3F4	
CKWCFPUR_XREQID	404	

Table 84. Cross Reference for $CKW (continued)

Name	Offset	Hex Tag
CKWCFPUR_XRSV0001	3DA	
CKWCFPUR_XSCOPE_CONTOKEN	3D9	20
CKWCFPUR_XSCOPE_STOKEN	3D9	80
CKWCFPUR_XSCOPE_TTOKEN	3D9	40
CKWCFPUR_XSCOPEFLAGS	3D9	
CKWCFPUR_XSTOKEN	3DC	
CKWCFPUR_XTTOKEN	3E4	
CKWCFPUR_XVERSION	3D8	
CKWCFPURL	404	34
CKWCFTD	1E8	
CKWCKMA	68	
CKWCKPSZ	198	
CKWCKPTN	150	
CKWCKWRE	208	
CKWCKWTM	200	
CKWCONID	2FC	
CKWCTLB	B8	
CKWCTLBE	C8	
CKWCTLBI	C0	
CKWCTMSG	B48	
CKWCTWA	70	
CKWCT1RC	1DC	
CKWDDCK1	268	3
CKWDDCK2	268	4
CKWDFAIL	1E4	
CKWDHFE	26C	
CKWDIAGR	308	
CKWDRCK1	268	5
CKWDRCK2	268	6
CKWDRNC1	300	
CKWDRNC2	304	
CKWDSCK1	268	1
CKWDSCK2	268	2
CKWDSETR	268	
CKWDSVHF	2B4	
CKWDSWRK	269	
CKWERREG	D0	
CKWFHOLD	514	
CKWFLAG1	5	
CKWFLAG2	6	
CKWFLAG3	7	
CKWFLAG4	8	
CKWFLAG5	9	
CKWFLAG6	A	
CKWFLAG7	B	
CKWFMCKG	20C	
CKWGTLKT	10	
CKWHDRM	508	
CKWHOLDM	500	

Table 84. Cross Reference for $CKW (continued)

Name	Offset	Hex Tag
CKWIARV	3D8	
CKWIARV_KEYUSED_CONVERTSIZE64	3DC	4
CKWIARV_KEYUSED_CONVERTSTART	3DC	10
CKWIARV_KEYUSED_DUMP	453	80
CKWIARV_KEYUSED_GUARDSIZE64	3DC	8
CKWIARV_KEYUSED_KEY	3DC	80
CKWIARV_KEYUSED_MOTKN	3DC	2
CKWIARV_KEYUSED_OPTIONVALUE	453	40
CKWIARV_KEYUSED_OWNERJOBNAME	3DC	1
CKWIARV_KEYUSED_SVCDUMPRGN	453	20
CKWIARV_KEYUSED_TTOKEN	3DC	20
CKWIARV_KEYUSED_UNITS	480	80
CKWIARV_KEYUSED_USERTKN	3DC	40
CKWIARV_PL_END	481	488
CKWIARV_XAFFINITY_SYSTEM	3DE	40
CKWIARV_XALETVALUE	420	
CKWIARV_XAMOUNTSIZE_1MEG	452	2
CKWIARV_XAMOUNTSIZE_4K	452	4
CKWIARV_XATTRIBUTE_DEFS	453	10
CKWIARV_XATTRIBUTE_NOTOWNERGONE	453	4
CKWIARV_XATTRIBUTE_OWNERGONE	453	8
CKWIARV_XCHANGEACCESS_GLOBAL	3DD	8
CKWIARV_XCLEAR_NO	3DF	40
CKWIARV_XCOND_YES	3DD	80
CKWIARV_XCONTROL_AUTH	3DD	20
CKWIARV_XCONVERT_FROMGUARD	3DF	2
CKWIARV_XCONVERT_TOGUARD	3DF	4
CKWIARV_XCONVERTSIZE	41C	
CKWIARV_XCONVERTSIZE64	438	
CKWIARV_XCONVERTSTART	430	
CKWIARV_XDETACHFIXED_YES	452	20
CKWIARV_XDMAPAGETABLE	470	
CKWIARV_XDOAUTHCHECKS_YES	452	10
CKWIARV_XDUMP	454	
CKWIARV_XDUMP_ALL	454	FF
CKWIARV_XDUMP_LIKECSA	454	3
CKWIARV_XDUMP_LIKELSQA	454	21
CKWIARV_XDUMP_LIKERGN	454	20
CKWIARV_XDUMP_LIKESQA	454	2
CKWIARV_XDUMP_NO	454	1
CKWIARV_XDUMP_NONE	454	0
CKWIARV_XDUMPPRIORITY	450	
CKWIARV_XDUMPPROTOCOL_YES	451	80
CKWIARV_XFLAGS0	3DA	
CKWIARV_XFLAGS1	3DC	
CKWIARV_XFLAGS2	3DD	
CKWIARV_XFLAGS3	3DE	
CKWIARV_XFLAGS4	3DF	
CKWIARV_XFLAGS5	451	

Table 84. Cross Reference for $CKW (continued)

Name	Offset	Hex Tag
CKWIARV_XFLAGS6	452	
CKWIARV_XFLAGS7	453	
CKWIARV_XFLAGS8	455	
CKWIARV_XFLAGS9	480	
CKWIARV_XFPROT_NO	3DD	40
CKWIARV_XGUARDLOC_HIGH	3DD	10
CKWIARV_XGUARDSIZE	418	
CKWIARV_XGUARDSIZE64	440	
CKWIARV_XKEEPREAL_NO	3DF	1
CKWIARV_XKEY	3DB	
CKWIARV_XLOCALSYSAREA_YES	452	8
CKWIARV_XLONG_NO	3DF	80
CKWIARV_XMATCH_MOTOKEN	3DA	20
CKWIARV_XMATCH_USERTOKEN	3DE	80
CKWIARV_XMEMLIMIT_COND	452	1
CKWIARV_XMEMLIMIT_NO	452	40
CKWIARV_XMEMOBJSTART	410	
CKWIARV_XMOTKN	3F8	
CKWIARV_XMOTKNCREATOR_SYSTEM	3DA	40
CKWIARV_XMOTKNSOURCE_SYSTEM	3DA	80
CKWIARV_XNUMRANGE	424	
CKWIARV_XOPTIONVALUE	458	
CKWIARV_XORDER_DUMPPRIORITY	451	40
CKWIARV_XORIGIN	400	
CKWIARV_XOUTMOTKN	3F8	
CKWIARV_XOWNER_NO	3DE	10
CKWIARV_XOWNERASID	456	
CKWIARV_XOWNERCOM_BYASID	451	1
CKWIARV_XOWNERCOM_HOME	451	8
CKWIARV_XOWNERCOM_PRIMARY	451	4
CKWIARV_XOWNERCOM_SYSTEM	451	2
CKWIARV_XOWNERJOBNAME	461	
CKWIARV_XPAGEFRAMESIZE_ALL	3DD	1
CKWIARV_XPAGEFRAMESIZE_DREF1MEG	0	40
CKWIARV_XPAGEFRAMESIZE_MAX	3DD	2
CKWIARV_XPAGEFRAMESIZE_PAGEABLE1MEG	455	80
CKWIARV_XPAGEFRAMESIZE_1M	480	10
CKWIARV_XPAGEFRAMESIZE_1MEG	3DD	4
CKWIARV_XPAGEFRAMESIZE_2G	480	8
CKWIARV_XRANGLIST	408	
CKWIARV_XREQUEST	3D9	
CKWIARV_XREQUEST_CHANGEACCESS	3D9	B
CKWIARV_XREQUEST_CHANGEGUARD	3D9	D
CKWIARV_XREQUEST_COUNTPAGES	3D9	10
CKWIARV_XREQUEST_DETACH	3D9	3
CKWIARV_XREQUEST_DISCARDDATA	3D9	7
CKWIARV_XREQUEST_GETCOMMON	3D9	F
CKWIARV_XREQUEST_GETSHARED	3D9	2
CKWIARV_XREQUEST_GETSTOR	3D9	1

Table 84. Cross Reference for $CKW (continued)

Name	Offset	Hex Tag
CKWIARV_XREQUEST_LIST	3D9	E
CKWIARV_XREQUEST_PAGEFIX	3D9	4
CKWIARV_XREQUEST_PAGEIN	3D9	8
CKWIARV_XREQUEST_PAGEOUT	3D9	6
CKWIARV_XREQUEST_PAGEUNFIX	3D9	5
CKWIARV_XREQUEST_PCIEFIX	3D9	11
CKWIARV_XREQUEST_PCIEUNFIX	3D9	12
CKWIARV_XREQUEST_PROTECT	3D9	9
CKWIARV_XREQUEST_SHAREMEMOBJ	3D9	A
CKWIARV_XREQUEST_UNPROTECT	3D9	C
CKWIARV_XRSV0001	459	
CKWIARV_XRSV0004	469	
CKWIARV_XRSV0005	481	
CKWIARV_XSEGMENTS	3E0	
CKWIARV_XSVCDUMPRGN_ALL	3DE	1
CKWIARV_XSVCDUMPRGN_NO	3DE	4
CKWIARV_XTRACKINFO_YES	453	2
CKWIARV_XTTOKEN	3E8	
CKWIARV_XTYPE_DREF	451	10
CKWIARV_XTYPE_FIXED	480	4
CKWIARV_XTYPE_PAGEABLE	451	20
CKWIARV_XUNITS	478	
CKWIARV_XUNITSIZE_1M	480	40
CKWIARV_XUNITSIZE_2G	480	20
CKWIARV_XUNLOCKED_YES	453	1
CKWIARV_XUSERTKN	3F8	
CKWIARV_XUSERTOKEN	448	
CKWIARV_XUSE2GTO32G_YES	3DE	20
CKWIARV_XVERSION	3D8	
CKWIARV_XVIEW_HIDDEN	3DF	8
CKWIARV_XVIEW_READONLY	3DF	20
CKWIARV_XVIEW_SHAREDWRITE	3DF	10
CKWIARV_XV64COMMON_NO	452	80
CKWIARV_XV64LISTLENGTH	42C	
CKWIARV_XV64LISTPTR	428	
CKWIARV_XV64SELECT_NO	3DE	8
CKWIARV_XV64SHARED_NO	3DE	2
CKWIARVL	488	B0
CKWID	0	C3D2E640
CKWINITM	1F8	
CKWIOLST	19C	
CKWIO64	90	
CKWIO64L	98	
CKWI64PT	488	
CKWI64RA	490	
CKWI64RC	498	
CKWI64RG	490	
CKWKSTQE	230	
CKWKTJOE	48	

Table 84. Cross Reference for $CKW (continued)

Name	Offset	Hex Tag
CKWKTJQE	40	
CKWKTJQX	44	
CKWKTPST	4C	
CKWKT1PK	1F0	
CKWKT1RC	1D8	
CKWLDIAG	5	8
CKWLDRM	504	
CKWLKEY1	1B8	
CKWLKEY2	1C0	
CKWLKIT	38	
CKWLKITE	3C	
CKWLKNUM	50	
CKWLKVL1	1C8	
CKWLKVL2	1D0	
CKWLMASK	B44	
CKWLNGTH	B48	B4C
CKWLSTSY	53	
CKWMAXM	52C	
CKWMAXPN	528	
CKWMAXRC	54	
CKWMBRDE	0	
CKWMBRDT	5B8	
CKWMCHDR	18	
CKWMCHLD	8	
CKWMCLDR	10	
CKWMID	0	
CKWMOHV	20	
CKWMPNR	24	
CKWMPNV	28	
CKWMQSMX	1C	
CKWMRHDR	14	
CKWMRHLD	4	
CKWMRLDR	C	
CKWMSG	308	
CKWMSIZE	28	2C
CKWMSTBI	60	
CKWMSTBL	64	
CKWMVSWT	158	
CKWOHV	17C	
CKWOPTCK	188	
CKWOPT4K	18C	
CKWPAGCT	190	
CKWPAINR	174	
CKWPAINV	178	
CKWPARML	1B4	18
CKWPARMS	1A0	
CKWPARM1	1A0	
CKWPARM2	1A4	
CKWPARM3	1A8	

Table 84. Cross Reference for $CKW (continued)

Name	Offset	Hex Tag
CKWPARM4	1AC	
CKWPARM5	1B0	
CKWPARM6	1B4	
CKWPNRC	184	
CKWPPL	3B0	0
CKWPPLA	6C	
CKWPREVT	20	
CKWQECB	248	
CKWQREPL	260	40404040
CKWQSLST	168	
CKWQSMX	180	
CKWQSUSE	160	
CKWRCID	34	
CKWRECF3	31	
CKWRESTM	4F0	
CKWRESV	3D8	
CKWRESV_KEYUSED_CONTROL	3DE	80
CKWRESV_PL_END	450	458
CKWRESV_XANSAREA_ADDR3164	408	
CKWRESV_XANSAREA_ALET	43C	
CKWRESV_XANSLEN	440	
CKWRESV_XCOND_NO	0	1
CKWRESV_XCOND_YES	0	2
CKWRESV_XCONTENTIONACT_FAIL	3DC	20
CKWRESV_XCONTROL	3DB	
CKWRESV_XCONTROL_DO_NOT_OVERRIDE	3DD	10
CKWRESV_XCONTROL_EXCLUSIVE	3DB	2
CKWRESV_XCONTROL_SHARED	3DB	1
CKWRESV_XCONTROLVAL	3DB	
CKWRESV_XECB@	444	
CKWRESV_XENQMAX_NO	3DC	4
CKWRESV_XENQTOKEN_ADDR3164	3E8	
CKWRESV_XENQTOKEN_ALET	42C	
CKWRESV_XENQTOKENTBL_ADDR3164	3F8	
CKWRESV_XENQTOKENTBL_ALET	434	
CKWRESV_XFLAGS1	3DC	
CKWRESV_XFLAGS2	3DD	
CKWRESV_XFLAGS3	3DE	
CKWRESV_XFLAGS4	3DF	
CKWRESV_XNUMRES	44C	
CKWRESV_XOWNINGTTOKEN	418	
CKWRESV_XQNAME	410	
CKWRESV_XQNAME_DO_NOT_OVERRIDE	3DC	1
CKWRESV_XREQUEST_CHANGE	0	2
CKWRESV_XREQUEST_OBTAIN	0	1
CKWRESV_XREQUEST_RELEASE	0	3
CKWRESV_XRESERVEVOLUME_YES	3DD	80
CKWRESV_XRESLIST_YES	3DC	8
CKWRESV_XRESTABLE_ADDR3164	3E0	

Table 84. Cross Reference for $CKW (continued)

Name	Offset	Hex Tag
CKWRESV_XRESTABLE_ALET	428	
CKWRESV_XRETURNTABLE_ADDR3164	3F0	
CKWRESV_XRETURNTABLE_ALET	430	
CKWRESV_XRNAME_ADDR3164	400	
CKWRESV_XRNAME_ALET	438	
CKWRESV_XRNAME_DO_NOT_OVERRIDE	3DD	1
CKWRESV_XRNAMELEN	44E	
CKWRESV_XRNAMELEN_DO_NOT_OVERRIDE	3DE	1
CKWRESV_XRNL_DO_NOT_OVERRIDE	3DD	4
CKWRESV_XRNL_NO	3DC	2
CKWRESV_XRSVNNNN	450	
CKWRESV_XRSV0000	3D9	
CKWRESV_XRSV0001	44F	
CKWRESV_XSCOPE	3DA	
CKWRESV_XSCOPE_DO_NOT_OVERRIDE	3DD	8
CKWRESV_XSCOPE_STEP	3DA	1
CKWRESV_XSCOPE_SYSPLEX	3DA	3
CKWRESV_XSCOPE_SYSTEM	3DA	2
CKWRESV_XSCOPE_SYSTEMS	3DA	3
CKWRESV_XSCOPEVAL	3DA	
CKWRESV_XSYNCHRES_DO_NOT_OVERRIDE	3DD	2
CKWRESV_XSYNCHRES_NO	3DD	20
CKWRESV_XSYNCHRES_YES	3DD	40
CKWRESV_XTEST_YES	3DC	40
CKWRESV_XUCB@	448	
CKWRESV_XUCB@_DO_NOT_OVERRIDE	3DF	1
CKWRESV_XVERSION	3D8	
CKWRESV_XWAITTYPE_ECB	3DC	10
CKWRESVL	458	80
CKWRESVS	3D8	
CKWRESV1	32	
CKWRLSET	18	
CKWRMASK	B38	
CKWR2LEV	220	
CKWSCAN	30	
CKWSCDL	30	1
CKWSCF	30	80
CKWSCNL	30	E0
CKWSDSN	30	40
CKWSHRTK	88	
CKWSNCN	30	1
CKWSTAR	3C0	
CKWSTASY	52	
CKWSTHLD	28	
CKWSVOL	30	20
CKWTFLG1	50C	
CKWTOTPN	518	
CKWTSECT	4F8	
CKWTSEQN	50E	

Table 84. Cross Reference for $CKW (continued)

Name	Offset	Hex Tag
CKWTSIZE	B48	654
CKWT1ON	50C	80
CKWT1SM	50C	40
CKWT1TCM	50C	20
CKWVERMR	5C	
CKWVERN	4	4
CKWVERSN	4	
CKWVERSZ	58	
CKWVRLA	4C0	
CKWVSERV	4E0	
CKWVSERV_CHANGEACCESS	4E1	3
CKWVSERV_COPYNOW	4E2	2
CKWVSERV_RETAIN_YES	4E2	1
CKWVSERV_SHARE	4E1	1
CKWVSERV_SHARESEG	4E1	4
CKWVSERV_TARGET_VIEW_LS	4E2	8
CKWVSERV_TARGET_VIEW_NA	4E2	4
CKWVSERV_TARGET_VIEW_RO	4E2	80
CKWVSERV_TARGET_VIEW_SW	4E2	40
CKWVSERV_TARGET_VIEW_TW	4E2	10
CKWVSERV_TARGET_VIEW_UW	4E2	20
CKWVSERV_UNSHARE	4E1	2
CKWVSERV_XFLAGS1	4E2	
CKWVSERV_XFLAGS2	4E3	
CKWVSERV_XNUMRANGE	4E4	
CKWVSERV_XPARTIALPAGE_YES	4E3	80
CKWVSERV_XRANGLIST	4E8	
CKWVSERV_XSERVICE	4E1	
CKWVSERV_XVERSION	4E0	
CKWVSERVL	4E8	C
CKWWMASK	B3C	
CKWWRLEV	228	
CKWWTTM	170	
CKWXCFAS	210	
CKWXLIST	3D8	
CKWXLIST_KEYUSED_ADJAREA	3DA	20
CKWXLIST_KEYUSED_ANSAREA	3DA	10
CKWXLIST_KEYUSED_BUFFER	3DA	80
CKWXLIST_KEYUSED_BUFLIST	3DA	40
CKWXLIST_KEYUSED_BUFSTGKEY	3DA	4
CKWXLIST_KEYUSED_EXTRESTOKEN	3DD	20
CKWXLIST_KEYUSED_LOCKCOMP	3DC	1
CKWXLIST_PL_END	4AC	4C0
CKWXLIST_RCVRYREQASYNC	3DD	1
CKWXLIST_XADJADDR	400	
CKWXLIST_XADJAREA	404	
CKWXLIST_XADJAREA_ALET	400	
CKWXLIST_XANSADDR	408	
CKWXLIST_XANSAREA	40C	

Table 84. Cross Reference for $CKW (continued)

Name	Offset	Hex Tag
CKWXLIST_XANSAREA_ALET	408	
CKWXLIST_XANSLEN	3E2	
CKWXLIST_XAUTHCOMP1	46C	
CKWXLIST_XBUFADDRTYPE_REAL	3DA	2
CKWXLIST_XBUFALET	3F4	
CKWXLIST_XBUFFER	3FC	
CKWXLIST_XBUFFER_ALET	3F4	
CKWXLIST_XBUFINCRNUM	43B	
CKWXLIST_XBUFLIST	3FC	
CKWXLIST_XBUFLIST_ALET	3F8	
CKWXLIST_XBUFNUM	43A	
CKWXLIST_XBUFSIZE	3F8	
CKWXLIST_XBUFSTGKEY	3E1	
CKWXLIST_XB8TO11	444	
CKWXLIST_XCCA	43C	
CKWXLIST_XCCB	43D	
CKWXLIST_XCGLM	447	
CKWXLIST_XCMDCODE	3D9	
CKWXLIST_XCMDFLGS1	440	
CKWXLIST_XCMDFLGS1A	440	
CKWXLIST_XCMDFLGS1B	441	
CKWXLIST_XCMDFLGS1C	442	
CKWXLIST_XCMDFLGS1D	443	
CKWXLIST_XCMDFLGS2A	488	
CKWXLIST_XCMDLEN	438	
CKWXLIST_XCOMPCONID	3E0	
CKWXLIST_XCONID	3F1	
CKWXLIST_XCONTOKEN	3E4	
CKWXLIST_XDATADDR	3F4	
CKWXLIST_XDBS	440	
CKWXLIST_XELEMNUM	440	
CKWXLIST_XENDINDEX	446	
CKWXLIST_XENTRYID	450	
CKWXLIST_XENTRYKEY	46C	
CKWXLIST_XENTRYNAME	46C	
CKWXLIST_XEXTRESTOKEN	420	
CKWXLIST_XEXTRESTOKENPSVN	428	
CKWXLIST_XEXTRESTOKENTKN	420	
CKWXLIST_XFIRSTELEM	47C	
CKWXLIST_XKEYCOMP	46C	
CKWXLIST_XLASTELEM	47E	
CKWXLIST_XLISTDESC	48C	
CKWXLIST_XLISTLIMIT	450	
CKWXLIST_XLISTNUM	44C	
CKWXLIST_XLOCKDATA	420	
CKWXLIST_XLOCKINDEX	448	
CKWXLIST_XLOCKMODE_COND	3DC	2
CKWXLIST_XLOCKOPER_HELDBY	3DC	10
CKWXLIST_XLOCKOPER_NOTHELD	3DC	20

Table 84. Cross Reference for $CKW (continued)

Name	Offset	Hex Tag
CKWXLIST_XLOCKOPER_READNEXT	3DC	4
CKWXLIST_XLOCKOPER_RESET	3DC	40
CKWXLIST_XLOCKOPER_SET	3DC	80
CKWXLIST_XLOCKOPER_TEST	3DC	8
CKWXLIST_XMCB_DATA1	43C	
CKWXLIST_XMCB_DATA2	4AC	
CKWXLIST_XMOB_DATA	438	
CKWXLIST_XMODE_ASYNCECB	3DB	10
CKWXLIST_XMODE_ASYNCEXIT	3DB	8
CKWXLIST_XMODE_ASYNCNORESPONSE	3DB	2
CKWXLIST_XMODE_ASYNCTOKEN	3DB	4
CKWXLIST_XMODE_SYNCECB	3DB	80
CKWXLIST_XMODE_SYNCEXIT	3DB	40
CKWXLIST_XMODE_SYNCTOKEN	3DB	20
CKWXLIST_XMOSVECTOR	404	
CKWXLIST_XMOSVECTOR_ALET	400	
CKWXLIST_XMOVETOKEY0	4AC	
CKWXLIST_XMOVETOLIST0	4BC	
CKWXLIST_XNEWAUTH1	47C	
CKWXLIST_XNEWVERS	45C	
CKWXLIST_XOPTIONALDATA	420	
CKWXLIST_XPAGEABLE_NO	3DA	8
CKWXLIST_XREQDATA	410	
CKWXLIST_XREQECB	410	
CKWXLIST_XREQID	418	
CKWXLIST_XREQTOKEN	414	
CKWXLIST_XREQTOKEN_ALET	410	
CKWXLIST_XRESTOKEN	47C	
CKWXLIST_XRSV0102	3DE	
CKWXLIST_XRSV0103	430	
CKWXLIST_XRSV0201	3E4	
CKWXLIST_XRSV0202	3F2	
CKWXLIST_XRSV0203	414	
CKWXLIST_XRSV0204	428	
CKWXLIST_XRSV0501	43E	
CKWXLIST_XRSV0502	444	
CKWXLIST_XRSV0601	454	
CKWXLIST_XRSV0602	46D	
CKWXLIST_XRSV0603	484	
CKWXLIST_XRSV0604	480	
CKWXLIST_XRSV0605	489	
CKWXLIST_XRSV0606	48D	
CKWXLIST_XSHL_DATA	3D8	
CKWXLIST_XSHLFLGS	3DA	
CKWXLIST_XSHLFLGS1	3DA	
CKWXLIST_XSHLFLGS2	3DB	
CKWXLIST_XSHLFLGS3	3DC	
CKWXLIST_XSHLFLGS4	3DD	
CKWXLIST_XSTARTINDEX	444	

Table 84. Cross Reference for $CKW (continued)

Name	Offset	Hex Tag
CKWXLIST_XTYPE_ADJDATA	3DD	80
CKWXLIST_XTYPE_ECONTROLS	3DD	40
CKWXLIST_XUID1	48C	
CKWXLIST_XUID2	46C	
CKWXLIST_XUID3	443	
CKWXLIST_XVECTORINDEX	448	
CKWXLIST_XVERSCOMP	464	
CKWXLIST_XVERSION	3D8	
CKWXLISTL	4C0	E8
CKWXREQ	1EC	
CKWZMASK	B40	
CKW1ESUP	5	20
CKW1FNLW	5	80
CKW1OFLW	5	40
CKW1SPIO	5	4
CKW1SPSC	5	2
CKW1S266	5	10
CKW2FMLS	6	4
CKW2FWLS	6	8
CKW2INTR	6	1
CKW2IWLS	6	10
CKW2PWLS	6	20
CKW2R1LS	6	80
CKW2R2LS	6	40
CKW3FMCP	7	40
CKW3NOPT	7	4
CKW3PWWP	7	8
CKW3R2WP	7	10
CKW3STA	7	2
CKW4DIAG	8	4
CKW4DIA1	8	20
CKW4IGNO	8	8
CKW4IGN1	8	40
CKW4K64	78	
CKW4K64L	80	
CKW4P1V	8	2
CKW4P2V	8	1
CKW4WTOR	8	10
CKW4WTO1	8	80
CKW5PMST	9	2
CKW5PROT	9	4
CKW5STRL	9	8
CKW51NVL	9	40
CKW51VOL	9	80
CKW52NVL	9	10
CKW52VOL	9	20
CKW6EXT	A	8
CKW6FMT	A	10
CKW6LOCK	A	80

Table 84. Cross Reference for $CKW (continued)

Name	Offset	Hex Tag
CKW6LOKD	A	2
CKW6PRIM	A	4
CKW6READ	A	40
CKW6WRT	A	20
CKW7RDCP	B	40
CKW7WTCP	B	80
M00M1087	0	3D8
M00M1089	0	3D8
M00M1090	0	3D8
M00M1091	0	3D8
M00M1092	0	4E0

Chapter 34. $CKX Information

$CKX Heading Information

Common Name:	JES2 Checkpoint Reconfiguration JESXCF Messages
Macro ID:	$CKX
DSECT Name:	CKX
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'CKX ' Offset: CKXID-CKX Length: L'CKX
Storage Attributes:	Subpool: 0 Key: 1 Residency: Virtual and real storage are anywhere in the private storage of the JES2 address space.
Size:	See CKXMAXLN for the length of the largest message or acknowledgement message. This includes both the header length (CKXHDRLN) and the message data length. The execution time message length is in field CKXMSGLN. Each message type has its own length. The message data lengths (which do not include the header length) are defined with field names of the form CKXMnMSG for messages and CKXAnMSG for acknowledgement messages, where "n" is the message type number (see equates for field CKXMTYPE).
Created by:	The area used to compose messages and their acknowledgements is created by routine CKRRINIT during JES2 initialization. Areas in JESXCF messages are created by the IXZXIXSM macro instruction and areas in acknowledgement messages are created by the IXZXIXAC macro instruction.
Pointed to by:	CKMCKXA field of the $CKM data area MESSAGE_OFFSET field of the IXZYIXEN data area YIXAC_APPL_DATA field of the IXZYIXAC data area
Serialization:	None required
Function:	The $CKX data area is used by JES2 checkpoint reconfiguration routines to map the application portion of JESXCF messages and acknowledgements exchanged between members in a JES2 MAS.

$CKX mapping

Table 85. Structure CKX

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CKX	, Checkpoint reconfiguration JESXCF messages and acks
	JES2 checkpoint reconfiguration message/ack header				

Table 85. Structure CKX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	CHARACTER	4	CKXID	Control block eyecatcher
4	(4)	ADDRESS	1	CKXVERSN	Sender's control block version
4	(4)	X'1'	0	CKXVERN	"1" Current version on this member (see restrictions when you change this)
5	(5)	ADDRESS	1	CKXVERLT	Lowest control block version receiver can be at and tolerate message
5	(5)	X'1'	0	CKXVLCVN	"CKXVERN" Lowest version number this member is compatible with
		Reason codes for $K26 error codes			
5	(5)	X'1'	0	CKXK26R1	"1" Receiver's $CKX version too far down level to be compatible with sender's
5	(5)	X'2'	0	CKXK26R2	"2" Receiver's $CKX version too far up level to be compatible with sender's
		General purpose information fields			
6	(6)	BITSTRING	2		Reserved for future use
8	(8)	SIGNED	4	CKXSMEMN	Sending member number
12	(C)	SIGNED	4	CKXTMEMN	To member number
16	(10)	SIGNED	4	CKXMSGLN	Length of this entire msg
20	(14)	BITSTRING	32		Reserved for future use
		The following section is permanently dedicated for IBM int rnal Function Component Test (FCT) use only. Warning: This section is used only for testing. Setting data in this section causes permanent waits or $K25 ABENDs.			
52	(34)	BITSTRING	1	CKXFCTFG	Flags for IBM FCT use only
		1...		CKXFCTFA	"B'10000000'" - Tell receiver to issue $K25 error code
		.1..		CKXFCTFI	"B'01000000'" - Tell receiver to pretend it never got this msg
		..1.		CKXFCTFC	"B'00100000'" - Tell driving member to issue $K25 after next driver commit
		...1		CKXFCTFD	"B'00010000'" - Tell driving member to issue $K25 after driver decommit
53	(35)	BITSTRING	3		Reserved for future FCT use
56	(38)	SIGNED	4	CKXFCTRC	Reason code for $K25 error
		JES2 checkpoint reconfiguration JESXCF message and acknowledgement types			
60	(3C)	SIGNED	4	CKXMTYPE	Message or ack type
60	(3C)	X'1'	0	CKXM0	"1" Start-up CKPT reconfig
60	(3C)	X'2'	0	CKXM1	"2" Request info for driver (re)selection
60	(3C)	X'3'	0	CKXA1	"3" Acknowledgement for above
60	(3C)	X'4'	0	CKXM2	"4" Notification of driver (re)selection

Table 85. Structure CKX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
60	(3C)	X'5'	0	CKXA2	"5" Acknowledgement for above
60	(3C)	X'6'	0	CKXM3	"6" Sync point action/cond req
60	(3C)	X'7'	0	CKXA3	"7" Acknowledgement for above
60	(3C)	X'8'	0	CKXM4	"8" Sync go-ahead
60	(3C)	X'9'	0	CKXA4	"9" Acknowledgement for above
60	(3C)	X'A'	0	CKXM5	"10" Reconfiguration DONE
60	(3C)	X'B'	0	CKXA5	"11" Acknowledgement for above
		End of header section			
64	(40)	SIGNED	4	(0)	Alignment
64	(40)	X'40'	0	CKXHDRLN	"*-CKX" Length of msg/ack header
		Beginning of message section			
64	(40)	SIGNED	4	CKXMSG(0)	All msgs/acks begin here
64	(40)	CHARACTER	8	CKXMEYE	All msgs/acks begin with a msg specific eyecatcher starting with "Mn" for msgs and "An" for acks
		Message: Start-up checkpoint reconfiguration This message is used to start-up a JES2 checkpoint reconfiguration. The message is sent by every starting member to every reconfiguration capable members. The start-up message is the only message sent to the life-of-member mailbox. All other messages are directed to a mailbox created for the life of a reconfiguration instance. This is a TYPE=COMM message. Use this section when CKXMTYPE is set to CKXM0. Fields in this section are named CKXM0xxx.			
64	(40)	BITSTRING	0	CKXM0MSG(0)	Start-up CKPT reconfig
64	(40)	SIGNED	4	CKXM0BEG(0)	Beginning of message
64	(40)	CHARACTER	8	CKXM0EYE	Message eyecatcher
72	(48)	SIGNED	4	CKXM0END(0)	End of message
72	(48)	X'8'	0	CKXM0HCL	"8" If you change this constant
72	(48)	ADDRESS	2	(0)	or get an assembly
72	(48)	ADDRESS	2	(0)	error, you MUST update CKXVERN
		Message: Request info for driver (re)selection This message is sent by the driver candidate to every active, participating member. The members return the requested information in an acknowledgement message. This is a TYPE=ASYNCACK message. Use this section when CKXMTYPE is set to CKXM1. Fields in this section are named CKXM1xxx.			
64	(40)	BITSTRING	0	CKXM1MSG(0)	Request info for driver (re)selection
64	(40)	SIGNED	4	CKXM1BEG(0)	Beginning of message
64	(40)	CHARACTER	8	CKXM1EYE	Message eyecatcher
72	(48)	SIGNED	4	CKXM1END(0)	End of message
72	(48)	X'8'	0	CKXM1HCL	"8" If you change this constant
72	(48)	ADDRESS	2	(0)	or get an assembly
72	(48)	ADDRESS	2	(0)	error, you MUST update CKXVERN

Table 85. Structure CKX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Ack message: Info for driver (re)selection The acknowledgements are used by the driver candidate to determine the cause for the reconfiguration, the OPVERIFY value to use, what console ID to use (if any), and the CKPT data set names to use use. When selecting a replacement driving member, the acknowledgements are also used to determine each member's operation sequence number. Use this section when CKXMTYPE is set to CKXA1. Fields in this section are named CKXA1xxx.			
64	(40)	BITSTRING	0	CKXA1MSG(0)	Info for driver select
64	(40)	SIGNED	4	CKXA1BEG(0)	Beginning of ack message
64	(40)	CHARACTER	8	CKXA1EYE	Message eyecatcher
72	(48)	BITSTRING	1	CKXA1FLG	Flag byte
		1...		CKXA1FOV	"B'10000000'" - OPVERIFY=YES on this memb
		.1..		CKXA1FI1	"B'01000000'" - I/O error on CKPT1
		..1.		CKXA1FI2	"B'00100000'" - I/O error on CKPT2
		...1		CKXA1FCV	"B'00010000'" - CKPT on volatile CF
		.... 1...		CKXA1FOR	"B'00001000'" - Operator dialog request
		.... .1..		CKXA1HUP	"B'00000100'" - HFAM update is pending
		.... ..1.		CKXA1FST	"B'00000010'" - Set CKPTDEF command (also sets CKXA1FOR)
73	(49)	BITSTRING	3		Reserved for future use
76	(4C)	SIGNED	4	CKXA1SEQ	Operation sequence number
80	(50)	BITSTRING	4	CKXA1CON	Console ID or zero
84	(54)	BITSTRING	308	CKXA1HFM	Copy of HFAM for NEWCKPTn specifications on member
392	(188)	SIGNED	4	CKXA1END(0)	End of ack message
392	(188)	X'148'	0	CKXA1HCL	"328" If you change this constant
392	(188)	ADDRESS	2	(0)	or get an assembly
392	(188)	ADDRESS	2	(0)	error, you MUST update CKXVERN

Table 85. Structure CKX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Message: Notification of driver (re)selection This message notifies all participating members of the selection of the driving member, or the replacement of a failed driving member. This message contains the accumulated results from the request driver selection information message from the MAS perspective. The MAS wide results includes the cause for the reconfiguration, the OPVERIFY value to use, what console ID to use (if any), and the CKPT data set names to use use. When selecting a replacement driving member, the message also indicates the highest valid operation sequence number for catch-up processing. This is a TYPE=ASYNCACK message. Use this section when CKXMTYPE is set to CKXM2. Fields in this section are named CKXM2xxx.			
64	(40)	BITSTRING	0	CKXM2MSG(0)	Notification of driver (re)selection
64	(40)	SIGNED	4	CKXM2BEG(0)	Beginning of message
64	(40)	CHARACTER	8	CKXM2EYE	Message eyecatcher
72	(48)	BITSTRING	1	CKXM2FLG	Flag byte
		1...		CKXM2FOV	"B'10000000'" - Use OPVERIFY=YES
		.1..		CKXM2FI1	"B'01000000'" - I/O error on CKPT1
		..1.		CKXM2FI2	"B'00100000'" - I/O error on CKPT2
		...1		CKXM2FCV	"B'00010000'" - CKPT on volatile CF
		.... 1...		CKXM2FOR	"B'00001000'" - Operator dialog
		.... .1..		CKXM2FCN	"B'00000100'" - Cancelled by JES2
		.... ..1.		CKXM2FST	"B'00000010'" - Set CKPTDEF command (also sets CKXM2FOR)
73	(49)	BITSTRING	3		Reserved for future use
76	(4C)	SIGNED	4	CKXM2SEQ	Highest operation sequence
80	(50)	BITSTRING	4	CKXM2CON	Console ID or zero
84	(54)	SIGNED	4	CKXM2NI1	Number of CKPT1 I/O errors
88	(58)	SIGNED	4	CKXM2NI2	Number of CKPT2 I/O errors
92	(5C)	CHARACTER	4	CKXM2NAM	Name of new driving member
96	(60)	CHARACTER	128	CKXM2PMV	Vector of member names participating in orig driver selection
224	(E0)	BITSTRING	308	CKXM2HFM	HFAM to initially use for this reconfig instance
532	(214)	SIGNED	4	CKXM2END(0)	End of message
532	(214)	X'1D4'	0	CKXM2HCL	"468" If you change this constant
532	(214)	ADDRESS	2	(0)	or get an assembly
532	(214)	ADDRESS	2	(0)	error, you MUST update CKXVERN

Table 85. Structure CKX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Ack message: Ack driver (re)selection notification The acknowledging non-driving member does NOT consider the selection of the driver to be "complete" until the driving member updates its XCF user state data. Use this section when CKXMTYPE is set to CKXA2. Fields in this section are named CKXA2xxx.			
64	(40)	BITSTRING	0	CKXA2MSG(0)	Ack notification of who's driving member
64	(40)	SIGNED	4	CKXA2BEG(0)	Beginning of ack message
64	(40)	CHARACTER	8	CKXA2EYE	Message eyecatcher
72	(48)	SIGNED	4	CKXA2END(0)	End of ack message
72	(48)	X'8'	0	CKXA2HCL	"8" If you change this constant
72	(48)	ADDRESS	2	(0)	or get an assembly
72	(48)	ADDRESS	2	(0)	error, you MUST update CKXVERN
		Message: Sync point action/condition request This message is issued by the driving member in order to give instructions (actions) to non-driving members, or to request the results of previous action requests. Non-driving members do not carry out an action until instructed to do so by a "sync go-ahead" message or unless it's necessary to go-ahead in order to keep in sync with other members (catch-up processing). This is a TYPE=ASYNCACK message. Use this section when CKXMTYPE is set to CKXM3. Fields in this section are named CKXM3xxx.			
64	(40)	BITSTRING	0	CKXM3MSG(0)	Sync point action/cond
64	(40)	SIGNED	4	CKXM3BEG(0)	Beginning of message
64	(40)	CHARACTER	8	CKXM3EYE	Message eyecatcher
72	(48)	BITSTRING	1	CKXM3FLG	Flag byte
		1...		CKXM3DMF	"B'10000000'" - Driving member failed
73	(49)	BITSTRING	3		Reserved for future use
76	(4C)	SIGNED	4	CKXM3SEQ	Operation sequence number
80	(50)	CHARACTER	8	CKXM3TYP	Sync point type
88	(58)	SIGNED	4	CKXM3ACT	Requested action
92	(5C)	CHARACTER	308	CKXM3HFM	Driver's current HFAM
400	(190)	SIGNED	4	CKXM3END(0)	End of message
400	(190)	X'150'	0	CKXM3HCL	"336" If you change this constant
400	(190)	ADDRESS	2	(0)	or get an assembly
400	(190)	ADDRESS	2	(0)	error, you MUST update CKXVERN
		Ack message: Ack sync point action/condition req This message is used to acknowledge an action request and to inform the driving member of the non-driving member's condition. Use this section when CKXMTYPE is set to CKXA3. Fields in this section are named CKXA3xxx.			
64	(40)	BITSTRING	0	CKXA3MSG(0)	Ack sync and return condition data
64	(40)	SIGNED	4	CKXA3BEG(0)	Beginning of ack message
64	(40)	CHARACTER	8	CKXA3EYE	Message eyecatcher

Table 85. Structure CKX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
72	(48)	CHARACTER	8	CKXA3TYP	Sync point type
80	(50)	CHARACTER	4	CKXA3CON	Non-driver's condition
84	(54)	CHARACTER	4	CKXA3RSN	Non-driver's reason code
88	(58)	SIGNED	4	CKXA3END(0)	End of ack message
88	(58)	X'18'	0	CKXA3HCL	"24" If you change this constant
88	(58)	ADDRESS	2	(0)	or get an assembly
88	(58)	ADDRESS	2	(0)	error, you MUST update CKXVERN
		Message: Sync go-ahead This message is sent by the driving member to give non-driving members the go-ahead to proceed with the sync point action request. If the driver fails is such a way that some, but not all, members receive this message, then those members that did not receive this message will do catch-up processing when a new driver is selected. This is a TYPE=ASYNCACK message. Use this section when CKXMTYPE is set to CKXM4. Fields in this section are named CKXM4xxx.			
64	(40)	BITSTRING	0	CKXM4MSG(0)	Sync go-ahead
64	(40)	SIGNED	4	CKXM4BEG(0)	Beginning of message
64	(40)	CHARACTER	8	CKXM4EYE	Message eyecatcher
72	(48)	CHARACTER	8	CKXM4TYP	Sync point type
80	(50)	SIGNED	4	CKXM4END(0)	End of message
80	(50)	X'10'	0	CKXM4HCL	"16" If you change this constant
80	(50)	ADDRESS	2	(0)	or get an assembly
80	(50)	ADDRESS	2	(0)	error, you MUST update CKXVERN
		Ack message: Ack sync go-ahead Use this section when CKXMTYPE is set to CKXA4. Fields in this section are named CKXA4xxx.			
64	(40)	BITSTRING	0	CKXA4MSG(0)	Ack sync go-ahead
64	(40)	SIGNED	4	CKXA4BEG(0)	Beginning of ack message
64	(40)	CHARACTER	8	CKXA4EYE	Message eyecatcher
72	(48)	CHARACTER	8	CKXA4TYP	Sync point type
80	(50)	SIGNED	4	CKXA4END(0)	End of ack message
80	(50)	X'10'	0	CKXA4HCL	"16" If you change this constant
80	(50)	ADDRESS	2	(0)	or get an assembly
80	(50)	ADDRESS	2	(0)	error, you MUST update CKXVERN
		Message: Reconfiguration DONE This message is issued by the driving member to inform other members of the pending completion of this reconfiguration. Non-driving members do not exit this CKPT reconfiguration until they detect an XCF user state update indicating the reconfiguration has decommitted. This is a TYPE=ASYNCACK message. Use this section when CKXMTYPE is set to CKXM5. Fields in this section are named CKXM5xxx.			
64	(40)	BITSTRING	0	CKXM5MSG(0)	Reconfiguration DONE
64	(40)	SIGNED	4	CKXM5BEG(0)	Beginning of message
64	(40)	CHARACTER	8	CKXM5EYE	Message eyecatcher
72	(48)	SIGNED	4	CKXM5SEQ	Operation sequence number

Table 85. Structure CKX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
76	(4C)	SIGNED	4	CKXM5END(0)	End of message
76	(4C)	X'C'	0	CKXM5HCL	"12" If you change this constant
76	(4C)	ADDRESS	2	(0)	or get an assembly
76	(4C)	ADDRESS	2	(0)	error, you MUST update CKXVERN
		Ack message: Ack reconfiguration DONE Use this section when CKXMTYPE is set to CKXA5. Fields in this section are named CKXA5xxx.			
64	(40)	BITSTRING	0	CKXA5MSG(0)	Ack reconfig DONE
64	(40)	SIGNED	4	CKXA5BEG(0)	Beginning of ack message
64	(40)	CHARACTER	8	CKXA5EYE	Message eyecatcher
72	(48)	SIGNED	4	CKXA5END(0)	End of ack message
72	(48)	X'8'	0	CKXA5HCL	"8" If you change this constant
72	(48)	ADDRESS	2	(0)	or get an assembly
72	(48)	ADDRESS	2	(0)	error, you MUST update CKXVERN
		End of $CKX data area			
532	(214)	SIGNED	4	(0)	Alignment
532	(214)	X'214'	0	CKXMAXLN	"*-CKX" Max $CKX data area length PRINT ON

Table 86. Cross Reference for $CKX

Name	Offset	Hex Tag
CKX	0	
CKXA1	3C	3
CKXA1BEG	40	
CKXA1CON	50	
CKXA1END	188	
CKXA1EYE	40	
CKXA1FCV	48	10
CKXA1FI1	48	40
CKXA1FI2	48	20
CKXA1FLG	48	
CKXA1FOR	48	8
CKXA1FOV	48	80
CKXA1FST	48	2
CKXA1HCL	188	148
CKXA1HFM	54	
CKXA1HUP	48	4
CKXA1MSG	40	
CKXA1SEQ	4C	
CKXA2	3C	5
CKXA2BEG	40	
CKXA2END	48	
CKXA2EYE	40	
CKXA2HCL	48	8
CKXA2MSG	40	
CKXA3	3C	7
CKXA3BEG	40	
CKXA3CON	50	

Table 86. Cross Reference for $CKX (continued)

Name	Offset	Hex Tag
CKXA3END	58	
CKXA3EYE	40	
CKXA3HCL	58	18
CKXA3MSG	40	
CKXA3RSN	54	
CKXA3TYP	48	
CKXA4	3C	9
CKXA4BEG	40	
CKXA4END	50	
CKXA4EYE	40	
CKXA4HCL	50	10
CKXA4MSG	40	
CKXA4TYP	48	
CKXA5	3C	B
CKXA5BEG	40	
CKXA5END	48	
CKXA5EYE	40	
CKXA5HCL	48	8
CKXA5MSG	40	
CKXFCTFA	34	80
CKXFCTFC	34	20
CKXFCTFD	34	10
CKXFCTFG	34	
CKXFCTFI	34	40
CKXFCTRC	38	
CKXHDRLN	40	40
CKXID	0	
CKXK26R1	5	1
CKXK26R2	5	2
CKXMAXLN	214	214
CKXMEYE	40	
CKXMSG	40	
CKXMSGLN	10	
CKXMTYPE	3C	
CKXM0	3C	1
CKXM0BEG	40	
CKXM0END	48	
CKXM0EYE	40	
CKXM0HCL	48	8
CKXM0MSG	40	
CKXM1	3C	2
CKXM1BEG	40	
CKXM1END	48	
CKXM1EYE	40	
CKXM1HCL	48	8
CKXM1MSG	40	
CKXM2	3C	4
CKXM2BEG	40	
CKXM2CON	50	

Table 86. Cross Reference for $CKX (continued)

Name	Offset	Hex Tag
CKXM2END	214	
CKXM2EYE	40	
CKXM2FCN	48	4
CKXM2FCV	48	10
CKXM2FI1	48	40
CKXM2FI2	48	20
CKXM2FLG	48	
CKXM2FOR	48	8
CKXM2FOV	48	80
CKXM2FST	48	2
CKXM2HCL	214	1D4
CKXM2HFM	E0	
CKXM2MSG	40	
CKXM2NAM	5C	
CKXM2NI1	54	
CKXM2NI2	58	
CKXM2PMV	60	
CKXM2SEQ	4C	
CKXM3	3C	6
CKXM3ACT	58	
CKXM3BEG	40	
CKXM3DMF	48	80
CKXM3END	190	
CKXM3EYE	40	
CKXM3FLG	48	
CKXM3HCL	190	150
CKXM3HFM	5C	
CKXM3MSG	40	
CKXM3SEQ	4C	
CKXM3TYP	50	
CKXM4	3C	8
CKXM4BEG	40	
CKXM4END	50	
CKXM4EYE	40	
CKXM4HCL	50	10
CKXM4MSG	40	
CKXM4TYP	48	
CKXM5	3C	A
CKXM5BEG	40	
CKXM5END	4C	
CKXM5EYE	40	
CKXM5HCL	4C	C
CKXM5MSG	40	
CKXM5SEQ	48	
CKXSMEMN	8	
CKXTMEMN	C	
CKXVERLT	5	
CKXVERN	4	1
CKXVERSN	4	

Table 86. Cross Reference for $CKX (continued)

Name	Offset	Hex Tag
CKXVLCVN	5	1

Chapter 35. $CLASGRP Information

$CLASGRP Heading Information

Common Name: Group Class Object
Macro ID: $CLASGRP
DSECT Name: GRPOBJ
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: CGRP
Offset: GRPKEY-GRPOBJ
Length: L'GRPKEY
Storage Attributes: Subpool: 0
Key: 1
Residency: Virtual and real storage are in 31 bit storage in the private storage of the JES2 address space.

Size: See GRPSIZ
Created by: $DOGGRP - create jobclass group object
Pointed to by: Pointer returned by $DOGGRP service
Serialization: Update access is serialized by the BERT lock
Function: This macro along with $DOGGRP supports group (job class) services. The general services supported are:
- Create - Create job class group.
- Fetch - Returns a copy of the group object in a work area.
- Fetchnext - Return the current group object and locates the next group object.
- Return - Returns the group object to the checkpoint.
- Free - Removes the group object from the checkpoint

The group object layout is as follows:

```
--------------------
| Prebert           |
--------------------
| Memory only ...   |
| -- reserved for   |
| $DOGCAT cache code|
|                   |
| Length = CATMEMLN | --> See $CAT
--------------------
| Eye catcher - CGRP|
--------------------
| 8 char group name | --> Keyed BERT
--------------------
| 8 char class name | --> Next class to be used
--------------------
```

A group contains one 8 character job class. A group is a circular list of CATs linked by $CAT field CATGPNXT - 8 character name of next class in list.

$CLASGRP mapping

Table 87. Structure GRPOBJ

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	GRPOBJ	
0	(0)	BITSTRING	36	GRPMEMO	Memory only section used by $DOGCAT - CAT cache service
36	(24)	CHARACTER	4	GRPID	Eye catcher
40	(28)	CHARACTER	8	GRPNAME	Group name - keyed BERT access
48	(30)	CHARACTER	8	GRPNXCL	Next class to be selected
48	(30)	X'38'	0	GRPSIZ	"*-GRPOBJ" Size of group object

Chapter 36. $CMB Information

$CMB Programming Interface Information

$CMB is a programming interface.

$CMB Heading Information

Common Name:	Console Message Buffer
Macro ID:	$CMB
DSECT Name:	CMB
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	"CMB " Offset: CMBID-CMB Length: L'CMBID
Storage Attributes:	Subpool: 0, 20, or 231 Key: 1 Residency: Virtual and real storage are above 16M, in either the private storage of the JES2 address space or in CSA from another address space.
Size:	See CMBLGLEN, CMBL CMBLGLEN is used as the length for private area CMBs so that nodal message records (NMRs) destined for another node can be store-and-forward'ed unchanged by the Remote Console Processor in HASPRTAM. Note that messages originated by JES2 only use CMBL of these CMBs. CMBs that are GETMAIN'ed from common storage are always obtained with length CMBL.
Created by:	$GETCMB routine in HASPCON SSICMD routine in HASCSIRQ SSINOUS routine in HASCSIRQ
Pointed to by:	CMBCMB field of the $CMB data area CSACMB field of the $DTEWTO data area CSACONWQ field of the $DTEWTO data area $BUSYQUE field of the $HCT data area $BUSYRQ field of the $HCT data area $COMMQTP field of the $HCT data area $COMMQUE field of the $HCT data area CCTCMBFQ field of the $HCCT data area CCTCOMMQ field of the $HCCT data area CCTELCMB field of the $HCCT data area CCTRCPCQ field of the $HCCT data area RCPMSHDR field of the $RCPWORK data area
Serialization:	Compare-and-swap logic must be used for queueing or de-queueing the CMB on most queues.
Function:	Used to contain messages issued by JES2 or commands destined for JES2.

$CMB mapping

Table 88. Structure CMB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CMB	
		KEEP FIELDS CMBCMB THROUGH CMBUSER TOGETHER FOR $WTO LONG PARAMETER LIST.			
0	(0)	CHARACTER	4	CMBID	CMB IDENTIFIER
4	(4)	ADDRESS	1	CMBVRS	CMB VERSION
4	(4)	X'1'	0	CMBVRSN	"1" SET CMB VERSION
4	(4)	X'5'	0	CMBCLR	"*" START OF AREA CLEARED BY THE $GETCMB SERVICE (EXCEPT FOR CMBCMB)
5	(5)	BITSTRING	1	CMBFLAG2	GENERAL FLAG BYTE
		1...		CMB2GETM	"B'10000000'" GETMAINED CMB (FOR CMDS)
		.1..		CMB2GMTK	"B'01000000'" $GETMAINed TOKEN
		..1.		CMB2AUTO	"B'00100000'" CMB from auto command
		...1		CMB2INIT	"B'00010000'" CMB from initialization
		.... 1...		CMB2IFF	"B'00001000'" IFF indicator from SSINOUS
		.... .1..		CMB2LGON	"B'00000100'" User is logged on-indicator
		.... ..1.		CMB2NOTF	"B'00000010'" THIS IS A NOTIFY CMB
		1		CMB2DMC	"B'00000001'" CMB obtained for DEMANDCMB
6	(6)	BITSTRING	1	CMBFLAG4	General flag byte 4
		1		CMB4LOGO	"B'00000001'" Issue msg to HRDCPY only
		1...		CMB4EMER	"B'10000000'" This is an EMERGENCY CMB
7	(7)	BITSTRING	1		RESERVED FOR FUTURE USE
8	(8)	ADDRESS	4	CMBTOKA	SECURITY TOKEN ADDRESS - IF 0, CMD DEFAULT CHECKING WILL BE USED, AS IN THE CASE OF REMOTE WHICH VERIFYX ON SIGNON RECEIVED A RC 4
12	(C)	ADDRESS	4	CMBCMB	NEXT CMB BUFFER
16	(10)	CHARACTER	4	CMBACEID(0)	ACE ID for monitor commands
16	(10)	ADDRESS	4	CMBPCE	PCE ISSUING MLWTO
20	(14)	CHARACTER	8	CMBKEY	Retrieval key (PCE name)
28	(1C)	CHARACTER	8	CMBJOBNM	Associated job name
36	(24)	SIGNED	4	CMBWTOPL(0)	START OF WTO PARM MAP
36	(24)	BITSTRING	1	CMBFLAG	FLAG BYTE
37	(25)	BITSTRING	1	CMBLEVEL(0)	IMPORTANCE LEVEL (HIGH 4 BITS)
37	(25)	BITSTRING	1	CMBPRIO	OUTPUT PRIORITY (LOW 4 BITS)
38	(26)	BITSTRING	1	CMBTYPE	TYPE BYTE
39	(27)	BITSTRING	1	CMBML	LENGTH OF MESSAGE
40	(28)	SIGNED	4	(0)	FORCE FULLWORD ALIGNMENT
40	(28)	ADDRESS	3	CMBTO(0)	TO SYSTEM ROUTE CODE (BINARY)
40	(28)	SIGNED	2	CMBTONOD	TO NODE NUMBER

Table 88. Structure CMB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
42	(2A)	BITSTRING	1	CMBTOQUL	TO NODE QUALIFIER
43	(2B)	BITSTRING	1	CMBFLAG3	GENERAL FLAG BYTE
		1...		CMB3TOK	"B'10000000'" COMMAND HAS A TOKEN ASSOCIATED WITH IT
		.1..		CMB3INTC	"B'01000000'" Internal command (used within a MAS when transporting commands between members to give a single system image)
44	(2C)	CHARACTER	8	CMBCART	COMMAND AND RESPONSE TOKEN
52	(34)	BITSTRING	1	CMBUCM	FOR DOWN LEVEL COMPATIBILITY
53	(35)	BITSTRING	1	CMBUCMA	MCS CONSOLE AREA
54	(36)	BITSTRING	2	CMBLINET	LINE TYPE FOR MLWTO
56	(38)	BITSTRING	4	CMBUCMID	4-BYTE MCS CONSOLE ID
60	(3C)	BITSTRING	2	CMBDESC	MCS DESCRIPTOR CODES
62	(3E)	BITSTRING	2	CMBROUT	MCS CONSOLE ROUTINGS
64	(40)	BITSTRING	4	CMBDOMID	MCS DOM ID
68	(44)	SIGNED	2	CMBRMT	REMOTE NUMBER
70	(46)	CHARACTER	8	CMBUSER	TSO USER ID
70	(46)	X'2A'	0	CMBWTOLG	"*-CMBWTOPL" LENGTH OF LONG WTO PARMLIST
80	(50)	SIGNED	4	(0)	FORCE FULLWORD ALIGNMENT
80	(50)	ADDRESS	3	CMBFM(0)	FROM SYSTEM ROUTE CODE (BINARY)
80	(50)	SIGNED	2	CMBFMNOD	FROM NODE NUMBER
82	(52)	BITSTRING	1	CMBFMQUL	FROM NODE QUALIFIER
83	(53)	BITSTRING	1		RESERVED FOR FUTURE USE
83	(53)	X'30'	0	CMBPARML	"*-CMBWTOPL" LENGTH OF CMB PARAMETER LST
84	(54)	CHARACTER	148	CMBLGMSG(0)	Maximum nodal message for store-and-forward
84	(54)	CHARACTER	132	CMBMSG(0)	CONSOLE MESSAGE
84	(54)	CHARACTER	8	CMBTIME	TIME STAMP FOR REMOTE SYSTEMS
92	(5C)	CHARACTER	1		SPACER
93	(5D)	CHARACTER	8	CMBJOBID	JOB ID
101	(65)	CHARACTER	1		SPACER
102	(66)	CHARACTER	9	CMBMID	MESSAGE ID FIELD
111	(6F)	CHARACTER	8	CMBJOBN	JOB NAME
119	(77)	CHARACTER	1		SPACER
120	(78)	CHARACTER	96	CMBTEXT	MESSAGE TEXT
216	(D8)	SIGNED	4	CMBEND(0)	END OF CMB
216	(D8)	X'D8'	0	CMBL	"CMBEND-CMB" LENGTH OF CMB
216	(D8)	X'E8'	0	CMBLGEND	"CMBEND+(L'CMBLGMSG-L'CMBMSG)" End of store-and-forwrd CMB
216	(D8)	X'E8'	0	CMBLGLEN	"CMBLGEND-CMB" Max length for store-and- forward CMB
		FORMATTED COMMAND DEFINITIONS			
84	(54)	BITSTRING	40	CMBFNORM(0)	Formatted area for normal command
84	(54)	BITSTRING	40	CMBFRTE(0)	Formatted area for route command
84	(54)	BITSTRING	1	CMBFOP	OPCODE
85	(55)	BITSTRING	1	CMBFFLG	FLAGS OR OPCODE MODIFIER
86	(56)	BITSTRING	2	CMBFJID	INITIAL JOB NUMBER
88	(58)	CHARACTER	8	CMBFORGN	ORIGIN NODE NAME

Table 88. Structure CMB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
96	(60)	CHARACTER	8	CMBFJNAM	JOB NAME
104	(68)	CHARACTER	8	CMBFD	DESTINATION FOR ROUTE COMMAND
112	(70)	CHARACTER	8	CMBFR	REMOTE IF NOT IMPLIED BY CMBFD
120	(78)	BITSTRING	4	CMBFJNUM	Fullword job number
		CMBFLAG DEFINITIONS			
		1...		CMBFLAGC	"B'10000000'" CMB CONTAINS A COMMAND
		.1..		CMBFLAGW	"B'01000000'" CMB HAS RMT WORKSTATION NUM
		..1.		CMBFLAGT	"B'00100000'" CMB HAS TSO USER ID
		...1		CMBFLAGU	"B'00010000'" CMB HAS UCMID INFORMATION
		.... 1...		CMBFLAGR	"B'00001000'" CONSOLE IS ONLY REMOTE AUTHORIZED
		.... .1..		CMBFLAGJ	"B'00000100'" CONSOLE NOT JOB AUTHORIZED
		.... ..1.		CMBFLAGD	"B'00000010'" CONSOLE NOT DEVICE AUTHORIZED
		1		CMBFLAGS	"B'00000001'" CONSOLE NOT SYSTEM AUTHORIZED
120	(78)	X'60'	0	CMBFLAGQ	"CMBFLAGW+CMBFLAGT" CMB HAS EITHER REMOTE OR TSO USERID
		CMBPRIO DEFINITIONS			
		 1111		CMBPRIM	"B'00001111'" CMBPRIO PURIFYING MASK
		CMBTYPE DEFINITIONS WARNING: For CMBs which are to cross nodes, CMBTYPE becomes NMRTYPE and the following bits can take on meaning specified by NMRTYPE.			
		1111		CMBTYPEX	"B'11110000'" RESERVED BITS
		1		CMBTYPED	"B'00000001'" Formatted DOM CMB
		.... ..1.		CMBTYPEF	"B'00000010'" Formatted command in CMBMSG
		.... .1..		CMBTYPET	"B'00000100'" MSG TEXT ONLY IN NMRMSG
		.... 1...		CMBTYPE4	"B'00001000'" RESERVED BIT
		CMBFOP DEFINITIONS			
120	(78)	X'1'	0	CMBFOPD	"1" DISPLAY JOB COMMAND
120	(78)	X'2'	0	CMBFOPC	"2" CANCEL JOB COMMAND
120	(78)	X'3'	0	CMBFOPA	"3" RELEASE JOB COMMAND
120	(78)	X'4'	0	CMBFOPH	"4" HOLD JOB COMMAND
120	(78)	X'5'	0	CMBFOPR	"5" ROUTE JOB COMMAND
		CMBFFLG DEFINITIONS			
		11		CMBFFLGJ	"X'03'" BATCH JOB TYPE WHEN ZEROES
		1		CMBFFLGS	"X'01'" STC JOB TYPE
		.... ..1.		CMBFFLGT	"X'02'" TSU JOB TYPE
		1...		CMBFFLGO	"X'80'" CANCEL OR ROUTE OUTPUT

Table 88. Structure CMB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		CMBFFLGD	"X'40'" CANCEL EXECUTION WITH DUMP

Table 89. Cross Reference for $CMB

Name	Offset	Hex Tag
CMB	0	
CMBACEID	10	
CMBCART	2C	40404040
CMBCLR	4	5
CMBCMB	C	
CMBDESC	3C	0
CMBDOMID	40	0
CMBEND	D8	
CMBFD	68	40404040
CMBFFLG	55	0
CMBFFLGD	78	40
CMBFFLGJ	78	3
CMBFFLGO	78	80
CMBFFLGS	78	1
CMBFFLGT	78	2
CMBFJID	56	0
CMBFJNAM	60	40404040
CMBFJNUM	78	0
CMBFLAG	24	0
CMBFLAGC	78	80
CMBFLAGD	78	2
CMBFLAGJ	78	4
CMBFLAGQ	78	60
CMBFLAGR	78	8
CMBFLAGS	78	1
CMBFLAGT	78	20
CMBFLAGU	78	10
CMBFLAGW	78	40
CMBFLAG2	5	0
CMBFLAG3	2B	0
CMBFLAG4	6	0
CMBFM	50	
CMBFMNOD	50	0
CMBFMQUL	52	0
CMBFNORM	54	
CMBFOP	54	0
CMBFOPA	78	3
CMBFOPC	78	2
CMBFOPD	78	1
CMBFOPH	78	4
CMBFOPR	78	5
CMBFORGN	58	40404040

Table 89. Cross Reference for $CMB (continued)

Name	Offset	Hex Tag
CMBFR	70	40404040
CMBFRTE	54	
CMBID	0	C3D4C240
CMBJOBID	5D	40404040
CMBJOBN	6F	40404040
CMBJOBNM	1C	40404040
CMBKEY	14	40404040
CMBL	D8	D8
CMBLEVEL	25	
CMBLGEND	D8	E8
CMBLGLEN	D8	E8
CMBLGMSG	54	
CMBLINET	36	0
CMBMID	66	
CMBML	27	0
CMBMSG	54	
CMBPARML	53	30
CMBPCE	10	
CMBPRIM	78	F
CMBPRIO	25	0
CMBRMT	44	0
CMBROUT	3E	0
CMBTEXT	78	40404040
CMBTIME	54	40404040
CMBTO	28	
CMBTOKA	8	
CMBTONOD	28	0
CMBTOQUL	2A	0
CMBTYPE	26	0
CMBTYPED	78	1
CMBTYPEF	78	2
CMBTYPET	78	4
CMBTYPEX	78	F0
CMBTYPE4	78	8
CMBUCM	34	0
CMBUCMA	35	0
CMBUCMID	38	0
CMBUSER	46	40404040
CMBVRS	4	
CMBVRSN	4	1
CMBWTOLG	46	2A
CMBWTOPL	24	
CMB2AUTO	5	20
CMB2DMC	5	1
CMB2GETM	5	80
CMB2GMTK	5	40
CMB2IFF	5	8
CMB2INIT	5	10
CMB2LGON	5	4

Table 89. Cross Reference for $CMB (continued)

Name	Offset	Hex Tag
CMB2NOTF	5	2
CMB3INTC	2B	40
CMB3TOK	2B	80
CMB4EMER	6	80
CMB4LOGO	6	1

Chapter 37. $CNVWORK Information

$CNVWORK Programming Interface Information

$CNVWORK is a programming interface.

$CNVWORK Heading Information

Common Name:	JES2 JCL Conversion PCE Work Area
Macro ID:	$CNVWORK
DSECT Name:	PCE ($CNVWORK is part of the PCE DSECT)
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4
Storage Attributes:	Subpool: See $PCE Key: See $PCE Residency: See $PCE
Size:	See symbol JPCELEN for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by:	See $PCE
Pointed to by:	The $JCLPCE field of the $HCT data area points into the $PCEORG/$PCELAST chain to the first JCL conversion PCE. Since this chain contains all PCEs, use the PCEID field to determine when you have chained past the last PCE of this type. DTEPCE field of the $DTECNV data area See $PCE for other pointer fields that apply to all PCE types.
Serialization:	Normal PCE dispatch serialization
Function:	The fields in this work area are used by a JES2 JCL Conversion Processor and by its support routines and exits. $CNVWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $CNVWORK are actually part of the PCE DSECT, but only map PCEs with the value PCECNVID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

$CNVWORK mapping

Table 90. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
320	(140)	BITSTRING	24	JPCECECB	Work competion XECB
344	(158)	BITSTRING	1	JPCESTAT	PROCESSOR STATUS BYTE
		1...		JPCEDUPL	"B'10000000'" Duplicate logon tried

Table 90. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		JPCENCWT	"B'00010000'" This PCE cannot wait for OS CNVT
345	(159)	CHARACTER	8	JPCECLAS	Original job class - 8 char
353	(161)	CHARACTER	1	JPCEPRIO	ORIGINAL JOB PRIORITY
354	(162)	BITSTRING	2		Reserved for future use
356	(164)	ADDRESS	4	JPCEDTE	SUBTASK DTE ADDRESS
360	(168)	ADDRESS	4	JPCEJCTA	JCT BUFFER ADDR FOR PCE
364	(16C)	BITSTRING	12	JPCETQE	HASP TIMER QUEUE ELEMENT
376	(178)	BITSTRING	6	JPCEJCTK	MQTR OF JCT, CHANGED BY PROCESSOR WHEN NEW MQTR SET OF JCT
382	(17E)	BITSTRING	2		RESERVED FOR FUTURE IBM USE
384	(180)	ADDRESS	4	JPCEXPLA	Address of XPL for Exit 44
388	(184)	ADDRESS	4	JPCEPARM	NODE TABLE ADDRESS
392	(188)	ADDRESS	4		CONTROL BLOCK ADDRESS
396	(18C)	ADDRESS	4		ADDRESS OF JQE
400	(190)	ADDRESS	1		QUEUE TYPE SPECIFIED
401	(191)	ADDRESS	1		WORK SELECTION TYPE FLAG
402	(192)	ADDRESS	1		RESERVED FOR FUTURE USE
402	(192)	X'184'	0	JPCELST	"JPCEPARM,*-JPCEPARM" QGET PARAMETER LIST STORAGE
403	(193)	BITSTRING	1	JPCEXRSP	EXIT 44 response byte Work area copy of $XPL response byte X044RESP
404	(194)	CHARACTER	16	JPCESCHE	Default SCHENV
420	(1A4)	BITSTRING	6	JPCEJLOG	JES log control
426	(1AA)	CHARACTER	16	JPCESCHH	Hold area for JQA SCHENV
442	(1BA)	CHARACTER	16	JPCESCHJ	Hold area for JCT SCHENV
460	(1CC)	ADDRESS	4	JPCECIP	CIPARM parm area address
464	(1D0)	ADDRESS	4	JPCECAT	CAT for job being converted
468	(1D4)	ADDRESS	4	JPCESQD	SQD address
472	(1D8)	BITSTRING	16	JPCETTKN	Subtask STOKEN work area
488	(1E8)	DBL WORD	8	JPCEPRFS(0)	Performance stats
488	(1E8)	DBL WORD	8	JPCEQTIM	C/I queue time (micro)
496	(1F0)	DBL WORD	8	JPCERTIM	C/I run time (micro)
504	(1F8)	DBL WORD	8	JPCECTIE	C/I CPU time (micro)
504	(1F8)	X'1E8'	0	JPCEPSTA	"JPCEPRFS,*-JPCEPRFS" All C/I performance stats
Exit 44 data fields (cleared before called exit)					
512	(200)	BITSTRING	1	JPCEFLG1	Exit 44 flag byte
		1...		JPCE1CLS	"B'10000000'" Exit set class
		.1..		JPCE1SCH	"B'01000000'" Exit set SCHENV
513	(201)	BITSTRING	3		Reserved
516	(204)	CHARACTER	8	JPCEXCLS	Exit 44 set Job class
524	(20C)	CHARACTER	8	JPCEXJCS	Exit 44 saved JCT job class
532	(214)	CHARACTER	16	JPCEXSCH	Exit 44 set SCHENV
532	(214)	X'200'	0	JPCEX44D	"JPCEFLG1,*-JPCEFLG1" Field to clear exit 44 data
552	(228)	DBL WORD	8	(0)	Alighnment
552	(228)	X'E8'	0	JPCELEN	"*-PCEWORK" LENGTH OF PROCESSOR WORK SPACE

Table 91. Cross Reference for $CNVWORK

Name	Offset	Hex Tag
JPCECAT	1D0	
JPCECECB	140	
JPCECIP	1CC	
JPCECLAS	159	
JPCECTIE	1F8	
JPCEDTE	164	
JPCEDUPL	158	80
JPCEFLG1	200	
JPCEJCTA	168	
JPCEJCTK	178	
JPCEJLOG	1A4	
JPCELEN	228	E8
JPCELST	192	184
JPCENCWT	158	10
JPCEPARM	184	
JPCEPRFS	1E8	
JPCEPRIO	161	
JPCEPSTA	1F8	1E8
JPCEQTIM	1E8	
JPCERTIM	1F0	
JPCESCHE	194	
JPCESCHH	1AA	
JPCESCHJ	1BA	
JPCESQD	1D4	
JPCESTAT	158	
JPCETQE	16C	
JPCETTKN	1D8	
JPCEXCLS	204	
JPCEXJCS	20C	
JPCEXPLA	180	
JPCEXRSP	193	
JPCEXSCH	214	
JPCEX44D	214	200
JPCE1CLS	200	80
JPCE1SCH	200	40
PCE	0	

Chapter 38. $COMWORK Information

$COMWORK Programming Interface Information

The following field is **NOT** programming interface information:

- COMMLTEA

$COMWORK Heading Information

Common Name:	JES2 Command PCE Work Area
Macro ID:	$COMWORK
DSECT Name:	PCE ($COMWORK is part of the PCE DSECT)
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4
Storage Attributes:	Subpool: See $PCE Key: See $PCE Residency: See $PCE
Size:	See symbol COMPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by:	See $PCE
Pointed to by:	The $COMMPCE field of the $HCT data area See $PCE for other pointer fields that apply to all PCE types.
Serialization:	Normal PCE dispatch serialization
Function:	The fields in this work area are used by a JES2 Command Processor and by its support routines and exits. $COMWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $COMWORK are actually part of the PCE DSECT, but only map PCEs with the value PCECONID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

$COMWORK mapping

Table 92. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
	SPOOL MASK WORK AREA - USED WITH V=VOLSER OPERAND				
320	(140)	BITSTRING	1	COMSPMSK	VOLUME SERIAL MASK
	SECURITY RELATED TOKEN OF ISSUER OF COMMAND				
352	(160)	CHARACTER	80	COMSECT	SECURITY TOKEN
432	(1B0)	ADDRESS	4	COMSQD	ADDRESS OF SQD OR ZERO
436	(1B4)	BITSTRING	1	COMFLAG2	Second CMB flag (CMBFLAG2)

Table 92. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
437	(1B5)	BITSTRING	3		Reserved
440	(1B8)	ADDRESS	4	COMPXEQ	DOM id for $P XEQ
		Address of the first character in the field pointed to by PCENTITY beyond the sub-system name and its trailing period. If our sub-system name is JES2, then this address will be 5 greater than PCENTITY.			
444	(1BC)	SIGNED	4	COMENTBG	See above comment box
		Parameters for IEAVM173 (WPL message extract service)			
448	(1C0)	ADDRESS	4	COMMLTEA	Address of MLTE
452	(1C4)	CHARACTER	1	COMMLTE	WPL message extract parms
		List form of the $WTO parameter list. The following fields must match those defined in the CMB starting at CMBWTOPL.			
500	(1F4)	SIGNED	4	COMWTOPL(0)	START OF WTO PARAMETERS
500	(1F4)	CHARACTER	1	COMFLAG	FLAGS FOR CMB
501	(1F5)	CHARACTER	1	COMLEVEL	LIST LEVEL AND PRIORITY
502	(1F6)	CHARACTER	1	COMTYPE	FORMAT TYPE
503	(1F7)	CHARACTER	1	COMML	LENGTH OF MESSAGE
504	(1F8)	SIGNED	4	(0)	
504	(1F8)	ADDRESS	3	COMTO(0)	TO SYSTEM NODE INFORMATION
504	(1F8)	SIGNED	2	COMTONOD	NODE NUMBER (BINARY)
506	(1FA)	BITSTRING	1	COMTOQUL	NODE QUALIFIER
507	(1FB)	BITSTRING	1	COMFLAG3	CMB General flag byte 3
508	(1FC)	CHARACTER	8	COMCART	COMMAND AND RESPONSE TOKEN
516	(204)	CHARACTER	1	COMUCM	FOR DOWN LEVEL COMPATIBILITY
517	(205)	CHARACTER	1	COMUCMA	MCS CONSOLE AREA
518	(206)	CHARACTER	2	COMLINET	LINE TYPE FOR MLWTO
520	(208)	CHARACTER	4	COMUCMID	4-BYTE MCS CONSOLE ID
524	(20C)	CHARACTER	2	COMDESC	MCS DESCRIPTOR CODES
526	(20E)	CHARACTER	2	COMROUT	MCS ROUTE CODES
528	(210)	CHARACTER	4	COMDOMID	MCS DOM ID
532	(214)	SIGNED	2	COMRMT	REMOTE NUMBER
534	(216)	CHARACTER	8	COMUSER	TSO USER ID
534	(216)	X'2A'	0	COMWTOLG	"*-COMWTOPL" LENGTH OF WTO PARM LIST
542	(21E)	ADDRESS	2	(0)	Verify that lengths of
542	(21E)	ADDRESS	2	(0)	parameter lists are OK
542	(21E)	BITSTRING	2		Reserved
544	(220)	DBL WORD	8	(0)	Align
544	(220)	BITSTRING	16	COMSTRT	Time command started
		FUNCTION WORK SPACE			
560	(230)	CHARACTER	4	COMINCON	SOURCE CONSOLE UCMID
564	(234)	CHARACTER	1	COMAUTH	SOURCE CONSOLE AUTHORITY
565	(235)	CHARACTER	8	COMACEID	AUTOMATIC COMMAND ELEMENT ID
573	(23D)	BITSTRING	3		Reserved
576	(240)	SIGNED	4	COMJROUT(0)	JOB QUEUING ROUTE CODE FROM CMB (BINARY)
576	(240)	SIGNED	2	COMJNOD	NODE ID
578	(242)	SIGNED	2	COMJRMT	REMOTE ID
580	(244)	SIGNED	4	COMJSCAT	SAVE AREA FOR $CFJSCAN CAT

Table 92. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
584	(248)	ADDRESS	4	COMCRQ	Command request block head
588	(24C)	SIGNED	4	COMEWORK	SINGLE PRECISION WORK AREA
592	(250)	DBL WORD	8	COMDWORK	DOUBLE PRECISION WORK AREA
600	(258)	DBL WORD	8	COMWREGS(2)	REGISTER SAVE AREA
616	(268)	SIGNED	4	COMFWORK	FULL WORD WORK AREA
620	(26C)	ADDRESS	1	COMBWORK	ONE BYTE WORK AREA
621	(26D)	BITSTRING	1	COMGFLG1	GENERAL FLAG BYTE
		1...		COMG1APO	"B'10000000'" APOSTROPHE SWITCH IS ON
		.1..		COMG1REQ	"B'01000000'" CMB MUST BE REQUEUED
		..1.		COMG1PAR	"B'00100000'" CLOSING PAREN SWITCH IS ON
		...1		COMG1CON	"B'00010000'" MASTER CONSOLE RETRY BIT
		.... 1...		COMG1SSI	"B'00001000'" SSI FORMATTED COMMAND
		.... .1..		COMG1$MN	"B'00000100'" $M/$N command found
		.... ..1.		COMG1UAC	"B'00000010'" Unauthorized console
		1		COMG1SJR	"B'00000001'" A single job being processed by a job list command
622	(26E)	BITSTRING	1	COMGFLG2	Command level general flag
CPOFLAG and definitions for $PQ and $OQ commands					
622	(26E)	X'26E'	0	CPOFLAG	"COMGFLG2"
		1...		CPOFCLS	"B'10000000'" FLAG FOR CLASS STRING EXISTS
		.1..		CPOFCNCL	"B'01000000'" FLAG FOR CANCEL HELD DS
		..1.		CPOFRTE	"B'00100000'" FLAG FOR RE-ROUTING DESIRED
EQU B'00010000' Reserved					
		.... 1...		CPOFALL	"B'00001000'" FLAG FOR 'ALL' OPERAND
		.... .1..		CPOFAGHR	"B'00000100'" FLAG FOR CUT OFF AGE/HOURS
		.... ..1.		CPOFQR	"B'00000010'" Q= and/or R= was specified
		1		CPOFNJO	"B'00000001'" Flag destid on Network Q
623	(26F)	BITSTRING	1	COMGFLG3	More genaral flags (Cleared at HASPCOME)
		1...		COMG3ECH	"B'10000000'" Command has been echoed
624	(270)	SIGNED	2	COMLCCA	FLAGS AND AREA OF ' L='
		11		COMFFLGJ	"B'00000011'" BATCH JOB TYPE WHEN ZEROES
		1		COMFFLGS	"B'00000001'" STC JOB TYPE
		.... ..1.		COMFFLGT	"B'00000010'" TSU JOB TYPE
626	(272)	CHARACTER	10	COMCONNM	SYMBOLIC CONSOLE NAME AND OUT-OF-LINE AREA

Table 92. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		COMMAND EDIT ROUTINE FLAGS			
626	(272)	X'24E'	0	COMLFLG	"COMEWORK+2" FLAG BYTE
626	(272)	X'1'	0	COMLFLGR	"1" UCM CMD FROM REMOTE SYSTEM
626	(272)	X'2'	0	COMLFLGC	"2" CONSOLE HAS BEEN SPECIFIED
626	(272)	X'4'	0	COMLFLGA	"4" AREA HAS BEEN SPECIFIED
		COMMAND INPUT PASSED TO $SCAN			
636	(27C)	CHARACTER	132	COMINPUT	COMMAND INPUT PASSED TO $SCAN
768	(300)	SIGNED	4	COMSDLCT	COUNT OF $SCAN DISPLAY LINES
772	(304)	SIGNED	4	COMTDLCT	Count of total lines displayed for commands partially implemented via $SCAN
776	(308)	ADDRESS	4	COMSTAB	Address of $SCANTAB related to command
		COMMAND TEXT AREA			
780	(30C)	CHARACTER	2	COMMID	MESSAGE ID
780	(30C)	X'30C'	0	COMLNGTH	"COMMID" Command length
782	(30E)	CHARACTER	1024	COMMAND	COMMAND AND MESSAGE AREA
782	(30E)	X'30F'	0	COMVERB	"COMMAND+1" LOCATION OF COMMAND VERB
782	(30E)	X'310'	0	COMOPRND	"COMMAND+2" LOCATION OF FIRST OPERAND
782	(30E)	X'3D6'	0	COMSAFL	"COMMAND+200,1" Length and command image
782	(30E)	X'3D7'	0	COMSAFC	"COMSAFL+1,150" for $SEAS CMDAUTH call
1806	(70E)	CHARACTER	8	COMJNAME	MESSAGE AREA EXTENSION/JOBNAME
1814	(716)	CHARACTER	8	COMPRVCM	Start of previous command
1822	(71E)	CHARACTER	132	COMCURCM	Mirror of Command
1954	(7A2)	SIGNED	2	COMMNDLN	Length of data in COMCURCM
1956	(7A4)	ADDRESS	4	COMXWCA	Address of CXWC DSECT
1960	(7A8)	ADDRESS	4	COMLJBRG	Ptr to last job range
		OPERAND POINTER AREA			
1964	(7AC)	SIGNED	4	COMPNTER(20)	AREA FOR OPERAND POINTERS
1964	(7AC)	X'50'	0	COMPNTRL	"*-COMPNTER" Length of operand ptr area
2044	(7FC)	ADDRESS	2	(0)	Force assembly error IF AREA TOO SMALL FOR USE BY $DM
2044	(7FC)	SIGNED	4	COMNULOP	NULL OPERAND
2048	(800)	BITSTRING	20	COMPINDX	COMPNTER/CDUTABLE INDEX BYTES
2068	(814)	SIGNED	4	(0)	
2068	(814)	SIGNED	4	COMINXSV	SAVE AREA FOR COMPINDX POINTER
2072	(818)	SIGNED	4	COMOPFLG	Operand flags
		COMREGSV is used by HASPCOMM for a $SCAND buffer when it calls SCAN. 64 bytes are used.			
2076	(81C)	BITSTRING	248	COMREGSV	REGISTER SAVE/WORK AREA
		COFRTR work area for route code ranges			
2324	(914)	BITSTRING	18	COMRWORK	WORK AREA FOR SUBMITTING EBCDIC ROUTES TO $DEST/USERDEST

Table 92. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2342	(926)	BITSTRING	1	COMRFLG1	FLAG BYTE FOR ROUTECODES
		.1..		COMR1GNC	"B'01000000'" Indicates the userid in COMUWORK contains a least one generic character
		..1.		COMR1UNN	"B'00100000'" INDICATES WHETHER OR NOT SPECIAL LOCAL ROUTING IS INCLUDED IN RANGE
		...1		COMR1RAL	"B'00010000'" Indicates that route code ranges are allowed
		.... 1...		COMR1DFT	"B'00001000'" INDICATES COMREGSV+2 IS TO BE USED FOR THE DEFAULT NODE INSTEAD OF COMJNOD
		.... .1..		COMR1GEN	"B'00000100'" INDICATES WHETHER OR NOT A GEN. USERID IS ALLOWED
		.... ..1.		COMR1GNA	"B'00000010'" Indicates that a generic userid was specified, implicitly or explicitly on first dest in range
		1		COMR1RPR	"B'00000001'" INDICATES ROUTECODE CONTAINED (
2343	(927)	BITSTRING	1		RESERVED FOR FUTURE USE
2344	(928)	CHARACTER	8	COMUWORK	HI-END USERID FROM $DEST
2344	(928)	X'0'	0	COMNODE	"0,2,C'H'" Offset/length of node
2344	(928)	X'2'	0	COMRMTE	"2,2,C'H'" Offset/length of rmt
2344	(928)	X'4'	0	COMUSEID	"4,8,C'D'" Offset/length of userid
2344	(928)	X'4'	0	COMNRLEN	"L'COMNODE+L'COMRMT" Length of node+remote
2344	(928)	X'8'	0	COMUCNT	"8" COUNTER FOR EXAMINING GENERIC USERIDS
2352	(930)	BITSTRING	1		Reserved
		More flag bytes			
2353	(931)	BITSTRING	1	COMSFLG1	Flag byte for specific cmds
		1...		COMS1WT	"B'10000000'" Waited 1 sec in $PJES2 for system to quiesce
		Next 2 bits used for Joblist commands			
		.1..		COMS1JQ	"B'01000000'" JOBQ specified as object
		..1.		COMS1JST	"B'00100000'" J, S, or T specified
		...1		COMS1HIT	"B'00010000'" JOE found flag
		.... 1...		COMS1RTS	"B'00001000'" $T RMT switched BSC<--->SNA
		.... .1..		COMS1MAX	"B'00000100'" Maximum hi range specified
		.... ..1.		COMS1FLT	"B'00000010'" Job queue filter required
		1		COMS1RBD	"B'00000001'" Include rebuild queue in job scan
2354	(932)	BITSTRING	1	COMSTABP	COMPCE id from STAB
2355	(933)	BITSTRING	1		Reserved for future use
		$CFSEL macro/service routine communication area			

Table 92. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2356	(934)	ADDRESS	4	COMSCOTE	Address of current entry in operand pointer table
2360	(938)	ADDRESS	4	COMSRTNA	Address of selected routine (or zero if no match)
2364	(93C)	SIGNED	4	COMSSLEN	Length of matching string (or zero if no match)
2368	(940)	SIGNED	4	COMSRLEN	Residual operand length (or input operand length if no match)
		Area for specifications for filter type operands			
2372	(944)	CHARACTER	8	COMJNAM	STORE OUTPUT JOE NAME
2380	(94C)	SIGNED	2	COMJID1	STORE OUTPUT JOE 1ST ID
2382	(94E)	SIGNED	2	COMJID2	STORE OUTPUT JOE 2ND ID
		$TO AND $R WORK AREA FOR JOES			
2384	(950)	SIGNED	4	(0)	Word alignment
2384	(950)	ADDRESS	4	COMJOAA	Address of JOA
2388	(954)	BITSTRING	1	COMLTFLG	Flag byte for $L and $TO
		1...		COMLTMAX	"B'10000000'" DISPMAX reached for current set of $HAS686 msgs
		Field needed for $CFJSCAN Processing			
2389	(955)	BITSTRING	2		Reserved for future use
2391	(957)	BITSTRING	1	COMQUE	Requested Queue
		Free JOE work area			
2392	(958)	SIGNED	4	COMFJOEL	Indx of lowest JOE to free
2396	(95C)	SIGNED	4	COMFJOEH	Indx of highest JOE to free
2396	(95C)	X'958'	0	COMFJOEW	"COMFJOEL,*-COMFJOEL,C'F'" Composite field
		Work area to hold system affinity mask for commands that allow multiple system affinities to be specified. eg. $DA, $T ALL, $T RDR/I, $T OFF(n).JR/JT $T J/S/T			
2400	(960)	BITSTRING	4	COMAFMSK	System affinity mask
2404	(964)	BITSTRING	1	COMOSAFM	Old system affinity mask
		ENQ/DEQ parameter lists MACRO-DATE = 03/16/15			
2408	(968)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
2408	(968)	X'968'	0	COMRDRNQ	"*" X02113
2408	(968)	ADDRESS	1		PELLAST flag byte. X02113
2409	(969)	ADDRESS	1		PELMILEN - RNAME length.
2410	(96A)	BITSTRING	1		
		PELFLAG - flag byte 2.			
2411	(96B)	ADDRESS	1		PELRET - return code byte.
2412	(96C)	ADDRESS	4		QNAME ADDRESS
2416	(970)	ADDRESS	4		RNAME ADDRESS
2416	(970)	X'C'	0	COMENQL	"*-COMRDRNQ" Length of ENQ
		MACRO-DATE = 03/16/2015			
2420	(974)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
2420	(974)	X'974'	0	COMRDRDQ	"*" X02113

Table 92. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2420	(974)	ADDRESS	1		PELLAST flag byte. X02113
2421	(975)	ADDRESS	1		PELMILEN - RNAME length.
2422	(976)	BITSTRING	1		
				PELFLAG - flag byte 2.	
2423	(977)	ADDRESS	1		PELRET - return code byte.
2424	(978)	ADDRESS	4		QNAME ADDRESS
2428	(97C)	ADDRESS	4		RNAME ADDRESS
2428	(97C)	X'C'	0	COMDEQL	"*-COMRDRDQ" Length of DEQ
		Work area for $DJ,DELAY command for jobs in a job group			
2432	(980)	SIGNED	4	(0)	Alignment
2432	(980)	BITSTRING	4	COMSYSAF	Job group SYSAFF
2436	(984)	BITSTRING	4	COMSCHAF	Job group SCHENV aff mask
2440	(988)	BITSTRING	4	COMSCLAF	Job group SECLABEL aff mask
2444	(98C)	BITSTRING	1	COMLGFG1	Logging job JQEFLAG1
2445	(98D)	BITSTRING	1	COMSRSN	Delay reason of conc set
2446	(98E)	BITSTRING	2		Reserved
2446	(98E)	X'850'	0	COMMAXL	"*-PCEWORK" Maximum length of COMWORK
		Beginning of remappings of existing areas. SUBSYSTEM-INDEPENDENT (SSI) FORMATTED COMMAND AREA			
2076	(81C)	BITSTRING	40	COMFCMDA(0)	FORMATTED COMMAND AREA
2076	(81C)	CHARACTER	1	COMFOP	FORMATTED COMMAND OPTION CODE
2077	(81D)	CHARACTER	1	COMFFLG	FORMATTED COMMAND FLAG BYTE
2078	(81E)	SIGNED	2	COMFJID	JOB IDENTIFICATION
2080	(820)	CHARACTER	8	COMFORGN	ORIGINATING NODE NAME
2088	(828)	CHARACTER	8	COMFJNAM	JOB NAME
2096	(830)	CHARACTER	8	COMFD	DESTINATION NODE NAME (ROUTE CMD)
2104	(838)	CHARACTER	8	COMFR	REMOTE NAME (ROUTE CMD)
2112	(840)	SIGNED	4	COMFJNO	Job number identifier
2112	(840)	X'844'	0	COMFEND	"*" END OF FORMATTED COMMAND AREA
2112	(840)	X'28'	0	COMFL	"*-COMFOP" LENGTH OF FORMATTED CMD AREA
2116	(844)	ADDRESS	2	(0)	Ensure area fits within COMREGSV
		SSI FORMATTED CMD WORKAREA (USED BY HASPCFCP)			
1964	(7AC)	CHARACTER	80	COSIWORK(0)	
1964	(7AC)	BITSTRING	40	COSICMDA(0)	FORMATTED COMMAND AREA
1964	(7AC)	CHARACTER	1	COSIOP	FORMATTED COMMAND OPTION CODE
1965	(7AD)	CHARACTER	1	COSIFLG	FLAG BYTE (SEE COMFFLG DEF.)
1966	(7AE)	SIGNED	2	COSIJID	JOB IDENTIFICATION
1968	(7B0)	CHARACTER	8	COSIORGN	ORIGINATING NODE NAME
1976	(7B8)	CHARACTER	8	COSIJNAM	JOB NAME
1984	(7C0)	CHARACTER	8	COSID	DESTINATION NODE NAME (ROUTE CMD)
1992	(7C8)	CHARACTER	8	COSIR	REMOTE NAME (ROUTE CMD)
2000	(7D0)	SIGNED	4	COSIJNO	Job number identifier
2000	(7D0)	X'7D4'	0	COSIEND	"*" END OF FORMATTED COMMAND AREA

Table 92. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2000	(7D0)	X'28'	0	COSIL	"*-COSICMDA" LENGTH OF FORMATTED CMD AREA
2004	(7D4)	SIGNED	4	COSILINK	USED TO SAVE LINK REGISTER
2008	(7D8)	SIGNED	4	COSIJQER	USED TO SAVE PTR TO JQE
2012	(7DC)	SIGNED	4	COSISAV0	USED TO SAVE R0 CONTENTS
2016	(7E0)	SIGNED	2	COSINOD#	ORIGINATING NODE # (BINARY)
2018	(7E2)	CHARACTER	1	COSIEFOP	EFFECTIVE CMD OPTION CODE
2019	(7E3)	BITSTRING	1		RESERVED FOR FUTURE USE
2019	(7E3)	X'38'	0	COMSIL	"*-COSIWORK" Length of this remapping
2020	(7E4)	ADDRESS	2	(0)	Ensure area fits within COMPNTER
COMFOP DEFINITIONS					
2020	(7E4)	X'1'	0	COMFOPD	"1" DISPLAY JOB COMMAND ($GD)
2020	(7E4)	X'2'	0	COMFOPC	"2" CANCEL JOB COMMAND ($GC)
2020	(7E4)	X'3'	0	COMFOPA	"3" RELEASE JOB COMMAND ($GA)
2020	(7E4)	X'4'	0	COMFOPH	"4" HOLD JOB COMMAND ($GH)
2020	(7E4)	X'5'	0	COMFOPR	"5" ROUTE JOB COMMAND ($GR)
COMFFLG DEFINITIONS					
		1...		COMFFLGO	"B'10000000'" A) FOR COMFOPC ($GC) COMMAND - CANCEL OUTPUT AS OPPOSED TO EXECUTION B) FOR COMFOPR ($GR) COMMAND - ROUTE OUTPUT AS OPPOSED TO EXECUTION
		.1..		COMFFLGD	"B'01000000'" CANCEL EXECUTION WITH A DUMP
		..1.		COMFFLGN	"B'00100000'" COSIFJNO is job number
$R COMMAND WORK AREA					
2076	(81C)	SIGNED	4	CRXWORKA(0)	$R COMMAND WORK AREA
2076	(81C)	SIGNED	4	CRXOLDRT	SAVE AREA FOR OLD ROUTECDE
2080	(820)	SIGNED	4	CRXNEWRT	SAVE AREA FOR NEW ROUTECDE
2084	(824)	SIGNED	4	CRXCLSPT	SAVE AREA FOR CLASS PTR
2088	(828)	SIGNED	4	CRXJBNUM	SAVE AREA FOR JOB NUMBER
2092	(82C)	BITSTRING	1	CRXOUTD	OUTDISP PROCESSING FLAGS
		1...		CRXODLST	"B'10000000'" PARENTHESIZED OPERAND LIST CURRENTLY BEING PROCESSED
2092	(82C)	X'8'	0	CRXODW	"$ODWRITE" PROCESS OUTDISP=WRITE
2092	(82C)	X'4'	0	CRXODH	"$ODHOLD" PROCESS OUTDISP=HOLD
2092	(82C)	X'2'	0	CRXODK	"$ODKEEP" PROCESS OUTDISP=KEEP
2092	(82C)	X'1'	0	CRXODL	"$ODLEAVE" PROCESS OUTDISP=LEAVE
2092	(82C)	X'F'	0	CRXODANY	"$ODANY" ANY OUTDISP SETTINGS
2093	(82D)	BITSTRING	1	CRXFLAG1	$R command flag byte
		1...		CRX1GENC	"B'10000000'" CRXOLDUS contains generic characters ('*' or '?')
2094	(82E)	BITSTRING	37	CRXCLASL	Q= CLASS LIST (36 + BLANK)
2132	(854)	SIGNED	4	(0)	FULL WORD ALIGNMENT
2132	(854)	CHARACTER	8	CRXOLDUS	SAVE AREA FOR OLD ROUTE CD
2140	(85C)	CHARACTER	8	CRXNEWUS	SAVE AREA FOR NEW ROUTE CD
2148	(864)	CHARACTER	8	CRXNEWND	SAVE AREA FOR NEW NODE NAME

Table 92. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2148	(864)	X'50'	0	CRXLEN	"*-CRXWORKA" LENGTH OF $R WORK AREA
2156	(86C)	ADDRESS	2	(0)	CHECK FOR OVERLAP
		MESSAGE TEXT FOR PRMODE SYSTEM TABLE ERROR			
782	(30E)	CHARACTER	66	CTPRTEXT	PRMODE TABLE MESSAGE
848	(350)	ADDRESS	2	(0)	Generate assembly error if L'CTPRTEXT exceeds L'COMMAND
		Flag byte for PREJOE, PREJQE and PSTCFVQE			
2176	(880)	BITSTRING	1	CRJFLAG	Flags for JOE/JQE commands
2176	(880)	X'65'	0	CRJLEN	"*-COMREGSV" Length of remapped area
2178	(882)	ADDRESS	2	(0)	Check for overlap
		Flag definitions for CRJFLAG			
		1...		CRJFLGCF	"B'10000000'" PSTCFVQE has been invoked
		DISPLAY UNIT FLAG DEFINITIONS			
2178	(882)	X'818'	0	CDUFLAG1	"COMOPFLG" CDUFLAG1 DEFINITION
		1...		CDUFLGRP	"B'10000000'" GROUP DISPLAY REQUEST
		11..		CDUFLTYP	"B'11000000'" TYPE-GROUP DISPLAY REQ
		..1.		CDUFLRMT	"B'00100000'" REMOTE SUB-DISPLAY REQ
		...1		CDUFLRAT	"B'00010000'" RAT BASED DISPLAY REQ
		.... 1...		CDUFLONE	"B'00001000'" SINGLE DCT DISPLAY REQ
		.... .1..		CDUFLCLS	"B'00000100'" DCT CLASS SKIP REQUEST
		.... ..1.		CDUFLLU	"B'00000010'" SNA LUNAME SUBDISPLAY
		1		CDUFLMOD	"B'00000001'" MODIFIER OPERAND ONLY
2178	(882)	X'819'	0	CDUDEVTP	"COMOPFLG+1" TYPE-GROUP DCT TYPE
2178	(882)	X'81A'	0	CDUMASK	"COMOPFLG+2" BRANCH MASK VALUE
2178	(882)	X'81B'	0	CDUFLAG2	"COMOPFLG+3" CDUFLAG2 DEFINITION
		1...		CDUFLSUB	"B'10000000'" RMT SUB-DSPLY IN PROGR
		.1..		CDUFLONG	"B'01000000'" FORCE LONG DISPLAY
		..1.		CDUFLFND	"B'00100000'" DEVICE FOUND IN DSPLY
		...1		CDUFLOPR	"B'00010000'" NON-MODIFIER OPERANDS
		.... 1...		CDUFLACT	"B'00001000'" ACTIVE ONLY MODIFIER
		.... .1..		CDUFLSTR	"B'00000100'" STARTED ONLY MODIFIER
		.... ..1.		CDUFLSHT	"B'00000010'" SHORT MODIFIER
		1		CDUFXSUB	"B'00000001'" XFR SUB-DISPLAY

Table 92. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2178	(882)	X'81C'	0	CDUDEVN	"COMREGSV,12" Device name for $DU
		Definitions for HASP608 job information message OPT= operand of the $CFJMSG macro.			
		1		COFN	"X'01'" DISPLAY NORMAL JOBS
		.... ..1.		COFS	"X'02'" DISPLAY SYSTEM JOBS
		.... .1..		COFT	"X'04'" DISPLAY LOGON JOBS
2178	(882)	X'7'	0	COFJ	"COFN+COFS+COFT" DISPLAY ALL JOBS
		.... 1...		COFX	"X'08'" DISPLAY JOBS IN EXECUTION
		...1		COFD	"X'10'" DISPLAY JOBS ON DEVICES
2178	(882)	X'1F'	0	COFA	"COFJ+COFX+COFD" DISPLAY ACTIVE JOBS
		..1.		COFI	"X'20'" DISPLAY PRE-XEQ QUEUED JOBS
		.1..		COFO	"X'40'" DISPLAY POST-XEQ QUEUED JOBS
		1...		COFP	"X'80'" DISPLAY QUEUED FOR PRT/PUN
2178	(882)	X'E7'	0	COFQ	"COFJ+COFI+COFO+COFP" DISPLAY QUEUED JOBS
2178	(882)	X'FF'	0	COFU	"COFJ+COFI+COFO+COFX+COFP+COFD" DISPLAY UNCONDITIONAL
		Definitions for HASP608 job information message OPT2= operand of the $CFJMSG macro.			
		1		COFLNGFG	"B'00000001'" LONG OPERAND SPECIFIED FLAG
		.... ..1.		COFPREFX	"B'00000010'" SPOOL PREFIX ALREADY PRINTED
		Define the COMMAND work area for use building the job related display messages. Define the fixed message start.			
2178	(882)	X'30E'	0	COFJOB	"COMMAND,3" TEXT 'JOB', 'STC', OR 'TSU'
2178	(882)	X'311'	0	COFJNO	"COFJOB+3,5" JOB NUMBER WITH LEADING BLANK
2178	(882)	X'317'	0	COFJNAME	"COFJNO+6,8" JOB NAME
		Define the 2nd field - queue and/or activity info.			
2178	(882)	X'320'	0	COFQUE	"COFJNAME+9,8" TEXT 'AWAITING'
2178	(882)	X'6F0'	0	COFOPT	"COMMAND+L'COMMAND-30,1" OPTION SPECIFIED
2178	(882)	X'6F1'	0	COFNULL	"COFOPT+1,1" Place holder for COFAFF
2178	(882)	X'6F2'	0	COFOPT2	"COFNULL+1,1" 2ND OPTION FLAG
2178	(882)	X'6F3'	0	COFSECF	"COFOPT2+1,4" SECURITY FIELD FOR $WTO'S
2178	(882)	X'6F7'	0	COFLNGTH	"COFSECF+4,2" LENGTH OF MSG
2178	(882)	X'3EB'	0	COFSIZE	"COFLNGTH+L'COFLNGTH-COFJOB" Size of work area

Table 92. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2178	(882)	CHARACTER	1	(0)	Ensure work area fits within COMMAND field
2178	(882)	X'964'	0	COFAFF	"COMOSAFM" System affinity mask
2178	(882)	X'960'	0	COFAFWRK	"COMAFMSK" Affinity mask work area
		Determine maximum length of the COMM PCE work area by ORGing back to the start of the variable section (PCEWORK) and accounting for the largest definition of $COMWORK.			
320	(140)	BITSTRING	2128		Account for largest section
2448	(990)	SIGNED	4	(0)	Ensure full-word align
2448	(990)	X'850'	0	COMPCEWS	"*-PCEWORK" LENGTH OF WORK AREA

Table 93. Structure COMREQ

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	COMREQ	Command Request block DSECT
0	(0)	CHARACTER	4	CRQID	Eyecatcher
4	(4)	ADDRESS	4	CRQNEXT	Next request on queue
8	(8)	BITSTRING	42	CRQWTOPL	Long WTO parm list
50	(32)	BITSTRING	82	CRQSECT	Security token
132	(84)	SIGNED	4	(0)	Set alignment
132	(84)	CHARACTER	4	CRQINCON	Input console UCMID
136	(88)	CHARACTER	1	CRQAUTH	Input console authority
137	(89)	BITSTRING	1	CRQGFLG1	General flag byte
138	(8A)	BITSTRING	1	CRQFLAG2	Second CMB flag
139	(8B)	BITSTRING	1		Reserved
140	(8C)	SIGNED	4	CRQJROUT	Route code from CMB
144	(90)	SIGNED	2	CRQLCCA	Flags and area of ' L=CCA'
146	(92)	SIGNED	2	CRQCMDLN	Command length
148	(94)	CHARACTER	10	CRQCONNM	Symbolic console name/area
158	(9E)	BITSTRING	2		Reserved
160	(A0)	CHARACTER	132	CRQCMD	Command
292	(124)	SIGNED	4	CRQPNTER(21)	Area for operand pointers
376	(178)	SIGNED	4	CRQLPTR	Offset of ptr to last oper
376	(178)	X'17C'	0	CRQLEN	"*-COMREQ" Length of request list

Table 94. Cross Reference for $COMWORK

Name	Offset	Hex Tag
CDUDEVN	882	81C
CDUDEVTP	882	819
CDUFLACT	882	8
CDUFLAG1	882	818
CDUFLAG2	882	81B
CDUFLCLS	882	4
CDUFLFND	882	20
CDUFLGRP	882	80
CDUFLLU	882	2

Table 94. Cross Reference for $COMWORK (continued)

Name	Offset	Hex Tag
CDUFLMOD	882	1
CDUFLONE	882	8
CDUFLONG	882	40
CDUFLOPR	882	10
CDUFLRAT	882	10
CDUFLRMT	882	20
CDUFLSHT	882	2
CDUFLSTR	882	4
CDUFLSUB	882	80
CDUFLTYP	882	C0
CDUFXSUB	882	1
CDUMASK	882	81A
COFA	882	1F
COFAFF	882	964
COFAFWRK	882	960
COFD	882	10
COFI	882	20
COFJ	882	7
COFJNAME	882	317
COFJNO	882	311
COFJOB	882	30E
COFLNGFG	882	1
COFLNGTH	882	6F7
COFN	882	1
COFNULL	882	6F1
COFO	882	40
COFOPT	882	6F0
COFOPT2	882	6F2
COFP	882	80
COFPREFX	882	2
COFQ	882	E7
COFQUE	882	320
COFS	882	2
COFSECF	882	6F3
COFSIZE	882	3EB
COFT	882	4
COFU	882	FF
COFX	882	8
COMACEID	235	
COMAFMSK	960	
COMAUTH	234	
COMBWORK	26C	
COMCART	1FC	
COMCONNM	272	
COMCRQ	248	
COMCURCM	71E	
COMDEQL	97C	C
COMDESC	20C	
COMDOMID	210	

Table 94. Cross Reference for $COMWORK (continued)

Name	Offset	Hex Tag
COMDWORK	250	
COMENQL	970	C
COMENTBG	1BC	
COMEWORK	24C	
COMFCMDA	81C	
COMFD	830	
COMFEND	840	844
COMFFLG	81D	
COMFFLGD	7E4	40
COMFFLGJ	270	3
COMFFLGN	7E4	20
COMFFLGO	7E4	80
COMFFLGS	270	1
COMFFLGT	270	2
COMFJID	81E	
COMFJNAM	828	
COMFJNO	840	
COMFJOEH	95C	
COMFJOEL	958	
COMFJOEW	95C	958
COMFL	840	28
COMFLAG	1F4	
COMFLAG2	1B4	
COMFLAG3	1FB	
COMFOP	81C	
COMFOPA	7E4	3
COMFOPC	7E4	2
COMFOPD	7E4	1
COMFOPH	7E4	4
COMFOPR	7E4	5
COMFORGN	820	
COMFR	838	
COMFWORK	268	
COMGFLG1	26D	
COMGFLG2	26E	
COMGFLG3	26F	
COMG1$MN	26D	4
COMG1APO	26D	80
COMG1CON	26D	10
COMG1PAR	26D	20
COMG1REQ	26D	40
COMG1SJR	26D	1
COMG1SSI	26D	8
COMG1UAC	26D	2
COMG3ECH	26F	80
COMINCON	230	
COMINPUT	27C	
COMINXSV	814	
COMJID1	94C	

Table 94. Cross Reference for $COMWORK (continued)

Name	Offset	Hex Tag
COMJID2	94E	
COMJNAM	944	
COMJNAME	70E	
COMJNOD	240	
COMJOAA	950	
COMJRMT	242	
COMJROUT	240	
COMJSCAT	244	
COMLCCA	270	
COMLEVEL	1F5	
COMLFLG	272	24E
COMLFLGA	272	4
COMLFLGC	272	2
COMLFLGR	272	1
COMLGFG1	98C	
COMLINET	206	
COMLJBRG	7A8	
COMLNGTH	30C	30C
COMLTFLG	954	
COMLTMAX	954	80
COMMAND	30E	
COMMAXL	98E	850
COMMID	30C	
COMML	1F7	
COMMLTE	1C4	
COMMLTEA	1C0	
COMMNDLN	7A2	
COMNODE	928	0
COMNRLEN	928	4
COMNULOP	7FC	
COMOPFLG	818	
COMOPRND	30E	310
COMOSAFM	964	
COMPCEWS	990	850
COMPINDX	800	
COMPNTER	7AC	
COMPNTRL	7AC	50
COMPRVCM	716	
COMPXEQ	1B8	
COMQUE	957	
COMRDRDQ	974	974
COMRDRNQ	968	968
COMREGSV	81C	
COMREQ	0	
COMRFLG1	926	
COMRMT	214	
COMRMTE	928	2
COMROUT	20E	
COMRWORK	914	

Table 94. Cross Reference for $COMWORK (continued)

Name	Offset	Hex Tag
COMR1DFT	926	8
COMR1GEN	926	4
COMR1GNA	926	2
COMR1GNC	926	40
COMR1RAL	926	10
COMR1RPR	926	1
COMR1UNN	926	20
COMSAFC	30E	3D7
COMSAFL	30E	3D6
COMSCHAF	984	
COMSCLAF	988	
COMSCOTE	934	
COMSDLCT	300	
COMSECT	160	
COMSFLG1	931	
COMSIL	7E3	38
COMSPMSK	140	
COMSQD	1B0	
COMSRLEN	940	
COMSRSN	98D	
COMSRTNA	938	
COMSSLEN	93C	
COMSTAB	308	
COMSTABP	932	
COMSTRT	220	
COMSYSAF	980	
COMS1FLT	931	2
COMS1HIT	931	10
COMS1JQ	931	40
COMS1JST	931	20
COMS1MAX	931	4
COMS1RBD	931	1
COMS1RTS	931	8
COMS1WT	931	80
COMTDLCT	304	
COMTO	1F8	
COMTONOD	1F8	
COMTOQUL	1FA	
COMTYPE	1F6	
COMUCM	204	
COMUCMA	205	
COMUCMID	208	
COMUCNT	928	8
COMUSEID	928	4
COMUSER	216	
COMUWORK	928	
COMVERB	30E	30F
COMWREGS	258	
COMWTOLG	216	2A

Table 94. Cross Reference for $COMWORK (continued)

Name	Offset	Hex Tag
COMWTOPL	1F4	
COMXWCA	7A4	
COSICMDA	7AC	
COSID	7C0	
COSIEFOP	7E2	
COSIEND	7D0	7D4
COSIFLG	7AD	
COSIJID	7AE	
COSIJNAM	7B8	
COSIJNO	7D0	
COSIJQER	7D8	
COSIL	7D0	28
COSILINK	7D4	
COSINOD#	7E0	
COSIOP	7AC	
COSIORGN	7B0	
COSIR	7C8	
COSISAV0	7DC	
COSIWORK	7AC	
CPOFAGHR	26E	4
CPOFALL	26E	8
CPOFCLS	26E	80
CPOFCNCL	26E	40
CPOFLAG	26E	26E
CPOFNJO	26E	1
CPOFQR	26E	2
CPOFRTE	26E	20
CRJFLAG	880	
CRJFLGCF	882	80
CRJLEN	880	65
CRQAUTH	88	
CRQCMD	A0	
CRQCMDLN	92	
CRQCONNM	94	
CRQFLAG2	8A	
CRQGFLG1	89	
CRQID	0	C3D9D840
CRQINCON	84	
CRQJROUT	8C	
CRQLCCA	90	
CRQLEN	178	17C
CRQLPTR	178	
CRQNEXT	4	
CRQPNTER	124	
CRQSECT	32	
CRQWTOPL	8	
CRXCLASL	82E	
CRXCLSPT	824	
CRXFLAG1	82D	

Table 94. Cross Reference for $COMWORK (continued)

Name	Offset	Hex Tag
CRXJBNUM	828	
CRXLEN	864	50
CRXNEWND	864	
CRXNEWRT	820	
CRXNEWUS	85C	
CRXODANY	82C	F
CRXODH	82C	4
CRXODK	82C	2
CRXODL	82C	1
CRXODLST	82C	80
CRXODW	82C	8
CRXOLDRT	81C	
CRXOLDUS	854	
CRXOUTD	82C	
CRXWORKA	81C	
CRX1GENC	82D	80
CTPRTEXT	30E	
PCE	0	

Chapter 39. $CPCWORK Information

$CPCWORK Programming Interface Information

$CPCWORK is a programming interface.

$CPCWORK Heading Information

Common Name:	CPOOL Query Cell Work Area Mapping
Macro ID:	$CPCWORK
DSECT Name:	CPCWPARM
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	None
Storage Attributes:	Subpool: any Key: 1 Residency: Extended private in any address space using JES2 services. Virtual and real storage can be anywhere.
Size:	See CPCWSIZE
Created by:	User of the $CPOOL query cell (QCELL) service
Pointed to by:	Register 0 on entry to the CPQCELL service
Serialization:	None required
Function:	This mapping is used to map over the storage passed by the caller to use $CPOOL QCELL service. Information is passed back via this storage.

$CPCWORK mapping

Table 95. Structure CPCWPARM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CPCWPARM	, CPOOL QCELL Work Mapping
0	(0)	ADDRESS	8	CPCWCELL_64	Cell address (64-bit)
0	(0)	X'4'	0	CPCWCELL	"CPCWCELL_64+4,4,C'A'" 31-bit version
8	(8)	DBL WORD	8	CPCWSTAT_64	Cell status (64-bit)
8	(8)	X'C'	0	CPCWSTAT	"CPCWSTAT_64+4,4,C'F'" 31-bit version
16	(10)	SIGNED	4	CPCWXNUM	Extent number for cell
20	(14)	SIGNED	4	CPCWRC	MVS service return code
24	(18)	SIGNED	4	CPCALET	ALET of cell
24	(18)	X'1C'	0	CPCWSIZE	"*-CPCWPARM" Size of parmlist

Chapter 40. $CPEBE Information

$CPEBE Programming Interface Information

$CPEBE is a programming interface.

$CPEBE Heading Information

Common Name: Cell Pool Extent Block Element
Macro ID: $CPEBE
DSECT Name: CPEBE
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'CPEB'
Offset: CPEID-CPEBE
Length: 4
Storage Attributes: Subpool: any
Key: any
Residency: Same as extent storage for cell pool
The CPEBE (and the CPEB which follows) must be obtained on a quadword boundary.

Size: See CPESIZE
Created by: CPEXPAND Routine in HASCPOOL
(Main Task and User environments)
Pointed to by: CPEDNEXT field of the $CPEBE data area
CPENEXT field of the $CPEBE data area
CPMCPEBE field of the $CPMASTR data area
CPMCPEDS field of the $CPMASTR data area
Serialization: ENQ dueing CPEXPAND
Function: The $CPEBE mapping is used to mapped over storage that contains information on Cell Pool extents.

$CPEBE mapping

Table 96. Structure CPEBE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CPEBE	Cell Pool Extent Block Elem
0	(0)	CHARACTER	4	CPEID	CPEBE Identifier
4	(4)	BITSTRING	1	CPEVRSN	CPEBE Version
4	(4)	X'1'	0	CPEVNUM	"1" Version number
5	(5)	BITSTRING	1	CPEFLAG1	Flags
		1...		CPE1DISC	"B'10000000'" Disconnected extent
6	(6)	BITSTRING	2		Reserved for future use
8	(8)	ADDRESS	8	CPEBXADD	64-bit address of extent
16	(10)	ADDRESS	8	CPENEXT	Address of next CPEBE
24	(18)	ADDRESS	8	CPEBBADR	Address of CPEB/Bit map
32	(20)	DBL WORD	8	CPEBBSIZ	Size of CPEB/Bit map
40	(28)	DBL WORD	8	CPEXXSZ	Size of extent
48	(30)	SIGNED	4	CPEBXNUM	Extent number
52	(34)	SIGNED	4	CPEBMAST	CPMASTR offset in CPINDEX

Table 96. Structure CPEBE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
56	(38)	SIGNED	4	CPEDNEXT	Next CPEBE on disconnected chain
56	(38)	X'40'	0	CPESIZE	"((*-CPEBE+15)/16)*16" Size of CPEBE rounded to quadword

Table 97. Cross Reference for $CPEBE

Name	Offset	Hex Tag
CPEBBADR	18	
CPEBBSIZ	20	
CPEBE	0	
CPEBMAST	34	
CPEBXADD	8	
CPEBXNUM	30	
CPEDNEXT	38	
CPEFLAG1	5	
CPEID	0	C3D7C5C2
CPENEXT	10	
CPESIZE	38	40
CPEVNUM	4	1
CPEVRSN	4	
CPEXXSZ	28	
CPE1DISC	5	80

Chapter 41. $CPINDEX Information

$CPINDEX Programming Interface Information

$CPINDEX is a programming interface.

$CPINDEX Heading Information

Common Name:	Cell Pool Index table
Macro ID:	$CPINDEX
DSECT Name:	CPINDEX
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	CPIX Offset: -8 (in the JES2 CSA storage prefix) Length: L'$CSBID
Storage Attributes:	Subpool: 229 or 231 Key: 1 Residency: Extended private in any address space using JES2 services. One copy is located in ECSA. Virtual and real storage can be anywhere.
Size:	See CPILEN + 8 byte prefix
Created by:	CPINIT routine in HASCPOOL
Pointed to by:	HXBCPIDX field of the HASXB data area CCTCPIDX field of the HCCT data area
Serialization:	Compare and Swap logic will be used to insert a $CPMASTR element in the pre-defined cell types. For the user-defined cell types, a lock for the $CPINDEX table must be held before entry can be inserted.
Function:	This table is used to index into the Master Cell Pool Table ($CPMASTR). It contains index pointers into the $CPMASTR. Each of the pointer is associated with a Cell Type. Check $CPLTAB macro invocations for the cell types defined in this macro. A work cell type can be specified by the caller only in the USER environment. For example, TYPE=ccccc, where ccccc is any alphanumeric character, up to a length of 5 characters.

$CPINDEX mapping

Table 98. Structure CPINDEX

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CPINDEX	Cell Pool Index Table
0	(0)	BITSTRING	1	CPIVRSN	CPINDEX Version
0	(0)	X'1'	0	CPIVNUM	"1" Version number
1	(1)	BITSTRING	1	CPILOCK	CPINDEX lock
2	(2)	BITSTRING	1	CPIFLAG1	Flag 1
		1...		CPIEMPTY	"B'10000000'" Empty entry in user area

Table 98. Structure CPINDEX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		CPI1CSA	"B'01000000'" CSA CPINDEX
3	(3)	BITSTRING	1	CPIFLAG2	Recovery footprints
4	(4)	SIGNED	4	CPISTART(0)	Start of CPLTABs
4	(4)	ADDRESS	4	CPIBAT	BAT CPMASTR addr, subpool BATPOOL
8	(8)	ADDRESS	4	CPIBSC	BSC CPMASTR addr, subpool BSCPOOL
12	(C)	ADDRESS	4	CPICB	CB CPMASTR addr, subpool CBPOOL
16	(10)	ADDRESS	4	CPICDCT	CDCT CPMASTR addr, location CSA64
16	(10)	X'10'	0	CPICDCT_C	"CPICDCT,4,C'A'" CDCT Common pool equate
20	(14)	ADDRESS	4	CPICDCTQS	CDCTQS CPMASTR addr, location CSA64
20	(14)	X'14'	0	CPICDCTQS_C	"CPICDCTQS,4,C'A'" CDCTQS Common pool equate
24	(18)	ADDRESS	4	CPICDCTRNT	CDCTRNT CPMASTR addr, location CSA64
24	(18)	X'18'	0	CPICDCTRNT_C	"CPICDCTRNT,4,C'A'" CDCTRNT Common pool equate
28	(1C)	ADDRESS	4	CPICID	CID CPMASTR addr, subpool CIDPOOL
32	(20)	ADDRESS	4	CPICMB	CMB CPMASTR addr, subpool CMBPOOL
36	(24)	ADDRESS	4	CPICNIT	CNIT CPMASTR addr, location CSA64
36	(24)	X'24'	0	CPICNIT_C	"CPICNIT,4,C'A'" CNIT Common pool equate
40	(28)	ADDRESS	4	CPIDLSJOB	DLSJOB CPMASTR addr, subpool 229
44	(2C)	ADDRESS	4	CPIGPQE	GPQE CPMASTR addr, subpool GPQPOOL
48	(30)	ADDRESS	4	CPIEVT	EVT CPMASTR addr, location DATASPACE
48	(30)	X'30'	0	CPIEVT_C	"CPIEVT,4,C'A'" EVT Common pool equate
52	(34)	ADDRESS	4	CPIHASP	HASP CPMASTR addr, subpool HASPPOOL
56	(38)	ADDRESS	4	CPIHEDR	HEDR CPMASTR addr, subpool HEDRPOOL
60	(3C)	ADDRESS	4	CPIICE	ICE CPMASTR addr, subpool ICEPOOL
64	(40)	ADDRESS	4	CPIIRE	IRE CPMASTR addr, location CSA
64	(40)	X'40'	0	CPIIRE_C	"CPIIRE,4,C'A'" IRE Common pool equate
68	(44)	ADDRESS	4	CPIJQRB	JQRB CPMASTR addr, location DATASPACE
68	(44)	X'44'	0	CPIJQRB_C	"CPIJQRB,4,C'A'" JQRB Common pool equate
72	(48)	ADDRESS	4	CPINAT	NAT CPMASTR addr, location DATASPACE
72	(48)	X'48'	0	CPINAT_C	"CPINAT,4,C'A'" NAT Common pool equate
76	(4C)	ADDRESS	4	CPIB32K	B32K CPMASTR addr, subpool B32KPOOL

Table 98. Structure CPINDEX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
80	(50)	ADDRESS	4	CPINMAP	NMAP CPMASTR addr, subpool NMAPPOOL
84	(54)	ADDRESS	4	CPINSA	NSA CPMASTR addr, subpool NSAPOOL
88	(58)	ADDRESS	4	CPINTQ	NTQ CPMASTR addr, subpool NTQPOOL
92	(5C)	ADDRESS	4	CPIPAGE	PAGE CPMASTR addr, subpool PAGEPOOL
96	(60)	ADDRESS	4	CPIPCL	PCL CPMASTR addr, location DATASPACE
96	(60)	X'60'	0	CPIPCL_C	"CPIPCL,4,C'A'" PCL Common pool equate
100	(64)	ADDRESS	4	CPIPP	PP CPMASTR addr, subpool PPPOOL
104	(68)	ADDRESS	4	CPIPSO	PSO CPMASTR addr, location DATASPACE
104	(68)	X'68'	0	CPIPSO_C	"CPIPSO,4,C'A'" PSO Common pool equate
108	(6C)	ADDRESS	4	CPIPAD	PAD CPMASTR addr, location DATASPACE
108	(6C)	X'6C'	0	CPIPAD_C	"CPIPAD,4,C'A'" PAD Common pool equate
112	(70)	ADDRESS	4	CPIRNT	RNT CPMASTR addr, subpool RNTPOOL
116	(74)	ADDRESS	4	CPIRDT	RDT CPMASTR addr, location DATASPACE
116	(74)	X'74'	0	CPIRDT_C	"CPIRDT,4,C'A'" RDT Common pool equate
120	(78)	ADDRESS	4	CPISAPID	SAPID CPMASTR addr, location DATASPACE
120	(78)	X'78'	0	CPISAPID_C	"CPISAPID,4,C'A'" SAPID Common pool equate
124	(7C)	ADDRESS	4	CPISCWA	SCWA CPMASTR addr, subpool SCWAPOOL
128	(80)	ADDRESS	4	CPISCWADSP	SCWADSP CPMASTR addr, subpool SCWDPOOL
132	(84)	ADDRESS	4	CPISJIO	SJIO CPMASTR addr, subpool 230
136	(88)	ADDRESS	4	CPISMF	SMF CPMASTR addr, subpool SMFPOOL
140	(8C)	ADDRESS	4	CPISQD	SQD CPMASTR addr, subpool SQDPOOL
144	(90)	ADDRESS	4	CPISTAC	STAC CPMASTR addr, location DATASPACE
144	(90)	X'90'	0	CPISTAC_C	"CPISTAC,4,C'A'" STAC Common pool equate
148	(94)	ADDRESS	4	CPITBUF	TBUF CPMASTR addr, location DATASPACE
148	(94)	X'94'	0	CPITBUF_C	"CPITBUF,4,C'A'" TBUF Common pool equate
152	(98)	ADDRESS	4	CPITJEV	TJEV CPMASTR addr, subpool 229
156	(9C)	ADDRESS	4	CPITRE	TRE CPMASTR addr, subpool 230
160	(A0)	ADDRESS	4	CPIVTAM	VTAM CPMASTR addr, subpool VTAMPOOL
164	(A4)	ADDRESS	4	CPIWTO	WTO CPMASTR addr, location DATASPACE

Table 98. Structure CPINDEX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
164	(A4)	X'A4'	0	CPIWTO_C	"CPIWTO,4,C'A'" WTO Common pool equate
168	(A8)	ADDRESS	4	CPIXCWELT	XCWELT CPMASTR addr, subpool 229
172	(AC)	ADDRESS	4	CPIXCWNODE	XCWNODE CPMASTR addr, subpool 229
176	(B0)	ADDRESS	4	CPIXRQ	XRQ CPMASTR addr, subpool XRQPOOL
180	(B4)	ADDRESS	4	CPIZJC	ZJC CPMASTR addr, location CSA64
180	(B4)	X'B4'	0	CPIZJC_C	"CPIZJC,4,C'A'" ZJC Common pool equate
184	(B8)	ADDRESS	4	CPIZGLREQ	ZGLREQ CPMASTR addr, location CSA64
184	(B8)	X'B8'	0	CPIZGLREQ_C	"CPIZGLREQ,4,C'A'" ZGLREQ Common pool equate
188	(BC)	ADDRESS	4	CPIZGLMSG	ZGLMSG CPMASTR addr, location CSA64
188	(BC)	X'BC'	0	CPIZGLMSG_C	"CPIZGLMSG,4,C'A'" ZGLMSG Common pool equate
188	(BC)	X'BC'	0	CPISTEND	"*-CPISTART" Size of the CPLTABs
188	(BC)	X'C0'	0	CPISTD	"*-CPINDEX" Size of the standard cell types
188	(BC)	X'4'	0	CPIOFLEN	"4" Length of offset field
192	(C0)	SIGNED	4	CPIWSTRT(0)	Start of the work cell types
192	(C0)	ADDRESS	4	CPIWORK(0)	User-defined CPMASTER's
192	(C0)	X'F38'	0	CPIWLEN	"*-CPIWSTRT" Size of the work cell types
192	(C0)	X'FF8'	0	CPILEN	"4096-$CSBPRFX" Size of the CPINDEX table

Table 99. Cross Reference for $CPINDEX

Name	Offset	Hex Tag
CPIBAT	4	
CPIBSC	8	
CPIB32K	4C	
CPICB	C	
CPICDCT	10	
CPICDCT_C	10	10
CPICDCTQS	14	
CPICDCTQS_C	14	14
CPICDCTRNT	18	
CPICDCTRNT_C	18	18
CPICID	1C	
CPICMB	20	
CPICNIT	24	
CPICNIT_C	24	24
CPIDLSJOB	28	
CPIEMPTY	2	80
CPIEVT	30	
CPIEVT_C	30	30
CPIFLAG1	2	

Table 99. Cross Reference for $CPINDEX (continued)

Name	Offset	Hex Tag
CPIFLAG2	3	
CPIGPQE	2C	
CPIHASP	34	
CPIHEDR	38	
CPIICE	3C	
CPIIRE	40	
CPIIRE_C	40	40
CPIJQRB	44	
CPIJQRB_C	44	44
CPILEN	C0	FF8
CPILOCK	1	
CPINAT	48	
CPINAT_C	48	48
CPINDEX	0	
CPINMAP	50	
CPINSA	54	
CPINTQ	58	
CPIOFLEN	BC	4
CPIPAD	6C	
CPIPAD_C	6C	6C
CPIPAGE	5C	
CPIPCL	60	
CPIPCL_C	60	60
CPIPP	64	
CPIPSO	68	
CPIPSO_C	68	68
CPIRDT	74	
CPIRDT_C	74	74
CPIRNT	70	
CPISAPID	78	
CPISAPID_C	78	78
CPISCWA	7C	
CPISCWADSP	80	
CPISJIO	84	
CPISMF	88	
CPISQD	8C	
CPISTAC	90	
CPISTAC_C	90	90
CPISTART	4	
CPISTD	BC	C0
CPISTEND	BC	BC
CPITBUF	94	
CPITBUF_C	94	94
CPITJEV	98	
CPITRE	9C	
CPIVNUM	0	1
CPIVRSN	0	
CPIVTAM	A0	
CPIWLEN	C0	F38

Table 99. Cross Reference for $CPINDEX (continued)

Name	Offset	Hex Tag
CPIWORK	C0	
CPIWSTRT	C0	
CPIWTO	A4	
CPIWTO_C	A4	A4
CPIXCWELT	A8	
CPIXCWNODE	AC	
CPIXRQ	B0	
CPIZGLMSG	BC	
CPIZGLMSG_C	BC	BC
CPIZGLREQ	B8	
CPIZGLREQ_C	B8	B8
CPIZJC	B4	
CPIZJC_C	B4	B4
CPI1CSA	2	40

Chapter 42. $CPMASTR Information

$CPMASTR Programming Interface Information

$CPMASTR is a programming interface.

$CPMASTR Heading Information

Common Name:	Cell Pool Master Element
Macro ID:	$CPMASTR
DSECT Name:	CPMASTR
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'CPMR' Offset: CPMID-CPMASTR Length: 4
Storage Attributes:	Subpool: 231 Key: 1 Residency: Extended private
Size:	See CPMSIZE
Created by:	CPBUILD Routine in HASCPOOL (Main Task and User environments)
Pointed to by:	The addresses of the $CPINDEX Table
Serialization:	Compare and Swap logic will be used to insert a CPMASTR element in the JES2 pre-defined cell types. To insert a user-defined cell type, a lock (CPILOCK) must be obtained before the CPMASTR element for that type can be inserted.
Function:	The Cell Pool Master Element contains information on the Cell Pool ID, the size of the cells, the maximum number of cells allowed in this cell pool, etc. See mapping for details.

$CPMASTR mapping

Table 100. Structure CPMASTR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CPMASTR	Cell Pool Master Element
0	(0)	CHARACTER	4	CPMID	CPMASTR Identifier
4	(4)	BITSTRING	1	CPMVRSN	CPMASTER Version
4	(4)	X'2'	0	CPMVNUM	"2" Version number
5	(5)	BITSTRING	1	CPMSUBP2	Cell subpool (not JES2 AS)
6	(6)	BITSTRING	1	CPMSUBP	Subpool for storage (set to CPMSUBP2 if build is not done in the JES2 address space).
7	(7)	BITSTRING	1	CPMKEY	Cell Storage Key
8	(8)	SIGNED	4	CPMOFFST	CPINDEX offset for CPMASTR
12	(C)	CHARACTER	8	CPMTYPE	Cell Type
20	(14)	CHARACTER	8	CPMDSPN	Data space name
28	(1C)	SIGNED	4	CPMCSIZE	Cell Size
32	(20)	BITSTRING	1	CPMFLAG1	CPMASTR processing flags

Table 100. Structure CPMASTR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		CPM1FALL	"B'10000000'" FREEMAIN setup storage
		.1..		CPM1ALTP	"B'01000000'" Alternate cell pool
		..1.		CPM1REAL	"B'00100000'" The real CPMASTR
		...1		CPM1PRIM	"B'00010000'" Primary extent allocated
33	(21)	BITSTRING	1	CPMFLAG2	CPMASTR pool attribute flag
		1...		CPM2CP64	"B'10000000'" Storage is above the bar
		.1..		CPM2CP31	"B'01000000'" Storage is above the line
		..1.		CPM2CP24	"B'00100000'" Storage is below the line
		...1		CPM2DSP	"B'00010000'" Cell pool in a data space
		.... 1...		CPM2CSA	"B'00001000'" Cell pool is in common
		.... .1..		CPM2NCLR	"B'00000100'" Don't clear cell storage between uses (up to caller to clear)
		.... ..1.		CPM2RANY	"B'00000010'" Real storage can be above
		1		CPM2GDBS	"B'00000001'" Cell Don't have grd bytes
34	(22)	BITSTRING	1	CPMFLAG3	CPMASTR data space flags (Flags must be the same as in DSWAIFL2)
		1...		CPM3FPRO	"B'10000000'" FPROT=YES specified
		.1..		CPM3NPRO	"B'01000000'" FPROT=NO specified
		..1.		CPM3MSTR	"B'00100000'" OWNER=MASTER specified
		...1		CPM3CURR	"B'00010000'" OWNER=CURRENT specified
		.... 1...		CPM3AUX	"B'00001000'" OWNER=AUX specified
		.... .1..		CPM3LOCL	"B'00000100'" SCOPE=LOCAL specified
		.... ..1.		CPM3ALL	"B'00000010'" SCOPE=ALL specified
		1		CPM3COMM	"B'00000001'" SCOPE=COMMON specified
35	(23)	BITSTRING	1	CPMFLAG4	CPMASTR pool attribute flag
		1...		CPM4CLRG	"B'10000000'" Clear storage on GET only
36	(24)	SIGNED	4	CPMGEND(0)	End of general CPMASTR
36	(24)	SIGNED	4	CPMLIMIT	Max limit for num of cell
40	(28)	SIGNED	4	CPMPRMSZ	Primary extent size (cells)
44	(2C)	SIGNED	4	CPMSECSZ	Secondary ext size (cells)
44	(2C)	X'30'	0	CPMTSIZE	"*-CPMASTR" CPMASTR portion that maps over CPLTAB
48	(30)	SIGNED	2	CPMLEN	Length of storage area (Includes CPMASTR and a CPAB that follows)
50	(32)	SIGNED	2		Reserved for future use

Table 100. Structure CPMASTR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
52	(34)	ADDRESS	4	CPMCPAB	CPAB addr
56	(38)	ADDRESS	4	CPMCPINX	CPINDEX addr
60	(3C)	ADDRESS	4	CPMTCBAD	TCB Address to use with STORAGE OBTAIN
64	(40)	ADDRESS	8	CPMCPEBE	Addr to first CPEBE
72	(48)	ADDRESS	8	CPMCPEDS	Chain of CPEBEs that represent disconnected extents (CDS to modify)
80	(50)	SIGNED	4	CPMALLOC	Num of allocated cells
84	(54)	BITSTRING	8	CPM64TOK	User token for shared 64 pl
		The following 3 fields are used if the cell pool is in a data space.			
92	(5C)	ADDRESS	4	CPMDSB	DSB address
96	(60)	DBL WORD	8	CPMDSPOL(0)	+-- Dataspace work storage pool
96	(60)	ADDRESS	4	CPMDSSTR	| Addr of available Block of | storage
100	(64)	SIGNED	4	CPMDSLEN	+-- Length of storage block
100	(64)	X'68'	0	CPMSIZE	"*-CPMASTR" Size of the CPMASTR

Table 101. Cross Reference for $CPMASTR

Name	Offset	Hex Tag
CPMALLOC	50	
CPMASTR	0	
CPMCPAB	34	
CPMCPEBE	40	
CPMCPEDS	48	
CPMCPINX	38	
CPMCSIZE	1C	
CPMDSB	5C	
CPMDSLEN	64	
CPMDSPN	14	
CPMDSPOL	60	
CPMDSSTR	60	
CPMFLAG1	20	
CPMFLAG2	21	
CPMFLAG3	22	
CPMFLAG4	23	
CPMGEND	24	
CPMID	0	C3D7D4D9
CPMKEY	7	
CPMLEN	30	
CPMLIMIT	24	
CPMOFFST	8	
CPMPRMSZ	28	
CPMSECSZ	2C	
CPMSIZE	64	68
CPMSUBP	6	
CPMSUBP2	5	

Table 101. Cross Reference for $CPMASTR (continued)

Name	Offset	Hex Tag
CPMTCBAD	3C	
CPMTSIZE	2C	30
CPMTYPE	C	
CPMVNUM	4	2
CPMVRSN	4	
CPM1ALTP	20	40
CPM1FALL	20	80
CPM1PRIM	20	10
CPM1REAL	20	20
CPM2CP24	21	20
CPM2CP31	21	40
CPM2CP64	21	80
CPM2CSA	21	8
CPM2DSP	21	10
CPM2GDBS	21	1
CPM2NCLR	21	4
CPM2RANY	21	2
CPM3ALL	22	2
CPM3AUX	22	8
CPM3COMM	22	1
CPM3CURR	22	10
CPM3FPRO	22	80
CPM3LOCL	22	4
CPM3MSTR	22	20
CPM3NPRO	22	40
CPM4CLRG	23	80
CPM64TOK	54	

Chapter 43. $CPPWORK Information

$CPPWORK Programming Interface Information

$CPPWORK is a programming interface.

$CPPWORK Heading Information

Common Name: CPOOL Query Pool Work Area Mapping
Macro ID: $CPPWORK
DSECT Name: CPPWPARM
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: None
Storage Attributes:
```
Subpool:    any
Key:        1
Residency: Extended private in any address space using JES2
services.  Virtual and real storage can be anywhere.
```

Size: See CPPWSIZE
Created by: User of the $CPOOL query pool (QPOOL) service
Pointed to by: Register 0 on entry to the CPQPOOL service
Serialization: None required
Function: This mapping is used to map over the storage passed by the caller to use $CPOOL QPOOL service. Information is passed back via this storage.

$CPPWORK mapping

Table 102. Structure CPPWPARM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CPPWPARM	, CPOOL Query Pool Work Area
0	(0)	CHARACTER	8	CPPWUSER	User name or cell type
8	(8)	DBL WORD	8	CPPWCSIZ_64	Cell size
8	(8)	X'C'	0	CPPWCSIZ	"CPPWCSIZ_64+4,4,C'F'" 32-bit version
16	(10)	DBL WORD	8	CPPWCNUM_64	Total number of cells
16	(10)	X'14'	0	CPPWCNUM	"CPPWCNUM_64+4,4,C'F'" 32-bit version
24	(18)	DBL WORD	8	CPPWACNM_64	Number of available cells
24	(18)	X'1C'	0	CPPWACNM	"CPPWACNM_64+4,4,C'F'" 32-bit version
32	(20)	DBL WORD	8	CPPWNMXT_64	Number of extents
32	(20)	X'24'	0	CPPWNMXT	"CPPWNMXT_64+4,4,C'F'" 32-bit version
40	(28)	SIGNED	4	CPPWRC	MVS service return code
44	(2C)	SIGNED	4	CPPWALET	ALET to access pool
44	(2C)	X'30'	0	CPPWSIZE	"*-CPPWPARM" Size of parmlist

$CPPWORK mapping

Table 103. Cross Reference for $CPPWORK

Name	Offset	Hex Tag
CPPWACNM	18	1C
CPPWACNM_64	18	
CPPWALET	2C	
CPPWCNUM	10	14
CPPWCNUM_64	10	
CPPWCSIZ	8	C
CPPWCSIZ_64	8	
CPPWNMXT	20	24
CPPWNMXT_64	20	
CPPWPARM	0	
CPPWRC	28	
CPPWSIZE	2C	30
CPPWUSER	0	

Chapter 44. $CPXWORK Information

$CPXWORK Programming Interface Information

$CPXWORK is a programming interface.

$CPXWORK Heading Information

Common Name: CPOOL Query Extent Work Area Mapping
Macro ID: $CPXWORK
DSECT Name: CPXWPARM
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: None
Storage Attributes: Subpool: any
Key: 1
Residency: Extended private in any address space using JES2 services. Virtual and real storage can be anywhere.

Size: See CPXWSIZE
Created by: Caller of the $CPOOL query extent (QEXT) service
Pointed to by: Register 0 on entry to the CPQEXT service
Serialization: None required
Function: This mapping is used to map over the storage passed by the caller to use $CPOOL QEXT service. Information is passed back via this storage.

$CPXWORK mapping

Table 104. Structure CPXWPARM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CPXWPARM	, CPOOL Query Ext Work Area DSECT
0	(0)	SIGNED	4	CPXWEXTN	Extent number
4	(4)	SIGNED	4	CPXWSTAT	Extent status
8	(8)	ADDRESS	8	CPXWCPEB_64	CPEB addr for this extent
8	(8)	X'C'	0	CPXWCPEB	"CPXWCPEB_64+4,4,C'A'" 31-bit version
16	(10)	DBL WORD	8	CPXWEBLN_64	Length of CPEB in bytes
16	(10)	X'14'	0	CPXWEBLN	"CPXWEBLN_64+4,4,C'F'" 32-bit version
24	(18)	ADDRESS	8	CPXWSTOR_64	Storage address
24	(18)	X'1C'	0	CPXWSTOR	"CPXWSTOR_64+4,4,C'A'" 31-bit version
32	(20)	DBL WORD	8	CPXWSTSZ_64	Storage size
32	(20)	X'24'	0	CPXWSTSZ	"CPXWSTSZ_64+4,4,C'F'" 32-bit version
40	(28)	DBL WORD	8	CPXWCELL_64	Total number of cells in ext.
40	(28)	X'2C'	0	CPXWCELL	"CPXWCELL_64+4,4,C'F'" 32-bit version
48	(30)	DBL WORD	8	CPXWAVAI_64	Number of available cells

Table 104. Structure CPXWPARM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
48	(30)	X'34'	0	CPXWAVAI	"CPXWAVAI_64+4,4,C'F'" 32-bit version
56	(38)	SIGNED	4	CPXWRC	MVS service return code
56	(38)	X'3C'	0	CPXWSIZE	"*-CPXWPARM" Size of parmlist

Table 105. Cross Reference for $CPXWORK

Name	Offset	Hex Tag
CPXWAVAI	30	34
CPXWAVAI_64	30	
CPXWCELL	28	2C
CPXWCELL_64	28	
CPXWCPEB	8	C
CPXWCPEB_64	8	
CPXWEBLN	10	14
CPXWEBLN_64	10	
CPXWEXTN	0	
CPXWPARM	0	
CPXWRC	38	
CPXWSIZE	38	3C
CPXWSTAT	4	
CPXWSTOR	18	1C
CPXWSTOR_64	18	
CPXWSTSZ	20	24
CPXWSTSZ_64	20	

Chapter 45. $CSVPARM Information

$CSVPARM Programming Interface Information

$CSVPARM is a programming interface.

$CSVPARM Heading Information

Common Name:	CSV $$$$LOAD/$$$$DEL Parm List
Macro ID:	$CSVPARM
DSECT Name:	CSVP
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'CSVP' Offset: CSVPID-CSVP Length: 4
Storage Attributes:	Subpool: 0 Key: 1 Residency: Virtual is in 31 bit storage in the JES2 address space. Real can be anywhere in 64 bit storage.
Size:	See CSVPLEN
Created by:	The CSVP is created before $$$$LOAD or $$$$DEL is called.
Pointed to by:	General register 1 on entry to the $$$$LOAD or $$$$DEL routine.
Serialization:	None required.
Function:	This DSECT provides the mapping for the parameters passed to the $$$$LOAD or $$$$DEL service routine.

$CSVPARM mapping

Table 106. Structure CSVP

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CSVP	
0	(0)	CHARACTER	4	CSVPID	Eye catcher
4	(4)	SIGNED	2	CSVPSIZE	Size of parameter list
6	(6)	ADDRESS	1	CSVPVER	Version number for base section
6	(6)	X'1'	0	CSVPVERN	"1" Version number equate for base
7	(7)	ADDRESS	1	CSVPTYPE	Routine identifier
7	(7)	X'1'	0	CSVPLOAD	"1" $$$$LOAD parameter list
7	(7)	X'2'	0	CSVPDEL	"2" $$$$DEL parameter list
8	(8)	ADDRESS	4	CSVPLMT	Related LMT address
12	(C)	ADDRESS	4	CSVPMIT	Related module/MIT address
16	(10)	SIGNED	4	(4)	Reserved
32	(20)	DBL WORD	8	CSVPORG(0)	Start of routine specific area
$$$$LOAD parameter list					
32	(20)	BITSTRING	1	CSVPLCMD	Reason for load
32	(20)	X'0'	0	CSVPLCJS	"0" JES2 performing load (internal)

Table 106. Structure CSVP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
32	(20)	X'1'	0	CSVPLCIN	"1" LOAD init statement
32	(20)	X'2'	0	CSVPLCAL	"2" $ADD LOAD command
32	(20)	X'3'	0	CSVPLCRL	"3" $T LOAD,REFRESH command
33	(21)	BITSTRING	1	CSVPLLOC	Where the module was loaded
33	(21)	X'1'	0	CSVPLPVT	"1" Loaded to JES2 private
33	(21)	X'2'	0	CSVPLCSA	"2" Loaded to common storage
33	(21)	X'3'	0	CSVPLLPA	"3" Loaded to LPA
34	(22)	BITSTRING	1	CSVPLMSC	Miscellaneous flags
		1...		CSVPLWPC	"B'10000000'" $$$$LOAD was previously called
35	(23)	BITSTRING	1		Reserved
36	(24)	ADDRESS	4	CSVPLOLD	For a $TLOAD REFRESH, LMT of module being replaced
		CSVPL$DR contains the address of an additional $$$$DEL type routine (name does not matter) that will get control when the module is deleted (before the normal $$$$DEL routine). This routine can be used in the case of a force delete of a module where the storage has already been freed. In particular, when JES2 detects that MVS has deleted the module from LPA. Because the module storage no longer exists, this routine should be in a separate memory location.			
40	(28)	ADDRESS	4	CSVPL$DR	Addr of an additional $$$$DEL rtn
		$$$$LOAD return codes			
40	(28)	X'0'	0	CSVPLROK	"0" Continue load
		$$$$DEL parameter list			
32	(20)	BITSTRING	1	CSVPDCND	Reason for delete
32	(20)	X'0'	0	CSVPDCJS	"0" JES2 performing delete (internal)
32	(20)	X'1'	0	CSVPDCIN	"1" LOAD init statement
32	(20)	X'2'	0	CSVPDCDL	"2" $DEL LOAD command
32	(20)	X'3'	0	CSVPDCRL	"3" $T LOAD,REFRESH command
32	(20)	X'4'	0	CSVPDCTR	"4" $PJES2 processing
32	(20)	X'5'	0	CSVPDCSC	"5" Secondary call
33	(21)	BITSTRING	1	CSVPDIND	Call flags
		1...		CSVPDSND	"B'10000000'" Second call (after a RC 4/8)
		.1..		CSVPDFRC	"B'01000000'" Module being force deleted
		..1.		CSVPDFRE	"B'00100000'" Storage for module has been freed
34	(22)	BITSTRING	2		Reserved
36	(24)	ADDRESS	4	CSVPDNEW	For a $TLOAD REFRESH, LMT of new module that was loaded

Table 106. Structure CSVP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		$$$$DEL return codes 0 - Continue deletion normally. This routine will not be called again. 4 - Do not delete the module now. JES2 will delete dynamic tables and exit routines but will not free the storage. This service will be called again under the MISC PCE once JES2 believes all users of the module are gone (with CSVPDSND set). If the second call again give a return code 4, $$$$DEL will be called again at about a 5 minute interval. JES2 may make a force delete call at any time. 8 - Same processing as RC=4 except that JES2 will not make a second call under the MISC PCE. A second call will be made in the case of a force delete, or after a JES2 hot start (for CSA or LPA modules).			
36	(24)	X'0'	0	CSVPDROK	"0" Continue delete
36	(24)	X'4'	0	CSVPDRNN	"4" Do not physically delete module now
36	(24)	X'8'	0	CSVPDRND	"8" Never physically delete module
48	(30)	DBL WORD	8	(0)	Ensure alignment
48	(30)	X'30'	0	CSVPLEN	"*-CSVP" Length of CSV parm list

Table 107. Cross Reference for $CSVPARM

Name	Offset	Hex Tag
CSVP	0	
CSVPDCDL	20	2
CSVPDCIN	20	1
CSVPDCJS	20	0
CSVPDCND	20	
CSVPDCRL	20	3
CSVPDCSC	20	5
CSVPDCTR	20	4
CSVPDEL	7	2
CSVPDFRC	21	40
CSVPDFRE	21	20
CSVPDIND	21	
CSVPDNEW	24	
CSVPDRND	24	8
CSVPDRNN	24	4
CSVPDROK	24	0
CSVPDSND	21	80
CSVPID	0	C3E2E5D7
CSVPL$DR	28	
CSVPLCAL	20	2
CSVPLCIN	20	1
CSVPLCJS	20	0
CSVPLCMD	20	
CSVPLCRL	20	3

Table 107. Cross Reference for $CSVPARM (continued)

Name	Offset	Hex Tag
CSVPLCSA	21	2
CSVPLEN	30	30
CSVPLLOC	21	
CSVPLLPA	21	3
CSVPLMSC	22	
CSVPLMT	8	
CSVPLOAD	7	1
CSVPLOLD	24	
CSVPLPVT	21	1
CSVPLROK	28	0
CSVPLWPC	22	80
CSVPMIT	C	
CSVPORG	20	
CSVPSIZE	4	
CSVPTYPE	7	
CSVPVER	6	
CSVPVERN	6	1

Chapter 46. $CTOKEN Information

$CTOKEN Heading Information

Common Name:	Client Token mapping
Macro ID:	$CTOKEN
DSECT Name:	CTOKEN ($CTOKEN is part of the IAZCTKN DSECT)
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	None
Storage Attributes:	Subpool: See IAZCTKN Key: See IAZCTKN Residency: See IAZCTKN
Size:	See IAZCTKN
Created by:	See IAZCTKN
Pointed to by:	This DSECT maps the field CTKNJESD in the IAZCTKN data area
Serialization:	None required
Function:	Maps the JES2 dependent portion of the client token (mapped by IAZCTKN). The client token may be returned as a result of: o A dynamic allocation request - Client token o As part of an ENF parameter list - Client token o Extended status (terse) - JOE token o Extended status (verbose) - data set token o SAPI putget - data set token The JES2 dependent portion of the client token contains the information that JES2 needs to uniquely identify and locate the data set represented by the client token.

$CTOKEN mapping

Table 108. Structure CTOKEN

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CTOKEN	, HASP Client Token DSECT
16	(10)	SIGNED	4	CTK2JOBN	A.Job number
20	(14)	BITSTRING	4	CTK2JOBK	A.Job identifier key
24	(18)	SIGNED	4	CTK2DSID	CD.Data set number
28	(1C)	BITSTRING	4	CTK2MTTR	CD.IOT MTTR for data set
28	(1C)	X'1C'	0	CTK2MQTR_LO	"CTK2MTTR,L'CTK2MTTR,C'X'" CD.Low 4 bytes of MQTR if CTK21MQT is set
32	(20)	CHARACTER	12	CTK2JOEI(0)	J.JOE Identification block
32	(20)	CHARACTER	8	CTK2JONM	J.JOE's output group name
40	(28)	SIGNED	2	CTK2JOI1	J.JOE'S output group id1
42	(2A)	SIGNED	2	CTK2JOI2	J.JOE'S output group id2
44	(2C)	SIGNED	4	CTK2PDBO	D.Offset of PDDB within IOT
48	(30)	SIGNED	4	CTK2JOEN	J.Work JOE index
52	(34)	CHARACTER	8	CTK2JDVT	D.From JCTJDVT
60	(3C)	SIGNED	1	CTK2LINC	D.From JCTLINCT

Table 108. Structure CTOKEN (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
61	(3D)	SIGNED	2	CTK2DSIN	CD.Data set instance number
63	(3F)	BITSTRING	14		Reserved
77	(4D)	BITSTRING	2	CTK2MQTR_HI	CD.High 2 bytes of MQTR if CTK21MQT is set
79	(4F)	BITSTRING	1	CTK2FLG1	A.Flag byte
		1...		CTK21TCT	"B'10000000'" C.Token represents a data set (Created as a result of a dynamic allocation request)
		.1..		CTK21TJO	"B'01000000'" J.Token represents a JOE rather than a data set
		..1.		CTK21TSA	"B'00100000'" D.Token represents a data set (Returned as a result of a SAPI Put/Get Request, a verbose extended status or an FSS GETDS)
		...1		CTK21MQT	"B'00010000'" C.MQTR provided
79	(4F)	X'40'	0	CTK2SIZE	"*-CTKNJESD" Length of HASP section
80	(50)	ADDRESS	2	(0)	Generate assembly error if CTK2SIZE exceeds L'CTKNJESD
		The following equates provide values for the Bit Map based on which parts of the Client Token are valid to be used in comparisions. Two equates are required to map the Bit Map (each equate maps 32 bits). Mappings for the first 32 bits			
		....		CTK2B_JOBN	"B'11110000000000000000000000000000',4,C'B'"
		....		CTK2B_JOBK	"B'00001111000000000000000000000000',4,C'B'"
80	(50)	BITSTRING	0	CTK2B_DSID	"B'00000000111100000000000000000000',4,C'B'"
80	(50)	BITSTRING	0	CTK2B_MTTR	"B'00000000000011110000000000000000',4,C'B'"
80	(50)	BITSTRING	0	CTK2B_JONM	"B'00000000000000001111111100000000',4,C'B'"
		11..		CTK2B_JOI1	"B'00000000000000000000000011000000',4,C'B'"
		..11		CTK2B_JOI2	"B'00000000000000000000000000110000',4,C'B'"
80	(50)	X'FFF0'	0	CTK2B_JOEI	"CTK2B_JONM+CTK2B_JOI1+CTK2B_JOI2,4,C'B'"
		 1111		CTK2B_PDBO	"B'00000000000000000000000000001111',4,C'B'"
		Mappings for the second 32 bits			
		....		CTK2B_JOEN	"B'11110000000000000000000000000000',4,C'B'"
80	(50)	BITSTRING	0	CTK2B_JDVT	"B'00001111111100000000000000000000',4,C'B'"
80	(50)	BITSTRING	0	CTK2B_LINC	"B'00000000000010000000000000000000',4,C'B'"
80	(50)	BITSTRING	0	CTK2B_DSIN	"B'00000000000011000000000000000000',4,C'B'"
		1		CTK2B_FLG1	"B'00000000000000000000000000000001',4,C'B'"
		.... .11.		CTK2B_MQTR	"B'00000000000000000000000000000110',4,C'B'"
		CTK2BCT1 and CTK2BCT2 indicate that the job number, job key, data set number are valid in the Client Token. CTK2BJO1 and CTK2BJO2 indicate that the job number, job key and JOE Group Name are valid in the JOE Token. CTK2BJB1 and CTK2BJB2 indicate that the job number and job key are valid in the Client Token (token is a job level token). CTK2BDS1 and CTK2BDS2 indicate that the job number, job key, data set number and PDDB offset are valid in the data set token.			

Table 108. Structure CTOKEN (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
80	(50)	X'F00000'	0	CTK2BCT1	"CTK2B_JOBN+CTK2B_JOBK+CTK2B_DSID,4,C'B'"
		....		CTK2BCT2	"B'00000000000000000000000000000000',4,C'B'"
80	(50)	X'FFF0'	0	CTK2BJO1	"CTK2B_JOBN+CTK2B_JOBK+CTK2B_JOEI,4,C'B'"
		....		CTK2BJO2	"B'00000000000000000000000000000000',4,C'B'"
80	(50)	X'0'	0	CTK2BJB1	"CTK2B_JOBN+CTK2B_JOBK,4,C'B'"
		....		CTK2BJB2	"B'00000000000000000000000000000000',4,C'B'"
80	(50)	X'F0000F'	0	CTK2BDS1	"CTK2B_JOBN+CTK2B_JOBK+CTK2B_DSID+CTK2B_PDBO,4
		....		CTK2BDS2	"B'00000000000000000000000000000000',4,C'B'"

Table 109. Cross Reference for $CTOKEN

Name	Offset	Hex Tag
CTK2B_DSID	50	F00000
CTK2B_DSIN	50	60000
CTK2B_FLG1	50	1
CTK2B_JDVT	50	F00000
CTK2B_JOBK	50	0
CTK2B_JOBN	50	0
CTK2B_JOEI	50	FFF0
CTK2B_JOEN	50	0
CTK2B_JOI1	50	C0
CTK2B_JOI2	50	30
CTK2B_JONM	50	FF00
CTK2B_LINC	50	80000
CTK2B_MQTR	50	6
CTK2B_MTTR	50	F0000
CTK2B_PDBO	50	F
CTK2BCT1	50	F00000
CTK2BCT2	50	0
CTK2BDS1	50	F0000F
CTK2BDS2	50	0
CTK2BJB1	50	0
CTK2BJB2	50	0
CTK2BJO1	50	FFF0
CTK2BJO2	50	0
CTK2DSID	18	
CTK2DSIN	3D	
CTK2FLG1	4F	
CTK2JDVT	34	
CTK2JOBK	14	
CTK2JOBN	10	
CTK2JOEI	20	
CTK2JOEN	30	
CTK2JOI1	28	
CTK2JOI2	2A	
CTK2JONM	20	
CTK2LINC	3C	
CTK2MQTR_HI	4D	
CTK2MQTR_LO	1C	1C

Table 109. Cross Reference for $CTOKEN (continued)

Name	Offset	Hex Tag
CTK2MTTR	1C	
CTK2PDBO	2C	
CTK2SIZE	4F	40
CTK21MQT	4F	10
CTK21TCT	4F	80
CTK21TJO	4F	40
CTK21TSA	4F	20
CTOKEN	0	

Chapter 47. $CTW Information

$CTW Heading Information

Common Name:	Checkpoint Trace Work Area DSECT
Macro ID:	$CTW
DSECT Name:	CTW
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	CTW Offset: CTWLID Length: L'CTWLID
Storage Attributes:	Subpool: 0 Key: 1 Residency: Virtual and real storage are above 16M, in the private storage of the JES2 address space.
Size:	See CTWFXEND + (Number of CTENTS)*CTWCTLEN
Created by:	JES2 Initialization
Pointed to by:	CKWCTWA field of the CKW data area
Serialization:	Normal PCE dispatch serialization
Function:	The $CTW maps a work area used by the Checkpoint PCE to save performance trace information.

$CTW mapping

Table 110. Structure CTW

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CTW	
0	(0)	CHARACTER	4	CTWLID	CTW IDENTIFIER
4	(4)	BITSTRING	1	CTWVER	CTW VERSION IDENTIFIER
4	(4)	X'3'	0	CTWVERN	"3" CTW version number
5	(5)	BITSTRING	1	CTWSERV	Service indicator
5	(5)	X'1'	0	CTWREAD1	"1" Service is READ1
5	(5)	X'2'	0	CTWREAD2	"2" Service is READ2
5	(5)	X'3'	0	CTWPRIMW	"3" Service is primary write
5	(5)	X'4'	0	CTWINTW	"4" Service is intermed. wrt
5	(5)	X'5'	0	CTWFINW	"5" Service is final write
5	(5)	X'6'	0	CTWFMT	"6" Service is format
5	(5)	X'7'	0	CTWRECON	"7" Service is CKPT reconfig
6	(6)	BITSTRING	1	CTWFLAG1	Flags
		1...		CTW1CYMG	"B'10000000'" Cycle management on
		.1..		CTW1PRIO	"B'01000000'" This data was affected by priority aging
		..1.		CTW1CKDS	"B'00100000'" 0 if I/O to CKPT1, 1 if I/O to CKPT2
		...1		CTW1CKCF	"B'00010000'" CKPT is on CF
		.... 1...		CTW1DUAL	"B'00001000'" CKPT is in DUAL mode
		.... .1..		CTW1EWRT	"B'00000100'" CKPT write started early

Table 110. Structure CTW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
7	(7)	BITSTRING	1		Reserved for future use
8	(8)	SIGNED	2	CTWDATA(0)	START OF CTW DATA
		Subtask performance statistics This area is defined the same in $DTECKDA, $DTECKCF and $CTW.			
8	(8)	SIGNED	4	CTWSTSTR(0)	Start of statistics
8	(8)	DBL WORD	8	CTWSTTIM	Wall clock to complete req
16	(10)	DBL WORD	8	CTWSTCPU	CPU time to complete req
24	(18)	SIGNED	4	CTWSTIOC	I/O count for request
28	(1C)	SIGNED	4	CTWSTCNT	CB count for request
28	(1C)	X'8'	0	CTWSTERF	"CTWSTSTR,*-CTWSTSTR" Field for all statistics
		End of subtask performance statistics			
32	(20)	DBL WORD	8	CTWIOSTR	I/O START TIME
40	(28)	DBL WORD	8	CTWIOSTP	I/O STOP TIME
48	(30)	SIGNED	4	CTWCKPWT	NUM OF TIMES THE CKPT PCE $WAITED BEFORE BEING DISPATCHED
52	(34)	SIGNED	4	CTWCLNPA	NUMBER OF PAGES ALLOCATED TO CHANGE LOG
56	(38)	SIGNED	4	CTWCLNPU	NUM OF USED PAGES IN CHANGE LOG
60	(3C)	SIGNED	4	CTWCLPR1	NUMBER OF CH LOG PAGES READ IN
64	(40)	SIGNED	4	CTWMINHL	MINHOLD VALUE
68	(44)	SIGNED	4	CTWMINDR	MINDORM VALUE
72	(48)	SIGNED	4	CTWMAXDR	MAXDORM VALUE
76	(4C)	SIGNED	4	CTWCLNCB	NUMBER OF CONTROL BLOCKS IN THE CHANGE LOG
80	(50)	SIGNED	4	CTWNMPCE	NUMBER OF PCES DEFINED
84	(54)	SIGNED	4	CTWWTPCE	NUMBER OF PCES WAITING FOR CKPT
88	(58)	SIGNED	4	CTWMXTIM	MAXIMUM AMOUNT OF TIME A PCE HAS WAITED FOR CHECKPOINT
92	(5C)	SIGNED	4	CTWAVTIM	AVERAGE AMOUNT OF TIME A PCE HAS WAITED FOR CHECKPOINT
96	(60)	SIGNED	4	CTWCLNBU	NUM OF USED BYTES IN THE CH LOG
100	(64)	SIGNED	4	CTWHLTIM	CHECKPOINT HELD TIME
104	(68)	SIGNED	4	CTWDRMTM	CHECKPOINT DORMANCY TIME
108	(6C)	SIGNED	4	CTWPGNCL	PAGES TRANS. IF NO CH LOG
112	(70)	SIGNED	4	CTWLEVNM	LEVEL NUMBER OF DATASET
		Performance data measures for the JES2 checkpoint trace records. The measures are for, at most, one checkpoint cycle (not all measurements are collected for an entire checkpoint cycle).			
116	(74)	SIGNED	4	CTWCKPTN	Number of $CKPTs issued
120	(78)	SIGNED	4	CTWMVSWT	Amount of wall-clock time in microseconds that JES2 is idle (MVS WAIT)
124	(7C)	SIGNED	4	CTWQSUSE	Amount of wall-clock time in microseconds that PCEs were actively using the queues ($QSUSE)
128	(80)	SIGNED	4	CTWQSMAX	Time between getting CKPT and most recent $WAIT by PCE with $QSUSE (in microsecs)

Table 110. Structure CTW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
132	(84)	SIGNED	4	CTWWTTM	Total PCE wait time before obtaining the queues (in units of 16 microseconds)
136	(88)	SIGNED	4	CTWPAINR	$QSUSE pain rate
140	(8C)	SIGNED	4	CTWPAINV	$QSUSE pain value
144	(90)	SIGNED	4	CTWOHV	CKPT access overhead (in microsecs)
148	(94)	SIGNED	4	CTWOPTCK	Number of $CKPTs (CALEs) skipped due to CKPT optimization
152	(98)	SIGNED	4	CTWOPT4K	Number of 4K pages skipped due to CKPT optimization
160	(A0)	DBL WORD	8	CTWMSBTM	KMAINSB wall clock time
168	(A8)	DBL WORD	8	CTWMSBCP	KMAINSB CPU time
176	(B0)	SIGNED	2	CTWKITNM	Number of CTENT entries
178	(B2)	SIGNED	2		Reserved for future use
178	(B2)	X'B4'	0	CTWFXEND	"*-CTW" END OF FIXED PORTION OF CTW
180	(B4)	SIGNED	4	CTWCTNTS(0)	START OF CTENT INFORMATION:
180	(B4)	X'0'	0	CTWCTNMP	"0,4" NUM OF PAGES FOR THIS CTENT
180	(B4)	X'4'	0	CTWCTNMC	"4,4" NUMBER OF CONTROL BLOCKS FOR THIS CTENT
180	(B4)	X'8'	0	CTWCTLEN	"L'CTWCTNMP+L'CTWCTNMC" LENGTH OF CTW CTENT ENTRY

Table 111. Cross Reference for $CTW

Name	Offset	Hex Tag
CTW	0	
CTWAVTIM	5C	
CTWCKPTN	74	
CTWCKPWT	30	
CTWCLNBU	60	
CTWCLNCB	4C	
CTWCLNPA	34	
CTWCLNPU	38	
CTWCLPR1	3C	
CTWCTLEN	B4	8
CTWCTNMC	B4	4
CTWCTNMP	B4	0
CTWCTNTS	B4	
CTWDATA	8	
CTWDRMTM	68	
CTWFINW	5	5
CTWFLAG1	6	
CTWFMT	5	6
CTWFXEND	B2	B4
CTWHLTIM	64	
CTWINTW	5	4
CTWIOSTP	28	
CTWIOSTR	20	

Table 111. Cross Reference for $CTW (continued)

Name	Offset	Hex Tag
CTWKITNM	B0	
CTWLEVNM	70	
CTWLID	0	C3E3E640
CTWMAXDR	48	
CTWMINDR	44	
CTWMINHL	40	
CTWMSBCP	A8	
CTWMSBTM	A0	
CTWMVSWT	78	
CTWMXTIM	58	
CTWNMPCE	50	
CTWOHV	90	
CTWOPTCK	94	
CTWOPT4K	98	
CTWPAINR	88	
CTWPAINV	8C	
CTWPGNCL	6C	
CTWPRIMW	5	3
CTWQSMAX	80	
CTWQSUSE	7C	
CTWREAD1	5	1
CTWREAD2	5	2
CTWRECON	5	7
CTWSERV	5	
CTWSTCNT	1C	
CTWSTCPU	10	
CTWSTERF	1C	8
CTWSTIOC	18	
CTWSTSTR	8	
CTWSTTIM	8	
CTWVER	4	
CTWVERN	4	3
CTWWTPCE	54	
CTWWTTM	84	
CTW1CKCF	6	10
CTW1CKDS	6	20
CTW1CYMG	6	80
CTW1DUAL	6	8
CTW1EWRT	6	4
CTW1PRIO	6	40

Chapter 48. $CVCB Information

$CVCB Heading Information

Common Name:	Checkpoint Version Control Block
Macro ID:	$CVCB
DSECT Name:	CVCB
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	$CVCB Offset: CVCB_ID-CVCB Length: L'CVCB_ID
Storage Attributes:	Subpool: N/A Key: 1 Residency: In the JESxCKVx data spaces
Size:	See CVCBSIZE
Created by:	HASPCKVR
Pointed to by:	SPUD_LATEST_VERSION field of $SCID data area SPUD_FREE_QUEUE field of $SCID data area SPUD_HOLD field of $SCID data area DSRVCVPT field of IAZDSERV data area DSRVCNPT field of IAZDSERV data area
Serialization:	Serialization is handled by means of ENQ/DEQ. HASPCKVR-Versioning subtask, creates all the CVCBs initially establishing the CVCB free queue. When a copy of the real in storage checkpoint data set is made into the first data space as a version, the representative CVCB is placed in the SCID (Summary of Checkpoint Information) at the head of the CVCB active queue, called SPUD_LATEST_VERSION, thus making it available to the service routine which handles the SSI request for a data space version. The service routine will issue an shared ENQ on the CVCB address contained in SPUD_LATEST_VERSION, scope=system. Following the ENQ, the service routine will check that the CVCB is still the latest version then increment the enqueue count within the CVCB by means of a compare and swap. In the case of release of access to a version, the service routine will decrement the enqueue count and DEQ on the CVCB. When the HASPCKVR subtask picks a CVCB to update, it will issue an exclusive ENQ on the CVCB to insure that no outstanding ENQs are held against the CVCB before the update is made. ENQ/DEQ NAMES: Major name - CCTQNAM = 'SYSZssss' ssss - JES2 subsystem name Minor name - 'CVCBnnnn' nnnn - CVCB_VERSION_NUMBER

$CVCB Heading Information

Function: This control block describes a version of the Checkpoint data set, contained in the Checkpoint data space. A CVCB exists for each version of the checkpoint which is maintained as active by the checkpoint version subtask. There are two queues of CVCBs, a free queue and an active queue, the heads of which reside in the SCID. As a new version of the checkpoint data set is generated, the CVCB for that version is put at the head of the active queue.

$CVCB mapping

Table 112. Structure CVCBHDR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CVCBHDR	Checkpoint Version CB
0	(0)	CHARACTER	8	CVCB_EYE	Data space eye catcher
8	(8)	BITSTRING	8	CVCB_NEXT_SPC_TKN	Next space STOKEN
16	(10)	SIGNED	4	CVCB_NEXT_SPC_ALET	Next space ALET
20	(14)	SIGNED	4		Reserved
20	(14)	X'18'	0	CVCBHSIZ	"*-CVCBHDR" Size of the CVCB header

Table 113. Structure CVCB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CVCB	Checkpoint Version CB
0	(0)	CHARACTER	4	CVCB_ID	CVCB eye catcher
4	(4)	ADDRESS	1	CVCB_CBVN	CB version number
4	(4)	X'6'	0	CVCBCVNO	"6" Current CB version number
		CVCB_FLAG is cleared when a CVCB version is generated.			
5	(5)	BITSTRING	1	CVCB_FLAG	Flag Byte
		1...		CVCB_FDMP	"B'10000000'" SDUMP requested
6	(6)	BITSTRING	1		Reserved
		CVCB_ENQ_SKIP_COUNT is incremented every cycle when the CVCB_ENQ_CT is non-zero. When the count reaches a certain value, an ENQ is issued to verify the CVCB_ENQ_CT field. If the ENQ is obtained, then the CVCB_ENQ_CT is set to zero.			
7	(7)	BITSTRING	1	CVCB_ENQ_SKIP_COUNT	ENQ check counter
8	(8)	SIGNED	4		Reserved
12	(C)	ADDRESS	4	CVCB_COPY_COUNT	Count of pages copied
16	(10)	ADDRESS	4	CVCB_ERROR_COUNT	Count of errors during copy
20	(14)	SIGNED	4	CVCB_ALET	CVCB ALET
24	(18)	CHARACTER	8	CVCB_STOKEN	CVCB STOKEN
32	(20)	BITSTRING	16	CVCB_NEXT(0)	Next CVCB area
32	(20)	ADDRESS	4	CVCB_NEXT_ADDR	Next CVCB address
36	(24)	SIGNED	4	CVCB_NEXT_ALET	Next CVCB ALET
40	(28)	BITSTRING	8	CVCB_NEXT_STOKEN	Next CVCB STOKEN
48	(30)	DBL WORD	8	CVCB_LEVEL	Checkpoint level
56	(38)	ADDRESS	4	CVCB_MASTER_REC	Address of master record
60	(3C)	ADDRESS	4	CVCB_4K_PAGES	Address of 4K pages

Table 113. Structure CVCB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
64	(40)	ADDRESS	4	CVCB_$CATBERT_ADDR	Address of $CATBERT
68	(44)	SIGNED	4	CVCB_ADDRS(0)	Start of section address
68	(44)	ADDRESS	4	CVCB_JOT_ADDR	JOT start address
72	(48)	ADDRESS	4	CVCB_JOX_ADDR	JOX start address
76	(4C)	ADDRESS	4	CVCB_JQE_ADDR	JQE start address
80	(50)	ADDRESS	4	CVCB_QSE_ADDR	QSE start address
84	(54)	ADDRESS	4	CVCB_HCT_ADDR	HCT start address (Ckpt'ed)
88	(58)	ADDRESS	4	CVCB_JQEX_ADDR	JQE extension address
92	(5C)	ADDRESS	4	CVCB_KIT_ADDR	KITs start address
96	(60)	ADDRESS	4	CVCB_JNT_ADDR	JNT start address
100	(64)	ADDRESS	4	CVCB_JQX_ADDR	JQX start address
104	(68)	ADDRESS	4	CVCB_BERT_ADDR	BERT start address
108	(6C)	ADDRESS	4	CVCB_DAS_ADDR	DAS start address
112	(70)	ADDRESS	4	CVCB_TGM_ADDR	TGM start address
116	(74)	ADDRESS	4	CVCB_ZJC_ADDR	ZJC start address
120	(78)	ADDRESS	4	CVCB_WQPOS_ADDR	Service cls posn address
124	(7C)	ADDRESS	4	CVCB_WQPOS_ALET	Service cls posn ALET
128	(80)	SIGNED	4		Reserved
132	(84)	SIGNED	4	CVCB_ENQ_CT	Count of shared ENQs
		1...		CVCB_USED	"B'10000000'" Version used this cycle
136	(88)	CHARACTER	8	CVCB_TIME	Time stamp for version
144	(90)	CHARACTER	8	CVCB_MAJOR(0)	Major name for ENQ
144	(90)	CHARACTER	4	CVCB_SYS	'SYSZ'
148	(94)	CHARACTER	4	CVCB_JESID	Subsystem name
152	(98)	CHARACTER	8	CVCB_MINOR(0)	Minor name for ENQ
152	(98)	CHARACTER	4	CVCB_ENQ_ID	'CVCB'
156	(9C)	SIGNED	4	CVCB_VERSION_NUMBER	Version numb of this CVCB
160	(A0)	DBL WORD	8	(0)	Alignment
160	(A0)	X'A0'	0	CVCBSIZE	"*-CVCB" Size of the CVCB

Table 114. Cross Reference for $CVCB

Name	Offset	Hex Tag
CVCB	0	
CVCB_$CATBERT_ADDR	40	
CVCB_ADDRS	44	
CVCB_ALET	14	
CVCB_BERT_ADDR	68	
CVCB_CBVN	4	
CVCB_COPY_COUNT	C	
CVCB_DAS_ADDR	6C	
CVCB_ENQ_CT	84	
CVCB_ENQ_ID	98	
CVCB_ENQ_SKIP_COUNT	7	
CVCB_ERROR_COUNT	10	
CVCB_EYE	0	
CVCB_FDMP	5	80
CVCB_FLAG	5	
CVCB_HCT_ADDR	54	
CVCB_ID	0	

Table 114. Cross Reference for $CVCB (continued)

Name	Offset	Hex Tag
CVCB_JESID	94	
CVCB_JNT_ADDR	60	
CVCB_JOT_ADDR	44	
CVCB_JOX_ADDR	48	
CVCB_JQE_ADDR	4C	
CVCB_JQEX_ADDR	58	
CVCB_JQX_ADDR	64	
CVCB_KIT_ADDR	5C	
CVCB_LEVEL	30	
CVCB_MAJOR	90	
CVCB_MASTER_REC	38	
CVCB_MINOR	98	
CVCB_NEXT	20	
CVCB_NEXT_ADDR	20	
CVCB_NEXT_ALET	24	
CVCB_NEXT_SPC_ALET	10	
CVCB_NEXT_SPC_TKN	8	
CVCB_NEXT_STOKEN	28	
CVCB_QSE_ADDR	50	
CVCB_STOKEN	18	
CVCB_SYS	90	
CVCB_TGM_ADDR	70	
CVCB_TIME	88	
CVCB_USED	84	80
CVCB_VERSION_NUMBER	9C	
CVCB_WQPOS_ADDR	78	
CVCB_WQPOS_ALET	7C	
CVCB_ZJC_ADDR	74	
CVCB_4K_PAGES	3C	
CVCBCVNO	4	6
CVCBHDR	0	
CVCBHSIZ	14	18
CVCBSIZE	A0	A0

Chapter 49. $DAS Information

$DAS Programming Interface Information

The following field is **NOT** programming interface information:

- DASMAPO

$DAS Heading Information

Common Name:	Direct Access Spool Data Set
Macro ID:	$DAS
DSECT Name:	DAS
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	The pool of DASes is preceded by an eyecatcher '**DAS POOL**' in the header for the pool. Offset: HDPID-HDP Length: 13
Storage Attributes:	Subpool: 0, 231, 241, dataspace Key: 1 Residency: Virtual storage is anywhere (below or above 16M) in the JES2 address space. Virtual storage for the DAS copies is ECSA. Real storage is anywhere.
Size:	See DASSIZ for JES2 private storage See DASSIZC for CSA copies Note that CSA DAS must be quadword aligned and its size should be a multiple of a quadword
Created by:	JES2 initialization allocates storage for the DASes in JES2 private and ECSA. The checkpoint versions subtask creates copies of the DASes in the checkpoint versions data space.
Pointed to by:	The $DASAREA field of the $HCT data area points to the header of the DAS pool in the JES2 private area. The $DASFRST field of the $HCT data area points to the first DAS in the JES2 private area. The CCTDAS1 field of the $HCCT data area points to the first DAS copy in ECSA.
Serialization:	JES2 checkpoint data set lock ($QSUSE)

$DAS Heading Information

Function: A DAS defines the characteristics of a spool data set. There is one DAS per extent for each possible extent as determined by SPOOLNUM on the SPOOLDEF statement. The DAS control blocks are contiguous in storage and are preceded by a header section. Each DAS resides in JES2 private storage with a partial copy in ECSA that is updated with each track group allocation (KBLOB). The extents are numbered (DASEXTNO) consecutively from 0 to $SPOLNUM-1. The DASes are offset from $DASAREA. When looping through a chain of DASes, an offset of zero means the end of the chain. Thus, a DAS cannot be at offset 0 from $DASAREA.

The DASes are mapped as one of the 4K checkpoint record entries. In order to modify the DAS, access to the shared queues must be owned ($QSUSE) and $CKPT must be issued with ID=DAS.

Since the DASes are checkpointed control blocks, there are at least 2 copies of each DAS in storage (the actual and I/O copies of the checkpoint in subpool 0). There also may be 1 or more copies in the checkpoint versions data space.

The field DASCTGA in the DAS is filled in only when the DAS is in ECSA. This field contains the number of track groups allocated for that DAS. If the information is needed from private storage, it resides in the master checkpoint record and is pointed to by field $DASEXT in the $HCT.

$DAS mapping

Table 115. Structure DAS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DAS	
0	(0)	CHARACTER	6	DASVOLID	EBCDIC VOLSER ID
6	(6)	BITSTRING	1	DASEXTNO	BINARY EXTENT NUMBER
7	(7)	BITSTRING	1	DASFLAG	FLAG BYTE
		1...		DASDRAIN	"B'10000000'" SPOOL IS DRAINING
		.1..		DASHALT	"B'01000000'" SPOOL IS HALTING
		..1.		DASTART	"B'00100000'" SPOOL IS STARTING
		...1		DASEXSTS	"B'00010000'" SPOOL EXISTS
		.... 1...		DASSELEC	"B'00001000'" SELECTION MAY OCCUR
		.... .1..		DASALLOC	"B'00000100'" ALLOCATION MAY OCCUR
		.... ..1.		DASFINAL	"B'00000010'" Final Command Processing (Obsolete , Do not test or turn on)
		1		DASRPSF	"B'00000001'" EXTENT SUPPORTS RPS
7	(7)	X'C'	0	DASACTIV	"DASSELEC+DASALLOC" SELECTION + ALLOC. MAY OCCUR
7	(7)	X'CC'	0	DASAVAIL	"DASACTIV+DASDRAIN+DASHALT" AVAILABLE FOR SELECTION

Table 115. Structure DAS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
7	(7)	X'48'	0	DASIOOK	"DASSELEC+DASHALT" I/O to extent is OK if selectable or halting unless DASTART is on too
8	(8)	BITSTRING	32	DASMASK	SPOOL MASK FOR THIS DAS MAPPED IN CSA FOR EXIT 12
40	(28)	SIGNED	4	DASTKCYL	NR OF TRACKS/CYLINDER ON DEVICE
44	(2C)	BITSTRING	2		Reserved (was DASNOTGE)
46	(2E)	SIGNED	2	DASNORTK	NUMBER OF RECORDS PER TRACK
		The content of DASTRK is dependent on the data set type. - If volume is in large data set format (DAS5LGDS on) then DASTRKLM is the largest relative track in the SPOOL data set. DAS5LGDS implies relative track addressing. Low track is always 1. To calculate absolute track address, add DASSTRK to the TTt address. - If large data set is not active, but relative track addressing is active (DAS4RELT on), then DASLOTRK=1 and DASUPTRK is the upper relative track limit. To calculate absolute track address add DASSTRK to the TT address. - If large data set and relative track addressing are both inactive, then DASLOTRK is the low absolute track address in the data set and DASUPTRK is the upper absolute track limit. TT is the absolute track address.			
48	(30)	SIGNED	4	DASTRK(0)	Valid track range (TT)
48	(30)	SIGNED	4	DASTRKLM(0)	Upper track limit (if large data sets - DAS5LGDS on)
48	(30)	BITSTRING	2	DASLOTRK	Low value (1 if relative)
50	(32)	BITSTRING	2	DASUPTRK	Upper limit
52	(34)	SIGNED	2	DASNOTGP	NUMBER OF TRACKS PER GROUP
54	(36)	SIGNED	2	DASMTCSZ	MINIMUM TRACKCELL SIZE
56	(38)	BITSTRING	1	DASTYPE	UCB DEVICE TYPE (UCBTBYT4)
		DASFLAG4 is updated by JES2 maintask only. There is no serialization.			
57	(39)	BITSTRING	1	DASFLAG4	Fourth flag byte
		The next two bits have the following valid states: 00 No signature records, none desired 01 No signature records, but signature records desired 11 Signature records exist			
		1...		DAS4SIG	"B'10000000'" Extent has signature rcds
		.1..		DAS4MFMT	"B'01000000'" Extent needs to be mini-formatted
		..1.		DAS4SFMT	"B'00100000'" DAS is on $DASWRKQ performing mini-format
		...1		DAS4PFMT	"B'00010000'" DAS is on $DASWRKQ pending mini-format
		.... 1...		DAS4ECKD	"B'00001000'" Extent is on ECKD device

Table 115. Structure DAS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		DAS4RDTD	"B'00000100'" Extent supports read track data CCW
		.... ..1.		DAS4WTRD	"B'00000010'" Extent supports write track data CCW
		1		DAS4RELT	"B'00000001'" This extent uses relative track addresses
58	(3A)	ADDRESS	1	DASMIGTR	SYSID of migrator system - system housing migrator subtask. Note: this field is only valid if DASFLAG8 -> DAS8MGMV (volume is migrating - move) or DAS8MGMR (Volume is migrating - merge). Only valid for source of migration.
59	(3B)	BITSTRING	1		Reserved (was DASRPSO)
60	(3C)	CHARACTER	44	DASDSN	SPOOL data set name
104	(68)	SIGNED	4	DASTGNUM	Number of TGs in extent
108	(6C)	SIGNED	4	DASJBNUM	Lowest job number using extent while either 1. halting or draining (DAS5POST off) or 2. POSTing jobs (DAS5POST on)
112	(70)	SIGNED	4	DASSTRK	First track of spool extent if relative addressing is being used (else 0)
116	(74)	BITSTRING	1	DASFLAG5	Fifth flag byte
		1...		DAS5LGDS	"B'10000000'" Large data set support active for volume
		.1..		DAS5IOHT	"B'01000000'" HALT command initiated by I/O error condition
		..1.		DAS5FALC	"B'00100000'" Volume fully allocated
		...1		DAS5POST	"B'00010000'" POSTing activity needed/ in process for final start spool command processing
		.... 1...		DAS5CYL	"B'00001000'" Data set allcated on EAV cylinder managed-EAS storage
117	(75)	BITSTRING	1	DASFLAG6	Sixth flag byte
		1...		DAS6MAX	"B'10000000'" MAX - $SSPL and MAX has been specified on SPACE keyword parm
		.1..		DAS6CYLS	"B'01000000'" CYL - $SSPL and CYL has been specified on SPACE keyword parm
		..1.		DAS6TRKS	"B'00100000'" TRK - $SSPL and TRK has been specified on SPACE keyword parm
		.... 1...		DAS6RESV	"B'00001000'" Upon migration completion - this volume must be left in reserved state. Note: this field is only valid if DASFLAG8 -> DAS8MGMV (volume is migrating - move) and only for a target volume.

Table 115. Structure DAS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		DAS6RSTA	"B'00000100'" Volume is in reserved state. Selection may occur - but not allocation. This is an attribute verses state.
		.... ..1.		DAS6XTND	"B'00000010'" EXTEND command in progress
		1		DAS6XTER	"B'00000001'" EXTEND command in progress and failed before command completion. Used by Initialization to detect a data set size mismatch that should be allowed.
118	(76)	BITSTRING	4	DASSYAFF	Spool system affinity
122	(7A)	SIGNED	2		Reserved
124	(7C)	SIGNED	4	DASNUMTC	$SSPL and this field contains the number of cylinders or tracks requested for a new volume data set.
124	(7C)	BITSTRING	4	DASMAPTR	Mapped track number in target volume. This is absolute track. Valid only if a mapped volume - DASFLAG8 -> DAS8UPTG is true. Only valid for migration source volume.
128	(80)	CHARACTER	6	DASTARG	Represents target volser for a spool migration. This could be either a move or merge migration. If a move -- then this value is not only volser -- but also a named BERT which will house the target volumes DAS during phase 1 of the ensuing migration. Only valid for migration source volume. For a mapped volume this field will identify the target DAS even after the migration is successful.
134	(86)	BITSTRING	1	DAS7PHAS	Migration phase. Only valid for a migrating source volume.
		....		DAS7NOMG	"X'00'" No migration active
		.... .1..		DAS7PEND	"X'04'" Migration command pending. In this phase source and target data sets will be validated. Also source will be inactive OR draining/halting and beyond phase 1 processing. Required for both move and merge.

Table 115. Structure DAS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		DAS7SET1	"X'08'" Setup and initialize migration tasking envirmonment. One member becomes migrator -- migration subtask is attached. All MAS members have migration assistant subtask attached. Subtasks are ready for pending migration. Required for both move and merge.
		.... 11..		DAS7SET2	"X'0C'" Setup2 - Migration move - all members must allocate target volume - BERT backed DAS, reserve SRC TGM and size verification. Only move.
		...1		DAS7SET3	"X'10'" Source and target size size verification. Also TGM reservation. Required for merge.
		...1 .1..		DAS7PHA1	"X'14'" Phase 1 migration. Move and merge.
		...1 11..		DAS7PHA2	"X'1C'" Phase 2 migration. Move and merge.
	Migration cleanup phases				
		..1.		DAS7CLUM	"X'20'" Migrator subtask cleanup is occuring (Backout or cancellation). Move and merge.
		..1. .1..		DAS7CLU3	"X'24'" Cleanup for migration phase DAS7SET3. (Backout or cancellation). Merge only
		..1. 1...		DAS7CLU2	"X'28'" Cleanup for migration phase DAS7SET2. (Backout or cancellation). Move only.
		..1. 11..		DAS7CLU1	"X'2C'" Cleanup for migration phase DAS7SET1. (Backout or cancellation). Move and merge.
135	(87)	BITSTRING	1	DASFLAG8	Migration flag 2
		1...		DAS8TARG	"B'10000000'" This volume is a migration target. Only valid for target - not source.
		.1..		DAS8TMOV	"B'01000000'" Target allocation was initiated by move verses merge. Only valid for target - not source.
		..1.		DAS8MGMV	"B'00100000'" Migrating - move. Only valid for migrating src.
		...1		DAS8MGMR	"B'00010000'" Migrating - merge. Only valid for migrating src.
		.... 1...		DAS8UPTG	"B'00001000'" Mapped volume and runtime must update target TGM if and only if DASTARTS is also > 0. DAS8UPTG is set on at the atomic point of merge and stays set until the DAS goes away.

Table 115. Structure DAS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		DAS8MAPT	"B'00000100'" This volume is mapped-on by at least one volume.
		.... ..1.		DAS8CANC	"B'00000010'" Either error or operator has requested migration cancel.
		1		DAS8CNAK	"B'00000001'" Migration is being cancelled.
136	(88)	SIGNED	4	DASTRAKQ	OFFSET OF NEXT DAS IN THE TGM
140	(8C)	SIGNED	4	DASWORKQ	OFFSET OF NXT DAS ON CMD WORK Q
144	(90)	SIGNED	4	DASMAPSZ	Number of bytes in the track group map
148	(94)	SIGNED	4	DASMAPO	OFFSET OF THIS MAP FROM $TGMAP
152	(98)	SIGNED	2	DASTGSIZ	TG SIZE ON THIS VOLUME, ROUNDED FOR NUMBER OF BUFS PER TRACK
154	(9A)	SIGNED	2		RESERVED FOR FUTURE USE
156	(9C)	BITSTRING	1	DASFLAG2	COMMAND FLAG BYTE
		1...		DASCDRN	"B'10000000'" DRAIN COMMAND HAS BEEN ISSUED
		.1..		DASCHALT	"B'01000000'" HALT COMMAND HAS BEEN ISSUED
		..1.		DASCSTRT	"B'00100000'" START COMMAND HAS BEEN ISSUED
		...1		DASCFMT	"B'00010000'" FORMAT REQUESTED
		.... 1...		DASINACT	"B'00001000'" THIS VOLUME IS INACTIVE
		.... ..1.		DASINIT	"B'00000010'" INITIAL START HAS BEEN PERFORMED **note bit out of order**

The following two bits determine which phase (1-3) the drain/halt command is currently processing.

Phase	DASBLOB	DASJOBWT
1	on	n/a
2	off	on
3	off	off

		.... .1..		DASBLOB	"B'00000100'" Indicates which phase of drain/halt processing has completed(acts as a gate to Phase 2, deallocation)
		1		DASJOBWT	"B'00000001'" HALT/DRAIN WAITING JOBS

Starting in z/OS 1.13 with the inclusion of the Extend SPOOL command, DASCMNDS does not represent all spool commands. Code needs to account for command bits in DASFLAG2 and DASFLAGA.

156	(9C)	X'F0'	0	DASCMNDS	"DASCDRN+DASCHALT+DASCSTRT+DASCFMT"
156	(9C)	X'80'	0	DASCMND2	"DASCXTND"
157	(9D)	BITSTRING	1	DASFLAG3	FLAG BYTE
		1...		DAS3ITGM	"B'10000000'" This extent on DASTRAKQ

Table 115. Structure DAS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		DAS3SYSA	"B'01000000'" System affinity set for this volume
COMPATIBILITY Maintainence of DAS3CNCL is needed until HJE7740 (z/OS 1.9) cannot coexist in a MAS with the lowest supported release in a MAS. Example 1: +---+ +---+ +---+ +---+ |z12| |z13| ---> |z12| |z10| = GOOD! :-) +---+ +---+ +---+ +---+ Example 2: +---+ +---+ +---+ +---+ |z12| |z14| ---> |z12| |z10| = GOOD! :-) +---+ +---+ +---+ +---+ Example 3: +---+ +---+ +---+ +---+ |z12| |z11| ---> |z9 | |z11| = BAD! :-(+---+ +---+ +---+ +---+ Note: These examples assume ONLY n-2 releases are supported. So in other words, this bit can be deleted at z/14 development time. Also remove comements in SPOL and SXIT.					
		..1.		DAS3CNCL	"B'00100000'" Command issued with CANCEL operand
END COMPATIBILITY					
		...1		DAS3EFWZ	"B'00010000'" Extent signature record populated with zero
		.... 1...		DAS3STUN	"B'00001000'" Volume has more space than represented in map (i.e. this is stunted)
158	(9E)	BITSTRING	1	DASCMD2	Member nr issuing new cmd
159	(9F)	BITSTRING	1	DASFLAGA	Command Flag Byte #2
		1...		DASCXTND	"B'10000000'" Extend command issued
160	(A0)	SIGNED	2	DASCSAC(0)	End of area copied to CSA
160	(A0)	X'A0'	0	DASSIZCO	"*-DAS" Len of area copied to CSA

Table 116. Structure DASCSA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DASCSA	, CSA only DAS DSECT
0	(0)	SIGNED	4	DASCTGAL	CSA only mapping of track groups allocated
4	(4)	SIGNED	4	DASCLOTK	CSA only low track limit
8	(8)	SIGNED	4	DASCUPTK	CSA only upper track limit
12	(C)	BITSTRING	64	DASRPS	RPS Table for this device
76	(4C)	BITSTRING	32	DASENQTK	ISGENQ token
Start of DASMIGIO WARNING!!! - DASMIGIO and ASMMIGIO in $DTEASST must be kept in sync					

Table 116. Structure DASCSA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
108	(6C)	SIGNED	4	DASMIGIO(0)	Start of migration I/O directives. This area must be atomically maintained. Area size is denoted below by DASMIGSZ.
108	(6C)	BITSTRING	1	DASFLAG9	Flag 9
		1...		DAS9NMIG	"B'10000000'" Before performing I/O -- runtime must interrogate member track level bitmap. Given a track, if relative bit is on -- then runtime must send an "I/O @Z13D015 permission request" to @Z13D015 migrator mailbox RN$<VOLSER>. VOLSER is source DAS - DASVOLID. Set by migration assistant subtask.
		.1..		DAS9MAPD	"B'01000000'" Source DAS is mapped to target and DASMAPTR must used to calculate corresponding track in target. Use DEB extent in DAS pointed by DASTRADD. Set by migration assistant subtask.
109	(6D)	ADDRESS	1	DASMIGT	Migration transition count informs in-flight I/O of important migration transitions. Captured at start of I/O and compared at I/O end. If count differs the I/O must be re-done. Always captured. Set by migration assistant subtask.
110	(6E)	BITSTRING	2		Reserved
110	(6E)	X'4'	0	DASMIGSZ	"*-DASMIGIO" Length of area which must be atomically updated.
End of DASMIGIO					
112	(70)	ADDRESS	4	DASTRADD	If migration is a merge - then this points to target associated CSA entry.
120	(78)	ADDRESS	8	DASTBITM	Address of member track level bitmap. Located in 64 bit common storage. Only valid if DADFLAG9-> DASSNMIG. Set by SPOL PCE in DAS7SET2 or DAS7SET3.
128	(80)	SIGNED	4	DASTARTS	If this volume is mapped to another volume DAS8UPTG = ON, then this value marks start TG in target TGM. Transposer will use on all members. Note if this value is 0 then no data moved to target - in other words source was empty. If 0 - then transposer must no-op for this DAS.

Table 116. Structure DASCSA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
132	(84)	ADDRESS	4	DASGRTOK	JESXCF group token used to create MG$VOLSER and RN$VOLSER mailboxes
136	(88)	BITSTRING	1	DASMGCMP	Migration percent complete Broadcast every so often to all MAS members.
137	(89)	BITSTRING	1	DASFLAGB	Flag B - Broadcast settings
		1...		DASBNCAN	"B'10000000'" Migration can no longer be cancelled. Broadcast to all MAS members when migration atomic point reached.
138	(8A)	BITSTRING	22		Reserved
		DEB extent information in CSA DAS must be quadword aligned due to hardware atomicity considerations Use LPQ/STPQ to get/set this field.			
160	(A0)		1	(0)	Align
160	(A0)	BITSTRING	1	DASDEBXT	DEB extent for this volume
		DAS status is more complex starting with z/OS 1.13. Status includes the traditional settings in DASFLAG and may also need to incorporate SPOOL migration. DASSTAT combines these settings into a single status field that can be used by $SCAN. Prescan routine PREDSTS fills in this value.			
176	(B0)	BITSTRING	1	DASSTAT	Binary Status value
		...1		DASSTACT	"X'10'" SPOOL is active. Allocation may occur
		..1.		DASSTSTR	"X'20'" SPOOL is starting.
		..11		DASSTDRN	"X'30'" SPOOL is draining
		.1..		DASSTHLT	"X'40'" SPOOL is halting
		.1.1		DASSTEXT	"X'50'" SPOOL is extending
		.111		DASSTMIG	"X'70'" SPOOL is migrating
		.111 ...1		DASSTMMV	"X'71'" SPOOL is migrating-move
		.111 ..1.		DASSTMMG	"X'72'" SPOOL is migrating-merge
		1..1		DASSTMAP	"X'90'" SPOOL is mapped
		....		DASSTINA	"X'00'" SPOOL is inactive
177	(B1)	BITSTRING	3		Reserved
192	(C0)		1	(0)	Align - This must be the last declare before the end of the CSA DAS
192	(C0)	X'C0'	0	DASENDC	"*" End of CSA DAS
192	(C0)	X'C0'	0	DASCSALN	"*-DASCSA" CSA only portion of DAS len
192	(C0)	X'160'	0	DASSIZC	"DASSIZCO+DASCSALN" Length of CSA mapped DAS

Table 117. Structure DASCKPT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DASCKPT	, CKPT only DAS DSECT
		THE NEXT FOUR FIELDS MUST BE KEPT TOGETHER. ROUTINE DADCKALL IN HASPSPOL DEPENDS ON THESE FIELDS BEING CONTIGUOUS.			

Table 117. Structure DASCKPT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	SIGNED	4	DASINDIC(0)	INDICATOR FIELDS
0	(0)	BITSTRING	4	DASALOCS	Sys. with ext alloc'ed
4	(4)	BITSTRING	4	DASDONE	Cmd done on these systems
8	(8)	BITSTRING	4	DASBUSY	Cmd being done on systems
12	(C)	ADDRESS	1	DASCMDID	SYSID of sys issuing cmd
12	(C)	X'D'	0	DASINDLN	"*-DASINDIC" Length of indicator fields
13	(D)	BITSTRING	4	DASERROR	Affinity of system with command error
17	(11)	BITSTRING	35	DASERCDE	Error reason code for each member
52	(34)	SIGNED	4	(0)	ALIGN END OF DAS
52	(34)	X'34'	0	DASCKPTL	"*-DASCKPT" CKPT only portion DAS len
52	(34)	X'D4'	0	DASSIZ	"DASSIZCO+DASCKPTL" Length of CKPT mapped DAS
52	(34)	X'8'	0	DASVRSN	"8" Version of the DAS
		THESE EQUATES REPRESENT THE ERROR CONDITIONS THAT ARE REFLECTED IN DASERCDE. THERE IS A DASERCDE SLOT FOR EACH POSSIBLE SYSTEM IN AN MAS COMPLEX. DASERROR BIT SETTING INDICATE WHICH SYSTEM HAD AN ERROR AND WHAT OFFSET INTO DASERCDE SHOULD BE LOOKED AT.			
52	(34)	X'4'	0	DASMNTER	"4,L'DASERCDE" VOLUME NOT MOUNTED
52	(34)	X'8'	0	DASDUPER	"8,L'DASERCDE" DUPLICATE SPOOL VOLUMES
52	(34)	X'C'	0	DASALCER	"12,L'DASERCDE" ALLOCATION ERROR
52	(34)	X'10'	0	DASPMTER	"16,L'DASERCDE" PREVIOUS MOUNTED VOL NOT MOUNTED
52	(34)	X'14'	0	DASEXTER	"20,L'DASERCDE" EXTENT ERROR
52	(34)	X'18'	0	DASFMTER	"24,L'DASERCDE" PREV. MOUNTED VOL NOT FORMATTED
52	(34)	X'1C'	0	DASENQER	"28,L'DASERCDE" ENQ already held for volume
52	(34)	X'20'	0	DASUCBER	"32,L'DASERCDE" UCBINFO macro failed
52	(34)	X'24'	0	DASCDRER	"36,L'DASERCDE" IOSCDR macro failed
52	(34)	X'28'	0	DASNEDER	"40,L'DASERCDE" NED not found by IOSCDR
52	(34)	X'2C'	0	DASDIAGR	"44,L'DASERCDE" DIAGNOSE inst error
52	(34)	X'30'	0	DASDLSPC	"48,L'DASERCDE" LSPACE macro failed
52	(34)	X'34'	0	DASNOTRG	"52,L'DASERCDE" No track groups
52	(34)	X'38'	0	DASXTNDE	"56,L'DASERCDE" Extend SPOOL error
52	(34)	X'3C'	0	DASXTNSP	"60,L'DASERCDE" Extend SPOOL error - Insufficient space
52	(34)	X'40'	0	DASXTEXT	"64,L'DASERCDE" Extend SPOOL error - No extents in data set
52	(34)	X'44'	0	DASXTSIZ	"68,L'DASERCDE" Extend SPOOL error - Data set already req size

Table 117. Structure DASCKPT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		THE FOLLOWING EQUATES ARE USED TO MAP OUT FIELDS IN THE MASTER RECORD ASSOCIATED WITH THE DAS. THE FIELDS IN THE MASTER RECORD CAN BE THOUGHT OF AS AN EXTENSION TO EACH DAS. ALTHOUGH THERE IS A DASEXTGA ASSOCIATED WITH EACH DAS, IT IS KEPT IN THE MASTER RECORD BECAUSE IT IS ALTERED BY THE CKPT PROCESSOR EACH CYCLE. THE DAS EXTENSION AREAS ARE CONTIGUOUS IN STORAGE, AS ARE THE DASES. THE NTH EXTENSION AREA IS ASSOCIATED WITH THE NTH DAS (AS DEFINED BY DASEXTNO). Note: track groups assigned to the BLOB are considered allocated for purposes of this count. DAS extension sizes if large data set support is active ($SPLLGDS on)			
52	(34)	X'0'	0	DASXTGA4	"0,4" Number of TGs allocated
52	(34)	X'4'	0	DASXTLN4	"L'DASXTGA4" Length of DAS extension

Table 118. Structure MIGR808

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MIGR808	, HASP808 parms
0	(0)	CHARACTER	6	MIGRSRC	Migration source volume
6	(6)	CHARACTER	6	MIGRTAR	Migration target volume
12	(C)	BITSTRING	1	MIGRFRNT	Indication if upfront SRC and targ text should be cut. x'FF' - yes x'00' - no
13	(D)	BITSTRING	1	MIGRBACK	Requested backend text
		Following two fields only valid when migrator takeover message is being cut. MIGRFLAG -> MIGRFTAK			
14	(E)	CHARACTER	4	MIGDWNMR	Down or hot-startable member
18	(12)	CHARACTER	4	MIGTAKMR	Migrator takeover member
22	(16)	BITSTRING	1	MIGRFLAG	MIGR808 Flag
		1...		MIGRFMOV	"B'10000000'" Use MOVE completion text
		.1..		MIGRFMRG	"B'01000000'" Use MERGE completion text
		..1.		MIGRFTAK	"B'00100000'" Migrator takeover message
22	(16)	X'17'	0	MIGR8LEN	"*-MIGR808" Length of a HASP808 parms

Table 119. Cross Reference for $DAS

Name	Offset	Hex Tag
DAS	0	
DASACTIV	7	C
DASALCER	34	C
DASALLOC	7	4
DASALOCS	0	0
DASAVAIL	7	CC
DASBLOB	9C	4

Table 119. Cross Reference for $DAS (continued)

Name	Offset	Hex Tag
DASBNCAN	89	80
DASBUSY	8	0
DASCDRER	34	24
DASCDRN	9C	80
DASCFMT	9C	10
DASCHALT	9C	40
DASCKPT	0	
DASCKPTL	34	34
DASCLOTK	4	0
DASCMDID	C	
DASCMD2	9E	0
DASCMNDS	9C	F0
DASCMND2	9C	80
DASCSA	0	
DASCSAC	A0	
DASCSALN	C0	C0
DASCSTRT	9C	20
DASCTGAL	0	
DASCUPTK	8	0
DASCXTND	9F	80
DASDEBXT	A0	
DASDIAGR	34	2C
DASDLSPC	34	30
DASDONE	4	0
DASDRAIN	7	80
DASDSN	3C	40404040
DASDUPER	34	8
DASENDC	C0	C0
DASENQER	34	1C
DASENQTK	4C	
DASERCDE	11	0
DASERROR	D	0
DASEXSTS	7	10
DASEXTER	34	14
DASEXTNO	6	0
DASFINAL	7	2
DASFLAG	7	0
DASFLAGA	9F	0
DASFLAGB	89	0
DASFLAG2	9C	0
DASFLAG3	9D	0
DASFLAG4	39	
DASFLAG5	74	
DASFLAG6	75	
DASFLAG8	87	0
DASFLAG9	6C	
DASFMTER	34	18
DASGRTOK	84	
DASHALT	7	40

Table 119. Cross Reference for $DAS (continued)

Name	Offset	Hex Tag
DASINACT	9C	8
DASINDIC	0	
DASINDLN	C	D
DASINIT	9C	2
DASIOOK	7	48
DASJBNUM	6C	0
DASJOBWT	9C	1
DASLOTRK	30	0
DASMAPO	94	0
DASMAPSZ	90	
DASMAPTR	7C	
DASMASK	8	0
DASMGCMP	88	
DASMIGIO	6C	
DASMIGSZ	6E	4
DASMIGT	6D	
DASMIGTR	3A	
DASMNTER	34	4
DASMTCSZ	36	1
DASNEDER	34	28
DASNORTK	2E	0
DASNOTGP	34	0
DASNOTRG	34	34
DASNUMTC	7C	
DASPMTER	34	10
DASRPS	C	0
DASRPSF	7	1
DASSELEC	7	8
DASSIZ	34	D4
DASSIZC	C0	160
DASSIZCO	A0	A0
DASSTACT	B0	10
DASSTAT	B0	0
DASSTDRN	B0	30
DASSTEXT	B0	50
DASSTHLT	B0	40
DASSTINA	B0	0
DASSTMAP	B0	90
DASSTMIG	B0	70
DASSTMMG	B0	72
DASSTMMV	B0	71
DASSTRK	70	0
DASSTSTR	B0	20
DASSYAFF	76	
DASTARG	80	
DASTART	7	20
DASTARTS	80	
DASTBITM	78	
DASTGNUM	68	0

Table 119. Cross Reference for $DAS (continued)

Name	Offset	Hex Tag
DASTGSIZ	98	0
DASTKCYL	28	0
DASTRADD	70	
DASTRAKQ	88	0
DASTRK	30	
DASTRKLM	30	
DASTYPE	38	0
DASUCBER	34	20
DASUPTRK	32	0
DASVOLID	0	40404040
DASVRSN	34	8
DASWORKQ	8C	0
DASXTEXT	34	40
DASXTGA4	34	0
DASXTLN4	34	4
DASXTNDE	34	38
DASXTNSP	34	3C
DASXTSIZ	34	44
DAS3CNCL	9D	20
DAS3EFWZ	9D	10
DAS3ITGM	9D	80
DAS3STUN	9D	8
DAS3SYSA	9D	40
DAS4ECKD	39	8
DAS4MFMT	39	40
DAS4PFMT	39	10
DAS4RDTD	39	4
DAS4RELT	39	1
DAS4SFMT	39	20
DAS4SIG	39	80
DAS4WTRD	39	2
DAS5CYL	74	8
DAS5FALC	74	20
DAS5IOHT	74	40
DAS5LGDS	74	80
DAS5POST	74	10
DAS6CYLS	75	40
DAS6MAX	75	80
DAS6RESV	75	8
DAS6RSTA	75	4
DAS6TRKS	75	20
DAS6XTER	75	1
DAS6XTND	75	2
DAS7CLUM	86	20
DAS7CLU1	86	2C
DAS7CLU2	86	28
DAS7CLU3	86	24
DAS7NOMG	86	0
DAS7PEND	86	4

Table 119. Cross Reference for $DAS (continued)

Name	Offset	Hex Tag
DAS7PHAS	86	0
DAS7PHA1	86	14
DAS7PHA2	86	1C
DAS7SET1	86	8
DAS7SET2	86	C
DAS7SET3	86	10
DAS8CANC	87	2
DAS8CNAK	87	1
DAS8MAPT	87	4
DAS8MGMR	87	10
DAS8MGMV	87	20
DAS8TARG	87	80
DAS8TMOV	87	40
DAS8UPTG	87	8
DAS9MAPD	6C	40
DAS9NMIG	6C	80
MIGDWNMR	E	
MIGRBACK	D	
MIGRFLAG	16	
MIGRFMOV	16	80
MIGRFMRG	16	40
MIGRFRNT	C	
MIGRFTAK	16	20
MIGRSRC	0	
MIGRTAR	6	
MIGR8LEN	16	17
MIGR808	0	
MIGTAKMR	12	

Chapter 50. $DAWNWRK Information

$DAWNWRK Heading Information

Common Name:	JES2 DAWN Processor
Macro ID:	$DAWNWRK
DSECT Name:	PCE ($DAWNWRK is part of the PCE DSECT)
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4
Storage Attributes:	Subpool: See $PCE Key: See $PCE Residency: See $PCE
Size:	See symbol DWNPCEWL for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by:	See $PCE
Pointed to by:	The $DAWNPCE field of the $HCT data area points into the $PCEORG/$PCELAST chain to the DAWN PCE. Since this chain contains all PCEs, use the PCEID field to determine when you have chained past the last PCE of this type. See $PCE for other pointer fields that apply to all PCE types.
Serialization:	Normal PCE dispatch serialization
Function:	The fields in this work area are used by a JES2 DAWN Processor and by its support routine and exits. $DAWNWRK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $DAWNWRK are actually part of PCE DSECT, but only map PCEs with the value PCEDWNID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

$DAWNWRK mapping

Table 120. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
320	(140)	SIGNED	4	(6)	Reserved for future use
344	(158)	DBL WORD	8	(0)	Alignment
344	(158)	X'18'	0	DWNPCEWL	"*-PCEWORK" Length of DAWN PCE

Chapter 51. $DCT Information

$DCT Programming Interface Information

The following fields are **NOT** programming interface information:

- DCTACB
- DCTDCB
- DCTUCB
- MDCTPCL

$DCT Heading Information

Common Name:	Device Control Table
Macro ID:	$DCT
DSECT Name:	DCT
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'DCT ' Offset: DCTID-DCT Length: 4
Storage Attributes:	Subpool: 2 Key: 1 Residency: Virtual and real storage are anywhere (above or below 16M) in the private storage of the JES2 address space.
Size:	Size is of varying lengths. See $DCTTABs and the length equates throughout DCT for the length specifications for each DCT type.
Created by:	Most DCTs are allocated using the $DCTDYN service during initialization or as a result of a $ADD command. Remote and network subdevices are obtained during JES2 initialization.

$DCT Heading Information

Pointed to by: - the PCEDCT field of the associated $PCE data area, if any
- chaining fields, and associated-device fields, in related $DCT data areas, including DCTCHAIN, DCTFSSCH, MDCTADCT, MDCTDCT, XDCTDCT, MDCTACT, XDCTACTV, MDCTSDCT
- anchor fields for all $DCTs in the $HCT data area, including $DCTPOOL and $DCTPOOL2
- anchor fields for each type of $DCT data area, in the $HCT or $UCT data area, as directed by each $DCT type's defining $DCTTAB specification
- I/O, request, and status anchors in the $HCT data area
- fields within the $MLMWORK data area, including MLMSNALG, MLMSNAAL, MLMLOGQ, MLMXLDCT
- fields within other device-managing JES2 processor work areas, like $MLMWORK, including the $RCPWORK, $NPMWORK, and $XFRWORK data area, and subtask $DTEOFF data area
- fields within RJE/NJE related data areas used for RJE terminal definition, NJE node definition, and I/O, including the RJE $RAT data area, NJE $NIT and $NITP and $PCT data areas, and VTAM $ICE data area
- fields within parameters lists for JES2 exits, in the $XPL data area, typically labeled XnnnDCT, where nnn is the exit number

The following fields are used to chain DCTs on the $#POST work queues:
- $NJEADCT field of the HCT data area
- $OFFADCT field of the HCT data area
- $LCLADCT field of the HCT data area
- DCTNACTV field of the DCT data area
- DCTPACTV field of the DCT data area

Serialization: Standard JES2 reentrancy techniques

Function: The DCT defines the devices used by the JES2 address space, their attributes and the related parameter settings. A DCT may or may not be supported on a one-for-one basis by a processor (PCE). If they are thus supported, the PCE might not exist if the DCT is not active.

$DCT mapping

Table 121. Structure DCT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DCT	DEVICE CONTROL TABLE DSECT
		GENERAL DCT FOUNDATION - REQUIRED AND COMMON TO ALL DCTS. NOTE THAT THE FOLLOWING FIELDS (THROUGH DCTDEVTP) MUST CORRESPOND EXACTLY TO THE PCEDADCT AND PPPDADCT FIELDS			
0	(0)	CHARACTER	4	DCTID	CONTROL BLOCK IDENTIFIER
4	(4)	SIGNED	2	DCTSIZE	DCT size in bytes
6	(6)	BITSTRING	2		Reserved
8	(8)	ADDRESS	4	DCTPCE	ADDRESS OF PROCESSOR CNTRL ELEM.

Table 121. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
12	(C)	SIGNED	4	DCTFLGFW(0)	FOLLOWING FOUR FLAG BYTES MUST BE KEPT CONTIGUOUS FOR COMPARE AND SWAP PROCESSING
12	(C)	BITSTRING	1	DCTSTAT	STATUS FLAGS
		1...		DCTINUSE	"B'10000000'" DCT is in use
		.1..		DCTDRAIN	"B'01000000'" DCT is drained
		..1.		DCTHOLD	"B'00100000'" DCT is held
		...1		DCTUNAL	"B'00010000'" DCT is unallocated
		.... 1...		DCTRTAM	"B'00001000'" DCT in process by RTAM
		.... .1..		DCTSTRT	"B'00000100'" SPOF xmitter/receiver START INDICATOR
		.... .1..		DCTPATTN	"B'00000100'" Local reader attention pending
		.... ..1.		DCTATTN	"B'00000010'" DCT is set for attention processing
		1		DCTPAUSE	"B'00000001'" DCT is paused
13	(D)	BITSTRING	1	DCTFLAGS	OPERATOR COMMAND FLAGS
		1...		DCTSTOP	"B'10000000'" $Z command
		.1..		DCTDELET	"B'01000000'" $C command
		..1.		DCTRSTRT	"B'00100000'" $E command
		...1		DCTRPT	"B'00010000'" $N command
		...1		DCTSOFF2	"B'00010000'" MDCTSTAT/DCTSOFF shadow for line DCTs, used only during CMD $SCAN, $N LINE not supported
		.... 1...		DCTBKSP	"B'00001000'" $B command
		.... .1..		DCTHOLDJ	"B'00000100'" $T...,H command
		11		DCTSPACE	"B'00000011'" $T...,K=X command
		.... ..1.		DCTSP2	"B'00000010'" Force double spacing
		1		DCTSP1	"B'00000001'" Force single spacing
		1		DCTLOGAL	"B'00000001'" $TLNEx,E=Y command
14	(E)	BITSTRING	1	DCTFLAG2	MORE DCT FLAGS
		1...		DCTRACE	"B'10000000'" Device eligible for I/O tracing
		.1..		DCTERMNR	"B'01000000'" Stream terminated by receiver
		..1.		DCTRBFF	"B'00100000'" NJE Route buffer full
		...1		DCTRRDY	"B'00010000'" NJE Route receiver ready
		.... 1...		DCT2POST	"B'00001000'" SNA line manager is waiting to be $POSTed
		.... .1..		DCT2PTRC	"B'00000100'" Processor tracing on (TR=P), only used to save PCETRACE value across $PCEDYN PCE activity
		.... ..1.		DCT2RSP	"B'00000010'" NJE device open/close wait
		1		DCTRTE	"B'00000001'" Route codes (HASPINIT only)

Table 121. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1		DCTOPEN	"B'00000001'" NJE/RJE device open req
15	(F)	BITSTRING	1	DCTFSSFL	DCT FLAGS FOR AN FSS OWNED DVC
		1...		DCTSTART	"B'10000000'" Device is being started
		.1..		DCTFCKMD	"B'01000000'" CKPT mode page 'ON', TIME 'OFF'
		..1.		DCTFDFLT	"B'00100000'" Reset setup defaults
		...1		DCTFSYNC	"B'00010000'" Dev parm changes require synch order
		.... 1...		DCTFSET	"B'00001000'" Dev parm changes require set order
		.... .1..		DCTCMODF	"B'00000100'" Change mode to FSS mode
		.... ..1.		DCTCMODJ	"B'00000010'" Change mode to JES mode
		1		DCTFSSMD	"B'00000001'" DCT/PCE is in FSS mode
16	(10)	ADDRESS	4	DCTDCB(0)	ADDRESS OF DATA CONTROL BLOCK
16	(10)	ADDRESS	4	DCTACB(0)	ADDRESS OF ACB
16	(10)	SIGNED	4	DCTSEEK	MTTR value $EXCP
20	(14)	BITSTRING	4		Reserved
16	(10)	DBL WORD	8	DCTMQTRD(0)	MQTR value for $EXCP
16	(10)	BITSTRING	1	DCTSEEKF	'FF'x if MQTR is set
17	(11)	BITSTRING	1		Reserved
18	(12)	BITSTRING	6	DCTMQTR	MQTR value for $EXCP
24	(18)	ADDRESS	4	MDCTSDCT(0)	ADDR OF NXT SUSPND RMT DCT (SNA)
24	(18)	ADDRESS	4	DCTBUFAD	ADDRESS OF CURRENT BUFFER
28	(1C)	ADDRESS	4	DCTEWF	PCE WITH EWF TO POST OR EXIT ADDR
32	(20)	SIGNED	2	DCTBUFCN	Count of active buffers
32	(20)	X'14'	0	DCTBUFLM	"20" Max buffers for some DCT types (NOT enforced for all types)
34	(22)	BITSTRING	1	DCTDEVTP	DEVICE TYPE

```
Start of DEVICE TYPE definition
Since bits are combined to define some device
types, extreme caution must be used when
testing the type. For example, the X'20' bit
is on for local and remote printers and punches,
and NJE and SPOF job and sysout transmitters.
Use a TM instruction to test for a class of
device. Use a CLI instruction to test for an
exact type of device. Examples:
Test for a local printer:
  CLI DCTDEVTP,DCTPRT Local printer?
  BNE SKIPIT No, skip it
Test for a local or remote printer or punch:
  TM DCTDEVTP,DCTPRPU Prt/punch or transmitter?
  BZ SKIPIT No, skip it
  TM DCTDEVTP,DCTNET Transmitter?
  BO SKIPIT Yes, skip it
EQU X'00' RESERVED FOR PCEDARD
EQU X'01' RESERVED FOR PCEDAWR
```

Table 121. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ..1.		DCTRJE	"X'02'" REMOTE JOB ENTRY DEVICE
		.... .1..		DCTINT	"X'04'" INTERNAL DEVICE
		.... 1...		DCTNET	"X'08'" NETWORK REMOTE DEVICE
		.1..		DCTDVTPX	"X'40'" EXTRA FLAG TO FURTHER IDENTIFY DCT DEVICE TYPES, PROVIDING UNIQUE IDS ACROSS ALL DCT TYPES
		1...		DCTSPOF	"X'80'" SPOOL OFFLOAD DEVICE
34	(22) X'2'		0	DCTLNE	"DCTRJE" REMOTE JOB ENTRY LINE
34	(22) X'E'		0	DCTMLNE	"DCTINT+DCTRJE+DCTNET" MAS JOB ENTRY LINE
34	(22) X'6'		0	DCTLOG	"DCTINT+DCTRJE" APPLICATION LOGON DCT
34	(22) X'C'		0	DCTSRV	"DCTINT+DCTNET" NJE SERVER DCT
		...1		DCTRDR	"X'10'" LOCAL CARD READER
34	(22) X'12'		0	DCTRJR	"DCTRJE+DCTRDR" REMOTE CARD READER
34	(22) X'14'		0	DCTINR	"DCTINT+DCTRDR" INTERNAL READER
34	(22) X'50'		0	DCTRJI	"DCTDVTPX+DCTRDR" REQUEST-FOR-JOBID DCT
		..1.		DCTPRT	"X'20'" LOCAL PRINTER
34	(22) X'22'		0	DCTRPR	"DCTRJE+DCTPRT" REMOTE PRINTER
		..11		DCTPUN	"X'30'" LOCAL PUNCH
34	(22) X'32'		0	DCTRPU	"DCTRJE+DCTPUN" REMOTE PUNCH
34	(22) X'20'		0	DCTPRPU	"DCTPRT" PRINTER OR PUNCH
34	(22) X'30'		0	DCTRPP	"DCTRDR+DCTPRPU" READER, PRINTER, OR PUNCH
34	(22) X'42'		0	DCTRCON	"DCTRJE+DCTDVTPX" REMOTE CONSOLE
34	(22) X'18'		0	DCTNJR	"DCTNET+DCTRDR" NETWORK JOB RECEIVER
34	(22) X'38'		0	DCTNJT	"DCTNJR+DCTPRPU" NETWORK JOB TRANSMITTER
34	(22) X'8'		0	DCTNSR	"DCTNET" NETWORK SYSOUT RECEIVER
34	(22) X'28'		0	DCTNST	"DCTNSR+DCTPRPU" NETWORK SYSOUT TRANSMITTER
34	(22) X'58'		0	DCTNRR	"DCTNJR+DCTDVTPX" NETWORK ROUTE RECEIVER
34	(22) X'78'		0	DCTNRT	"DCTNJT+DCTDVTPX" NETWORK ROUTE TRANSMITTER
34	(22) X'90'		0	DCTXJR	"DCTSPOF+DCTRDR" SPOOL OFFLOAD JOB RECEIVER
34	(22) X'B0'		0	DCTXJT	"DCTXJR+DCTPRPU" SPOOL OFFLOAD JOB TRANSMITTER
34	(22) X'80'		0	DCTXSR	"DCTSPOF" SPOOL OFFLOAD SYSOUT RECEIVER
34	(22) X'A0'		0	DCTXST	"DCTXSR+DCTPRPU" SPOOL OFFLOAD SYSOUT XMITTER
34	(22) X'84'		0	DCTOFF	"DCTSPOF+DCTINT" SPOOL OFFLOAD MEDIA DEVICE
End of DEVICE TYPE definition					
35	(23) BITSTRING		1	DCTFLAG3	Flags
		1...		DCT3JWS	"B'10000000'" Dev uses JOB work sel

Table 121. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		DCT3SWS	"B'01000000'" Dev uses SYSOUT work sel
		..1.		DCT3IOER	"B'00100000'" $ASYNC error detected
35	(23)	X'1C'	0	DCTDALEN	"*-DCTPCE" LENGTH OF DA DCT FOR $EXCP
36	(24)	BITSTRING	1	DCTSTAT2	SECOND STATUS FLAG BYTE
37	(25)	BITSTRING	1	MDCTMLMQ	Expected MLM queue offset
38	(26)	SIGNED	2	DCTRSINT	Device restart interval (minutes)
40	(28)	BITSTRING	4	DCTRSTIM	Last device drain time (STCK)
44	(2C)	BITSTRING	1	DCTFLAG4	Flags
		1...		DCT4ARST	"B'10000000'" Automatically restart device
		.1..		DCT4NSYN	"B'01000000'" Skip CDCT synchronization
45	(2D)	BITSTRING	7		Reserved for future use
52	(34)	ADDRESS	4	DCTCHAIN	ADDRESS OF NEXT DCT
56	(38)	CHARACTER	8	DCTDEVN	EBCDIC DEVICE NAME
64	(40)	ADDRESS	4	DCTUCB	UCB ADDRESS
68	(44)	ADDRESS	4	DCTTOKA	SECURITY TOKEN ADDRESS - IF 0, JES TOKEN IS ASSOCIATED WITH DEVICE; ELSE, IS ADDRESS OF TOKEN
72	(48)	CHARACTER	8	DCTSECLB	SECLABEL for device
80	(50)	ADDRESS	8	DCTCDCTX	Addr of common storage extension (64-bit)
88	(58)	BITSTRING	1	DCTLRECL	DEVICE DEFAULT LRECL
		Start of DEVICE ID definition			
89	(59)	BITSTRING	3	DCTDEVID	DEVICE IDENTITY
		DCTDEVID (first byte only) Use CLI, not TM, to test DCTINRID since the equate value is 0.			
		....		DCTINRID	"B'00000000'" Internal reader
		For the following devices, the low 4 bits may be used as a device number 'x': local device - always 0 remote device - RMTn.RDx, RMTn.PRx, RMTn.PUx network device - Ln.JRx, Ln.JTx, Ln.STx, Ln.SRx route device - always hex '8' (DCTRTEID) spof device - always hex 'F' (DCTXFRID) Use CLI to test for a local device. E.G. CLI DCTDEVID,DCTRDRID Local reader? Use TM to test for an RJE or an NJE E.G. TM DCTDEVID,DCTRMTID+DCTNJTID BM Is RJE or NJE BO Is Line or Logon BZ Is Local				
		...1		DCTRDRID	"B'00010000'" Card reader
		..1.		DCTPRTID	"B'00100000'" Printer
		..11		DCTPUNID	"B'00110000'" Punch
		.1..		DCTNJTID	"B'01000000'" Job transmitter
		.1.1		DCTNJRID	"B'01010000'" Job reader

Table 121. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.11.		DCTNSTID	"B'01100000'" Sysout transmitter
		.111		DCTNSRID	"B'01110000'" Sysout receiver
		1...		DCTRMTID	"B'10000000'" Remote device
		B'10010000' DCTRMTID+DCTRDRID B'10100000' DCTRMTID+DCTPRTID B'10110000' DCTRMTID+DCTPUNID			
		11..		DCTLGNID	"B'11000000'" Logon
		11.1		DCTLNEID	"B'11010000'" Line
		111.		DCTSRVID	"B'11100000'" Server
		DCTXFRID is valid only when combined with one of the transmitter/receiver bit equates.			
		 1111		DCTXFRID	"B'00001111'" Spool transfer device
		1111 1111		DCTOFFID	"B'11111111'" Offload parent device
		DCTRTEID is valid only when combined with the job receiver or job transmitter equate.			
		.... 1...		DCTRTEID	"B'00001000'" Route device
		The following equates indicate pseudo devices. There can be up to 15 of these ('0001'b-'1111'b). CLI must be used to test for these devices.			
		1		DCTSFSID	"B'00000001'" SJFR pseudo device
		.... ..1.		DCTSPNID	"B'00000010'" Spin pseudo device - to prevent JOE from getting selected while waiting for checkpoint write
		11		DCTCOMID	"B'00000011'" Command pseudo device
		.... .1..		DCTPRGID	"B'00000100'" Psuedo device indicating JOE is being purged
		.... .1.1		DCTARMID	"B'00000101'" ARM support processor
		EQU B'00000110' Unused EQU B'00000111' Unused EQU B'00001000' Unused EQU B'00001001' Unused EQU B'00001010' Unused EQU B'00001011' Unused EQU B'00001100' Unused			
		.... 11.1		DCTSAPID	"B'00001101'" Sysout API
		.... 111.		DCTOUTID	"B'00001110'" TSO Output command device
		 1111		DCTXWTID	"B'00001111'" External writer device
		The DCTNUM portion of DCTDEVID for the DCTOUTID pseudo device indicates whether the JOE is "checked out" to a non-group request (1) or just busy in PSO (0). If the DCTNUM portion of DCTDEVID is non-zero for the DCTCOMID pseudo device, it indicates that the specific command has completed processing of the JOE.			

Table 121. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
89	(59)	X'5A'	0	DCTNUM	"DCTDEVID+1,2,C'H'" DEVICE NUMBER
89	(59)	X'1'	0	DCTTODNE	"1" $TO has processed the JOE
89	(59)	X'2'	0	DCTRDONE	"2" $R or $GR has processed the JOE
		End of DEVICE ID definition			
92	(5C)	SIGNED	4	DCTUSER0	RESERVED FOR USER
96	(60)	SIGNED	4	DCTUSER1	RESERVED FOR USER
		DCT FOUNDATION EXTENSION ORG POINT - REQUIRED.			
104	(68)	DBL WORD	8	DCTFEORG(0)	DCT FOUNDATION EXT ORIGIN
		LOCAL DEVICE FOUNDATION EXTENSION			
104	(68)	ADDRESS	4		RESERVED
108	(6C)	ADDRESS	4		RESERVED
112	(70)	ADDRESS	4		RESERVED
116	(74)	ADDRESS	4		RESERVED
120	(78)	ADDRESS	4		RESERVED
124	(7C)	CHARACTER	4	DCTUNIT	UNIT FOR LOCAL DEVICES, LINES
128	(80)	BITSTRING	8		Reserved
		SNA LOGON DCT FOUNDATION EXTENSION			
104	(68)	ADDRESS	4		MDCTADCT ADDR NEXT ACTIVE LOGON DCT
108	(6C)	ADDRESS	4	MDCTICE	ADDR OF FIRST LOGGED ON ICE
112	(70)	ADDRESS	4		MDCTDCT RESERVED FOR SNA LOGON DCTS
116	(74)	BITSTRING	1	MDCTXERR	VTAM EXIT ROUTINE ERROR CODE
117	(75)	BITSTRING	1	MDCTATYP	APPLICATION TYPE
118	(76)	BITSTRING	1		MDCTATTN APPLICATION ACTION FLAGS
119	(77)	BITSTRING	1		MDCTSTAT APPLICATION STATUS FLAGS
120	(78)	ADDRESS	2		RESERVED
122	(7A)	BITSTRING	1	MDCTSUSP	DCT SUSPEND FLAG
123	(7B)	ADDRESS	1	MDCTPWDL	APPLICATION PASSWORD LENGTH
124	(7C)	CHARACTER	4		RESERVED
128	(80)	BITSTRING	8		Not used
		TCP NETSRV DCT FOUNDATION EXTENSION			
104	(68)	ADDRESS	4		MDCTADCT Addr next active server DCT
108	(6C)	ADDRESS	4		RESERVED
112	(70)	ADDRESS	4		MDCTDCT RESERVED FOR NETSRV DCTs
116	(74)	BITSTRING	1		Not used
117	(75)	BITSTRING	1		MDCTTYPE APPLICATION TYPE
118	(76)	BITSTRING	1		MDCTATTN APPLICATION ACTION FLAGS
119	(77)	BITSTRING	1		MDCTSTAT APPLICATION STATUS FLAGS
120	(78)	ADDRESS	2		RESERVED
122	(7A)	BITSTRING	1		DCT SUSPEND FLAG
123	(7B)	ADDRESS	1		APPLICATION PASSWORD LENGTH

Table 121. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
124	(7C)	CHARACTER	4		RESERVED
128	(80)	ADDRESS	4		MDCTPCL PCL address
132	(84)	BITSTRING	4		Not used
BSC LINE DCT FOUNDATION EXTENSION					
104	(68)	ADDRESS	4	MDCTADCT	ADDR OF NEXT ACTIVE LINE DCT
108	(6C)	BITSTRING	1	MDCTRSEQ	RECEIVE SEQUENCE COUNT
109	(6D)	BITSTRING	1	MDCTTSEQ	TRANSMIT SEQUENCE COUNT
110	(6E)	BITSTRING	1	MDCTMODE	ADAPTER MODE SET VALUE
111	(6F)	ADDRESS	1	MDCTERCT	LINE ERROR COUNT
112	(70)	ADDRESS	4	MDCTDCT	ADDR OF FIRST REMOTE DCT
116	(74)	BITSTRING	1	MDCTLINE	LINE CHARACTERISTICS
117	(75)	BITSTRING	1	MDCTTYPE	TERMINAL TYPE
118	(76)	BITSTRING	1	MDCTATTN	LINE ACTION FLAGS
119	(77)	BITSTRING	1	MDCTSTAT	LINE STATUS FLAGS
120	(78)	SIGNED	2	MDCTBFSZ	MULTI-LEAVING BUFFER SIZE - 5
122	(7A)	BITSTRING	2	MDCTFCS	LAST RECEIVED FCS
124	(7C)	CHARACTER	4		MDCTUNIT UNIT FOR LOCAL DEVICES, LINES
128	(80)	ADDRESS	4	MDCTPCL	PCL pointer for persistent connections
132	(84)	BITSTRING	4		Not used
SNA LINE DCT FOUNDATION EXTENSION					
104	(68)	ADDRESS	4		MDCTADCT ADDR OF NEXT ACTIVE LNE DCT
108	(6C)	ADDRESS	4		MDCTICE ADDR OF FIRST ALLOCATED ICE
112	(70)	ADDRESS	4		MDCTDCT ADDR OF FIRST REMOTE DCT
116	(74)	BITSTRING	1		MDCTLINE LINE CHARACTERISTICS
117	(75)	BITSTRING	1		MDCTTYPE TERMINAL TYPE
118	(76)	BITSTRING	1		MDCTATTN LINE ACTION FLAGS
119	(77)	BITSTRING	1		MDCTSTAT LINE STATUS FLAGS
120	(78)	ADDRESS	4	MDCTWICE	ADDR OF ICE IN WAIT-TIME DELAY
124	(7C)	CHARACTER	4		DCTUNIT UNIT FOR LCLS/LNES ('SNA ')
128	(80)	ADDRESS	4		MDCTPCL PCL pointer for persistent connections
132	(84)	BITSTRING	4		Not used
TCP/IP LINE DCT FOUNDATION EXTENSION					
104	(68)	ADDRESS	4		MDCTADCT ADDR OF NEXT ACTIVE LNE DCT
108	(6C)	ADDRESS	4		Not used for TCP/IP
112	(70)	ADDRESS	4		MDCTDCT ADDR OF FIRST REMOTE DCT
116	(74)	BITSTRING	1		MDCTLINE LINE CHARACTERISTICS
117	(75)	BITSTRING	1		MDCTTYPE TERMINAL TYPE
118	(76)	BITSTRING	1		MDCTATTN LINE ACTION FLAGS
119	(77)	BITSTRING	1		MDCTSTAT LINE STATUS FLAGS
120	(78)	SIGNED	2		MDCTBFSZ MULTI-LEAVING BUFFER SIZE - 5
122	(7A)	BITSTRING	2		Not used for TCP/IP

Table 121. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
124	(7C)	CHARACTER	4		DCTUNIT UNIT FOR LCLS/LNES ('TCP ')
128	(80)	ADDRESS	4		MDCTPCL PCL pointer for persistent connections
132	(84)	ADDRESS	4	MDCTQTBF	TBUF queued for line req (in jesxTBUF data space)
BSC REMOTE DCT FOUNDATION EXTENSION					
104	(68)	BITSTRING	1	MDCTRECL	REMOTE DEVICE MAX RECORD LENGTH
105	(69)	BITSTRING	1	MDCTRCB	REMOTE DEVICE RECORD CNTRL BYTE
106	(6A)	BITSTRING	1	MDCTFMT	TERMINAL DATA FORMAT
107	(6B)	BITSTRING	1	MDCTFEAT	TERMINAL FEATURES
108	(6C)	ADDRESS	4		RESERVED
112	(70)	ADDRESS	4		MDCTDCT ADDR OF NEXT REMOTE DCT
116	(74)	BITSTRING	1		MDCTLINE LINE CHARACTERISTICS
117	(75)	BITSTRING	1		MDCTTYPE TERMINAL TYPE
118	(76)	BITSTRING	1		RESERVED
119	(77)	BITSTRING	1		MDCTSTAT REMOTE STATUS FLAGS
120	(78)	SIGNED	2		MDCTBFSZ MULTI-LEAVING BFR SIZE - 5
122	(7A)	BITSTRING	2		MDCTFCS REMOTE FUNCTION CTRL SEQ
124	(7C)	CHARACTER	4		DCTUNIT RESERVED
128	(80)	BITSTRING	8		Not used
128	(80)	X'88'	0	MDCTRFXE	"*"
SNA REMOTE DCT FOUNDATION EXTENSION					
104	(68)	BITSTRING	1		MDCTRECL REMOTE DEV MAX RECORD LEN
105	(69)	BITSTRING	1	MDCTSEL	REMOTE DEVICE DATASTREAM SELECT
106	(6A)	BITSTRING	1		MDCTFMT TERMINAL DATA FORMAT
107	(6B)	BITSTRING	1		MDCTFEAT TERMINAL FEATURES
108	(6C)	ADDRESS	4		MDCTICE ADDR OF ASSOCIATED ICE
112	(70)	ADDRESS	4		MDCTDCT ADDR OF NEXT REMOTE DCT
116	(74)	BITSTRING	1		MDCTLINE LINE CHARACTERISTICS
117	(75)	BITSTRING	1		MDCTTYPE TERMINAL TYPE
118	(76)	BITSTRING	1	MDCTFLG1	REMOTE FLAG BYTE
119	(77)	BITSTRING	1		MDCTSTAT REMOTE STATUS FLAGS
120	(78)	ADDRESS	2		MDCTBFSZ MAXIMUM RU SIZE
122	(7A)	BITSTRING	1		RESERVED
123	(7B)	ADDRESS	1	MDCTCHLM	OUTSTANDING CHAIN LIMIT
124	(7C)	CHARACTER	4		RESERVED
128	(80)	BITSTRING	8		Not used
SPOOL OFFLOAD (XFR) DCT FOUNDATION EXTENSION					
104	(68)	BITSTRING	1	XDCTSTAT	STATUS FLAG BYTE
105	(69)	BITSTRING	1	XDCTRCB	STREAM IDENTIFIER
106	(6A)	BITSTRING	2		RESERVED FOR FUTURE USE
108	(6C)	ADDRESS	4	XDCTDCT	PTR TO CHAIN OF RECV/TRANS DCTS
112	(70)	SIGNED	4	(3)	RESERVED FOR FUTURE USE
124	(7C)	CHARACTER	4		RESERVED
128	(80)	BITSTRING	8		Not used
Line transmitter/receiver DCT extension					

Table 121. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
104	(68)	ADDRESS	1		MDCTRECL DEVICE MAX RECORD LENGTH
105	(69)	ADDRESS	1		MDCTRCB DEVICE RECORD CNTRL BYTE
106	(6A)	ADDRESS	2		RESERVED
108	(6C)	ADDRESS	4		RESERVED
112	(70)	ADDRESS	4		MDCTDCT Address of next xmitter/ receiver
116	(74)	ADDRESS	4		RESERVED
120	(78)	ADDRESS	2		RESERVED
122	(7A)	ADDRESS	2		MDCTFCS LAST RECEIVED FCS
124	(7C)	ADDRESS	4		RESERVED
128	(80)	BITSTRING	8		Not used
128	(80)	X'88'	0	DCTSREND	"*"
		DEVICE EXTENSION ORG POINT - OPTIONAL.			
136	(88)	DBL WORD	8	DCTEXORG(0)	DCT DEVICE EXTENSION ORIGIN
		READER DCT EXTENSION			
136	(88)	SIGNED	2	DCTXEQND	DEFAULT EXECUTION NODE
138	(8A)	BITSTRING	1	DCTRDFL1	Reader flags
		1...		DCTR1IND	"B'10000000'" Independent mode
139	(8B)	BITSTRING	1		Reserved for future use
140	(8C)	SIGNED	4	DCTRDRT(0)	READER ROUTE CODE
140	(8C)	SIGNED	2	DCTRDNOD	NODE NUMBER
142	(8E)	SIGNED	2	DCTRDRTE	REMOTE NUMBER
144	(90)	SIGNED	4	DCTPRINT(0)	DEFAULT PRINT ROUTE CODE
144	(90)	SIGNED	2	DCTPRNOD	NODE NUMBER
146	(92)	SIGNED	2	DCTPRRTE	LOCAL PRINTER/REMOTE NUMBER
148	(94)	CHARACTER	8	DCTPRSER	PRINT USERID
156	(9C)	SIGNED	4	DCTPUNCH(0)	DEFAULT PUNCH ROUTE CODE
156	(9C)	SIGNED	2	DCTPUNOD	NODE NUMBER
158	(9E)	SIGNED	2	DCTPURTE	LOCAL PUNCH/REMOTE NUMBER
160	(A0)	CHARACTER	8	DCTPUSER	PUNCH USERID
168	(A8)	BITSTRING	4	DCTSIAFF	Default system affinity
172	(AC)	BITSTRING	1	DCTRAUTH	READER COMMAND AUTHORITY
173	(AD)	CHARACTER	8	DCTJCLA8	Default job class
181	(B5)	CHARACTER	1	DCTMCLAS	DEFAULT MSGCLASS
182	(B6)	BITSTRING	1	DCTPRINC	PRIORITY INCREMENT
183	(B7)	BITSTRING	1	DCTPRLIM	PRIORITY LIMIT
183	(B7)	X'B8'	0	DCTIRORG	"*" END OF COMMON READER DCT FIELDS
184	(B8)	SIGNED	4	DCTRDEND(0)	END OF READER DCT
184	(B8)	X'B8'	0	DCTJREND	"*" END OF JOB RECEIVER DCT
		OPTIONAL SPECIFIC DEVICE EXTENSIONS. EACH DEVICE TYPE MAY DEFINE DIFFERENT DEVICE EXTENSIONS. HOWEVER, TWO COMMON BEGINNINGS EXIST FOR THE DEVICE EXTENSION - ONE FOR DEVICES THAT REQUIRE JOB WORK SELECTION CRITERIA AND ONE FOR DEVICES THAT REQUIRE SYSOUT WORK SELECTION CRITERIA. NOTE THAT ANY DEVICE REQUIRING ONE OF THESE WORK SELECTION SECTIONS MUST DEFINE THAT SECTION STARTING AT DCTEXORG. FIRST, DEFINE FIELDS COMMON TO BOTH SETS OF CRITERIA.			
136	(88)	BITSTRING	1	DCTWORK	JOB RECEIVER WORK AREA
CTWSP--$WSP PREFIX=DCT,DSECT=NO Generate $#GET parms					

Table 121. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
184	(B8)	DBL WORD	8	DCTWSP(0)	HASP WSP
184	(B8)	SIGNED	4	DCTCWS(0)	Start of common work select
184	(B8)	CHARACTER	4	DCTID2	
184	(B8)	X'6'	0	DCTVOLEN	"6" Length of volume
184	(B8)	X'4'	0	DCTVOLMX	"4" Maximum number of volumes
188	(BC)	SIGNED	1	DCTNMVOL	Number of volumes
189	(BD)	BITSTRING	3		Reserved for future use
		Note that the xxxVOL field must always precede the xxxWS field and that the xxxWSPRI must always be the first byte of xxxWS			
192	(C0)	BITSTRING	0	DCTVOL(0)	Device select volume list
192	(C0)	X'4'	0	DCTWSENT	"4" Length of ws entry
192	(C0)	X'C'	0	DCTWSPRL	"DCTWSREQ-DCTWSBEG" Offset of first ws entry
		xxxMAXWS is derived by determining which WSTAB has the largest number of possible entries and then adding two for potential WSTAB user entries in the table pair. As of z/OS Release 13 the largest table is that of the Sysout API which has 23 entries.			
192	(C0)	X'19'	0	DCTMAXWS	"22+1+2" Number of criteria that will fit in xxxWSREQ
216	(D8)	SIGNED	4	(0)	
216	(D8)	CHARACTER	1	DCTWSBEG(0)	Beginning of WS list
216	(D8)	BITSTRING	1	DCTWSPRI	WS priority flag
		1...		DCTQVAL	"B'10000000'" Class optimum WS prio
		.1..		DCTRVAL	"B'01000000'" Route optimum WS prio
		..1.		DCTQWS	"B'00100000'" Use class list for WS
		...1		DCTSLASH	"B'00010000'" Optional criteria switch
		.... 1...		DCTVOLFL	"B'00001000'" Use volume for WS
		.... .1..		DCTWSRNG	"B'00000100'" Select by range specified
		.... ..1.		DCTWSRGS	"B'00000010'" Range criterion after slash
		1		DCTRWS	"B'00000001'" Select by route specifed
217	(D9)	BITSTRING	1	DCTWSPR2	2nd WS priority flag
		1...		DCTWSODP	"B'10000000'" Outdisp specified in WS or Outdisp is not valid WS criterion for dev
		.1..		DCTWSLIM	"B'01000000'" Limit specified in WS
		..1.		DCTSLLIM	"B'00100000'" Limit is after slash
		...1		DCTWSCTK	"B'00010000'" Select by CTOKEN
		.... 1...		DCTODPNV	"B'00001000'" Outdisp is not a valid WS criterion for dev; forced to WRITE/KEEP
		.... .1..		DCTPRIRQ	"B'00000100'" Priority in WS list

Table 121. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Position indicator is an index of attribute in the criteria value vector. For attributes before PRIORITY, this is the same as index of attribute in the WSREQ array. For attribute after PRIORITY, it is one greater, because PRIORITY tales two bytes in the value vector. Value of X'FF' for xxxPOS, indicates that attribute is not in the WSREQ or it's position is irrelevant.			
218	(DA)	BITSTRING	1	DCTQPOS	Position of Q
219	(DB)	BITSTRING	1	DCTLPOS	Position of LIM
220	(DC)	BITSTRING	1	DCTRPOS	Position of RC
221	(DD)	BITSTRING	1	DCTPPOS	Position of P (set to &P.POSNL if ignored)
222	(DE)	SIGNED	2	DCTONODE	Job's origin node number
224	(E0)	BITSTRING	1	DCTPPOSM	Position of P
225	(E1)	BITSTRING	3		Reserved
		1111 1111		DCTPOSNL	"X'FF'" Position has not been set
228	(E4)	BITSTRING	1	DCTWSREQ	Work selection via ws parm
228	(E4)	X'D8'	0	DCTWS	"DCTWSBEG,*-DCTWSBEG,C'X'" Max length ws list
328	(148)	ADDRESS	4	DCTWSTB	Addr of related ws table pair
328	(148)	X'4'	0	DCTRCMAX	"4" Define maximum route codes
328	(148)	X'0'	0	DCTNODE	"0,2,C'H'" Offset/len of node in rc
328	(148)	X'2'	0	DCTROUTE	"2,2,C'H'" Offset/length of remote in rc
328	(148)	X'4'	0	DCTUSEID	"4,8,C'D'" Offset/len of userid in rc
328	(148)	X'C'	0	DCTRCLEN	"L'DCTNODE+L'DCTROUTE+L'DCTUSEID" Len of rc
328	(148)	X'4'	0	DCTNRLEN	"L'DCTNODE+L'DCTROUTE" Len of node and route
332	(14C)	CHARACTER	0	DCTRC(0)	Space for route codes
380	(17C)	ADDRESS	2	(0)	xxxNRC must follow xxxRC
380	(17C)	CHARACTER	8	DCTJOBNM	Job name for device work select
388	(184)	CHARACTER	8	DCTCURJB	Job name of element last selected
396	(18C)	CHARACTER	8	DCTCRUID	Value for creator= keyword
404	(194)	ADDRESS	1	DCTNRC	Number of route codes
405	(195)	BITSTRING	1	DCTRTEQ	and route output queue flag
		1...		DCTWSLOC	"B'10000000'" Scan local output queue
		.1..		DCTWSRMT	"B'01000000'" Scan remote output queue
		..1.		DCTWSNET	"B'00100000'" Scan network queue
		...1		DCTWSUSE	"B'00010000'" Scan userid queue
		1...		DCTINDIR	"B'10000000'" Indirect routing flag (HASPINIT ONLY)
406	(196)	BITSTRING	1	DCTWSFG5	Misc flags
		1...		DCT1GENC	"B'10000000'" Low job id has a generic

Table 121. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		DCT1GEN1	"B'01000000'" Low job id has generic '*' as the first character
407	(197)	BITSTRING	1		Reserved for future use
408	(198)	SIGNED	4	DCTJNUML	Device select low job number
412	(19C)	SIGNED	4	DCTJNUMH	Device select high job number
416	(1A0)	CHARACTER	8	DCTJCHRL	Character view of low job number
424	(1A8)	CHARACTER	8	DCTJCHRH	Character view of high job number
432	(1B0)	ADDRESS	4	(2)	Reserved for future use
440	(1B8)	BITSTRING	1	DCTWSFG1	Device select flags
		1...		DCTWSHLD	"B'10000000'" Select held jobs
		.1..		DCTWSHNS	"B'01000000'" Hold operand not specified
		..1.		DCTWSNOT	"B'00100000'" Send notify message
		...1		DCTWSFJR	"B'00010000'" Select within JOB range
		.... 1...		DCTWSFST	"B'00001000'" Select within STC range
		.... .1..		DCTWSFTS	"B'00000100'" Select within TSU range
		.... ..1.		DCTWSFAP	"B'00000010'" Select APPC initiators
		...1 111.		DCTWSANY	"B'00011110'" Select any range
441	(1B9)	BITSTRING	1	DCTWSFG4	Device select flags
		1...		DCTWSENL	"B'10000000'" Enforce line limits
		.1..		DCTWSENP	"B'01000000'" Enforce page limits
		B'00111111' Reserved for future use			
444	(1BC)	SIGNED	4	DCTWRNUM	Writer ID number for JOE/Writer exclude list
448	(1C0)	BITSTRING	8	DCTWRASI	Writer ID address space level used for JOE/Writer exclude list
456	(1C8)	CHARACTER	8	DCTDEVN2	Device name of form: For non-SAPI DCTDEVN For SAPI jobname.sss2appl
456	(1C8)	X'1C8'	0	DCTDEVNC	"DCTDEVN2,*-DCTDEVN2,C'C'" Complete device name
473	(1D9)	BITSTRING	1	DCTDEVT2	Device type (copy of DCTDEVTP)
474	(1DA)	BITSTRING	3	DCTDEVI2	Device identity (copy of DCTDEVID)
477	(1DD)	BITSTRING	3		Reserved for future use
480	(1E0)	SIGNED	4	DCTLIMLO	Device lower limit (records)
484	(1E4)	SIGNED	4	DCTLIMHI	Device upper limit (records)
488	(1E8)	SIGNED	4	(0)	Force alignment
488	(1E8)	X'130'	0	DCTCWSLN	"*-DCTCWS" Length of common criteria fields
		Job work selection criteria fields			
184	(B8)	SIGNED	4	DCTJWS(0)	Start of job work selection
184	(B8)	BITSTRING	304		Fields common with sysout select

Table 121. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
488	(1E8)	BITSTRING	4	DCTSAF	Device select affinity list
492	(1EC)	ADDRESS	4	DCTSAFPT	System affinity list pointer
496	(1F0)	CHARACTER	8	DCTSRVCL	Service class
504	(1F8)	CHARACTER	16	DCTSCHE	Scheduling environment
520	(208)	BITSTRING	1	DCTJWSFL	Job Work Selection flags
		1...		DCTJCFMT	"B'10000000'" Job Work Selection class list format : OFF = Class list contains up to 36 one char class names. ON = Class list contains a mixture of up to 8 eight char class names and class group names.
521	(209)	BITSTRING	1		Reserved
522	(20A)	CHARACTER	64	DCTJCLAS	Job Work Selection class list, terminated by a blank. Contents depend on the Class list format bit (see above).
522	(20A)	CHARACTER	36	DCTJCLS1	1 character class list (___JCFMT bit off)
522	(20A)	CHARACTER	8	DCTJCLS8(0)	8 character class list (___JCFMT bit on)
522	(20A)	X'192'	0	DCTJWSLN	"*-DCTJWS" Length of WSP for job work selection
Sysout work selection criteria fields					
184	(B8)	SIGNED	4	DCTSWS(0)	Start of sysout work selection
184	(B8)	BITSTRING	304		Fields common with sysout select
488	(1E8)	CHARACTER	8	DCTFORMS	Current print/punch forms id
496	(1F0)	CHARACTER	37	DCTCLASS	SYSOUT Work Selection class list, terminated by blank. Contains a list of one byte values.
533	(215)	BITSTRING	3		Reserved
536	(218)	CHARACTER	64	DCTJCOR	Job Correlator
600	(258)	CHARACTER	8	DCTWFORM(0)	Forms for work selection
600	(258)	X'258'	0	DCTWFORC	"DCTWFORM,*-DCTWFORM,C'C'" Forms
664	(298)	CHARACTER	4	DCTFCB	Printer fcb (carriage tape) id
668	(29C)	CHARACTER	4	DCTUCS	Printer ucs id
672	(2A0)	CHARACTER	4	DCTFLASH	Printer overlay frame
676	(2A4)	CHARACTER	4	DCTFLSHD	N/I-printer overlay default
680	(2A8)	SIGNED	4	DCTPLIML	Device lower limit (pages)
684	(2AC)	SIGNED	4	DCTPLIMH	Device upper limit (pages)
688	(2B0)	SIGNED	4	DCTAGE	Age in seconds since JOE creation
692	(2B4)	CHARACTER	8	DCTWTRID	Ext wtr name for work select
700	(2BC)	BITSTRING	8	DCTPRMD	Prmode index list
708	(2C4)	ADDRESS	4	DCTPRTBL	Address of PRMODE table or zero
712	(2C8)	BITSTRING	1	DCTWSFG2	Device select flag
		1...		DCTWSDSH	"B'10000000'" Select held output
		.1..		DCTNIBRS	"B'01000000'" Select bursted output
		..1.		DCTWSDAN	"B'00100000'" Select held/non-held output

Table 121. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		DCTWSBNS	"B'00010000'" Burst operand not specified
		The following two bits are mutually exclusive. If both of them are OFF, this device DOES NOT support IP-format destination (this is the default for all JES2 local devices.)			
		.... 1...		DCTWSIP	"B'00001000'" Select only IP-format
		.... .1..		DCTWSBTH	"B'00000100'" Select both IP and non-IP
		.... ..1.		DCTWSTKN	"B'00000010'" Select by token mapped by $CTOKEN & blocked output is OK
713	(2C9)	BITSTRING	1	DCT1STFL	Device select flag byte
713	(2C9)	X'8'	0	DCT1SODW	"$ODWRITE" Select OUTDISP=WRITE
713	(2C9)	X'4'	0	DCT1SODH	"$ODHOLD" Select OUTDISP=HOLD
713	(2C9)	X'2'	0	DCT1SODK	"$ODKEEP" Select OUTDISP=KEEP
713	(2C9)	X'1'	0	DCT1SODL	"$ODLEAVE" Select OUTDISP=LEAVE
713	(2C9)	X'F'	0	DCT1SODA	"$ODANY" Check all bit settings
714	(2CA)	BITSTRING	2		Reserved for future use
		xxxPJOE identifies the next JOE for this device to process. Three different values are possible: 0 - nothing in queue for this device positive - one JOE to process and the address is the positive value in xxxPJOE -1 - more then one JOE in queue for this device			
716	(2CC)	ADDRESS	4	DCTPJOE	Next JOE to process
716	(2CC)	X'218'	0	DCTSWSCR	"*-DCTSWS" Length of WSP fields which represent SYSOUT work selection criteria
		The following fields are used to manage WSP and are not part of selection criteria.			
720	(2D0)	ADDRESS	4	DCTGTW	Address of $#GET Trace work area
724	(2D4)	ADDRESS	4	DCTASAPI	Address of SAPID (ALET is in $SAPTOK in HCT)
728	(2D8)	ADDRESS	4	DCTNACTV	Next active DCT address SAPI - next WSP in chain
732	(2DC)	ADDRESS	4	DCTPACTV	Previous active DCT address SAPI - prev WSP in chain
736	(2E0)	BITSTRING	1	DCTWSFG3	WSP status flag
		1...		DCTWS3QD	"B'10000000'" DCT is on an active DCT Q SAPI - WSP is on a list of postable WSPs
		.1..		DCTWS3QT	"B'01000000'" SAPI - WSP is on list for selection on token
		..1.		DCTWS3QX	"B'00100000'" SAPI - WSP is on list for selection expression
		...1		DCTWS3CF	"B'00010000'" WSP classification for cache was performed
		.... 1...		DCTWS3XN	"B'00001000'" WSP expression is not compatible with cache key
737	(2E1)	BITSTRING	3		Reserved for future use

Table 121. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Cache list entries in xxxCLENT list represent this WSP in the $#POST cache. (See XCWELT in $XCW.) Cache nodes in the xxxCNODE list are the cache nodes which point to this WSP as last scanned WSP. (See XCWNODE in $XCW.)			
744	(2E8)	ADDRESS	8	DCTCLENT	Ptr to cache list entries
752	(2F0)	ADDRESS	8	DCTCNODE	Ptr to cache nodes
760	(2F8)	ADDRESS	4	(0)	Align on a full word
760	(2F8)	X'240'	0	DCTSWSLN	"*-DCTSWS" Length of WSP for SYSOUT work selection
760	(2F8)	X'240'	0	DCTLENG	"*-DCTCWS" Allocation length of WSP
		SNA LOGON DCT EXTENSION			
136	(88)	CHARACTER	8		APPLICATION PASSWORD
144	(90)	ADDRESS	2	MDCTSNCT	COUNT OF LOGGED ON TERMINALS
146	(92)	ADDRESS	1		RESERVED FOR SNA LOGON DCTS
147	(93)	ADDRESS	1	MDCTAPNL	APPLICATION NAME LENGTH
148	(94)	CHARACTER	8	MDCTAPPL	APPLICATION NAME
156	(9C)	SIGNED	4	MDCTLOGN	COUNT OF LOGONS TO APPL
160	(A0)	SIGNED	4	MDCTNICE	LOGON FAILED FOR ICE COUNT
164	(A4)	SIGNED	4	MDCTNLNE	LOGON FAILED FOR LINE COUNT
168	(A8)	SIGNED	4	MDCTINVL	LOGON FAILED FOR DATA COUNT
172	(AC)	SIGNED	4	MDCTABRT	SESSION ABNORMAL TERM COUNT
176	(B0)	SIGNED	4		RESERVED FOR FUTURE USE
184	(B8)	DBL WORD	8	MDCTRAWK(0)	ACTIVE RECEIVE ANY BUFFER WORK
184	(B8)	SIGNED	2	MDCTRALM	ACTIVE RECEIVE ANY BUFFER LIMIT
186	(BA)	SIGNED	2	MDCTRACT	ACTIVE RECEIVE ANY BUFFER COUNT
188	(BC)	ADDRESS	4	MDCTRABF	ACTIVE RECEIVE ANY BUFFER CHAIN
192	(C0)	DBL WORD	8	MDCTRQWK(0)	QUEUED RECEIVE ANY BUFFER WORK
192	(C0)	SIGNED	2	MDCTRQLM	QUEUED RECEIVE ANY BUFFER LIMIT
194	(C2)	SIGNED	2	MDCTRQCT	QUEUED RECEIVE ANY BUFFER COUNT
196	(C4)	ADDRESS	4	MDCTRQBF	QUEUED RECEIVE ANY BUFFER CHAIN
200	(C8)	DBL WORD	8	MDCTEXWK(0)	EXIT ROUTINE WORK AREA
200	(C8)	SIGNED	4	MDCTEXCD(0)	EXIT ROUT. ACTION CODE WORKAREA
200	(C8)	BITSTRING	3		RESERVED
203	(CB)	BITSTRING	1	MDCTXCOD	EXIT ROUTINE REQ ACTION CODE
204	(CC)	ADDRESS	4	MDCTEXIT	ADDR OF NEXT SCHED LOGON DCT
208	(D0)	SIGNED	4	MDCTLGND(0)	END OF SNA LOGON DCT
		TCP/IP NETSRV DCT extension			
136	(88)	CHARACTER	8	MDCTPGM	Program name
144	(90)	CHARACTER	8	MDCTPROC	Proc name
152	(98)	ADDRESS	2	MDCTKEEP	Default keep alive interval
154	(9A)	SIGNED	2	MDCTSBSZ	Server buffer size
156	(9C)	ADDRESS	4	MDCTSCK	SCK address
160	(A0)	CHARACTER	8	MDCTSOCK	Socket name
168	(A8)	ADDRESS	4	MDCTSSQD	SQD used to start server ASID
172	(AC)	SIGNED	2	MDCTASID	ASID of server addrspc
174	(AE)	BITSTRING	1	MDCTNFLG	NETSRV flags
		1...		MDCTNVRB	"B'10000000'" NETSRV Verbose mode at NETSRV level

Table 121. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		MDCTNTRC	"B'01000000'" NETSRV common tracing at NETSRV level
		..1.		MDCTNTRJ	"B'00100000'" NETSRV JES tracing at NETSRV level
		...1		MDCTNSSL	"B'00010000'" Outbound connect with SSL
		.... 1...		MDCTNSLO	"B'00001000'" All connects must be SSL
175	(AF)	BITSTRING	1		Reserved
176	(B0)	CHARACTER	8	MDCTASNM	Address space name
184	(B8)	CHARACTER	8	MDCTSTAK	TCP/IP stack name
192	(C0)	SIGNED	4	MDCTSVND(0)	END OF TCP SERVER DCT
BSC LINE DCT EXTENSION					
136	(88)	CHARACTER	8	MDCTPSWD	RJE LINE PASSWORD
144	(90)	ADDRESS	4	MDCTOBUF	RJE OUTPUT BUFFER CHAIN
148	(94)	SIGNED	4	MDCTIMOK	TIME OF LAST TRANSMISSION
152	(98)	ADDRESS	4	MDCTRAT	ADDRESS OF RAT ENTRY (RJE) ADDRESS OF NIT ENTRY (NJE)
156	(9C)	ADDRESS	4	MDCTCODE	ADDRESS OF RJE CODE TABLE
160	(A0)	BITSTRING	0	MDCTOTAL(0)	DCT EVENT COUNTERS
160	(A0)	SIGNED	4	MDCTXCP	LINE COUNTS - TOTAL EXCPS
164	(A4)	SIGNED	4	MDCTNAK	NAKS TO WRITE TEXT
168	(A8)	SIGNED	4	MDCTDCK	DATA CHECKS TO READ TEXT
172	(AC)	SIGNED	4	MDCTTO	TIMEOUTS TO READ TEXT
176	(B0)	SIGNED	4	MDCTREM	ALL OTHER ERRORS
180	(B4)	BITSTRING	0	MDCTCNTS(0)	DCT SESSION EVENT COUNTERS
180	(B4)	SIGNED	4	MDCTSXCP	SESSION COUNTS - TOTAL EXCPS
184	(B8)	SIGNED	4	MDCTSNAK	NAKS TO WRITE TEXT
188	(BC)	SIGNED	4	MDCTSDCK	DATA CHECKS TO READ TEXT
192	(C0)	SIGNED	4	MDCTSTO	TIMEOUTS TO READ TEXT
196	(C4)	SIGNED	4	MDCTSREM	ALL OTHER ERRORS
200	(C8)	BITSTRING	1	MDCTPMBC	NETWORK PATH MGR BUF COUNT
201	(C9)	BITSTRING	1	MDCTPMFL	NETWORK PATH MGR FLAGS
202	(CA)	SIGNED	2	MDCTDCNT	DEDICATED LINE DCT COUNT
204	(CC)	ADDRESS	4	MDCTACT(0)	ACTIVE HARDWARE RJE DCT
204	(CC)	ADDRESS	4	MDCTNM	NETWORK MULTIPLE TRUNK QUEUE
208	(D0)	ADDRESS	4	MDCTNA	NETWORK ACTIVE QUEUE
212	(D4)	SIGNED	2	MDCTNR	NETWORK HALF LINE RESISTANCE
214	(D6)	SIGNED	2	MDCTNNR	NETWORK NODE TO NODE RESISTANCE
216	(D8)	ADDRESS	4	MDCTNCES	NETWORK CONNECT EVENT SEQUENCE
220	(DC)	BITSTRING	1	MDCTNFL2	NETWORK FLAGS II
221	(DD)	BITSTRING	1	MDCTNFL3	Network flags III
222	(DE)	BITSTRING	1		MDCTTFLG Reserved for future use
223	(DF)	CHARACTER	1	MDCTLNCC	Last NCC signon record sent
224	(E0)	SIGNED	2	MDCTOPCT	COUNT OF OPEN RJE PROCESSORS
226	(E2)	BITSTRING	1	MDCTNFL	NETWORK FLAGS
227	(E3)	SIGNED	1	MDCTCMCT	CONSOLE MESSAGE COUNT
227	(E3)	X'CC'	0	MDCTNETA	"MDCTNM,*-MDCTNM" NETWORK AREA FOR $NPMWORK
228	(E4)	BITSTRING	8	MDCTNEGR	PENDING NEGATIVE XMTTER RESPONSES
236	(EC)	SIGNED	4	MDCTNO(0)	LINE ROUTE CODE

Table 121. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
236	(EC)	ADDRESS	2	MDCTNODE	NODE NUMBER
238	(EE)	ADDRESS	1	MDCTQUAL	QUALIFIER
239	(EF)	ADDRESS	1		RESERVED FOR FUTURE USE
240	(F0)	ADDRESS	4	MDCTNMAP	NETWORK PATH MAN NOTIFY MAP
244	(F4)	ADDRESS	4	MDCTRNTA	REACHABLE NODES TABLE ADDR, ZERO UNLESS LINE IN NJE USE RNT=1 BIT PER NODE
248	(F8)	CHARACTER	8	MDCTNPAS	PASSWORD to send to node (BSC Only)
256	(100)	SIGNED	4	MDCTMDOM	$HASP500 DOM ID
260	(104)	SIGNED	4	MDCTIFEA	NJE signon feature flags supported by this line
264	(108)	ADDRESS	4	MDCTNLDV(0)	Numbers of line subdevices
264	(108)	ADDRESS	1	MDCTJTNM	LINEnn JTNUM= value
265	(109)	ADDRESS	1	MDCTJRNM	LINEnn JRNUM= value
266	(10A)	ADDRESS	1	MDCTSTNM	LINEnn STNUM= value
267	(10B)	ADDRESS	1	MDCTSRNM	LINEnn SRNUM= value
268	(10C)	ADDRESS	4	MDCTMRT	MRT address
272	(110)	ADDRESS	4	MDCTMRRT	MRRT address
276	(114)	SIGNED	4	MDCTSONT(0)	Multi-trunk signon retry time
276	(114)	SIGNED	4	MDCTNOTS	RCP CMB Throw-away time
280	(118)	BITSTRING	8	MDCTIKEY	Secure NJE signon key
288	(120)	BITSTRING	8	MDCTISTR	Secure NJE random string
296	(128)	BITSTRING	8	MDCTESTR	Encrypted received string
304	(130)	ADDRESS	4	MDCTISWL	SWEL addr (secure signon)
308	(134)	SIGNED	4	MDCTRSTM	MDCTRSTM Disconnect time (STCK)
312	(138)	SIGNED	2	MDCTRSTI	MDCTRSTI Restart interval (minutes)
314	(13A)	BITSTRING	1		Reserved
315	(13B)	BITSTRING	1	MDCTRSTF	MDCTRSTF Flags
		1...		MDCTRFCY	"B'10000000'" Auto-restart NJE connection
		.1..		MDCTRFCN	"B'01000000'" Never Auto-restart
316	(13C)	SIGNED	2	MDCTLNOD	Associated node
320	(140)	SIGNED	4	MDCTLEND(0)	END OF LINE DCT
SNA LINE DCT EXTENSION					
136	(88)	CHARACTER	8		MDCTPSWD RJE LINE PASSWORD
144	(90)	ADDRESS	2		MDCTSNCT ALLOCATED SESSION COUNT
146	(92)	SIGNED	2		RESERVED
148	(94)	SIGNED	4		MDCTIMOK TIME OF LAST TRANSMISSION
152	(98)	ADDRESS	4		MDCTRAT ADDRESS OF RAT ENTRY (RJE) ADDRESS OF NIT ENTRY (NJE)
156	(9C)	ADDRESS	4	MDCTATE	APT address for automatic restart from NPM recovery
160	(A0)	SIGNED	4	MDCTVREQ	TOTAL COUNT OF VTAM REQ PROCESSED
164	(A4)	SIGNED	4	MDCTXRSP	TOTAL COUNT OF EXCEPTION RESP
168	(A8)	SIGNED	4	MDCTLUST	TOTAL COUNT OF LUSTAT RECEIVED
172	(AC)	SIGNED	4	MDCTBIDR	TOTAL COUNT OF BID REJECTED
176	(B0)	SIGNED	4	MDCTMPER	TOTAL COUNT OF TEMPORARY ERRORS
180	(B4)	SIGNED	4	MDCTSCNT(5)	REMOTE COUNTS

Table 121. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
200	(C8)	BITSTRING	1		MDCTPMBC NETWORK PATH MGR BUF COUNT
201	(C9)	BITSTRING	1		MDCTPMFL NETWORK PATH MGR FLAGS
202	(CA)	SIGNED	2		MDCTDCNT DEDICATED LINE DCT COUNT
204	(CC)	ADDRESS	4		MDCTNM NETWORK MULTI TRUNK QUEUE
208	(D0)	ADDRESS	4		MDCTNA NETWORK ACTIVE QUEUE
212	(D4)	SIGNED	2		MDCTNR NJE SESSION RESISTNCE FROM APT
214	(D6)	SIGNED	2		MDCTNNR NJE TOTAL CONNECTION RESISTANCE
216	(D8)	ADDRESS	4		MDCTNCES NJE CONNECTION EVENT SEQUENCE
220	(DC)	BITSTRING	1		MDCTNFL2 Network flags II
221	(DD)	BITSTRING	1		MDCTNFL3 Network flags III
222	(DE)	BITSTRING	1		MDCTTFLG Reserved for future use
223	(DF)	CHARACTER	1		MDCTLNCC Last signon NCC record sent
224	(E0)	SIGNED	2		MDCTOPCT COUNT OF OPEN RJE PROCESSORS
226	(E2)	BITSTRING	1		MDCTNFL NETWORK FLAGS
227	(E3)	SIGNED	1		MDCTCMCT CONSOLE MESSAGE COUNT
228	(E4)	BITSTRING	8		RESERVED
236	(EC)	ADDRESS	4		MDCTNO LINE ROUTE CODE
240	(F0)	ADDRESS	4		MDCTNMAP NETWORK PATH MAN NOTIFY MAP
244	(F4)	ADDRESS	4		MDCTRNTA REACHABLE NODES TABLE ADDR
248	(F8)	CHARACTER	8	MDCTATMP	APPL NAME (SNA ONLY)
256	(100)	SIGNED	4		MDCTMDOM $HASP500 DOM ID
260	(104)	SIGNED	4		MDCTIFEA NJE signon feature flags supported by this line
264	(108)	ADDRESS	1		MDCTJTNM LINEnn JTNUM= value
265	(109)	ADDRESS	1		MDCTJRNM LINEnn JRNUM= value
266	(10A)	ADDRESS	1		MDCTSTNM LINEnn STNUM= value
267	(10B)	ADDRESS	1		MDCTSRNM LINEnn SRNUM= value
268	(10C)	ADDRESS	4		MDCTMRT MRT address
272	(110)	ADDRESS	4		MDCTMRRT MRRT address
276	(114)	SIGNED	4		MDCTNOTS/MDCTSONT Time stamp
280	(118)	BITSTRING	8		MDCTIKEY Secure NJE signon key
288	(120)	BITSTRING	8		MDCTISTR Secure NJE random string
296	(128)	BITSTRING	8		MDCTESTR Encrypted received string
304	(130)	ADDRESS	4		MDCTISWL SWEL addr (secure signon)
308	(134)	SIGNED	4		MDCTRSTM Disconnect time (STCK)
312	(138)	SIGNED	2		MDCTRSTI Restart interval (minutes)
314	(13A)	BITSTRING	1		Reserved
315	(13B)	BITSTRING	1		MDCTRSTF Flags
316	(13C)	SIGNED	2		MDCTLNOD Flags
320	(140)	SIGNED	4	(0)	SNA LINE DCT END (MDCTLEND)

Table 121. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
TCP LINE DCT EXTENSION					
136	(88)	CHARACTER	8		MDCTPSWD RJE LINE PASSWORD
144	(90)	ADDRESS	2		RESERVED
146	(92)	SIGNED	2		RESERVED
148	(94)	SIGNED	4		MDCTIMOK TIME OF LAST TRANSMISSION
152	(98)	ADDRESS	4		MDCTRAT ADDRESS OF NIT ENTRY (NJE)
156	(9C)	ADDRESS	4		MDCTSCK SCK address for related socket
160	(A0)	CHARACTER	8		MDCTSOCK Socket name
168	(A8)	ADDRESS	4	MDCTNDCT	Addr of NETSRV DCT
172	(AC)	SIGNED	4		RESERVED
176	(B0)	SIGNED	4		RESERVED
180	(B4)	SIGNED	4	(5)	REMOTE COUNTS
200	(C8)	BITSTRING	1		MDCTPMBC NETWORK PATH MGR BUF COUNT
201	(C9)	BITSTRING	1		MDCTPMFL NETWORK PATH MGR FLAGS
202	(CA)	SIGNED	2		MDCTDCNT DEDICATED LINE DCT COUNT
204	(CC)	ADDRESS	4		MDCTNM NETWORK MULTI TRUNK QUEUE
208	(D0)	ADDRESS	4		MDCTNA NETWORK ACTIVE QUEUE
212	(D4)	SIGNED	2		MDCTNR NJE SESSION RESISTNCE FROM APT
214	(D6)	SIGNED	2		MDCTNNR NJE TOTAL CONNECTION RESISTANCE
216	(D8)	ADDRESS	4		MDCTNCES NJE CONNECTION EVENT SEQUENCE
220	(DC)	BITSTRING	1		MDCTNFL2 Network flags II
221	(DD)	BITSTRING	1		MDCTNFL3 Network flags III
222	(DE)	BITSTRING	1	MDCTTFLG	TCP Flags
		1...		MDCTTDRN	"B'10000000'" STOP NRQ sent ($P)
		.1..		MDCTTVRB	"B'01000000'" NETSRV verbose mode at line level
		..1.		MDCTTTRC	"B'00100000'" NETSRV common tracing at line level
		...1		MDCTTTRJ	"B'00010000'" NETSRV JES tracing at line level
223	(DF)	CHARACTER	1		MDCTLNCC Last signon NCC record sent
224	(E0)	SIGNED	2		MDCTOPCT COUNT OF OPEN RJE PROCESSORS
226	(E2)	BITSTRING	1		MDCTNFL NETWORK FLAGS
227	(E3)	BITSTRING	1		MDCTCMCT CONSOLE MESSAGE COUNT
228	(E4)	BITSTRING	8		RESERVED
236	(EC)	ADDRESS	4		MDCTNO LINE ROUTE CODE
240	(F0)	ADDRESS	4		MDCTNMAP NETWORK PATH MAN NOTIFY MAP
244	(F4)	ADDRESS	4		MDCTRNTA REACHABLE NODES TABLE ADDR
248	(F8)	CHARACTER	8		MDCTNPAS Node Password
256	(100)	SIGNED	4		MDCTMDOM $HASP500 DOM ID

Table 121. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
260	(104)	SIGNED	4		MDCTIFEA NJE signon feature flags supported by this line
264	(108)	ADDRESS	1		MDCTJTNM LINEnn JTNUM= value
265	(109)	ADDRESS	1		MDCTJRNM LINEnn JRNUM= value
266	(10A)	ADDRESS	1		MDCTSTNM LINEnn STNUM= value
267	(10B)	ADDRESS	1		MDCTSRNM LINEnn SRNUM= value
268	(10C)	ADDRESS	4		MDCTMRT MRT address
272	(110)	ADDRESS	4		MDCTMRRT MRRT address
276	(114)	SIGNED	4		MDCTNOTS/MDCTSONT Time stamp
280	(118)	BITSTRING	8		MDCTIKEY Secure NJE signon key
288	(120)	BITSTRING	8		MDCTISTR Secure NJE random string
296	(128)	BITSTRING	8		MDCTESTR Encrypted received string
304	(130)	ADDRESS	4		MDCTISWL SWEL addr (secure signon)
308	(134)	SIGNED	4		MDCTRSTM Disconnect time (STCK)
312	(138)	SIGNED	2		MDCTRSTI Restart interval (minutes)
314	(13A)	BITSTRING	1		Reserved
315	(13B)	BITSTRING	1		MDCTRSTF Flags
316	(13C)	SIGNED	2		MDCTLNOD Flags
320	(140)	SIGNED	4	(0)	TCP LINE DCT END (MDCTLEND)
MAS LINE DCT EXTENSION					
136	(88)	ADDRESS	0	MDCTAFTK(0)	Affinity token for member
136	(88)	CHARACTER	8		Reserved
144	(90)	BITSTRING	1	MDCTMEMB	ID of associated member
145	(91)	BITSTRING	3		Reserved
148	(94)	SIGNED	4		Time of last transmission
152	(98)	ADDRESS	4		MDCTRAT Address of NIT entry
156	(9C)	ADDRESS	4	MDCTNATP	NATP chain for response to member signon propagation
160	(A0)	ADDRESS	4	MDCTNPCH	Chain of permanent NATPs
164	(A4)	ADDRESS	4	MDCTNQSE	QSE address
168	(A8)	ADDRESS	4	MDCTMDNQ	Member down chain field
172	(AC)	SIGNED	4	MDCTMTIM	Time last MAS I/J sent to this member
176	(B0)	SIGNED	4	MDCTMDID	$HASP501 DOM id
180	(B4)	SIGNED	4	(5)	Reserved
200	(C8)	BITSTRING	1		NETWORK PATH MGR BUF COUNT
201	(C9)	BITSTRING	1		NETWORK PATH MGR FLAGS
202	(CA)	SIGNED	2		Reserved
204	(CC)	ADDRESS	4		MDCTNM NETWORK MULTI TRUNK QUEUE
208	(D0)	ADDRESS	4		MDCTNA NETWORK ACTIVE QUEUE
212	(D4)	SIGNED	2		MDCTNR NJE SESSION RESISTNCE
214	(D6)	SIGNED	2		MDCTNNR NJE TOTAL RESISTANCE
216	(D8)	ADDRESS	4		MDCTNCES NJE CONNECT EVENT SEQUENCE
220	(DC)	BITSTRING	1		MDCTNFL2 Network flags II
221	(DD)	BITSTRING	1		MDCTNFL3 Network flags III
222	(DE)	BITSTRING	1		MDCTTFLG Reserved for future use
223	(DF)	CHARACTER	1		MDCTLNCC Reserved

Table 121. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
224	(E0)	SIGNED	2		Reserved
226	(E2)	BITSTRING	1		MDCTNFL Network flags
227	(E3)	SIGNED	1		Reserved
228	(E4)	BITSTRING	8		RESERVED
236	(EC)	ADDRESS	4		MDCTNO LINE ROUTE CODE
240	(F0)	ADDRESS	4		MDCTNMAP NETWORK PATH MAN NOTIFY MAP
244	(F4)	ADDRESS	4		MDCTRNTA REACHABLE NODES TABLE ADDR
248	(F8)	CHARACTER	8		APPL NAME (SNA ONLY)
256	(100)	SIGNED	4		MDCTMDOM $HASP500 DOM ID
260	(104)	SIGNED	4		NJE signon feature flags supported by this line
264	(108)	ADDRESS	1		LINEnn JTNUM= value
265	(109)	ADDRESS	1		LINEnn JRNUM= value
266	(10A)	ADDRESS	1		LINEnn STNUM= value
267	(10B)	ADDRESS	1		LINEnn SRNUM= value
268	(10C)	ADDRESS	4		MDCTMRT MRT address
272	(110)	ADDRESS	4		MDCTMRRT MRRT address
276	(114)	SIGNED	4		MDCTNOTS/MDCTSONT Time stamp
280	(118)	BITSTRING	8		Reserved
288	(120)	BITSTRING	8		Reserved
296	(128)	BITSTRING	8		Reserved
304	(130)	ADDRESS	4		Reserved
308	(134)	SIGNED	4		Reserved
312	(138)	SIGNED	2		Reserved
314	(13A)	BITSTRING	1		Reserved
315	(13B)	BITSTRING	1		Reserved
316	(13C)	SIGNED	2		Reserved
320	(140)	SIGNED	4	(0)	MAS LINE DCT END (MDCTLEND)
LOCAL/RMT PRINT/PUNCH DCT EXTENSION.					
184	(B8)	BITSTRING	576		SPACE FOR SYSOUT WORK SELECTION
760	(2F8)	CHARACTER	8	DCTFSSNM	FSS NAME
768	(300)	ADDRESS	4	DCTFSSCH(0)	NEXT FSS DCT (INIT ONLY)
768	(300)	SIGNED	2	DCTFSSNW(0)	FSS ID TO CHANGE TO FOR NEW FSS (POST-INIT FSS-MODE DCT ONLY)
768	(300)	SIGNED	4	DCTWKBUF	ADDR OF PRINTER WORK BUFFER (POST-INIT JES-MODE DCT)
772	(304)	SIGNED	4	DCTFSID(0)	FSID OF DEVICE FSA, FSS MODE
772	(304)	SIGNED	2	DCTFSSID	FSS PORTION OF FSID
774	(306)	SIGNED	2	DCTFSAID	FSA PORTION OF FSID
776	(308)	CHARACTER	4	DCTNIFCB	3800 INSTALLATN DEFAULT FCB
780	(30C)	CHARACTER	4	DCTDDFCB	DEVICE DEFAULT FCB
784	(310)	BITSTRING	1	DCTINDEX	PRINTER INDEX VALUE
785	(311)	BITSTRING	1	DCTPPFL	PRINT/PUNCH FLAGS
786	(312)	BITSTRING	1	DCTPPSW	PRINT/PUNCH SWITCHES
787	(313)	BITSTRING	1	DCTPPSW2	PRINT/PUNCH SWITCHES
788	(314)	BITSTRING	1	DCTPPSW3	PRINT/PUNCH SWITCHES
789	(315)	BITSTRING	1	DCTPPSW4	PRINT/PUNCH SWITCHES
790	(316)	BITSTRING	1	DCTPPSW5	PRINT/PUNCH Switches
	1...			DCT5C1ON	"B'10000000'" Chnl 1 is only new page

Table 121. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		DCT5CALL	"B'01000000'" All chnls are new page
		..1.		DCT5TUCS	"B'00100000'" UCS has been modified via a $T command
		...1		DCT5TFSS	"B'00010000'" FSSID is to be removed
		.... 1...		DCT5DNRC	"B'00001000'" Device not responding condition
		.... .1..		DCT5$SPN	"B'00000100'" $Sprt for FSS prt pending
		.... ..1.		DCT5$PPN	"B'00000010'" $Pprt for FSS prt pending
		1		DCT5FROF	"B'00000001'" FSA level rolling trace off
791	(317)	BITSTRING	1	DCTPPSW6	PRINT/PUNCH Switches
		1...		DCT6NOTR	"B'10000000'" TRC on OUTPUT card not honored
792	(318)	CHARACTER	4	DCTCHAR1	N/I-PRINTER XLATE TABLE 1
796	(31C)	CHARACTER	4	DCTCHAR2	N/I-PRINTER XLATE TABLE 2
800	(320)	CHARACTER	4	DCTCHAR3	N/I-PRINTER XLATE TABLE 3
804	(324)	CHARACTER	4	DCTCHAR4	N/I-PRINTER XLATE TABLE 4
808	(328)	CHARACTER	4	DCTMODF	N/I-PRINTER MODIFY IDENTIFIER
812	(32C)	ADDRESS	2	DCTLDPID	3800 LOST DATA PAGE ID G38E
814	(32E)	BITSTRING	1	DCTDCPTN	DEFAULT COMPACTION TABLE NUMBER
815	(32F)	BITSTRING	1	DCTACPTN	ACTIVE COMPACTION TABLE NUMBER
816	(330)	SIGNED	2	DCTCKPTP	NO. OF LOGICAL PAGES/CKPT
818	(332)	SIGNED	2	DCTCKPTL	NO. OF LINES/LOGICAL PAGE
820	(334)	SIGNED	2	DCTCKPTT	AMT OF TIME BEFORE FORCED CKPT
822	(336)	SIGNED	2	DCTNPRO	TIME BEFORE NON PROCESS RUN OUT
824	(338)	ADDRESS	4	DCTPRTRN	ADDRESS OF DEFAULT TRAN TABLE
828	(33C)	ADDRESS	4	DCTCCWTB	ADDRESS OF DEFAULT CCW TRN TBLE
832	(340)	SIGNED	4	DCTCSW	PRINT INTERVENTION REQ AREA
832	(340)	X'344'	0	DCTPREND	"*" PRINT/PUNCH DCT EXTENSION END
SPOOL OFFLOAD DEVICE DCT EXTENSION					
136	(88)	ADDRESS	4	XDCTDTE	ADDRESS OF SUB-TASK DTE
140	(8C)	SIGNED	4	XDCTSEQN	NUM BLOCKS READ FOR LOAD CKPT
144	(90)	SIGNED	2	XDCTXNUM	DEVICE NUMBER
146	(92)	SIGNED	2	XDCTSUBR	SUB-TASK REQUEST
148	(94)	SIGNED	2	XDCTSUBC	SUB-TASK REQ COMPLETION CODE
150	(96)	BITSTRING	1	XDCTUNCT	UNIT COUNT
151	(97)	BITSTRING	1	XDCTFLG1	FLAG BYTE
152	(98)	BITSTRING	1	XDCTFLG2	FLAG BYTE
153	(99)	BITSTRING	1	XDCTVOLS	OFFLOAD VOLUME COUNT
154	(9A)	BITSTRING	1	XDCTLABL	LABEL TYPE (SL,NL,...)
155	(9B)	BITSTRING	2	XDCTRTPD	RETENTION PERIOD IN DAYS
157	(9D)	CHARACTER	8	XDCTUNIT	DEFAULT UNIT NAME
165	(A5)	BITSTRING	1	XDCTOFSL	Offload archive bits
166	(A6)	BITSTRING	2	XDCTFREE	RESERVED FOR FUTURE USAGE
THE FOLLOWING TWO FIELDS MUST BE KEPT TOGETHER					
168	(A8)	SIGNED	4	XDCTTIME	TIME OFFLOAD DATA SET ALLOCATED

Table 121. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
172	(AC)	SIGNED	4	XDCTDATE	DATE OFFLOAD DATA SET ALLOCATED
THE FOLLOWING TWO FIELDS MUST BE KEPT TOGETHER					
176	(B0)	SIGNED	4	XDCTTVER	TIME VERIFICATION STAMP
180	(B4)	SIGNED	4	XDCTDVER	DATE VERIFICATION STAMP
184	(B8)	ADDRESS	4	XDCTCMPQ	XFRDCT SUB-TASK COMPLETION Q
188	(BC)	ADDRESS	4	XDCTBUFQ	Q OF BUFFERS WAITING COMPLETION
192	(C0)	ADDRESS	4	XDCTACTV	QUEUE OF ACTIVE XFR DCTS
196	(C4)	BITSTRING	1	XDCTERCT	READ ERROR COUNT
197	(C5)	BITSTRING	1	XDCTOPCT	COUNT OF RECV/TRANS DCTS OPEN
198	(C6)	SIGNED	2	XDCTMAXB	Max buffers allowed to hold
200	(C8)	CHARACTER	44	XDCTDSN	OFFLOAD DATASET NAME
244	(F4)	SIGNED	4	DCTXFEND(0)	END OF OFFLOAD DCT EXTENSION
JOB TRANSMITTER DCT EXTENSION					
184	(B8)	BITSTRING	402		SPACE FOR JOB WORK SELECTION
586	(24A)	BITSTRING	1	DCTJTDSP	DISPOSITION FLAGS
		1...		DCTJTDPG	"B'10000000'" PURGE JOB AFTER DUMP
		.1..		DCTJTDHD	"B'01000000'" HOLD JOB AFTER DUMP
		..1.		DCTJTDKP	"B'00100000'" KEEP JOB AFTER DUMP
586	(24A)	X'24B'	0	DCTOJEND	"*" OFFLOAD JOB XMITTER DCT EXT END
586	(24A)	X'24B'	0	DCTJTEND	"*" NETWORK JOB XMITTER
SYSOUT TRANSMITTER DCT EXTENSION.					
184	(B8)	BITSTRING	576		SPACE FOR SYSOUT WORK SELECTION
760	(2F8)	BITSTRING	1	DCTSTDSP	DISPOSITION FLAG
		1...		DCTSTDPG	"B'10000000'" PURGE DATA SET AFTER DUMP
		.1..		DCTSTDHD	"B'01000000'" HOLD DATA SET AFTER DUMP
		..1.		DCTSTDKP	"B'00100000'" KEEP DATA SET AFTER DUMP
761	(2F9)	BITSTRING	3		Reserved for future use
761	(2F9)	X'2FC'	0	DCTOSEND	"*" OFFLOAD SYSOUT XMITTER EXT END
761	(2F9)	X'2FC'	0	DCTSTEND	"*" NETWORK SYSOUT XMITTER
OFFLOAD JOB RECEIVER DCT EXTENSION					
184	(B8)	BITSTRING	402		SPACE FOR JOB WORK SELECTION
586	(24A)	BITSTRING	4	DCTJRSAF	DEVICE MODIFY AFFINITY (EBCDIC)
590	(24E)	BITSTRING	4	DCTJRMSF	DEVICE MODIFY AFFINITY (FLAGS)
594	(252)	BITSTRING	1	DCT1JRFL	DEVICE MODIFY FLAG BYTE
		1...		DCT1JHLD	"B'10000000'" HOLD JOB MODIFY FLAG
		.1..		DCT1JHNL	"B'01000000'" HOLD NOT TO BE MODIFIED
595	(253)	CHARACTER	8	DCTJRMC8	Device modify job class
603	(25B)	BITSTRING	1		RESERVED FOR FUTURE USE
604	(25C)	ADDRESS	4	DCTJRMNO	DEVICE MODIFY NODE NUMBER
604	(25C)	X'25E'	0	DCTOJRLN	"*" JOB RECEIVER DCT END

Table 121. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
OFFLOAD SYSOUT RECEIVER DCT EXTENSION					
184	(B8)	BITSTRING	576		SPACE FOR SYSOUT WORK SELECTION
760	(2F8)	BITSTRING	1	DCT1SRFL	DEVICE MODIFY FLAG BYTE
		1...		DCT1SHLD	"B'10000000'" SET HELD POST-EXECUTION JOBS
		.1..		DCT1SHNL	"B'01000000'" HOLD NOT TO BE MODIFIED
		.... 1...		DCT1SBUR	"B'00001000'" SET BURSTED OUTPUT
		.... .1..		DCT1SBNL	"B'00000100'" BURST NOT TO BE MODIFIED
761	(2F9)	BITSTRING	1	DCT2SRFL	DEVICE MODIFY FLAG2 BYTE
761	(2F9)	X'8'	0	DCT2MODW	"$ODWRITE" MODIFY OUTDISP=WRITE
761	(2F9)	X'4'	0	DCT2MODH	"$ODHOLD" MODIFY OUTDISP=HOLD
761	(2F9)	X'2'	0	DCT2MODK	"$ODKEEP" MODIFY OUTDISP=KEEP
761	(2F9)	X'1'	0	DCT2MODL	"$ODLEAVE" MODIFY OUTDISP=LEAVE
761	(2F9)	X'F'	0	DCT2MODA	"$ODANY" CHECK ALL BIT SETTINGS
762	(2FA)	BITSTRING	1	DCT3SRFL	DEVICE SELECT FLAG3 BYTE
762	(2FA)	X'8'	0	DCT3SODW	"$ODWRITE" SELECT OUTDISP=WRITE
762	(2FA)	X'4'	0	DCT3SODH	"$ODHOLD" SELECT OUTDISP=HOLD
762	(2FA)	X'2'	0	DCT3SODK	"$ODKEEP" SELECT OUTDISP=KEEP
762	(2FA)	X'1'	0	DCT3SODL	"$ODLEAVE" SELECT OUTDISP=LEAVE
762	(2FA)	X'F'	0	DCT3SODA	"$ODANY" CHECK ALL BIT SETTINGS
763	(2FB)	CHARACTER	1	DCTSRMCL	DEVICE MODIFY JOB CLASS
764	(2FC)	CHARACTER	12	DCTSRMNO	DEVICE MODIFY NODE NUMBER
776	(308)	CHARACTER	4	DCTSRMFC	DEVICE MODIFY FCB ID
780	(30C)	CHARACTER	4	DCTSRMFL	DEVICE MODIFY FLASH
784	(310)	CHARACTER	4	DCTSRMUC	DEVICE MODIFY UCS ID
788	(314)	CHARACTER	8	DCTSRMPR	DEVICE MODIFY PRMODE LIST
796	(31C)	CHARACTER	8	DCTSRMFO	DEVICE MODIFY FORMS ID
804	(324)	CHARACTER	1	DCTSRMWI	DEVICE MODIFY WRITER ID
804	(324)	X'32C'	0	DCTOREND	"*" SYSOUT RECEIVER DCT END
DCTSTAT2					
		1...		DCTCIP	"B'10000000'" COMMAND IN PROGRESS
		.1..		DCTGTDCB	"B'01000000'" DEVICE NEEDS A DCB
		..1.		DCTGTBSM	"B'00100000'" DEVICE NEEDS A BSAM DCB
		...1		DCTNEWFS	"B'00010000'" DCT FSS-OWNERSHIP IS TO BE CHANGED TO THE FSS IN DCTFSSNW
		.... 1...		DCT$TFLS	"B'00001000'" $T FLASH INDICATOR
		.... .1..		DCTR190	"B'00000100'" RMT PRPU WILL STOP FOR A REPLY TO SETUP MESSAGE
		.... ..1.		DCT$TNSP	"B'00000010'" $T FSS PRT.. non setup parameters change require FSACB updates
		1		DCTRCVPG	"B'00000001'" NJE xmitter received 'permission granted'
MDCTATTN					
		1...		MDCTIMER	"B'10000000'" TIMED ACTION REQUESTED

Table 121. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		MDCTPAWS	"B'01000000'" LINE PAUSE REQUESTED
		..1.		MDCTJOB1	"B'00100000'" JOB POST INDICATOR 1
		...1		MDCTJOB2	"B'00010000'" JOB POST INDICATOR 2
804	(324) X'30'		0	MDCTJOB	"MDCTJOB1+MDCTJOB2" JOB POST INDICATION
		.... 1...		MDCTDSC	"B'00001000'" LINE DISCONNECT SEQUENCE
		.... .1..		MDCTINTE	"B'00000100'" DISCINTV exceeded reason to be put in HASP203 msg
		.... ..1.		MDCTSTRT	"B'00000010'" START VERIFICATION REQUIRED
		1		MDCTATT8	"B'00000001'" RESERVED FOR FUTURE USE
	MDCTSTAT				
		1...		DCTLEASE	"B'10000000'" DEDICATED LINE
		1...		DCTADS	"B'10000000'" ABNORMAL END OF DATA
		.1..		DCTSHARE	"B'01000000'" SHARED LINE
		..1.		DCTETX	"B'00100000'" AN ETX HAS BEEN RECEIVED
		..1.		DCTFLUSH	"B'00100000'" STREAM HAS BEEN TERMINATED
		...1		DCTSOFF	"B'00010000'" SIGNOFF RCVD OR DISCONNECT REQD
		...1		DCTEOF	"B'00010000'" AN EOF HAS BEEN DETECTED
		.... 1...		DCTSINON	"B'00001000'" REMOTE DCT IS ATTACHED TO LNE DCT
		.... .1..		DCTSHMSG	"B'00000100'" Message issued for denied nonshare req (Init only)
		.... .1..		DCTPOST	"B'00000100'" I/O COMPLETE FLAG
		.... ..1.		DCTABORT	"B'00000010'" TRANSMISSION WAS ABORTED
		1		DCTPBUF	"B'00000001'" REMOTE OUTPUT BUFFER INDICATOR
		1		DCTPSUSP	"B'00000001'" REMOTE DEVICE HAS BEEN SUSPENDED
	XDCTSTAT				
		1...		XDCTOPEN	"B'10000000'" $EXTP OPEN ISSUED
		.1..		XDCTERR	"B'01000000'" I/O ERROR INDICATOR
	EQU B'00100000' DCTFLUSH EQU B'00010000' DCTEOF				
		.... 1...		XDCTMSG	"B'00001000'" FORCE DRAINED MESSAGE
		.... .1..		XDCTSKIP	"B'00000100'" RECEIVER SKIPPING BUFFER

Table 121. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		EQU B'00000010' DCTABORT EQU B'00000001' DCTPBUF MDCTLINE			
		1...		DCTPTRSP	"B'10000000'" TRANSPARENCY
		.1..		DCTPASCI	"B'01000000'" USASCII CODE
		..1.		DCTPCTC	"B'00100000'" CHANNEL-TO-CHANNEL ADAPTER
		...1		DCTPHASP	"B'00010000'" HASP-TO-HASP
		.... 1...		DCTPCOMP	"B'00001000'" COMPRESS-EXPAND FEATURE
		.... .1..		DCTPNADS	"B'00000100'" NO ABORTIVE DISCONNECT
		.... ..1.		DCTPWIDE	"B'00000010'" WIDE-BAND LINE
		1		DCTPFULL	"B'00000001'" FULL-DUPLEX LINE
		MDCTTYPE			
		1...		DCTPSNA	"B'10000000'" SNA LU TYPE TERMINAL
		.1..		DCTPCPU	"B'01000000'" BSC CPU TYPE TERMINAL
		..1.		DCTPHDW	"B'00100000'" BSC HARDWARE TERMINAL
		...1		DCTPTCP	"B'00010000'" TCP/IP LOGICAL DEVICE
		 1111		DCTPSUBC	"B'00001111'" LOW ORDER 4 BITS (X'0F') FOR DEVICE SUB-CLASSIFICATION
804	(324) X'81'		0	DCTPLU1	"DCTPSNA+X'01'" SNA LU TYPE 1
804	(324) X'41'		0	DCTP20S2	"DCTPCPU+X'01'" 360/20 SUBMODEL 2
804	(324) X'42'		0	DCTP20S5	"DCTPCPU+X'02'" 360/20 SUBMODEL 5
804	(324) X'43'		0	DCTP20S6	"DCTPCPU+X'03'" 360/20 SUBMODEL 6
804	(324) X'44'		0	DCTP360	"DCTPCPU+X'04'" SYSTEM/360
804	(324) X'45'		0	DCTP1130	"DCTPCPU+X'05'" 1130
804	(324) X'46'		0	DCTPSYS3	"DCTPCPU+X'06'" SYSTEM/3
804	(324) X'47'		0	DCTPCRS7	"DCTPCPU+X'07'" RESERVED FOR FUTURE USE
804	(324) X'48'		0	DCTPSY36	"DCTPCPU+X'08'" SYSTEM 36 (BSC MODE)
804	(324) X'49'		0	DCTP370	"DCTPCPU+X'09'" SYSTEM/370
804	(324) X'4A'		0	DCTP20S4	"DCTPCPU+X'0A'" 360/20 SUBMODEL 4
804	(324) X'4B'		0	DCTP2922	"DCTPCPU+X'0B'" 2922
804	(324) X'21'		0	DCTP2770	"DCTPHDW+X'01'" 2770
804	(324) X'22'		0	DCTP3781	"DCTPHDW+X'02'" 3781
804	(324) X'23'		0	DCTP3740	"DCTPHDW+X'03'" 3740
804	(324) X'24'		0	DCTP3780	"DCTPHDW+X'04'" 3780
804	(324) X'25'		0	DCTP2780	"DCTPHDW+X'05'" 2780
		MDCTSEL			

Table 121. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		DCTPOUTB	"B'10000000'" OUTBOUND DEVICE SELECTION
	MDCTPMFL				
		1...		DCTNPLIM	"B'10000000'" PATH MANAGER BUFFER LIMIT REACHED
	MDCTFMT				
		1...		DCTPBLK	"B'10000000'" BLOCKED RECORDS
		.1..		DCTPVAR	"B'01000000'" VARIABLE LENGTH RECORDS
		..1.		DCTPROG	"B'00100000'" MULTI-LEAVING INTERFACE
		.... 1...		DCTPFCB	"B'00001000'" DEVICE FCB HAS BEEN LOADED
CTPPRES EQU B'00000100' COMPRESSED DATASTREAM ACTIVE					
		.... ..1.		DCTPALTC	"B'00000010'" ALTERNATE CODE SELECTED
		1		DCTPCPCT	"B'00000001'" COMPACTED DATASTREAM ACTIVE
		...1		DCTHOLDS	"B'00010000'" NJE TRANSMISSION HOLD STREAM
	MDCTFEAT				
CTPTRSP EQU B'10000000' TERMINAL TRANSPARENCY					
		.... ..1.		DCTPMRF	"B'00000010'" MULTIPLE-RECORD FEATURE
		.1..		DCTPBEXP	"B'01000000'" BUFFER EXPANSION FEATURE
		..1.		DCTPABEX	"B'00100000'" ADDITIONAL BUFFER EXPANSION
		..1.		DCTPNDST	"B'00100000'" MEDIA NOT BASIC EXCHANGE
		...1		DCTPTAB	"B'00010000'" HORIZONTAL FORMAT CONTROL
		...1		DCTPCCTL	"B'00010000'" CARRIAGE CONTROL
		.... 1...		DCTPSHDR	"B'00001000'" SETUP HEADER FEATURE
		.... .1..		DCTPPRES	"B'00000100'" COMPRESS-EXPAND FEATURE
CTPALTC EQU B'00000010' ALTERNATE CODE SELECTED CTPCPCT EQU B'00000001' COMPACTION FEATURE					
	DCTRAUTH				
		.... 1...		DCTREJRM	"B'00001000'" REMOTE RESTRICTION
		.... .1..		DCTREJJB	"B'00000100'" RESTRICTED FROM JOB COMMANDS
		.... ..1.		DCTREJDV	"B'00000010'" RESTRICTED FROM DEVICE COMMANDS
		1		DCTREJSY	"B'00000001'" RESTRICTED FROM SYSTEM COMMANDS
	MDCTNFL				
		1...		MDCTNFLL	"B'10000000'" THIS END LOW NODE

Table 121. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		MDCTNFLC	"B'01000000'" CONCURRENCE REQUIRED
		..1.		MDCTNFLE	"B'00100000'" RESET REQUIRED
		...1		MDCTNFLQ	"B'00010000'" ON ACTIVE QUEUE
		.... 1...		MDCTNFLS	"B'00001000'" SECONDARY TRUNK
		.... .1..		MDCTNFLI	"B'00000100'" SIGNON INPUT EXPECTED
		.... ..1.		MDCTNFLP	"B'00000010'" Signon is pending MAS validation
		1		MDCTNJEH	"B'00000001'" SEND NJE HDR TO SESSION PARTNR
	MDCTNFL2				
		1...		MDCTNF2R	"B'10000000'" THIS LINE REQUIRES RESTART
		.1..		MDCTNF2S	"B'01000000'" RESTART OF THIS LINE IS AS SECONDARY
		..1.		MDCTNF2N	"B'00100000'" Restart line after draining it
		...1		MDCTNF2A	"B'00010000'" Signon of NJE line as primary trunk has completed
		.... 1...		MDCTNF2D	"B'00001000'" The transmitter/receiver DCTs for this line are assigned at init and should not be freed
		.... .1..		MDCTNF2I	"B'00000100'" Received 'I' record, awaiting MAS validation
		.... ..1.		MDCTNF2J	"B'00000010'" Received 'J' record, awaiting MAS validation
	MDCTNFL3				
		1...		MDCTNF3M	"B'10000000'" Multi-trunk bit set from MAS validation
		.1..		MDCTNF3J	"B'01000000'" Multi-trunk bit set from 'J' record
		..1.		MDCTNF3S	"B'00100000'" Secure NJE signon
		...1		MDCTNF3Q	"B'00010000'" DCT is queued to PCT
		1		MDCTNF3E	"B'00000001'" $EXTP PUT failed for other than buffer shortage while transmitting NMR
	DCTPPFL				
		1...		DCTEJECT	"B'10000000'" PRINTER IS AT TOP OF PAGE
		.1..		DCTRPSSE	"B'01000000'" REMOTE PRINTER - SUPPRESS PAGE EJECT ON RMT SIGNON
		.1..		DCTRUSBC	"B'01000000'" REMOTE PUNCH - SUPPRESS BLANK CARD TO FLUSH PUNCH BETWEEN/AFTER DATA SETS
		..1.		DCTALIGN	"B'00100000'" PRINTER WILL ACCEPT ALIGNMENT
		...1		DCTRANS	"B'00010000'" PRINTER TRANSLATION SPECIFIED

Table 121. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		DCTTCEL	"B'00001000'" TRACK-CELL DESPOOLING
		.... .1..		DCTRMFCB	"B'00000100'" REMOTE PRINTER HAS FCB FEATURE
		.... ..1.		DCTSUSPD	"B'00000010'" OUTPUT SUSPEND IS ALLOWED
CTPAUSE EQU B'00000001' OPERATOR SET PAUSE=YES					
	DCTPPSW				
		1...		DCTPPSWC	"B'10000000'" FCB CARRIAGE ALTERED
		..1.		DCTPPSWB	"B'00100000'" FCB NOT STANDARD
		...1		DCTPPSWS	"B'00010000'" SUPRESS SEPARATOR PAGES
		.... 1...		DCTPPSWT	"B'00001000'" UCS TRAIN ALTERED
		.... .1..		DCTPPSWU	"B'00000100'" UCS NOT STANDARD
		.... ..1.		DCTPPSWI	"B'00000010'" DEVICE IDLE MESSAGE ISSUED
		1		DCTPPSWO	"B'00000001'" OPERATOR ACTION ALLOWED
	DCTPPSW2				
		1...		DCTNIPRT	"B'10000000'" N/I-PRINTER DCT IDENTIFIER
		.1..		DCTSTFSS	"B'01000000'" Device can only be successfully started if in FSS mode (for example, AFP1 devices)
		..1.		DCTNIMRK	"B'00100000'" N/I-PRT FORMS MARK ALTERED
		...1		DCTCKJAM	"B'00010000'" N/I-CANCEL KEY OR PAPER JAM G38E
		.... 1...		DCTNINIT	"B'00001000'" N/I-PRINTER INITIALIZATION SWITCH
		.... .1..		DCTSEPNL	"B'00000100'" N/I DON'T LOAD DEFAULT FOR SEP
		.... ..1.		DCTSDSSW	"B'00000010'" NOSEPDS/SEPDS SWITCH
		1		DCTBFCKP	"B'00000001'" $B/$F FROM LAST CHECKPOINT
	DCTPPSW3				
	THE BIT DEFINITIONS FOR COPYMARKS IN THE DCTPPSW3				
	BYTE HAVE TO MATCH THE BIT DEFINITIONS FOR COPYMARKS				
	IN THE FSAFLAG4 BYTE FOR HASPCOMM PROCESSING				
		1...		DCTDOPN	"B'10000000'" DCB HAS BEEN OPENED
		.1..		DCTS3TFC	"B'01000000'" FCB has been modified via a $T command
		..1.		DCTUCSBL	"B'00100000'" USE 4245 BLDL/LOAD FLAG
		...1		DCT3UCSV	"B'00010000'" PERFORM 424X UCS VERIFY
		.... 1...		DCTS3CNO	"B'00001000'" COPYMARKS NONE
		.... .1..		DCTS3CDS	"B'00000100'" COPYMARKS ON DATASET LEVEL

Table 121. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ..1.		DCTS3CJB	"B'00000010'" COPYMARKS ON JOB LEVEL
		1		DCTS3CON	"B'00000001'" COPYMARKS CONSTANT
804	(324)	X'F'	0	DCTS3CPY	"DCTS3CNO+DCTS3CDS+DCTS3CJB+DCTS3CON" COPYMARKS reset
	DCTPPSW4				
		1...		DCTS4NPS	"B'10000000'" NO DATA SET PRESELECTION
		.1..		DCTSNHLT	"B'01000000'" DO NOT HALT DEV FOR SETUP
		..1.		DCTSNHOR	"B'00100000'" SETUP=NOHALT OVERRIDE
		...1		DCTS4OPI	"B'00010000'" INTERVENTION-REQUIRED CONDITION
		.... 1...		DCTS4TUN	"B'00001000'" Unit has been modified via $T command
		.... .1..		DCTS4AIS	"B'00000100'" Send data ASIS to remote
		.... ..1.		DCT4TRNY	"B'00000010'" TRANS=YES
		1		DCT4TRNN	"B'00000001'" TRANS=NO
	XDCTFLG1				
		1...		XDCT1DMP	"B'10000000'" TRANSMIT (DUMP)
		.1..		XDCT1LOD	"B'01000000'" RECEIVE (LOAD)
		..1.		XDCT1SUB	"B'00100000'" SUBTASK OPERATING ON THIS DCT
		...1		XDCT1ALC	"B'00010000'" OFFLOAD DATASET ALLOCATED
		.... 1...		XDCT1CLS	"B'00001000'" CLOSE ISSUED FOR OFFLOAD DCT
		.... .1..		XDCT1VER	"B'00000100'" RECORD VERIFICATION ERROR
		.... ..1.		XDCT1RD	"B'00000010'" READ IN PROGRESS FOR OFFLOAD
		1		XDCT1STR	"B'00000001'" OFFLOAD DEVICE BEING RESTARTED
	XDCTFLG2				
		1...		XDCT2ST	"B'10000000'" OFFLOAD XMIT/RECEIVE CAN BEGIN
		.1..		XDCT2PRO	"B'01000000'" SAF PROTECTION IF DISP=NEW
		..1.		XDCT2NDF	"B'00100000'" Node of offload and this node are different
		...1		XDCT2NVR	"B'00010000'" Skip checks of time/date stamp from first record
		.... 1...		XDCT2CRT	"B'00001000'" Set create time for jobs and SYSOUT to original creation time
	MDCTFLG1 SNA REMOTE DCT FLAG BYTE				
		1...		MDCT1OUT	"B'10000000'" OUTPUT EXISTS FOR THIS DEV

Table 121. Structure DCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		MDCT1EOT	"B'01000000'" ACKN END-OF-TRANS (ATC) FLG

Table 122. Cross Reference for $DCT

Name	Offset	Hex Tag
DCT	0	
DCT$TFLS	324	8
DCT$TNSP	324	2
DCTABORT	324	2
DCTACB	10	
DCTACPTN	32F	
DCTADS	324	80
DCTAGE	2B0	
DCTALIGN	324	20
DCTARMID	59	5
DCTASAPI	2D4	
DCTATTN	C	2
DCTBFCKP	324	1
DCTBKSP	D	8
DCTBUFAD	18	
DCTBUFCN	20	
DCTBUFLM	20	14
DCTCCWTB	33C	
DCTCDCTX	50	
DCTCHAIN	34	
DCTCHAR1	318	
DCTCHAR2	31C	
DCTCHAR3	320	
DCTCHAR4	324	
DCTCIP	324	80
DCTCKJAM	324	10
DCTCKPTL	332	
DCTCKPTP	330	
DCTCKPTT	334	
DCTCLASS	1F0	
DCTCLENT	2E8	
DCTCMODF	F	4
DCTCMODJ	F	2
DCTCNODE	2F0	
DCTCOMID	59	3
DCTCRUID	18C	
DCTCSW	340	
DCTCURJB	184	
DCTCWS	B8	
DCTCWSLN	1E8	130
DCTDALEN	23	1C
DCTDCB	10	

Table 122. Cross Reference for $DCT (continued)

Name	Offset	Hex Tag
DCTDCPTN	32E	
DCTDDFCB	30C	
DCTDELET	D	40
DCTDEVID	59	
DCTDEVI2	1DA	
DCTDEVN	38	
DCTDEVNC	1C8	1C8
DCTDEVN2	1C8	
DCTDEVTP	22	
DCTDEVT2	1D9	
DCTDOPN	324	80
DCTDRAIN	C	40
DCTDVTPX	22	40
DCTEJECT	324	80
DCTEOF	324	10
DCTERMNR	E	40
DCTETX	324	20
DCTEWF	1C	
DCTEXORG	88	
DCTFCB	298	
DCTFCKMD	F	40
DCTFDFLT	F	20
DCTFEORG	68	
DCTFLAGS	D	
DCTFLAG2	E	
DCTFLAG3	23	
DCTFLAG4	2C	
DCTFLASH	2A0	
DCTFLGFW	C	
DCTFLSHD	2A4	
DCTFLUSH	324	20
DCTFORMS	1E8	
DCTFSAID	306	
DCTFSET	F	8
DCTFSID	304	
DCTFSSCH	300	
DCTFSSFL	F	
DCTFSSID	304	
DCTFSSMD	F	1
DCTFSSNM	2F8	
DCTFSSNW	300	
DCTFSYNC	F	10
DCTGTBSM	324	20
DCTGTDCB	324	40
DCTGTW	2D0	
DCTHOLD	C	20
DCTHOLDJ	D	4
DCTHOLDS	324	10
DCTID	0	

Table 122. Cross Reference for $DCT (continued)

Name	Offset	Hex Tag
DCTID2	B8	E6E2D740
DCTINDEX	310	
DCTINDIR	195	80
DCTINR	22	14
DCTINRID	59	0
DCTINT	22	4
DCTINUSE	C	80
DCTIRORG	B7	B8
DCTJCFMT	208	80
DCTJCHRH	1A8	
DCTJCHRL	1A0	
DCTJCLAS	20A	
DCTJCLA8	AD	
DCTJCLS1	20A	
DCTJCLS8	20A	
DCTJCOR	218	
DCTJNUMH	19C	
DCTJNUML	198	
DCTJOBNM	17C	
DCTJREND	B8	B8
DCTJRMC8	253	
DCTJRMNO	25C	
DCTJRMSF	24E	
DCTJRSAF	24A	
DCTJTDHD	24A	40
DCTJTDKP	24A	20
DCTJTDPG	24A	80
DCTJTDSP	24A	
DCTJTEND	24A	24B
DCTJWS	B8	
DCTJWSFL	208	
DCTJWSLN	20A	192
DCTLDPID	32C	
DCTLEASE	324	80
DCTLENG	2F8	240
DCTLGNID	59	C0
DCTLIMHI	1E4	
DCTLIMLO	1E0	
DCTLNE	22	2
DCTLNEID	59	D0
DCTLOG	22	6
DCTLOGAL	D	1
DCTLPOS	DB	
DCTLRECL	58	
DCTMAXWS	C0	19
DCTMCLAS	B5	
DCTMLNE	22	E
DCTMODF	328	
DCTMQTR	12	

Table 122. Cross Reference for $DCT (continued)

Name	Offset	Hex Tag
DCTMQTRD	10	
DCTNACTV	2D8	
DCTNET	22	8
DCTNEWFS	324	10
DCTNIBRS	2C8	40
DCTNIFCB	308	
DCTNIMRK	324	20
DCTNINIT	324	8
DCTNIPRT	324	80
DCTNJR	22	18
DCTNJRID	59	50
DCTNJT	22	38
DCTNJTID	59	40
DCTNMVOL	BC	
DCTNODE	148	0
DCTNPLIM	324	80
DCTNPRO	336	
DCTNRC	194	
DCTNRLEN	148	4
DCTNRR	22	58
DCTNRT	22	78
DCTNSR	22	8
DCTNSRID	59	70
DCTNST	22	28
DCTNSTID	59	60
DCTNUM	59	5A
DCTODPNV	D9	8
DCTOFF	22	84
DCTOFFID	59	FF
DCTOJEND	24A	24B
DCTOJRLN	25C	25E
DCTONODE	DE	
DCTOPEN	E	1
DCTOREND	324	32C
DCTOSEND	2F9	2FC
DCTOUTID	59	E
DCTPABEX	324	20
DCTPACTV	2DC	
DCTPALTC	324	2
DCTPASCI	324	40
DCTPATTN	C	4
DCTPAUSE	C	1
DCTPBEXP	324	40
DCTPBLK	324	80
DCTPBUF	324	1
DCTPCCTL	324	10
DCTPCE	8	
DCTPCOMP	324	8
DCTPCPCT	324	1

Table 122. Cross Reference for $DCT (continued)

Name	Offset	Hex Tag
DCTPCPU	324	40
DCTPCRS7	324	47
DCTPCTC	324	20
DCTPFCB	324	8
DCTPFULL	324	1
DCTPHASP	324	10
DCTPHDW	324	20
DCTPJOE	2CC	
DCTPLIMH	2AC	
DCTPLIML	2A8	
DCTPLU1	324	81
DCTPMRF	324	2
DCTPNADS	324	4
DCTPNDST	324	20
DCTPOSNL	E1	FF
DCTPOST	324	4
DCTPOUTB	324	80
DCTPPFL	311	
DCTPPOS	DD	
DCTPPOSM	E0	
DCTPPRES	324	4
DCTPPSW	312	
DCTPPSWB	324	20
DCTPPSWC	324	80
DCTPPSWI	324	2
DCTPPSWO	324	1
DCTPPSWS	324	10
DCTPPSWT	324	8
DCTPPSWU	324	4
DCTPPSW2	313	
DCTPPSW3	314	
DCTPPSW4	315	
DCTPPSW5	316	
DCTPPSW6	317	
DCTPREND	340	344
DCTPRGID	59	4
DCTPRINC	B6	
DCTPRINT	90	
DCTPRIRQ	D9	4
DCTPRLIM	B7	
DCTPRMD	2BC	
DCTPRNOD	90	
DCTPROG	324	20
DCTPRPU	22	20
DCTPRRTE	92	
DCTPRSER	94	
DCTPRT	22	20
DCTPRTBL	2C4	
DCTPRTID	59	20

Table 122. Cross Reference for $DCT (continued)

Name	Offset	Hex Tag
DCTPRTRN	338	
DCTPSHDR	324	8
DCTPSNA	324	80
DCTPSUBC	324	F
DCTPSUSP	324	1
DCTPSYS3	324	46
DCTPSY36	324	48
DCTPTAB	324	10
DCTPTCP	324	10
DCTPTRSP	324	80
DCTPUN	22	30
DCTPUNCH	9C	
DCTPUNID	59	30
DCTPUNOD	9C	
DCTPURTE	9E	
DCTPUSER	A0	
DCTPVAR	324	40
DCTPWIDE	324	2
DCTP1130	324	45
DCTP20S2	324	41
DCTP20S4	324	4A
DCTP20S5	324	42
DCTP20S6	324	43
DCTP2770	324	21
DCTP2780	324	25
DCTP2922	324	4B
DCTP360	324	44
DCTP370	324	49
DCTP3740	324	23
DCTP3780	324	24
DCTP3781	324	22
DCTQPOS	DA	
DCTQVAL	D8	80
DCTQWS	D8	20
DCTRACE	E	80
DCTRANS	324	10
DCTRAUTH	AC	
DCTRBFF	E	20
DCTRC	14C	
DCTRCLEN	148	C
DCTRCMAX	148	4
DCTRCON	22	42
DCTRCVPG	324	1
DCTRDEND	B8	
DCTRDFL1	8A	
DCTRDNOD	8C	
DCTRDONE	59	2
DCTRDR	22	10
DCTRDRID	59	10

Table 122. Cross Reference for $DCT (continued)

Name	Offset	Hex Tag
DCTRDRT	8C	
DCTRDRTE	8E	
DCTREJDV	324	2
DCTREJJB	324	4
DCTREJRM	324	8
DCTREJSY	324	1
DCTRJE	22	2
DCTRJI	22	50
DCTRJR	22	12
DCTRMFCB	324	4
DCTRMTID	59	80
DCTROUTE	148	2
DCTRPOS	DC	
DCTRPP	22	30
DCTRPR	22	22
DCTRPSSE	324	40
DCTRPT	D	10
DCTRPU	22	32
DCTRRDY	E	10
DCTRSINT	26	
DCTRSTIM	28	
DCTRSTRT	D	20
DCTRTAM	C	8
DCTRTE	E	1
DCTRTEID	59	8
DCTRTEQ	195	
DCTRUSBC	324	40
DCTRVAL	D8	40
DCTRWS	D8	1
DCTR1IND	8A	80
DCTR190	324	4
DCTSAF	1E8	
DCTSAFPT	1EC	
DCTSAPID	59	D
DCTSCHE	1F8	
DCTSDSSW	324	2
DCTSECLB	48	
DCTSEEK	10	
DCTSEEKF	10	
DCTSEPNL	324	4
DCTSFSID	59	1
DCTSHARE	324	40
DCTSHMSG	324	4
DCTSIAFF	A8	
DCTSINON	324	8
DCTSIZE	4	
DCTSLASH	D8	10
DCTSLLIM	D9	20
DCTSNHLT	324	40

Table 122. Cross Reference for $DCT (continued)

Name	Offset	Hex Tag
DCTSNHOR	324	20
DCTSOFF	324	10
DCTSOFF2	D	10
DCTSPACE	D	3
DCTSPNID	59	2
DCTSPOF	22	80
DCTSP1	D	1
DCTSP2	D	2
DCTSREND	80	88
DCTSRMCL	2FB	
DCTSRMFC	308	
DCTSRMFL	30C	
DCTSRMFO	31C	
DCTSRMNO	2FC	
DCTSRMPR	314	
DCTSRMUC	310	
DCTSRMWI	324	
DCTSRV	22	C
DCTSRVCL	1F0	
DCTSRVID	59	E0
DCTSTART	F	80
DCTSTAT	C	
DCTSTAT2	24	
DCTSTDHD	2F8	40
DCTSTDKP	2F8	20
DCTSTDPG	2F8	80
DCTSTDSP	2F8	
DCTSTEND	2F9	2FC
DCTSTFSS	324	40
DCTSTOP	D	80
DCTSTRT	C	4
DCTSUSPD	324	2
DCTSWS	B8	
DCTSWSCR	2CC	218
DCTSWSLN	2F8	240
DCTS3CDS	324	4
DCTS3CJB	324	2
DCTS3CNO	324	8
DCTS3CON	324	1
DCTS3CPY	324	F
DCTS3TFC	324	40
DCTS4AIS	324	4
DCTS4NPS	324	80
DCTS4OPI	324	10
DCTS4TUN	324	8
DCTTCEL	324	8
DCTTODNE	59	1
DCTTOKA	44	
DCTUCB	40	

Table 122. Cross Reference for $DCT (continued)

Name	Offset	Hex Tag
DCTUCS	29C	
DCTUCSBL	324	20
DCTUNAL	C	10
DCTUNIT	7C	
DCTUSEID	148	4
DCTUSER0	5C	
DCTUSER1	60	
DCTVOL	C0	
DCTVOLEN	B8	6
DCTVOLFL	D8	8
DCTVOLMX	B8	4
DCTWFORC	258	258
DCTWFORM	258	
DCTWKBUF	300	
DCTWORK	88	
DCTWRASI	1C0	
DCTWRNUM	1BC	
DCTWS	E4	D8
DCTWSANY	1B8	1E
DCTWSBEG	D8	
DCTWSBNS	2C8	10
DCTWSBTH	2C8	4
DCTWSCTK	D9	10
DCTWSDAN	2C8	20
DCTWSDSH	2C8	80
DCTWSENL	1B9	80
DCTWSENP	1B9	40
DCTWSENT	C0	4
DCTWSFAP	1B8	2
DCTWSFG1	1B8	
DCTWSFG2	2C8	
DCTWSFG3	2E0	
DCTWSFG4	1B9	
DCTWSFG5	196	
DCTWSFJR	1B8	10
DCTWSFST	1B8	8
DCTWSFTS	1B8	4
DCTWSHLD	1B8	80
DCTWSHNS	1B8	40
DCTWSIP	2C8	8
DCTWSLIM	D9	40
DCTWSLOC	195	80
DCTWSNET	195	20
DCTWSNOT	1B8	20
DCTWSODP	D9	80
DCTWSP	B8	
DCTWSPRI	D8	
DCTWSPRL	C0	C
DCTWSPR2	D9	

Table 122. Cross Reference for $DCT (continued)

Name	Offset	Hex Tag
DCTWSREQ	E4	
DCTWSRGS	D8	2
DCTWSRMT	195	40
DCTWSRNG	D8	4
DCTWSTB	148	
DCTWSTKN	2C8	2
DCTWSUSE	195	10
DCTWS3CF	2E0	10
DCTWS3QD	2E0	80
DCTWS3QT	2E0	40
DCTWS3QX	2E0	20
DCTWS3XN	2E0	8
DCTWTRID	2B4	
DCTXEQND	88	
DCTXFEND	F4	
DCTXFRID	59	F
DCTXJR	22	90
DCTXJT	22	B0
DCTXSR	22	80
DCTXST	22	A0
DCTXWTID	59	F
DCT1GENC	196	80
DCT1GEN1	196	40
DCT1JHLD	252	80
DCT1JHNL	252	40
DCT1JRFL	252	
DCT1SBNL	2F8	4
DCT1SBUR	2F8	8
DCT1SHLD	2F8	80
DCT1SHNL	2F8	40
DCT1SODA	2C9	F
DCT1SODH	2C9	4
DCT1SODK	2C9	2
DCT1SODL	2C9	1
DCT1SODW	2C9	8
DCT1SRFL	2F8	
DCT1STFL	2C9	
DCT2MODA	2F9	F
DCT2MODH	2F9	4
DCT2MODK	2F9	2
DCT2MODL	2F9	1
DCT2MODW	2F9	8
DCT2POST	E	8
DCT2PTRC	E	4
DCT2RSP	E	2
DCT2SRFL	2F9	
DCT3IOER	23	20
DCT3JWS	23	80
DCT3SODA	2FA	F

Table 122. Cross Reference for $DCT (continued)

Name	Offset	Hex Tag
DCT3SODH	2FA	4
DCT3SODK	2FA	2
DCT3SODL	2FA	1
DCT3SODW	2FA	8
DCT3SRFL	2FA	
DCT3SWS	23	40
DCT3UCSV	324	10
DCT4ARST	2C	80
DCT4NSYN	2C	40
DCT4TRNN	324	1
DCT4TRNY	324	2
DCT5$PPN	316	2
DCT5$SPN	316	4
DCT5CALL	316	40
DCT5C1ON	316	80
DCT5DNRC	316	8
DCT5FROF	316	1
DCT5TFSS	316	10
DCT5TUCS	316	20
DCT6NOTR	317	80
MDCTABRT	AC	
MDCTACT	CC	
MDCTADCT	68	
MDCTAFTK	88	
MDCTAPNL	93	
MDCTAPPL	94	
MDCTASID	AC	
MDCTASNM	B0	
MDCTATE	9C	
MDCTATMP	F8	
MDCTATTN	76	
MDCTATT8	324	1
MDCTATYP	75	
MDCTBFSZ	78	
MDCTBIDR	AC	
MDCTCHLM	7B	
MDCTCMCT	E3	
MDCTCNTS	B4	
MDCTCODE	9C	
MDCTDCK	A8	
MDCTDCNT	CA	
MDCTDCT	70	
MDCTDSC	324	8
MDCTERCT	6F	
MDCTESTR	128	
MDCTEXCD	C8	
MDCTEXIT	CC	
MDCTEXWK	C8	
MDCTFCS	7A	

Table 122. Cross Reference for $DCT (continued)

Name	Offset	Hex Tag
MDCTFEAT	6B	
MDCTFLG1	76	
MDCTFMT	6A	
MDCTICE	6C	
MDCTIFEA	104	
MDCTIKEY	118	
MDCTIMER	324	80
MDCTIMOK	94	
MDCTINTE	324	4
MDCTINVL	A8	
MDCTISTR	120	
MDCTISWL	130	
MDCTJOB	324	30
MDCTJOB1	324	20
MDCTJOB2	324	10
MDCTJRNM	109	
MDCTJTNM	108	
MDCTKEEP	98	
MDCTLEND	140	
MDCTLGND	D0	
MDCTLINE	74	
MDCTLNCC	DF	
MDCTLNOD	13C	
MDCTLOGN	9C	
MDCTLUST	A8	
MDCTMDID	B0	
MDCTMDNQ	A8	
MDCTMDOM	100	
MDCTMEMB	90	
MDCTMLMQ	25	
MDCTMODE	6E	
MDCTMPER	B0	
MDCTMRRT	110	
MDCTMRT	10C	
MDCTMTIM	AC	
MDCTNA	D0	
MDCTNAK	A4	
MDCTNATP	9C	
MDCTNCES	D8	
MDCTNDCT	A8	
MDCTNEGR	E4	0
MDCTNETA	E3	CC
MDCTNFL	E2	
MDCTNFLC	324	40
MDCTNFLE	324	20
MDCTNFLG	AE	
MDCTNFLI	324	4
MDCTNFLL	324	80
MDCTNFLP	324	2

Table 122. Cross Reference for $DCT (continued)

Name	Offset	Hex Tag
MDCTNFLQ	324	10
MDCTNFLS	324	8
MDCTNFL2	DC	
MDCTNFL3	DD	
MDCTNF2A	324	10
MDCTNF2D	324	8
MDCTNF2I	324	4
MDCTNF2J	324	2
MDCTNF2N	324	20
MDCTNF2R	324	80
MDCTNF2S	324	40
MDCTNF3E	324	1
MDCTNF3J	324	40
MDCTNF3M	324	80
MDCTNF3Q	324	10
MDCTNF3S	324	20
MDCTNICE	A0	
MDCTNJEH	324	1
MDCTNLDV	108	
MDCTNLNE	A4	
MDCTNM	CC	
MDCTNMAP	F0	
MDCTNNR	D6	
MDCTNO	EC	
MDCTNODE	EC	
MDCTNOTS	114	
MDCTNPAS	F8	
MDCTNPCH	A0	
MDCTNQSE	A4	
MDCTNR	D4	
MDCTNSLO	AE	8
MDCTNSSL	AE	10
MDCTNTRC	AE	40
MDCTNTRJ	AE	20
MDCTNVRB	AE	80
MDCTOBUF	90	
MDCTOPCT	E0	
MDCTOTAL	A0	
MDCTPAWS	324	40
MDCTPCL	80	
MDCTPGM	88	
MDCTPMBC	C8	
MDCTPMFL	C9	
MDCTPROC	90	
MDCTPSWD	88	
MDCTPWDL	7B	
MDCTQTBF	84	
MDCTQUAL	EE	
MDCTRABF	BC	

Table 122. Cross Reference for $DCT (continued)

Name	Offset	Hex Tag
MDCTRACT	BA	
MDCTRALM	B8	
MDCTRAT	98	
MDCTRAWK	B8	
MDCTRCB	69	
MDCTRECL	68	
MDCTREM	B0	
MDCTRFCN	13B	40
MDCTRFCY	13B	80
MDCTRFXE	80	88
MDCTRNTA	F4	
MDCTRQBF	C4	
MDCTRQCT	C2	
MDCTRQLM	C0	
MDCTRQWK	C0	
MDCTRSEQ	6C	
MDCTRSTF	13B	
MDCTRSTI	138	
MDCTRSTM	134	
MDCTSBSZ	9A	
MDCTSCK	9C	
MDCTSCNT	B4	
MDCTSDCK	BC	
MDCTSDCT	18	
MDCTSEL	69	
MDCTSNAK	B8	
MDCTSNCT	90	
MDCTSOCK	A0	
MDCTSONT	114	
MDCTSREM	C4	
MDCTSRNM	10B	
MDCTSSQD	A8	
MDCTSTAK	B8	
MDCTSTAT	77	
MDCTSTNM	10A	
MDCTSTO	C0	
MDCTSTRT	324	2
MDCTSUSP	7A	
MDCTSVND	C0	
MDCTSXCP	B4	
MDCTTDRN	DE	80
MDCTTFLG	DE	
MDCTTO	AC	
MDCTTSEQ	6D	
MDCTTTRC	DE	20
MDCTTTRJ	DE	10
MDCTTVRB	DE	40
MDCTTYPE	75	
MDCTVREQ	A0	

Table 122. Cross Reference for $DCT (continued)

Name	Offset	Hex Tag
MDCTWICE	78	
MDCTXCOD	CB	
MDCTXCP	A0	
MDCTXERR	74	
MDCTXRSP	A4	
MDCT1EOT	324	40
MDCT1OUT	324	80
XDCTACTV	C0	
XDCTBUFQ	BC	
XDCTCMPQ	B8	
XDCTDATE	AC	
XDCTDCT	6C	
XDCTDSN	C8	
XDCTDTE	88	
XDCTDVER	B4	
XDCTERCT	C4	
XDCTERR	324	40
XDCTFLG1	97	
XDCTFLG2	98	
XDCTFREE	A6	
XDCTLABL	9A	
XDCTMAXB	C6	
XDCTMSG	324	8
XDCTOFSL	A5	
XDCTOPCT	C5	
XDCTOPEN	324	80
XDCTRCB	69	
XDCTRTPD	9B	
XDCTSEQN	8C	
XDCTSKIP	324	4
XDCTSTAT	68	
XDCTSUBC	94	
XDCTSUBR	92	
XDCTTIME	A8	
XDCTTVER	B0	
XDCTUNCT	96	
XDCTUNIT	9D	
XDCTVOLS	99	
XDCTXNUM	90	
XDCT1ALC	324	10
XDCT1CLS	324	8
XDCT1DMP	324	80
XDCT1LOD	324	40
XDCT1RD	324	2
XDCT1STR	324	1
XDCT1SUB	324	20
XDCT1VER	324	4
XDCT2CRT	324	8
XDCT2NDF	324	20

Table 122. Cross Reference for $DCT (continued)

Name	Offset	Hex Tag
XDCT2NVR	324	10
XDCT2PRO	324	40
XDCT2ST	324	80

Chapter 52. $DCTTAB Information

$DCTTAB Programming Interface Information

$DCTTAB is a programming interface.

$DCTTAB Heading Information

Common Name: DCT Table Entry DSECT
Macro ID: $DCTTAB
DSECT Name: DTAB
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: The pool of DCTTABs is preceded by an eyecatcher '**DCT POOL**' in the header for the pool.
Offset: HDPID-HDP
Length: 13
Storage Attributes: Subpool: Part of HASJES20 or user exit load module
Key: 1
Residency: Part of the HASJES20 load module in the JES2 address space for HASP tables. Virtual and real storage anywhere within the JES2 address space for USER tables.

Size: See DTABELEN
Created by: Assembly
Pointed to by: MCTDCTTH field of the $MCT data area
MCTDCTTU field of the $MCT data area
DTABSCHN field of the $DCTTAB data area
PTABDTAB field of the $PCETAB data area
The end of the previous DCTTAB is the start of the next DCTTAB in the pool.
Serialization: $DCTTABs are read only.
Function: $DCTTAB maps the static tables used by JES2 for creation, location, and deletion of $DCTs.
$DCTTABs are used to define devices supported by IBM distributed code. They can also be used to define installation defined devices or to override IBM defined devices (this does not imply that IBM distributed code will support the installation defined devices).

$DCTTAB mapping

Table 123. Structure DTAB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DTAB	
0	(0)	CHARACTER	8	DTABNAME	DCT TABLE ENTRY NAME
8	(8)	CHARACTER	24	DTABDESC	DCT DESCRIPTION
32	(20)	CHARACTER	8	DTABALS	DCT NAME ALIAS
40	(28)	BITSTRING	1	DTABFLG1	GENERAL FLAGS

Table 123. Structure DTAB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		DTAB1DEU	"B'10000000'" ENTRY IS USER DTAB ENTRY
		.1..		DTAB1DEH	"B'01000000'" ENTRY IS HASP DTAB ENTRY
		..1.		DTAB1PCE	"B'00100000'" DCTS OF THIS TYPE EACH HAVE CORRESPONDING PCES
		...1		DTAB1MP	"B'00010000'" DCTS OF THIS TYPE ARE MANAGED AS AS A GROUP BY ONE PCE
41	(29)	BITSTRING	1	DTABFLG2	SECOND FLAG BYTE
		1...		DTAB2SUB	"B'10000000'" DCT HAS SUBTYPE CHAIN (PARENT)
		.1..		DTAB2POL	"B'01000000'" DCT IS IN $DCTPOOL CHAIN
		..1.		DTAB2DCB	"B'00100000'" EXCP DCB AND DEB FOR DCT
		...1		DTAB2BSM	"B'00010000'" BSAM DCB BUILT FOR THIS DCT
		.... 1...		DTAB2CDC	"B'00001000'" CDCT BUILT FOR THIS DCT
42	(2A)	BITSTRING	1	DTABFLG3	Third flag
		1...		DTAB3JWS	"B'10000000'" Dev does JOB work sel
		.1..		DTAB3SWS	"B'01000000'" Dev does SYSOUT work sel
43	(2B)	BITSTRING	1	DTABFLG4	Fourth flag
		1...		DTAB4PPU	"B'10000000'" PCEPTR field in the UCT
		.1..		DTAB4PPH	"B'01000000'" PCEPTR field in the HCT
		..1.		DTAB4PPA	"B'00100000'" PCEPTR field in the ADDR
		...1		DTAB4PPT	"B'00010000'" PCEPTR field in the TOKEN
44	(2C)	BITSTRING	1	DTABPPTT	PCEPTR TOKEN level
45	(2D)	BITSTRING	1	DTABFLG5	Fifth flag
		1...		DTAB5CHU	"B'10000000'" CHAIN field in the UCT
		.1..		DTAB5CHH	"B'01000000'" CHAIN field in the HCT
		..1.		DTAB5CHA	"B'00100000'" CHAIN field is Address
		...1		DTAB5CHT	"B'00010000'" CHAIN field is Token
46	(2E)	BITSTRING	1	DTABCHTT	CHAIN TOKEN level
47	(2F)	BITSTRING	1	DTABFLG6	Sixth flag
		1...		DTAB6CTU	"B'10000000'" COUNT field in the UCT
		.1..		DTAB6CTH	"B'01000000'" COUNT field in the HCT
		..1.		DTAB6CTA	"B'00100000'" COUNT field is Address
		...1		DTAB6CTT	"B'00010000'" COUNT field is Token

Table 123. Structure DTAB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
48	(30)	BITSTRING	1	DTABCNTT	COUNT TOKEN level
49	(31)	BITSTRING	2		Reserved for future use
51	(33)	ADDRESS	1	DTABALIL	Length of ALIAS
52	(34)	BITSTRING	1	DTABID	DCTDEVTP FIELD
53	(35)	BITSTRING	1	DTABPTYP	PARENT DEVICE TYPE
54	(36)	BITSTRING	1	DTABDEV	DCTDEVID FIELD
55	(37)	ADDRESS	1	DTABNAML	LENGTH OF DCT NAME
56	(38)	ADDRESS	1	DTABSUBL	OFFSET OF SUBSCRIPT IN NAME
57	(39)	ADDRESS	1	DTABDESL	LENGTH-1 FOR DTABDESC
58	(3A)	ADDRESS	2	DTABSCHN	SUBCHAINING FIELD OFFSET
60	(3C)	ADDRESS	2	DTABLEN	LENGTH OF THIS DCT TYPE
62	(3E)	BITSTRING	2		Reserved for future use
64	(40)	ADDRESS	4	DTABPCEP(0)	Offset/address of managing PCE address if DTAB1MP is On
64	(40)	ADDRESS	4	DTABPTAB	RELATED PCE TABLE ENTRY ADDRESS IF DTAB1PCE is on
68	(44)	ADDRESS	4	DTABWSTB	ADDR OR OFFSET OF WS TABLE PAIR ADDRESS
72	(48)	ADDRESS	4	DTABWSDF	DEFAULT WS LIST ADDRESS
76	(4C)	ADDRESS	4	DTABCHN	Offset/address of DCT Chain field
80	(50)	ADDRESS	4	DTABCNT	Offset/address of DCT COUNT field
84	(54)	ADDRESS	2	DTABLV	LOW SUBSCRIPT RANGE VALUE
86	(56)	ADDRESS	2	DTABHV	HIGH SUBSCRIPT RANGE VALUE
88	(58)	ADDRESS	4	DTABRTN	ADDRESS OF DCT INIT ROUTINE
92	(5C)	CHARACTER	16	DTABPPTK	PCEPTR token name
108	(6C)	CHARACTER	16	DTABCNTK	COUNT token name
124	(7C)	CHARACTER	16	DTABCHTK	CHAIN token name
124	(7C)	X'3'	0	DTABVERS	"3" DTAB version level
124	(7C)	X'8C'	0	DTABELEN	"*-DTAB" LENGTH OF DCT TABLE ENTRY DSECT

Table 124. Cross Reference for $DCTTAB

Name	Offset	Hex Tag
DTAB	0	
DTABALIL	33	
DTABALS	20	
DTABCHN	4C	
DTABCHTK	7C	40404040
DTABCHTT	2E	
DTABCNT	50	
DTABCNTK	6C	40404040
DTABCNTT	30	
DTABDESC	8	
DTABDESL	39	
DTABDEV	36	
DTABELEN	7C	8C
DTABFLG1	28	
DTABFLG2	29	

Table 124. Cross Reference for $DCTTAB (continued)

Name	Offset	Hex Tag
DTABFLG3	2A	
DTABFLG4	2B	
DTABFLG5	2D	
DTABFLG6	2F	
DTABHV	56	
DTABID	34	
DTABLEN	3C	
DTABLV	54	
DTABNAME	0	
DTABNAML	37	
DTABPCEP	40	
DTABPPTK	5C	40404040
DTABPPTT	2C	
DTABPTAB	40	
DTABPTYP	35	
DTABRTN	58	
DTABSCHN	3A	
DTABSUBL	38	
DTABVERS	7C	3
DTABWSDF	48	
DTABWSTB	44	
DTAB1DEH	28	40
DTAB1DEU	28	80
DTAB1MP	28	10
DTAB1PCE	28	20
DTAB2BSM	29	10
DTAB2CDC	29	8
DTAB2DCB	29	20
DTAB2POL	29	40
DTAB2SUB	29	80
DTAB3JWS	2A	80
DTAB3SWS	2A	40
DTAB4PPA	2B	20
DTAB4PPH	2B	40
DTAB4PPT	2B	10
DTAB4PPU	2B	80
DTAB5CHA	2D	20
DTAB5CHH	2D	40
DTAB5CHT	2D	10
DTAB5CHU	2D	80
DTAB6CTA	2F	20
DTAB6CTH	2F	40
DTAB6CTT	2F	10
DTAB6CTU	2F	80

Chapter 53. $DILWORK Information

$DILWORK Heading Information

Common Name:	JES2 BERT Lock POST Processor
Macro ID:	$DILWORK
DSECT Name:	PCE ($DILWORK is part of the PCE DSECT)
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4
Storage Attributes:	Subpool: See $PCE Key: See $PCE Residency: See $PCE
Size:	See symbol DILPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by:	See $PCE
Pointed to by:	The $DILPCE field of the $HCT data area points into the $PCEORG/$PCELAST chain to the first BERT POST PCE. Since this chain contains all PCEs, use the PCEID field to determine when you have chained past the last PCE of this type. See $PCE for other pointer fields that apply to all PCE types.
Serialization:	Normal PCE dispatch serialization
Function:	The fields in this work area are used by a JES2 BERT Lock POST Processor and by its support routines and exits. $DILWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $DILWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEDILID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

$DILWORK mapping

Table 125. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
4096	(1000)	ADDRESS	4	DILDWA	Address of active DWA
4096	(1000)	X'EC4'	0	DILPCEWS	"*-PCEWORK" Length of $DILBERT PCE

Chapter 54. $DLSWORK Information

$DLSWORK Heading Information

Common Name:	JES2 Deadline Secheduling PCE work area
Macro ID:	$DLSWORK
DSECT Name:	PCE ($DLSWORK is part of the PCE DSECT)
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4
Storage Attributes:	Subpool: See $PCE Key: See $PCE Residency: See $PCE
Size:	See symbol DLWWKSIZ for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by:	See $PCE
Pointed to by:	The $DLSPCE field of the $HCT data area. See $PCE for other pointer fields that apply to all PCE types.
Serialization:	Normal PCE dispatch serialization
Function:	The fields in this work area are used by a JES2 Deadline Scheduling processor and by its support routines. $DLSWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $DLSWORK are actually part of PCE DSECT, but only map PCEs with the value PCEDLSID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

$DLSWORK mapping

Table 126. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
320	(140)	BITSTRING	1	DLSFLAG1	Flags:
		1...		DLS1MSTR	"B'10000000'" This PCE is DLS master
		.1..		DLS1MEVT	"B'01000000'" MAS event to process
		..1.		DLS1CPAV	"B'00100000'" Cell pool available
		...1		DLS1PCEF	"B'00010000'" DLS PCE failed on this member
		.... 1...		DLS1CLN	"B'00001000'" Request to perform cleanup
		.... .1..		DLS1TMO	"B'00000100'" Time offset(s) changed

Table 126. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
321	(141)	BITSTRING	3		Reserved
324	(144)	SIGNED	4	DLSTMINT	Timer interval in ETOD units
328	(148)	ADDRESS	8	DLSHUNTC	Chain of HOLDUNTL events (ascending time order)
336	(150)	ADDRESS	8	DLSHUNTN	Chain of new HOLDUNTL events (LIFO)
344	(158)	ADDRESS	8	DLSHUNTI	Intermediate chain of HOLDUNTL events
352	(160)	ADDRESS	8	DLSSTBYE	Chain of DLS job entries for jobs with STARTBY
360	(168)	BITSTRING	16	DLSETOD	UTC time in ETOD format
376	(178)	SIGNED	4	DLSJCNT	Count of DLS job entries
380	(17C)	SIGNED	4	DLSLASTV	DLSJCNT at last validation
384	(180)	BITSTRING	12	DLSEVTQE	Event Timer Queue Element
396	(18C)	BITSTRING	12	DLSHBTQE	Heartbeat Timer Queue Element
408	(198)	BITSTRING	4	DLSMMASK	Known members mask
412	(19C)	BITSTRING	4	DLSWMASK	Work mask
416	(1A0)	BITSTRING	208	DLSSQD	Embedded SQD
624	(270)	SIGNED	4	DLSSCSEQ	Scan sequence number
628	(274)	SIGNED	4		Reserved
		Entry of DLSTMOFA array is time offset in ETOD format for member N (includes leap seconds). Array is indexed by member id.			
632	(278)	DBL WORD	8	DLSTMOFA(0)	Time offset array
896	(380)	ADDRESS	8	DLSPROCA(4)	Array of chains to process
928	(3A0)	SIGNED	4	DLSPJQE	Ptr to previous JQE
932	(3A4)	SIGNED	4	DLSCURRI	Current JQE index
936	(3A8)	SIGNED	4	DLSNEXTI	Next JQE index
940	(3AC)	SIGNED	4	DLSPREVI	Previous JQE index
		Each entry with index N of JQE backtrack array is a pointer to JQE at position N in a queue. Entry with index 0 is not used			
944	(3B0)	ADDRESS	8	DLSJQEAR	JQE backtrack array
952	(3B8)	SIGNED	8	DLSJQEAL	Length of JQE backtrack array in IARV64 input format MACDATE -12/05/14-<5>
0	(0)	X'3C0'	0	M00M1116	"DLSIARV" ++ IARV64 NAME
960	(3C0)	DBL WORD	8	DLSIARV(0)	++ IARV64 PARM LIST
960	(3C0)	BITSTRING	1	DLSIARV_XVERSION	++ INPUT XVERSION
961	(3C1)	BITSTRING	1	DLSIARV_XREQUEST	++ XREQUEST
961	(3C1)	X'1'	0	DLSIARV_XREQUEST_GETSTOR	"1" ++ XREQUEST.GETSTOR KEYWORD
961	(3C1)	X'2'	0	DLSIARV_XREQUEST_GETSHARED	"2" ++ XREQUEST.GETSHARED KEYWORD
961	(3C1)	X'3'	0	DLSIARV_XREQUEST_DETACH	"3" ++ XREQUEST.DETACH KEYWORD
961	(3C1)	X'4'	0	DLSIARV_XREQUEST_PAGEFIX	"4" ++ XREQUEST.PAGEFIX KEYWORD
961	(3C1)	X'5'	0	DLSIARV_XREQUEST_PAGEUNFIX	"5" ++ XREQUEST.PAGEUNFIX KEYWORD
961	(3C1)	X'6'	0	DLSIARV_XREQUEST_PAGEOUT	"6" ++ XREQUEST.PAGEOUT KEYWORD
961	(3C1)	X'7'	0	DLSIARV_XREQUEST_DISCARDDATA	"7" ++ XREQUEST.DISCARDDATA KEYWORD
961	(3C1)	X'8'	0	DLSIARV_XREQUEST_PAGEIN	"8" ++ XREQUEST.PAGEIN KEYWORD

Table 126. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
961	(3C1)	X'9'	0	DLSIARV_XREQUEST_PROTECT	"9" ++ XREQUEST.PROTECT KEYWORD
961	(3C1)	X'A'	0	DLSIARV_XREQUEST_SHAREMEMOBJ	"10" ++ XREQUEST.SHAREMEMOBJ KEYWORD
961	(3C1)	X'B'	0	DLSIARV_XREQUEST_CHANGEACCESS	"11" ++ XREQUEST.CHANGEACCESS KEYWORD
961	(3C1)	X'C'	0	DLSIARV_XREQUEST_UNPROTECT	"12" ++ XREQUEST.UNPROTECT KEYWORD
961	(3C1)	X'D'	0	DLSIARV_XREQUEST_CHANGEGUARD	"13" ++ XREQUEST.CHANGEGUARD KEYWORD
961	(3C1)	X'E'	0	DLSIARV_XREQUEST_LIST	"14" ++ XREQUEST.LIST KEYWORD
961	(3C1)	X'F'	0	DLSIARV_XREQUEST_GETCOMMON	"15" ++ XREQUEST.GETCOMMON KEYWORD
961	(3C1)	X'10'	0	DLSIARV_XREQUEST_COUNTPAGES	"16" ++ XREQUEST.COUNTPAGES KEYWORD
961	(3C1)	X'11'	0	DLSIARV_XREQUEST_PCIEFIX	"17" ++ XREQUEST.PCIEFIX KEYWORD
961	(3C1)	X'12'	0	DLSIARV_XREQUEST_PCIEUNFIX	"18" ++ XREQUEST.PCIEUNFIX KEYWORD
962	(3C2)	BITSTRING	1	DLSIARV_XFLAGS0	++ FIELD_LABEL
		1...		DLSIARV_XMOTKNSOURCE_SYSTEM	"B'10000000'" ++ XMOTKNSOURCE.SYSTEM KEYWORD
		.1..		DLSIARV_XMOTKNCREATOR_SYSTEM	"B'01000000'" ++ XMOTKNCREATOR.SYSTEM KEYWORD
		..1.		DLSIARV_XMATCH_MOTOKEN	"B'00100000'" ++ XMATCH.MOTOKEN KEYWORD
963	(3C3)	BITSTRING	1	DLSIARV_XKEY	++
964	(3C4)	BITSTRING	1	DLSIARV_XFLAGS1	++ FIELD_LABEL
		1...		DLSIARV_KEYUSED_KEY	"B'10000000'" ++ KEYUSED.KEY KEYWORD
		.1..		DLSIARV_KEYUSED_USERTKN	"B'01000000'" ++ KEYUSED.USERTKN KEYWORD
		..1.		DLSIARV_KEYUSED_TTOKEN	"B'00100000'" ++ KEYUSED.TTOKEN KEYWORD
		...1		DLSIARV_KEYUSED_CONVERTSTART	"B'00010000'" ++ KEYUSED.CONVERTSTART KEYWORD
		.... 1...		DLSIARV_KEYUSED_GUARDSIZE64	"B'00001000'" ++ KEYUSED.GUARDSIZE64 KEYWORD
		.... .1..		DLSIARV_KEYUSED_CONVERTSIZE64	"B'00000100'" ++ KEYUSED.CONVERTSIZE64 KEYWORD
		.... ..1.		DLSIARV_KEYUSED_MOTKN	"B'00000010'" ++ KEYUSED.MOTKN KEYWORD
		1		DLSIARV_KEYUSED_OWNERJOBNAME	"B'00000001'" ++ KEYUSED.OWNERJOBNAME KEYWORD
965	(3C5)	BITSTRING	1	DLSIARV_XFLAGS2	++ FIELD_LABEL

Table 126. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		DLSIARV_XCOND_YES	"B'10000000'" ++ XCOND.YES KEYWORD
		.1..		DLSIARV_XFPROT_NO	"B'01000000'" ++ XFPROT.NO KEYWORD
		..1.		DLSIARV_XCONTROL_AUTH	"B'00100000'" ++ XCONTROL.AUTH KEYWORD
		...1		DLSIARV_XGUARDLOC_HIGH	"B'00010000'" ++ XGUARDLOC.HIGH KEYWORD
		.... 1...		DLSIARV_XCHANGEACCESS_GLOBAL	"B'00001000'" ++ XCHANGEACCESS.GLOBAL KEYWORD
		.... .1..		DLSIARV_XPAGEFRAMESIZE_1MEG	"B'00000100'" ++ XPAGEFRAMESIZE.1MEG KEYWORD
		.... ..1.		DLSIARV_XPAGEFRAMESIZE_MAX	"B'00000010'" ++ XPAGEFRAMESIZE.MAX KEYWORD
		1		DLSIARV_XPAGEFRAMESIZE_ALL	"B'00000001'" ++ XPAGEFRAMESIZE.ALL KEYWORD
966	(3C6)	BITSTRING	1	DLSIARV_XFLAGS3	++ FIELD_LABEL
		1...		DLSIARV_XMATCH_USERTOKEN	"B'10000000'" ++ XMATCH.USERTOKEN KEYWORD
		.1..		DLSIARV_XAFFINITY_SYSTEM	"B'01000000'" ++ XAFFINITY.SYSTEM KEYWORD
		..1.		DLSIARV_XUSE2GTO32G_YES	"B'00100000'" ++ XUSE2GTO32G.YES KEYWORD
		...1		DLSIARV_XOWNER_NO	"B'00010000'" ++ XOWNER.NO KEYWORD
		.... 1...		DLSIARV_XV64SELECT_NO	"B'00001000'" ++ XV64SELECT.NO KEYWORD
		.... .1..		DLSIARV_XSVCDUMPRGN_NO	"B'00000100'" ++ XSVCDUMPRGN.NO KEYWORD
		.... ..1.		DLSIARV_XV64SHARED_NO	"B'00000010'" ++ XV64SHARED.NO KEYWORD
		1		DLSIARV_XSVCDUMPRGN_ALL	"B'00000001'" ++ XSVCDUMPRGN.ALL KEYWORD
967	(3C7)	BITSTRING	1	DLSIARV_XFLAGS4	++ FIELD_LABEL
		1...		DLSIARV_XLONG_NO	"B'10000000'" ++ XLONG.NO KEYWORD
		.1..		DLSIARV_XCLEAR_NO	"B'01000000'" ++ XCLEAR.NO KEYWORD
		..1.		DLSIARV_XVIEW_READONLY	"B'00100000'" ++ XVIEW.READONLY KEYWORD
		...1		DLSIARV_XVIEW_SHAREDWRITE	"B'00010000'" ++ XVIEW.SHAREDWRITE KEYWORD
		.... 1...		DLSIARV_XVIEW_HIDDEN	"B'00001000'" ++ XVIEW.HIDDEN KEYWORD
		.... .1..		DLSIARV_XCONVERT_TOGUARD	"B'00000100'" ++ XCONVERT.TOGUARD KEYWORD
		.... ..1.		DLSIARV_XCONVERT_FROMGUARD	"B'00000010'" ++ XCONVERT.FROMGUARD KEYWORD
		1		DLSIARV_XKEEPREAL_NO	"B'00000001'" ++ XKEEPREAL.NO KEYWORD
968	(3C8)	DBL WORD	8	DLSIARV_XSEGMENTS	++
976	(3D0)	CHARACTER	16	DLSIARV_XTTOKEN	++

Table 126. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
992	(3E0)	DBL WORD	8	DLSIARV_XUSERTKN	++
1000	(3E8)	ADDRESS	8	DLSIARV_XORIGIN	++
1008	(3F0)	ADDRESS	8	DLSIARV_XRANGLIST	++
1016	(3F8)	ADDRESS	8	DLSIARV_XMEMOBJSTART	++
1024	(400)	SIGNED	4	DLSIARV_XGUARDSIZE	++
1028	(404)	SIGNED	4	DLSIARV_XCONVERTSIZE	++
1032	(408)	SIGNED	4	DLSIARV_XALETVALUE	++
1036	(40C)	SIGNED	4	DLSIARV_XNUMRANGE	++
1040	(410)	ADDRESS	4	DLSIARV_XV64LISTPTR	++
1044	(414)	SIGNED	4	DLSIARV_XV64LISTLENGTH	++
1048	(418)	DBL WORD	8	DLSIARV_XCONVERTSTART	++
1056	(420)	DBL WORD	8	DLSIARV_XCONVERTSIZE64	++
1064	(428)	DBL WORD	8	DLSIARV_XGUARDSIZE64	++
1072	(430)	CHARACTER	8	DLSIARV_XUSERTOKEN	++
1080	(438)	BITSTRING	1	DLSIARV_XDUMPPRIORITY	++
1081	(439)	BITSTRING	1	DLSIARV_XFLAGS5	++ FIELD_LABEL
		1...		DLSIARV_XDUMPPROTOCOL_YES	"B'10000000'" ++ XDUMPPROTOCOL.YES KEYWORD
		.1..		DLSIARV_XORDER_DUMPPRIORITY	"B'01000000'" ++ XORDER.DUMPPRIORITY KEYWORD
		..1.		DLSIARV_XTYPE_PAGEABLE	"B'00100000'" ++ XTYPE.PAGEABLE KEYWORD
		...1		DLSIARV_XTYPE_DREF	"B'00010000'" ++ XTYPE.DREF KEYWORD
		.... 1...		DLSIARV_XOWNERCOM_HOME	"B'00001000'" ++ XOWNERCOM.HOME KEYWORD
		.... .1..		DLSIARV_XOWNERCOM_PRIMARY	"B'00000100'" ++ XOWNERCOM.PRIMARY KEYWORD
		.... ..1.		DLSIARV_XOWNERCOM_SYSTEM	"B'00000010'" ++ XOWNERCOM.SYSTEM KEYWORD
		1		DLSIARV_XOWNERCOM_BYASID	"B'00000001'" ++ XOWNERCOM.BYASID KEYWORD
1082	(43A)	BITSTRING	1	DLSIARV_XFLAGS6	++ FIELD_LABEL
		1...		DLSIARV_XV64COMMON_NO	"B'10000000'" ++ XV64COMMON.NO KEYWORD
		.1..		DLSIARV_XMEMLIMIT_NO	"B'01000000'" ++ XMEMLIMIT.NO KEYWORD
		..1.		DLSIARV_XDETACHFIXED_YES	"B'00100000'" ++ XDETACHFIXED.YES KEYWORD
		...1		DLSIARV_XDOAUTHCHECKS_YES	"B'00010000'" ++ XDOAUTHCHECKS.YES KEYWORD
		.... 1...		DLSIARV_XLOCALSYSAREA_YES	"B'00001000'" ++ XLOCALSYSAREA.YES KEYWORD
		.... .1..		DLSIARV_XAMOUNTSIZE_4K	"B'00000100'" ++ XAMOUNTSIZE.4K KEYWORD
		.... ..1.		DLSIARV_XAMOUNTSIZE_1MEG	"B'00000010'" ++ XAMOUNTSIZE.1MEG KEYWORD
		1		DLSIARV_XMEMLIMIT_COND	"B'00000001'" ++ XMEMLIMIT.COND KEYWORD
1083	(43B)	BITSTRING	1	DLSIARV_XFLAGS7	++ FIELD_LABEL
		1...		DLSIARV_KEYUSED_DUMP	"B'10000000'" ++ KEYUSED.DUMP KEYWORD

Table 126. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		DLSIARV_KEYUSED_OPTIONVALUE	"B'01000000'" ++ KEYUSED.OPTIONVALUE KEYWORD
		..1.		DLSIARV_KEYUSED_SVCDUMPRGN	"B'00100000'" ++ KEYUSED.SVCDUMPRGN KEYWORD
		...1		DLSIARV_XATTRIBUTE_DEFS	"B'00010000'" ++ XATTRIBUTE.DEFS KEYWORD
		.... 1...		DLSIARV_XATTRIBUTE_OWNERGONE	"B'00001000'" ++ XATTRIBUTE.OWNERGONE KEYWORD
		.... .1..		DLSIARV_XATTRIBUTE_NOTOWNERGONE	"B'00000100'" ++ XATTRIBUTE.NOTOWNERGONE KEYWORD
		.... ..1.		DLSIARV_XTRACKINFO_YES	"B'00000010'" ++ XTRACKINFO.YES KEYWORD
		1		DLSIARV_XUNLOCKED_YES	"B'00000001'" ++ XUNLOCKED.YES KEYWORD
1084	(43C)	BITSTRING	1	DLSIARV_XDUMP	++ XDUMP
1084	(43C)	X'0'	0	DLSIARV_XDUMP_NONE	"0" ++ XDUMP.NONE KEYWORD
1084	(43C)	X'1'	0	DLSIARV_XDUMP_NO	"1" ++ XDUMP.NO KEYWORD
1084	(43C)	X'2'	0	DLSIARV_XDUMP_LIKESQA	"2" ++ XDUMP.LIKESQA KEYWORD
1084	(43C)	X'3'	0	DLSIARV_XDUMP_LIKECSA	"3" ++ XDUMP.LIKECSA KEYWORD
1084	(43C)	X'20'	0	DLSIARV_XDUMP_LIKERGN	"32" ++ XDUMP.LIKERGN KEYWORD
1084	(43C)	X'21'	0	DLSIARV_XDUMP_LIKELSQA	"33" ++ XDUMP.LIKELSQA KEYWORD
1084	(43C)	X'FF'	0	DLSIARV_XDUMP_ALL	"255" ++ XDUMP.ALL KEYWORD
1085	(43D)	BITSTRING	1	DLSIARV_XFLAGS8	++ FIELD_LABEL
		1...		DLSIARV_XPAGEFRAMESIZE_PAGEABLE1MEG	"B'10000000'" ++ XPAGEFRAMESIZE.PAGEABLE1MEG KEYWOR
		.1..		DLSIARV_XPAGEFRAMESIZE_DREF1MEG	"B'01000000'" ++ XPAGEFRAMESIZE.DREF1MEG KEYWORD
1086	(43E)	BITSTRING	2	DLSIARV_XOWNERASID	++
1088	(440)	BITSTRING	1	DLSIARV_XOPTIONVALUE	++
1089	(441)	CHARACTER	8	DLSIARV_XRSV0001	++ RESERVED
1097	(449)	CHARACTER	8	DLSIARV_XOWNERJOBNAME	++
1105	(451)	CHARACTER	7	DLSIARV_XRSV0004	++ RESERVED
1112	(458)	ADDRESS	8	DLSIARV_XDMAPAGETABLE	++
1120	(460)	DBL WORD	8	DLSIARV_XUNITS	++
1128	(468)	BITSTRING	1	DLSIARV_XFLAGS9	++ FIELD_LABEL
		1...		DLSIARV_KEYUSED_UNITS	"B'10000000'" ++ KEYUSED.UNITS KEYWORD
		.1..		DLSIARV_XUNITSIZE_1M	"B'01000000'" ++ XUNITSIZE.1M KEYWORD
		..1.		DLSIARV_XUNITSIZE_2G	"B'00100000'" ++ XUNITSIZE.2G KEYWORD
		...1		DLSIARV_XPAGEFRAMESIZE_1M	"B'00010000'" ++ XPAGEFRAMESIZE.1M KEYWORD
		.... 1...		DLSIARV_XPAGEFRAMESIZE_2G	"B'00001000'" ++ XPAGEFRAMESIZE.2G KEYWORD
		.... .1..		DLSIARV_XTYPE_FIXED	"B'00000100'" ++ XTYPE.FIXED KEYWORD

Table 126. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1129	(469)	CHARACTER	7	DLSIARV_XRSV0005	++ RESERVED
1129	(469)	X'470'	0	DLSIARV_PL_END	"*" ++ END OF BASE PLIST
992	(3E0)	DBL WORD	8	DLSIARV_XOUTMOTKN	++
992	(3E0)	DBL WORD	8	DLSIARV_XMOTKN	++
1136	(470)	X'B0'	0	DLSIARVL	"*-DLSIARV" ++ LENGTH OF PLIST
				IARV64-5	
0	(0)	X'B0'	0	DLSIARS	"*-DLSIARV" Size of above
1136	(470)	SIGNED	4	DLSERCNT	Error count
1140	(474)	SIGNED	4	DLSEXTID	$MSTNTFY exit id
1144	(478)	BITSTRING	1	DLSXREQ	Space for DLS XREQ request
		Tree descriptor describes the AVL tree used to access DLS job entries for jobs with STARTBY. Tree descriptor is mapped by XTDTREE DSECT in macro $XTREE.			
1296	(510)	BITSTRING	1	DLSSTREE	Tree descriptor
		Tree node descriptor describes the node of the AVL tree in DLSSBTR. Node descriptor is mapped by XTNNODE DSECT in macro $XTREE.			
4216	(1078)	BITSTRING	1	DLSSNODD	Node descriptor
4216	(1078)	X'F88'	0	DLSWKSIZ	"*-PCEWORK" Length of DLS PCE

Table 127. Cross Reference for $DLSWORK

Name	Offset	Hex Tag
DLSCURRI	3A4	
DLSERCNT	470	
DLSETOD	168	
DLSEVTQE	180	
DLSEXTID	474	
DLSFLAG1	140	
DLSHBTQE	18C	
DLSHUNTC	148	
DLSHUNTI	158	
DLSHUNTN	150	
DLSIARS	0	B0
DLSIARV	3C0	
DLSIARV_KEYUSED_CONVERTSIZE64	3C4	4
DLSIARV_KEYUSED_CONVERTSTART	3C4	10
DLSIARV_KEYUSED_DUMP	43B	80
DLSIARV_KEYUSED_GUARDSIZE64	3C4	8
DLSIARV_KEYUSED_KEY	3C4	80
DLSIARV_KEYUSED_MOTKN	3C4	2
DLSIARV_KEYUSED_OPTIONVALUE	43B	40
DLSIARV_KEYUSED_OWNERJOBNAME	3C4	1
DLSIARV_KEYUSED_SVCDUMPRGN	43B	20
DLSIARV_KEYUSED_TTOKEN	3C4	20
DLSIARV_KEYUSED_UNITS	468	80
DLSIARV_KEYUSED_USERTKN	3C4	40

Table 127. Cross Reference for $DLSWORK (continued)

Name	Offset	Hex Tag
DLSIARV_PL_END	469	470
DLSIARV_XAFFINITY_SYSTEM	3C6	40
DLSIARV_XALETVALUE	408	
DLSIARV_XAMOUNTSIZE_1MEG	43A	2
DLSIARV_XAMOUNTSIZE_4K	43A	4
DLSIARV_XATTRIBUTE_DEFS	43B	10
DLSIARV_XATTRIBUTE_NOTOWNERGONE	43B	4
DLSIARV_XATTRIBUTE_OWNERGONE	43B	8
DLSIARV_XCHANGEACCESS_GLOBAL	3C5	8
DLSIARV_XCLEAR_NO	3C7	40
DLSIARV_XCOND_YES	3C5	80
DLSIARV_XCONTROL_AUTH	3C5	20
DLSIARV_XCONVERT_FROMGUARD	3C7	2
DLSIARV_XCONVERT_TOGUARD	3C7	4
DLSIARV_XCONVERTSIZE	404	
DLSIARV_XCONVERTSIZE64	420	
DLSIARV_XCONVERTSTART	418	
DLSIARV_XDETACHFIXED_YES	43A	20
DLSIARV_XDMAPAGETABLE	458	
DLSIARV_XDOAUTHCHECKS_YES	43A	10
DLSIARV_XDUMP	43C	
DLSIARV_XDUMP_ALL	43C	FF
DLSIARV_XDUMP_LIKECSA	43C	3
DLSIARV_XDUMP_LIKELSQA	43C	21
DLSIARV_XDUMP_LIKERGN	43C	20
DLSIARV_XDUMP_LIKESQA	43C	2
DLSIARV_XDUMP_NO	43C	1
DLSIARV_XDUMP_NONE	43C	0
DLSIARV_XDUMPPRIORITY	438	
DLSIARV_XDUMPPROTOCOL_YES	439	80
DLSIARV_XFLAGS0	3C2	
DLSIARV_XFLAGS1	3C4	
DLSIARV_XFLAGS2	3C5	
DLSIARV_XFLAGS3	3C6	
DLSIARV_XFLAGS4	3C7	
DLSIARV_XFLAGS5	439	
DLSIARV_XFLAGS6	43A	
DLSIARV_XFLAGS7	43B	
DLSIARV_XFLAGS8	43D	
DLSIARV_XFLAGS9	468	
DLSIARV_XFPROT_NO	3C5	40
DLSIARV_XGUARDLOC_HIGH	3C5	10
DLSIARV_XGUARDSIZE	400	
DLSIARV_XGUARDSIZE64	428	
DLSIARV_XKEEPREAL_NO	3C7	1
DLSIARV_XKEY	3C3	
DLSIARV_XLOCALSYSAREA_YES	43A	8
DLSIARV_XLONG_NO	3C7	80
DLSIARV_XMATCH_MOTOKEN	3C2	20

Table 127. Cross Reference for $DLSWORK (continued)

Name	Offset	Hex Tag
DLSIARV_XMATCH_USERTOKEN	3C6	80
DLSIARV_XMEMLIMIT_COND	43A	1
DLSIARV_XMEMLIMIT_NO	43A	40
DLSIARV_XMEMOBJSTART	3F8	
DLSIARV_XMOTKN	3E0	
DLSIARV_XMOTKNCREATOR_SYSTEM	3C2	40
DLSIARV_XMOTKNSOURCE_SYSTEM	3C2	80
DLSIARV_XNUMRANGE	40C	
DLSIARV_XOPTIONVALUE	440	
DLSIARV_XORDER_DUMPPRIORITY	439	40
DLSIARV_XORIGIN	3E8	
DLSIARV_XOUTMOTKN	3E0	
DLSIARV_XOWNER_NO	3C6	10
DLSIARV_XOWNERASID	43E	
DLSIARV_XOWNERCOM_BYASID	439	1
DLSIARV_XOWNERCOM_HOME	439	8
DLSIARV_XOWNERCOM_PRIMARY	439	4
DLSIARV_XOWNERCOM_SYSTEM	439	2
DLSIARV_XOWNERJOBNAME	449	
DLSIARV_XPAGEFRAMESIZE_ALL	3C5	1
DLSIARV_XPAGEFRAMESIZE_DREF1MEG	0	40
DLSIARV_XPAGEFRAMESIZE_MAX	3C5	2
DLSIARV_XPAGEFRAMESIZE_PAGEABLE1MEG	43D	80
DLSIARV_XPAGEFRAMESIZE_1M	468	10
DLSIARV_XPAGEFRAMESIZE_1MEG	3C5	4
DLSIARV_XPAGEFRAMESIZE_2G	468	8
DLSIARV_XRANGLIST	3F0	
DLSIARV_XREQUEST	3C1	
DLSIARV_XREQUEST_CHANGEACCESS	3C1	B
DLSIARV_XREQUEST_CHANGEGUARD	3C1	D
DLSIARV_XREQUEST_COUNTPAGES	3C1	10
DLSIARV_XREQUEST_DETACH	3C1	3
DLSIARV_XREQUEST_DISCARDDATA	3C1	7
DLSIARV_XREQUEST_GETCOMMON	3C1	F
DLSIARV_XREQUEST_GETSHARED	3C1	2
DLSIARV_XREQUEST_GETSTOR	3C1	1
DLSIARV_XREQUEST_LIST	3C1	E
DLSIARV_XREQUEST_PAGEFIX	3C1	4
DLSIARV_XREQUEST_PAGEIN	3C1	8
DLSIARV_XREQUEST_PAGEOUT	3C1	6
DLSIARV_XREQUEST_PAGEUNFIX	3C1	5
DLSIARV_XREQUEST_PCIEFIX	3C1	11
DLSIARV_XREQUEST_PCIEUNFIX	3C1	12
DLSIARV_XREQUEST_PROTECT	3C1	9
DLSIARV_XREQUEST_SHAREMEMOBJ	3C1	A
DLSIARV_XREQUEST_UNPROTECT	3C1	C
DLSIARV_XRSV0001	441	
DLSIARV_XRSV0004	451	
DLSIARV_XRSV0005	469	

Table 127. Cross Reference for $DLSWORK (continued)

Name	Offset	Hex Tag
DLSIARV_XSEGMENTS	3C8	
DLSIARV_XSVCDUMPRGN_ALL	3C6	1
DLSIARV_XSVCDUMPRGN_NO	3C6	4
DLSIARV_XTRACKINFO_YES	43B	2
DLSIARV_XTTOKEN	3D0	
DLSIARV_XTYPE_DREF	439	10
DLSIARV_XTYPE_FIXED	468	4
DLSIARV_XTYPE_PAGEABLE	439	20
DLSIARV_XUNITS	460	
DLSIARV_XUNITSIZE_1M	468	40
DLSIARV_XUNITSIZE_2G	468	20
DLSIARV_XUNLOCKED_YES	43B	1
DLSIARV_XUSERTKN	3E0	
DLSIARV_XUSERTOKEN	430	
DLSIARV_XUSE2GTO32G_YES	3C6	20
DLSIARV_XVERSION	3C0	
DLSIARV_XVIEW_HIDDEN	3C7	8
DLSIARV_XVIEW_READONLY	3C7	20
DLSIARV_XVIEW_SHAREDWRITE	3C7	10
DLSIARV_XV64COMMON_NO	43A	80
DLSIARV_XV64LISTLENGTH	414	
DLSIARV_XV64LISTPTR	410	
DLSIARV_XV64SELECT_NO	3C6	8
DLSIARV_XV64SHARED_NO	3C6	2
DLSIARVL	470	B0
DLSJCNT	178	
DLSJQEAL	3B8	
DLSJQEAR	3B0	
DLSLASTV	17C	
DLSMMASK	198	
DLSNEXTI	3A8	
DLSPJQE	3A0	
DLSPREVI	3AC	
DLSPROCA	380	
DLSSCSEQ	270	
DLSSNODD	1078	
DLSSQD	1A0	
DLSSTBYE	160	
DLSSTREE	510	
DLSTMINT	144	
DLSTMOFA	278	
DLSWKSIZ	1078	F88
DLSWMASK	19C	
DLSXREQ	478	
DLS1CLN	140	8
DLS1CPAV	140	20
DLS1MEVT	140	40
DLS1MSTR	140	80
DLS1PCEF	140	10

Table 127. Cross Reference for $DLSWORK (continued)

Name	Offset	Hex Tag
DLS1TMO	140	4
M00M1116	0	3C0
PCE	0	

Chapter 55. $DSB Information

$DSB Heading Information

Common Name:	Data Space Control Block
Macro ID:	$DSB
DSECT Name:	DSB
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	$DSB Offset: -8 (in the JES2 CSA storage prefix) Length: 4
Storage Attributes:	Subpool: 231 or 229 Key: 1 Residency: Virtual and real storage are anywhere, above or below 16M, in common storage (if SCOPE=LOCAL or SCOPE=ALL) and private storage (if SCOPE=LOCAL).
Size:	See DSBLEN (plus an 8 byte prefix)
Created by:	HASCDSS during data space create
Pointed to by:	CCTDSB field of the $HCCT data area HXBDSB field of the $HASXB data area DSBNEXT field of the $DSB data area SCIDDSB field of the $SCID data area for CKPT versions
Serialization:	None required
Function:	This DSECT maps a work area used in the maintenance of JES2 dataspaces.

$DSB mapping

Table 128. Structure DSB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DSB	DATASPACE BLOCK
0	(0)	BITSTRING	1	DSBVERS	CONTROL BLOCK VERSION
0	(0)	X'2'	0	DSBVERSN	"2" Current control block ver
1	(1)	BITSTRING	1	DSBFLAG1	Latest $DSPSERV request type (see DSWAIFL1 for bit values). Not set for RELEASE requests
2	(2)	BITSTRING	2		RESERVED FOR FUTURE USE
4	(4)	ADDRESS	4	DSBNEXT	Pointer to the next DSB
8	(8)	SIGNED	4	DSBRC	Return code from latest service routine ($DSPSERV or $ALESERV)
12	(C)	SIGNED	4	DSBALET	ALET FOR JES2 TO USE WHEN ACCESSING THE DATA SPACE
16	(10)	BITSTRING	8	DSBSTKN	DATASPACE TOKEN
24	(18)	ADDRESS	4	DSBOASCB	Owning ASCB address
28	(1C)	BITSTRING	8	DSBOSTKN	Owning STOKEN value
36	(24)	ADDRESS	4	DSBOTCB	Owning TCB address
40	(28)	BITSTRING	16	DSBOTTKN	Owning TCB TTOKEN
56	(38)	ADDRESS	4	DSBORG	DATASPACE ORIGIN
60	(3C)	SIGNED	4	DSBBLKSM	MAX data space size
64	(40)	SIGNED	4	DSBBLKSC	Current data space size

Table 128. Structure DSB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
68	(44)	SIGNED	4	DSBBLKSI	Initial data space size
72	(48)	CHARACTER	8	DSBPNAME	Name passed on $DSPSERV
80	(50)	CHARACTER	8	DSBNAME(0)	Constructed data space name
80	(50)	CHARACTER	4	DSBNAME1	USUALLY SUBSYSTEM NAME
84	(54)	CHARACTER	4	DSBNAME2	First 4 bytes of DSBPNAME
88	(58)	CHARACTER	8	DSBOUTN	DATASPACE NAME USED
96	(60)	BITSTRING	1	DSBKEY	DATASPACE KEY
97	(61)	BITSTRING	1	DSBFLAG2	Data space flags
		1...		DSB2FPRO	"B'10000000'" DS is fetch protected
		..1.		DSB2OWNM	"B'00100000'" OWNER=MASTER specified
		...1		DSB2OWNC	"B'00010000'" OWNER=CURRENT specified
		.... 1...		DSB2OWNA	"B'00001000'" OWNER=AUX specified
		.... .1..		DSB2SCLO	"B'00000100'" SCOPE=LOCAL data space
		.... ..1.		DSB2SCAL	"B'00000010'" SCOPE=ALL data space
		1		DSB2SCCO	"B'00000001'" SCOPE=COMMON data space
98	(62)	BITSTRING	2		RESERVED FOR FUTURE USE
100	(64)	ADDRESS	4	DSBLIST	Pointer to DSPSERV work area (used for CREATE and DELETE only)
104	(68)	SIGNED	4	DSBVRBAS	Alt base for VER/REP facil
108	(6C)	ADDRESS	4	(2)	RESERVED FOR FUTURE USE
120	(78)	DBL WORD	8	(0)	Ensure doubleword alignment
120	(78)	X'78'	0	DSBLEN	"*-DSB" LENGTH OF DATASPACE BLOCK

Table 129. Cross Reference for $DSB

Name	Offset	Hex Tag
DSB	0	
DSBALET	C	
DSBBLKSC	40	
DSBBLKSI	44	
DSBBLKSM	3C	
DSBFLAG1	1	
DSBFLAG2	61	
DSBKEY	60	
DSBLEN	78	78
DSBLIST	64	
DSBNAME	50	
DSBNAME1	50	
DSBNAME2	54	
DSBNEXT	4	
DSBOASCB	18	
DSBORG	38	

Table 129. Cross Reference for $DSB (continued)

Name	Offset	Hex Tag
DSBOSTKN	1C	
DSBOTCB	24	
DSBOTTKN	28	
DSBOUTN	58	
DSBPNAME	48	
DSBRC	8	
DSBSTKN	10	
DSBVERS	0	
DSBVERSN	0	2
DSBVRBAS	68	
DSB2FPRO	61	80
DSB2OWNA	61	8
DSB2OWNC	61	10
DSB2OWNM	61	20
DSB2SCAL	61	2
DSB2SCCO	61	1
DSB2SCLO	61	4

Chapter 56. $DSCT Information

$DSCT Programming Interface Information

$DSCT is a programming interface.

$DSCT Heading Information

Common Name: Data Set Control Table
Macro ID: $DSCT
DSECT Name: DSCT
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'DSCT'
Offset: DSID-DSCT
Length: 4
Storage Attributes: Subpool: Same as $IOT
Key: Same as $IOT
Residency: The DSCT resides within the $IOT data area.

Size: See DSCTLEN
Created by: $IOTBLD routine, filled in by the $DSCTBLD routine at allocation time
Pointed to by: IOTDSCT field of the $IOT data area contains the offset within the IOT of the DSCT.
Serialization: Same as $IOT
Function: The DSCT is a control block which resides within the IOT control block. The DSCT is initialized only for data sets created by APPC Transaction Programs. The DSCT contains data set level information used to override job level information. The DSCT is located at the end of each spin IOT. Flag IOT2DSCT indicates that the DSCT exists and contains valid information.

$DSCT mapping

Table 130. Structure DSCT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DSCT	HASP Data Set Control Table
0	(0)	DBL WORD	8	(0)	Assumed double word start
0	(0)	CHARACTER	4	DSID	DSCT identifier
4	(4)	ADDRESS	1	DSVERS	DSCT version number
4	(4)	X'1'	0	DSVERN	"1" DSCT version
5	(5)	BITSTRING	1	DSFLAG1	DSCT flag byte 1
		1...		DSUSUNDF	"B'10000000'" Userid is undefined
6	(6)	SIGNED	2		Reserved for future use
8	(8)	CHARACTER	8	DSJBN	Job name
16	(10)	CHARACTER	8	DSWKID	Work unit identifier
24	(18)	DBL WORD	8	DSESTK	Entry start clock time
32	(20)	DBL WORD	8	DSXSTK	Execution start clock time
40	(28)	SIGNED	4	DSSTRT	Entry time in 1/100's sec

Table 130. Structure DSCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
44	(2C)	SIGNED	4	DSSTRD	Entry date 00yydddf
48	(30)	CHARACTER	8	DSUID	User identification field
56	(38)	CHARACTER	8	DSTPUID	Transaction Program Userid
64	(40)	CHARACTER	4	DSACT	Account number
68	(44)	SIGNED	4		Reserved for future use
72	(48)	SIGNED	4		Reserved for future use
76	(4C)	SIGNED	4		Reserved for future use
80	(50)	SIGNED	4		Reserved for future use
84	(54)	SIGNED	4		Reserved for future use
88	(58)	SIGNED	4		Reserved for future use
92	(5C)	SIGNED	4	DSUSERF(5)	Reserved fields for user
92	(5C)	X'70'	0	DSCTLEN	"*-DSCT" Length of DSCT

Table 131. Cross Reference for $DSCT

Name	Offset	Hex Tag
DSACT	40	
DSCT	0	
DSCTLEN	5C	70
DSESTK	18	
DSFLAG1	5	
DSID	0	C4E2C3E3
DSJBN	8	
DSSTRD	2C	
DSSTRT	28	
DSTPUID	38	
DSUID	30	
DSUSERF	5C	
DSUSUNDF	5	80
DSVERN	4	1
DSVERS	4	
DSWKID	10	
DSXSTK	20	

Chapter 57. $DSSCB Information

$DSSCB Heading Information

Common Name: Data Set Services Control Block
Macro ID: $DSSCB
DSECT Name: DSSCB
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: DSS
Offset: DSSID-DSSCB
Length: L'DSSID
Storage Attributes: Subpool: 0
Key: 1
Residency: Virtual and real storage are anywhere in the JES2 address space.

Size: See DSSGLEN+DSSVLEN
Created by: RDSMSG routine in HASPRDR, and
OPJLOG routine in HASPHOPE
Pointed to by: OUTDSSCB field of the $OUTWORK data area
Serialization: See macros $DSOPEN, $DSPUT, and $DSCLOSE
Function: The $DSSCB is a work area used to allow data set services. Three sections are identified in the $DSSCB dsect.
The three sections are: 1) a control section, 2) an internal work area, and 3) a caller's work area.
The Control Section:
Fields in the control section must be set prior to calling $DSOPEN. Failure to set the fields in this section will result in a failure in $DSOPEN.
Internal Work Section:
The internal work area will be set to zero by $DSOPEN. Subsequent data set services will use this internal work area to store information such as buffer pointers and counters.
Caller's Work Area:
The caller section will contain all the fields that the caller of the data set service routines will need to set to write the next record.

$DSSCB mapping

Table 132. Structure DSSCB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DSSCB	HASP DATA SET SERVICE DSECT
0	(0)	CHARACTER	4	DSSID	DATA SET SERVICE IDENTIFIER
4	(4)	ADDRESS	4	DSSAIOT	POINTER TO ALLOCATION IOT
8	(8)	BITSTRING	8	DSSKEY(0)	RECORD VERIFICATION KEY
8	(8)	BITSTRING	4	DSSJKEY	4-BYTE UNIQUE JOB KEY
12	(C)	BITSTRING	4	DSSDSKEY	4-BYTE UNIQUE DATA SET NUMBER
12	(C)	X'10'	0	DSSGLEN	"*-DSSCB" LEN OF GENERAL SECT OF DSS

Table 132. Structure DSSCB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		INTERNAL WORK AREA - THESE FIELDS ARE SET TO ZERO ON ENTRY TO THE $DSOPEN ROUTINE			
16	(10)	ADDRESS	4	DSSABUF	STORAGE ADDR OF FIRST BUF
20	(14)	ADDRESS	4	DSSONXT	ADDR OF NEXT RECORD IN BUF
24	(18)	ADDRESS	4	DSSNBUF	STORAGE ADDR OF NEXT BUFFER
28	(1C)	BITSTRING	4	DSSMTTRF	TRACK ADDR OF FIRST BUF IN NEW DS CHAIN CREATED BY $DSPUT
32	(20)	BITSTRING	4	DSSMTTRO	TRACK ADDRESS OF LAST BUFFER IN ORIGINAL DATA SET CHAIN
36	(24)	ADDRESS	4	DSSPIOT	IOT ADDR OF 'OPENED' PDDB
40	(28)	ADDRESS	4	DSSPDDB	ADDRESS OF 'OPENED' PDDB
44	(2C)	SIGNED	4	DSSRECCT	DATA SET RECORD COUNT
48	(30)	SIGNED	4	DSSPGCT	DATA SET PAGE COUNT
52	(34)	SIGNED	4	DSSBYTE	DATA SET BYTE COUNT
56	(38)	ADDRESS	4	DSSRECAD	ADDR OF USER SUPPLIED REC
60	(3C)	ADDRESS	4	DSSEWF	Callers's PCEIOEWF
64	(40)	BITSTRING	1	DSSFLAG1	DATA SET SERVICE FLAG BYTE
		CALLER WORK AREA - DATA IN THIS AREA IS SUPPLIED BY THE CALLER OF $DSPUT. IF CARRIAGE CONTROL INFORMATION IS NOT SUPPLIED THEN TRIPLE SPACING WILL BE SET AS THE DEFAULT CARRIAGE CONTROL. NONE OF THE FIELDS IN THE CALLER WORK AREA WILL BE ZEROED AFTER THE INITIAL ZEROING DONE BY $DSOPEN. IF THE LENGTH OR CARRIAGE CONTROL INFORMATION IS TO CHANGE THEN THE CALLER MUST UPDATE THESE FIELDS PRIOR TO THE CALL TO $DSPUT.			
65	(41)	BITSTRING	1	DSSCCTL	CARRIAGE CONTROL BYTE - IF NOT SET TRIPLE SPACING ASSUME
66	(42)	SIGNED	2	DSSLEN	LENGTH OF INPUT DATA RECORD
68	(44)	ADDRESS	4	DSSRECPT	PNTER TO DATA RECORD
68	(44)	X'38'	0	DSSVLEN	"*-DSSABUF" LENGTH OF VARIABLE SECTION
72	(48)	SIGNED	4	DSSREC(0)	START OF RECORD TEXT
		DSSFLAG1 FLAG SETTINGS FOR DSSFLAG1			
		1...		DSS1OPEN	"B'10000000'" DATA SET HAS BEEN $DSOPENED
		.1..		DSS1NCLS	"B'01000000'" $DSCLOSE DATA SET IN ERROR
		..1.		DSS1PUTS	"B'00100000'" A $DSPUT HAS BEEN COMPLETED
		...1		DSS1FRST	"B'00010000'" $DSCLOSE READ FIRST RECORD OF THE ORIGINAL DATA SET
		.... 1...		DSS1DSTR	"B'00001000'" $DSCLOSE HAS ISSUED DISTERR
		.... .1..		DSS1BTRC	"B'00000100'" Blank truncate data set

Table 133. Cross Reference for $DSSCB

Name	Offset	Hex Tag
DSSABUF	10	

Table 133. Cross Reference for $DSSCB (continued)

Name	Offset	Hex Tag
DSSAIOT	4	
DSSBYTE	34	
DSSCB	0	
DSSCCTL	41	
DSSDSKEY	C	
DSSEWF	3C	
DSSFLAG1	40	
DSSGLEN	C	10
DSSID	0	
DSSJKEY	8	
DSSKEY	8	
DSSLEN	42	
DSSMTTRF	1C	
DSSMTTRO	20	
DSSNBUF	18	
DSSONXT	14	
DSSPDDB	28	
DSSPGCT	30	
DSSPIOT	24	
DSSREC	48	
DSSRECAD	38	
DSSRECCT	2C	
DSSRECPT	44	
DSSVLEN	44	38
DSS1BTRC	48	4
DSS1DSTR	48	8
DSS1FRST	48	10
DSS1NCLS	48	40
DSS1OPEN	48	80
DSS1PUTS	48	20

Chapter 58. $DSWA Information

$DSWA Programming Interface Information

$DSWA is a programming interface.

$DSWA Heading Information

Common Name: Data Space Services Work Area
Macro ID: $DSWA
DSECT Name: DSWA
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: DSWA
Offset: DSWAID-DSWA
Length: L'DSWAID
Storage Attributes: Subpool: 229
Key: 1
Residency: Virtual and real storage are anywhere, above or below 16M, in private storage.

Size: See DSWASIZE
Created by: $DSPSERV macro
Pointed to by: None
Serialization: None required
Function: This DSECT maps the parameter list to the data space services routines in HASCDSS. It is created by the $DSPSERV macro and freed in HASCDSS.

$DSWA mapping

Table 134. Structure DSWA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DSWA	
0	(0)	CHARACTER	4	DSWAID	$DSWA IDENTIFIER
4	(4)	BITSTRING	1	DSWAVERS	$DSWA VERSION NUMBER
4	(4)	X'3'	0	DSWALEVL	"3" $DSWA CURRENT VERS LEVEL
INPUT FLAG INDICATORS.					
5	(5)	BITSTRING	1	DSWAIFL1	$DSPSERV FUNCTION FLAG
		1...		DSWAI1CR	"B'10000000'" Create request
		.1..		DSWAI1EX	"B'01000000'" Extend request
		..1.		DSWAI1RL	"B'00100000'" Release request
		...1		DSWAI1DE	"B'00010000'" Delete request
6	(6)	BITSTRING	1	DSWAIFL2	$DSPSERV Parameter flag (flags must be the same as CPMFLAG3)
		1...		DSWAI2FY	"B'10000000'" FPROT=YES specified
		.1..		DSWAI2FN	"B'01000000'" FPROT=NO specified
		..1.		DSWAI2OM	"B'00100000'" OWNER=MASTER specified

Table 134. Structure DSWA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		DSWAI2OC	"B'00010000'" OWNER=CURRENT specified
		.... 1...		DSWAI2OA	"B'00001000'" OWNER=AUX specified
		.... .1..		DSWAI2SL	"B'00000100'" SCOPE=LOCAL specified
		.... ..1.		DSWAI2SA	"B'00000010'" SCOPE=ALL specified
		1		DSWAI2SC	"B'00000001'" SCOPE=COMMON specified
7	(7)	BITSTRING	4	DSWARSD1	RESERVED FOR DEVELOPMENT
	Input/Output data fields (see $DSPSERV for an explanation of the fields).				
11	(B)	BITSTRING	1	DSWAKEY	KEY= KEYWORD
12	(C)	ADDRESS	4	DSWADSB	DSB= keyword
16	(10)	CHARACTER	8	DSWANAME	NAME= KEYWORD
24	(18)	CHARACTER	8	DSWACALL	NAME OF $DSPSERV CALLER
32	(20)	SIGNED	4	DSWABLCM	BLOCKS=(max,) keyword
36	(24)	SIGNED	4	DSWABLCI	BLOCKS=(,init) keyword
40	(28)	SIGNED	4	DSWASTRT	START= keyword
	DSPSERV ERROR/WARNING EQUATE VALUES.				
40	(28)	X'8'	0	DSWANOES	"8" NO ESTAE COULD BE ESTABLISHED
40	(28)	X'C'	0	DSWAEEST	"12" ESTAE ENTERED, NO DS CREATED
40	(28)	X'10'	0	DSWACERR	"16" CATASTROPHIC RECURSION ERROR
40	(28)	X'28'	0	DSWANCSA	"40" Unable to obtain ECSA storage for the DSB
40	(28)	X'2C'	0	DSWANOST	"44" Unable to obtain working storage (in private)
40	(28)	X'30'	0	DSWAINVF	"48" ISSUED WITH INVALID FUNCTION
40	(28)	X'34'	0	DSWAIBLK	"52" CREATE FUNCTION, INVALID BLOCKS
40	(28)	X'38'	0	DSWASRBF	"56" Error in SRB processing
40	(28)	X'3C'	0	DSWATTKF	"60" MVS TCBTOKEN failure
40	(28)	X'40'	0	DSWADSPF	"64" MVS DSPSERV FAILURE
40	(28)	X'44'	0	DSWAALEF	"68" MVS ALESERV FAILURE
40	(28)	X'4C'	0	DSWAIVER	"76" INVALID $DSWA VERSION NUMBER
40	(28)	X'C8'	0	DSWANGEN	"200" DATA SPACE NAME GENERATED
	END OF $DSWA DATA AREA.				
44	(2C)	BITSTRING	1	DSWAEND(0)	
44	(2C)	X'2C'	0	DSWASIZE	"DSWAEND-DSWA" SIZE OF $DSWA DATA AREA

Table 135. Cross Reference for $DSWA

Name	Offset	Hex Tag
DSWA	0	

Table 135. Cross Reference for $DSWA (continued)

Name	Offset	Hex Tag
DSWAALEF	28	44
DSWABLCI	24	
DSWABLCM	20	
DSWACALL	18	
DSWACERR	28	10
DSWADSB	C	
DSWADSPF	28	40
DSWAEEST	28	C
DSWAEND	2C	
DSWAIBLK	28	34
DSWAID	0	
DSWAIFL1	5	
DSWAIFL2	6	
DSWAINVF	28	30
DSWAIVER	28	4C
DSWAI1CR	5	80
DSWAI1DE	5	10
DSWAI1EX	5	40
DSWAI1RL	5	20
DSWAI2FN	6	40
DSWAI2FY	6	80
DSWAI2OA	6	8
DSWAI2OC	6	10
DSWAI2OM	6	20
DSWAI2SA	6	2
DSWAI2SC	6	1
DSWAI2SL	6	4
DSWAKEY	B	
DSWALEVL	4	3
DSWANAME	10	
DSWANCSA	28	28
DSWANGEN	28	C8
DSWANOES	28	8
DSWANOST	28	2C
DSWARSD1	7	
DSWASIZE	2C	2C
DSWASRBF	28	38
DSWASTRT	28	
DSWATTKF	28	3C
DSWAVERS	4	

Chapter 59. $DTE Information

$DTE Programming Interface Information

$DTE is a programming interface.

$DTE Heading Information

Common Name:	HASP Daughter Task Element
Macro ID:	$DTE
DSECT Name:	DTE
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'DTE ' Offset: DTEID-DTE Length: 4
Storage Attributes:	Subpool: 0 Key: 1 Residency: Virtual storage below the 16M line, and real storage above or below the 16M line, in the private storage of the JES2 address space.
Size:	The length of a DTE is the length of the base DTE (defined by the expression, DTEWORK-DTE) plus the length of a variable length work area beginning at symbol DTEWORK. The length of the work area depends on the type of DTE. These work areas and their lengths are defined in separate mapping macros and are extensions of the DTE DSECT. See the definitions for DTESTID in this macro ($DTE) for the names of the work area mapping macros. The total length of the DTE is stored in the field DTESIZE.
Created by:	The $DTEDYN service. Most DTEs are created during JES2 initialization processing, others are created when needed.
Pointed to by:	The TCBBDT field of the MVS TCB control block for the associated JES2 address space subtask. The DTENEXT and DTEPREV pointers in the DTEs' double-threaded chain anchored by the $DTEORG and $DTELAST fields in the $HCT control block. Each DTE type has associated with it a pointer in the HCT or UCT which points to the first DTE of that type in the DTENEXT chain.
Serialization:	Compare-and-swap logic may be required for certain fields if they are used by both the JES2 main task and the subtask represented by the DTE.

$DTE Heading Information

Function: The DTE is the central means of communication between JES2 main task and its subtasks. All JES2 subtasks are attached by the $DTEDYN service. When a subtask is attached, a DTE is built for it and placed on the DTENEXT and DTEPREV chains (chain heads $DTEORG and $DTELAST respectively). The DTE remains on these chains until the subtask is detached via the $DTEDYN routine. The DTEs are grouped by type (id) on the DTENEXT/DTEPREV chains. DTEs are always pushed onto the chain at the beginning (head) of their subtask type group within the chain. The HASP subtask type chain heads are located in the HCT. An installation may define their own subtask types and place the chain head either in the UCT or HCT. The DTE may contain a work area extension for certain subtask types. This extension begins at the DTEWORK field and is mapped by a mapping macro of the type $DTExxxx.

$DTE mapping

Table 136. Structure DTE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DTE	DAUGHTER TASK ELEMENT DSECT
0	(0)	CHARACTER	4	DTEID(0)	DTE CONTROL BLOCK IDENTIFIER
0	(0)	BITSTRING	1	(0)	$SAVE AREA (SEE PSV IN PCE)
168	(A8)	ADDRESS	4	DTELPSV	ADDR OF LAST/CURRENT SAVE AREA
172	(AC)	ADDRESS	1	DTELEVEL	DTE CONTROL BLOCK VERSION LEVEL
173	(AD)	BITSTRING	1	DTESTID	SUBTASK IDENTIFIER
174	(AE)	SIGNED	2	DTESIZE	SIZE OF DTE + WORK AREA EXT.
176	(B0)	BITSTRING	1	DTEFLAG1	DTE FLAG BYTE 1
		1...		DTE1ACTV	"B'10000000'" SUBTASK ACTIVE
		.1..		DTE1TERM	"B'01000000'" SUBTASK SHUTDOWN REQUESTED
		..1.		DTE1AUTO	"B'00100000'" AUTOMATICALLY STARTED BY IRMVS
		...1		DTE1STAE	"B'00010000'" SUBTASK DETACHED WITH STAE=YES
		.... 1...		DTE1SUB0	"B'00001000'" SUBTASK ATTACHED WITH SZERO=NO
		.... .1..		DTE1ECB	"B'00000100'" JES2 WAITING FOR SUBTASK POST
		.... ..1.		DTE1XECB	"B'00000010'" PCE $WAITING FOR SUBTASK POST
		1		DTE1PJ2	"B'00000001'" JES2 IS COMMING DOWN CLEAN ($HCCT WILL BE FREEMAINED)
177	(B1)	BITSTRING	1	DTEFLAG2	DTE FLAG BYTE 2
		1...		DTE2IERR	"B'10000000'" SUBTASK INITIALIZATION FAILED
		.1..		DTE2TRAC	"B'01000000'" TASK ELIGIBLE FOR TRACING
		..1.		DTE2CRTM	"B'00100000'" Subtask being cancelled by maintask via CALLRTM

Table 136. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		DTE2$CD	"B'00010000'" Subtask cancelled with dump
178	(B2)	BITSTRING	1	DTEFLAG3	DTE initialization opt flag
		1...		DTE3REQD	"B'10000000'" This subtask is essential, abnormal term will also terminate maintask ($Z03)
		.1..		DTE3RTYP	"B'01000000'" Terminate main task ($Z03) on abnormal term of last or only DTE of type
179	(B3)	BITSTRING	1	DTEERRCT	Subtask ABEND error count
180	(B4)	ADDRESS	4	DTENEXT	FORWARD CHAIN FIELD ($DTEORG)
184	(B8)	ADDRESS	4	DTEPREV	BACKWARD CHAIN FIELD ($DTELAST)
188	(BC)	ADDRESS	4	DTETCB	SUBTASK TCB ADDRESS
192	(C0)	BITSTRING	16	DTETTOKN	Subtask TCB token
208	(D0)	ADDRESS	4	DTEPCE	RELATED PCE ADDRESS OR ZERO, SET TO CURRENT PCE BY DTEDYN UNLESS INIT., MAY BE RESET
212	(D4)	ADDRESS	4	DTEHCT	ADDRESS OF HCT
		SUBTASK INITIALIZATION ECB'S MUST BE KEPT TOGETHER NOTE THAT THESE ECBS CAN BE USED DURING NORMAL JES2 PROCESSING ALSO.			
216	(D8)	SIGNED	4	DTEIECB	SUBTASK INITIALIZATION ECB
216	(D8)	BITSTRING	24	DTEIXECB	SUBTASK INITIALIZATION XECB
		SUBTASK WORK ECB'S MUST BE KEPT TOGETHER			
240	(F0)	SIGNED	4	DTEWECB	SUBTASK WORK ECB
240	(F0)	BITSTRING	24	DTEWXECB	SUBTASK WORK XECB
		SUBTASK TERMINATION ECB'S MUST BE KEPT TOGETHER			
264	(108)	SIGNED	4	DTETECB	SUBTASK TERMINATION ECB
264	(108)	BITSTRING	24	DTETXECB	SUBTASK TERMINATION XECB
		SUBTASK TERMINATION ECB LIST, MUST BE KEPT TOGETHER			
288	(120)	ADDRESS	4	DTEECBL1	JES2 TERMINATION ECBLIST
292	(124)	ADDRESS	4	DTEECBL2	AND STIMER EXIT ROUTINE ECB
296	(128)	SIGNED	4	DTEJECB	(ALL USED ONLY IN HASPTERM)
		END OF ECB AREAS THAT MUST BE KEPT TOGETHER			
300	(12C)	CHARACTER	8	DTENAME	SUBTASK EBCDIC NAME
308	(134)	ADDRESS	4	DTEVRXAD	SUBTASK RECOVERY VRA EXIT ADDR
312	(138)	ADDRESS	4	DTEESXAD	SUBTASK RCVY CLEAN UP EXIT ADDR
316	(13C)	ADDRESS	4	DTERTXAD	SUBTASK RCVY RETRY EXIT ADDR
		SUBTASK ESTAE RECOVERY WORK AREA.			
320	(140)	BITSTRING	1	DTEABFLG	SUBTASK RECOVERY ESTAE FLAG
		1...		DTEABEND	"B'10000000'" SUBTASK ABEND IN PROGRESS
		.1..		DTEABVRA	"B'01000000'" SUBTASK VRA EXIT ACTIVE
		..1.		DTEABESX	"B'00100000'" SUBTASK CLEAN UP EXIT ACTIVE
		...1		DTEABSTR	"B'00010000'" SUBTASK RETRY EXIT ACTIVE

Table 136. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		DTEABREC	"B'00001000'" SUBTASK RETRY RECURSION FLAG
		.... .1..		DTEABTRM	"B'00000100'" Subtask being terminated
321	(141)	BITSTRING	3		RESERVED FOR FUTURE USE
324	(144)	BITSTRING	492	DTEERA	SUBTASK ERA
816	(330)	BITSTRING	576	DTETRCA	SUBTASK TRCA
1392	(570)	SIGNED	4	DTESDECB	SUBTASK ESTAE SDUMP ECB
		Subtask Work area			
1400	(578)	DBL WORD	8	(0)	
1400	(578)	CHARACTER	108	DTEAWRKA	SUBTASK ESTAE WORK AREA
1400	(578)	X'4A4'	0	DTEASAVL	"*-DTEABFLG" LENGTH OF RECOVERY WORK AREA
		GENERAL PARAMETER LIST AREA AND RESERVED USER FIELDS			
1508	(5E4)	ADDRESS	4	DTEJQE	Related JQE address
1512	(5E8)	SIGNED	2	DTEASID	Associated address space
1514	(5EA)	SIGNED	2		Reserved for future use
1516	(5EC)	SIGNED	4	DTEPARML(2)	8 BYTE PARAMETER LIST
1516	(5EC)	X'5EC'	0	DTEPARM	"DTEPARML,4,C'A'" parm list @ from attach or
1516	(5EC)	X'5F0'	0	DTEPARM2	"DTEPARML+4,4,C'A'" 2 work parm for subtsk use
1524	(5F4)	SIGNED	4	DTEUSER1	RESERVED FOR USER
1528	(5F8)	SIGNED	4	DTEUSER2	RESERVED FOR USER
1532	(5FC)	SIGNED	4	DTEUSER3	RESERVED FOR USER
1536	(600)	SIGNED	4	DTEUSER4	RESERVED FOR USER
1540	(604)	SIGNED	4	DTEERRTM	Time of last error
1544	(608)	DBL WORD	8	DTEWORK(0)	VARIABLE LEN SUBTASK WORK AREA
1544	(608)	X'4'	0	DTEVERSN	"4" DTE Version level
1544	(608)	X'608'	0	DTELEN	"*-DTE" LENGTH OF DTE DSECT FOUNDATION
		DTESTID -- SUBTASK IDENTIFIER EQUATES (USER SUBTASK IDS SHOULD BEGIN AT 255 AND WORK DOWN TOWARDS THE JES2 SUBTASK IDS)			
1544	(608)	X'0'	0	DTEIDIMG	"0" HASPIMAG SUBTASK ID; work area mapped by $DTEIMAG
1544	(608)	X'1'	0	DTEIDALC	"1" HOSALLOC SUBTASK ID; work area mapped by $DTEALOC
1544	(608)	X'2'	0	DTEIDSPL	"2" HOSPOOL SUBTASK ID; work area mapped by $DTESPL
1544	(608)	X'3'	0	DTEIDSMF	"3" HASPACCT SUBTASK ID; work area mapped by $DTEACCT
1544	(608)	X'4'	0	DTEIDVTM	"4" HASPVTAM SUBTASK ID; work area mapped by $DTEVTAM
1544	(608)	X'5'	0	DTEIDWTO	"5" HASPWTO SUBTASK ID; work area mapped by $DTEWTO
1544	(608)	X'6'	0	DTEIDCNV	"6" HOSCNVT SUBTASK ID; work area mapped by $DTECNV
1544	(608)	X'7'	0	DTEIDOFF	"7" HASPOFF SUBTASK ID; work area mapped by $DTEOFF

Table 136. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1544	(608)	X'8'	0	DTEIDCVR	"8" HASPCKVR SUBTASK ID; work area mapped by $DTECKVR
1544	(608)	X'9'	0	DTEIDSUB	"9" HASPSUBS SUBTASK ID; work area mapped by $DTESUBS
1544	(608)	X'A'	0	DTEIDCCF	"10" HASPCKCF SUBTASK ID; work area mapped by $DTECKCF
1544	(608)	X'B'	0	DTEIDEOM	"11" HASPEOM SUBTASK ID; work area mapped by $DTEEOM
1544	(608)	X'C'	0	DTEIDMIG	"12" HASPSPOL migrator subtask ID; work area mapped by $DTEMIGR
1544	(608)	X'D'	0	DTEIDASS	"13" HASPSPOL migrator assist subtask ID; work area mapped by $DTEASST
1544	(608)	X'E'	0	DTEIDCDA	"14" HASPCKDA SUBTASK ID; work area mapped by $DTECKDA

Table 137. Cross Reference for $DTE

Name	Offset	Hex Tag
DTE	0	
DTEABEND	140	80
DTEABESX	140	20
DTEABFLG	140	
DTEABREC	140	8
DTEABSTR	140	10
DTEABTRM	140	4
DTEABVRA	140	40
DTEASAVL	578	4A4
DTEASID	5E8	
DTEAWRKA	578	
DTEECBL1	120	
DTEECBL2	124	
DTEERA	144	
DTEERRCT	B3	
DTEERRTM	604	
DTEESXAD	138	
DTEFLAG1	B0	
DTEFLAG2	B1	
DTEFLAG3	B2	
DTEHCT	D4	
DTEID	0	
DTEIDALC	608	1
DTEIDASS	608	D
DTEIDCCF	608	A
DTEIDCDA	608	E
DTEIDCNV	608	6
DTEIDCVR	608	8
DTEIDEOM	608	B
DTEIDIMG	608	0
DTEIDMIG	608	C

Table 137. Cross Reference for $DTE (continued)

Name	Offset	Hex Tag
DTEIDOFF	608	7
DTEIDSMF	608	3
DTEIDSPL	608	2
DTEIDSUB	608	9
DTEIDVTM	608	4
DTEIDWTO	608	5
DTEIECB	D8	
DTEIXECB	D8	
DTEJECB	128	
DTEJQE	5E4	
DTELEN	608	608
DTELEVEL	AC	
DTELPSV	A8	
DTENAME	12C	
DTENEXT	B4	
DTEPARM	5EC	5EC
DTEPARML	5EC	
DTEPARM2	5EC	5F0
DTEPCE	D0	
DTEPREV	B8	
DTERTXAD	13C	
DTESDECB	570	
DTESIZE	AE	
DTESTID	AD	
DTETCB	BC	
DTETECB	108	
DTETRCA	330	
DTETTOKN	C0	
DTETXECB	108	
DTEUSER1	5F4	
DTEUSER2	5F8	
DTEUSER3	5FC	
DTEUSER4	600	
DTEVERSN	608	4
DTEVRXAD	134	
DTEWECB	F0	
DTEWORK	608	
DTEWXECB	F0	
DTE1ACTV	B0	80
DTE1AUTO	B0	20
DTE1ECB	B0	4
DTE1PJ2	B0	1
DTE1STAE	B0	10
DTE1SUB0	B0	8
DTE1TERM	B0	40
DTE1XECB	B0	2
DTE2$CD	B1	10
DTE2CRTM	B1	20
DTE2IERR	B1	80

Table 137. Cross Reference for $DTE (continued)

Name	Offset	Hex Tag
DTE2TRAC	B1	40
DTE3REQD	B2	80
DTE3RTYP	B2	40

Chapter 60. $DTEACCT Information

$DTEACCT Programming Interface Information

$DTEACCT is a programming interface.

$DTEACCT Heading Information

Common Name:	HASPACCT subtask DTE work area extension
Macro ID:	$DTEACCT
DSECT Name:	DTE ($DTEACCT is part of the DTE DSECT)
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'DTE ' Offset: DTEID-DTE Length: 4
Storage Attributes:	Subpool: see $DTE Key: see $DTE Residency: see $DTE
Size:	See the DTELEN equate for the length of the base DTE, and the DSMFLEN equate for the length of the HASPACCT DTE extension.
Created by:	JES2 initialization (using $DTEDYN ATTACH service)
Pointed to by:	The $DTESMF field of the $HCT data area. See $DTE for other pointer fields that apply to all DTE types.
Serialization:	This area is used by the HASPACCT subtask. Other tasks cannot use it.
Function:	Describes the work area extension to the DTE for the HASPACCT subtask. The DTE is the general control block used by JES2 to communicate with its daughter tasks. The JMR buffer work area is used to pass the JES2 JMR record to SMFEXIT IEFUJP and the SMFEWTM service. The work area resides below the 16M line, while the JES2 SMF buffer may reside anywhere.

$DTEACCT mapping

Table 138. Structure DTE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DTE	HASPACCT DTE WORK AREA EXTENSION
1544	(608)	BITSTRING	920	DSMFJMR	JMR BUFFER WORK AREA
2464	(9A0)	SIGNED	4	DSMFWRK(5)	5 WORD WORKAREA FOR SMFEWTM
2484	(9B4)	BITSTRING	4		Reserved for future use
2484	(9B4)	X'3B0'	0	DSMFLEN	"*-DTEWORK" LENGTH OF WORK AREA

Chapter 61. $DTEALOC Information

$DTEALOC Heading Information

Common Name:	HASP Allocation Subtask DTE work area DSECT
Macro ID:	$DTEALOC
DSECT Name:	DTE ($DTEALOC is part of the DTE DSECT)
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'DTE ' Offset: DTEID-DTE Length: 4
Storage Attributes:	Subpool: see $DTE Key: see $DTE Residency: see $DTE
Size:	See the DTELEN equate for the length of the base DTE, and the DDALLEN equate for the length of an allocation subtask DTE extension.
Created by:	Created by $DTEDYN ATTACH during JES2 initialization. The subtask (and DTE) definitions are defined by the $DTETAB definitions.
Pointed to by:	The $DTEALOC field of the $HCT data area points into $DTEORG/$DTELAST chain to the HASP allocation subtask DTE. See $DTE for other pointer fields that apply to all DTE types.
Serialization:	Serialized by the JES2 main task. Only one request may be processed at one time.
Function:	The HASP Dynamic Allocation Subtask DTE work area, $DTEALOC, defines the $DTE work area extension for that subtask. The mapping defines the fields after label DTEWORK. The Dynamic Allocation Subtask DTE handles dynamic allocation (DYNALLOC) requests from the JES2 main task. The $ALLOC service, running under the JES2 main task, fills in the DYNALLOC parameter list, then waits for the subtask to become available. When it does, the main task stores the address of the parameter list in the field DTEPARM. The subtask is then awakened and it does the DYNALLOC.

$DTEALOC mapping

Table 139. Structure DTE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DTE	HOSALLOC DTE WORK AREA EXT.
1544	(608)	X'0'	0	DDALLEN	"*-DTEWORK" LENGTH OF WORK AREA

Chapter 62. $DTEASST Information

$DTEASST Heading Information

Common Name: HASP Spool Migrator Assist Work Area
Macro ID: $DTEASST
DSECT Name: DTE ($DTEASST is part of the DTE DSECT)
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'DTE '
Offset: DTEID-DTE
Length: 4
Storage Attributes: Subpool: See $DTE
Key: See $DTE
Residency: See $DTE

Size: See the DTELEN equate for the length of the base DTE, and ASTLLEN for the length of a Migrator Assist Allocation DTE extension.
Created by: Created by $DTEDYN ATTACH during JES2 initialization. The subtask (and DTE) definitions are defined by the $DTETAB definitions.
Pointed to by: The $DTEASST field of the $HCT data area points into $DTEORG/$DTELAST chain to the first HOSASST DTE. See $DTE for other pointer fields that apply to all DTE types.
Serialization: This work area is used serially by the HOSASST subtask. No special serialization is necessary.
Function: The Spool Assist DTE work area DSECT, $DTEASST, defines a work area used by the JES2 Migrator Assist subtask (HOSASST).
The mapping defines the fields after label DTEWORK. This mapping is only used to map DTEs with the value DTEIDAST in the field DTESTID, indicating this DTE is a Migrator Assist spool DTE.

$DTEASST mapping

Table 140. Structure DTE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DTE	Spool migration assistant Work area
1544	(608)	CHARACTER	1	ASTSTART(0)	Start of Assist mapping
1544	(608)	ADDRESS	4	ASTSTSPL	Address of ECB for subtask to post - informs SPOL PCE request is complete
		Migration request flag - only set by SPOL and INIT PCEs. The SPOL PCE waits for ACK of request as does the INIT PCE with one exception below -- ASTRCVMG.			
1548	(60C)	BITSTRING	1	AST1REQU	SPOL PCE and INIT PCE request flags

Table 140. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		....		AST1NORE	"X'00'" No active request
		.... .1..		ASTCREA	"X'04'" Create migration table and MIGR$ASST mailbox
		.... 1...		ASTINIT	"X'08'" Given source DAS - init the corresponding migration table entry. Entry found via DASEXTNO. See ASTSRDAS below.
		.... 11..		ASTDLENT	"X'0C'" Given DAS -- delete migr table entry. Delete track level bitmap. See ASTSRDAS below.
		...1		ASTDLALL	"X'10'" Delete all migration table entries and associated track level bitmaps.
		...1 .1..		ASTRCVMG	"X'14'" Assistant subtask has permission to receive and process incoming messages.
		The following information must be supplied by SPOL post for specific requests: AST1REQU = ASTCREA (Create migration table and MIGR$ASST mailbox. -- ASTCRECV - Create called under direction of migration assistant recovery. AST1REQU = ASTINENT (Init migration table entry) -- ASTALLOC - Indication if MAS member is allocated to SRC dataset. -- ASTRECOV - Init has been directed to perform migration assistant recovery. MIGR$ASST will be created but not cleared. If not ASTRECOV -- MIGR$ASST is cleared upon creation to clean up any stale messages. -- ASTVOLID - Volume ID -- ASTSRDAS - Source DAS -- ASTTRACS - Track bitmap must support this many tracks. -- ASTENQTK - ISGENQ token -- ASTUCBPT - UCB pointer for volume AST1REQU = ASTDLENT (Delete migr table entry) -- ASTSRDAS - source DAS Creation information			
1549	(60D)	BITSTRING	1	ASTCRTIN	General creation info
		1...		ASCRRECV	"B'10000000'" Creation called under recovery - do not clear MIGR$ASST
		Initialization and general information			
1550	(60E)	BITSTRING	1	ASTSRCST	General init info
		1...		ASTALLOC	"B'10000000'" Member has dataset allocted.
		.1..		ASTRCMSG	"B'01000000'" Assistant subtask has permission to receive incoming messages
1552	(610)	ADDRESS	4	ASTRECOB	Recovery object address
1556	(614)	BITSTRING	32	ASTENQTK	ISGENQ token
1588	(634)	CHARACTER	6	ASTVOLID	Volume ID
1596	(63C)	SIGNED	4	(0)	Alignment
1596	(63C)	ADDRESS	4	ASTUCBPT	UCB address

Table 140. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1600	(640)	ADDRESS	4	ASTSRDAS	Source DAS address
1604	(644)	SIGNED	4	ASTTRACS	Number of tracks for which track level bitmap must support.
1608	(648)	SIGNED	4	ASTTGBYT	Number of TGM bytes in source at migration start
1612	(64C)	BITSTRING	1	ASTSREXT	Source DAS extent number
		Following two fields only set when init with -- assistant recovery -- ASTRECOV above.			
1616	(650)	SIGNED	4	ASMTGSTT	CSA.DASTARTS value
1620	(654)	SIGNED	4	ASMSBTAS	Relative TTTT where TLBM starts on target DS
		Error flag corresponding to SPOL PCE request.			
1624	(658)	BITSTRING	1	AS1ERFL1	Subtask error flag 1 - set by subtask for SPOL PCE information/action.
		1...		AS1ERABN	"B'10000000'" Sub-task ABENDED
		.1..		AS1MAILE	"B'01000000'" MIGR$ASST mailbox could not be created.
		..1.		AS1TBERR	"B'00100000'" Migration table could not be created.
		...1		AS1BMERR	"B'00010000'" Given a migration - track level bitmap could not be created.
		.... 1...		ASATTACH	"B'00001000'" JESXCF group attach failed
		HOSPASST subtask waits on a ECBLIST. During a migration, this subtask exists on every member in MAS. There is one and only one spool assistant subtask per member. This subtask can handle multiple migrations. The ECBlist is as follows:			
1628	(65C)	SIGNED	4	ASECBLST(0)	List of ECBs to wait on
1628	(65C)	ADDRESS	4	ASWORKP	Address of work ECB for assistant subtask. Handles posts from SPOL PCE.
1632	(660)	ADDRESS	4	ASTMBOXP	Address of ECB for JESXCF mail box notification. This ECB receives requests from migration subtask(s). Mailbox name - migr$asst
1636	(664)	SIGNED	4	ASTMBOX	Mail box ECB
1640	(668)	DBL WORD	8	ASTWRKA	Work area for migrator
		Migration assistant mailbox information -- One MIGR$ASST per MAS member.			
1648	(670)	ADDRESS	4	ASMXBUFA	Address of message received
1652	(674)	SIGNED	4	ASMXBUFL	Message length
1656	(678)	ADDRESS	4	ASMSENDA	Address of send buffer

Table 140. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		START OF ASMMIGIO Copy of runtime I/O directives. ASMMIGIO must match DASMIGIO in CSA DAS. The following is used to atomically update DASMIGIO during migration phase transitions. WARNING!!! DASMIGIO and ASMMIGIO definitions MUST stay in sync.			
1660	(67C)	SIGNED	4	ASMMIGIO(0)	Runtime I/O directives. Area size is denoted by by ASMMIGSZ. This is used to atomically update DASMIGIO during migration phase.
1660	(67C)	BITSTRING	1	ASMFLAG9	Flag 9
		1...		ASM9NMIG	"B'10000000'" Before performing I/O -- runtime must interrogate member track level bitmap. Given a track, if relative bit is on -- then runtime must send an "I/O @Z13LMIG permission request" to @Z13LMIG migrator mailbox RN$<VOLSER>. VOLSER is source DAS - DASVOLID.
		.1..		ASM9MAPD	"B'01000000'" Source DAS is mapped to target and DASMPVAL must used to calculate corresponding track in target.
1661	(67D)	ADDRESS	1	ASMMIGT	Migration transition count informs in-flight I/O of important migration transitions. Captured at start of I/O and compared at I/O end. If count differs the I/O must be e-done. Always captured.
1662	(67E)	BITSTRING	2	ASMMIGR	Reserved
1662	(67E)	X'4'	0	ASMMIGSZ	"*-ASMMIGIO" Length of area which must be atomically updated.
		END OF ASMMIGIO Too make message processing easier - certain data is extracted from messages and put into work variables.			
1664	(680)	ADDRESS	4	ASMXREQA	Address of XREQ received
1668	(684)	CHARACTER	16	ASMMKBOX	Mailbox name
1684	(694)	CHARACTER	16	ASMMEMNM	JESXCF member name
1700	(6A4)	BITSTRING	8	ASMXTOKN	Current XCF message token
1708	(6AC)	CHARACTER	6	ASMVOLID	VOLSER extracted from MSG received
1714	(6B2)	BITSTRING	1	ASMEXTNO	DASEXTNO extracted from MSG received
1715	(6B3)	ADDRESS	1	ASMINFO	XREQINFO extracted from MSG
		End of work variables			
1716	(6B4)	BITSTRING	1	ASMAILST	Mailbox status

Table 140. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		ASAS_CRT	"B'10000000'" MIGR$ASST has been created
1717	(6B5)	CHARACTER	16	ASMIGRAS	
		Migration assistant - spool migration table info: -- One per migration assistant.			
1736	(6C8)	ADDRESS	4	ASTTABLE	Address of spool migration table. 253 entries in table. Each table entry may represent a source migrating volume. From a DAS - addressable by DASEXTNO. See $ASSTTAB for table contents.
1740	(6CC)	SIGNED	4	(10)	Reserved for future use
		List form macros for JESXCF services			
1784	(6F8)	DBL WORD	8	(0)	Alignment
1784	(6F8)	BITSTRING	160	ASTIXLST	JESXCF list form macros
1944	(798)	DBL WORD	8	ASTIXEND(0)	End of list form area
------- IXZXIXAC MF=(L,ASTXIXAC) Acknowledge message MACDATE -11/12/03-<1>					
0	(0)	X'6F8'	0	M00M1131	"ASTXIXAC" ++ IXZXIXAC NAME
1784	(6F8)	DBL WORD	8	ASTXIXAC(0)	++ IXZXIXAC PARM LIST
1784	(6F8)	BITSTRING	1	ASTXIXAC_XVERSION	++ INPUT XVERSION
1785	(6F9)	CHARACTER	6	ASTXIXAC_XEYECATCH	++ CONSTANT XEYECATCH
1791	(6FF)	BITSTRING	1	ASTXIXAC_XSTB	++ INPUT
		1...		ASTXIXAC_XSTB_NO	"B'10000000'" ++ XSTB.NO KEYWORD
		.1..		ASTXIXAC_XSTB_YES	"B'01000000'" ++ XSTB.YES KEYWORD
1792	(700)	BITSTRING	8	ASTXIXAC_XMSGTOKEN	++ XMSGTOKEN
1800	(708)	ADDRESS	4	ASTXIXAC_XDATA	++ XDATA
1804	(70C)	SIGNED	4	ASTXIXAC_XDATALEN	++ XDATALEN
1808	(710)	SIGNED	4	ASTXIXAC_XUSERRC	++ XUSERRC
1812	(714)	SIGNED	4	ASTXIXAC_XGROUPTOKEN	++ XGROUPTOKEN
1816	(718)	SIGNED	4	ASTXIXAC_XSYSRC	++ XSYSRC
1820	(71C)	SIGNED	4	ASTXIXAC_XSYSRSN	++ XSYSRSN
1824	(720)	BITSTRING	1	ASTXIXAC_XKEYS	++ FIELD_LABEL
		1...		ASTXIXAC_KEYUSED_DATA	"B'10000000'" ++ KEYUSED.DATA KEYWORD
		.1..		ASTXIXAC_KEYUSED_DATALEN	"B'01000000'" ++ KEYUSED.DATALEN KEYWORD
		..1.		ASTXIXAC_KEYUSED_USERRC	"B'00100000'" ++ KEYUSED.USERRC KEYWORD
		...1		ASTXIXAC_KEYUSED_SYSRC	"B'00010000'" ++ KEYUSED.SYSRC KEYWORD
		.... 1...		ASTXIXAC_KEYUSED_SYSRSN	"B'00001000'" ++ KEYUSED.SYSRSN KEYWORD
1825	(721)	BITSTRING	1	ASTXIXAC_XMSGATTR	++ INPUT
		1...		ASTXIXAC_XMSGATTR_J3CONNECT	"B'10000000'" ++ XMSGATTR.J3CONNECT KEYWORD
		.1..		ASTXIXAC_XMSGATTR_EXPRESS	"B'01000000'" ++ XMSGATTR.EXPRESS KEYWORD
1825	(721)	X'2A'	0	ASTXIXACL	"*-ASTXIXAC" ++ LENGTH OF PLIST

Table 140. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
				IXZXIXAC-1	
1826	(722)	ADDRESS	2	(0)	Ensure area fits
------- IXZXIXMC MF=(L,ASTXIXMC) Clear mailbox MACDATE -93/05/10-<1>					
1784	(6F8)	SIGNED	2	M00M1133(0)	IXZXIXMC-1
1784	(6F8)	DBL WORD	8	ASTXIXMC(0)	++ IXZXIXMC PARM LIST
1784	(6F8)	BITSTRING	1	ASTXIXMC_XVERSION	++ INPUT XVERSION
1785	(6F9)	CHARACTER	6	ASTXIXMC_XEYECATCH	++ CONSTANT XEYECATCH
1791	(6FF)	BITSTRING	1	ASTXIXMC_XSTB	++ INPUT
		1...		ASTXIXMC_XSTB_NO	"B'10000000'" ++ XSTB.NO KEYWORD
		.1..		ASTXIXMC_XSTB_YES	"B'01000000'" ++ XSTB.YES KEYWORD
1792	(700)	CHARACTER	16	ASTXIXMC_XMBOXNAME	++ XMBOXNAME
1808	(710)	SIGNED	4	ASTXIXMC_XGROUPTOKEN	++ XGROUPTOKEN
1808	(710)	X'1C'	0	ASTXIXMCL	"*-ASTXIXMC" ++ LENGTH OF PLIST
				IXZXIXMC-1	
1812	(714)	ADDRESS	2	(0)	Ensure area fits
------- IXZXIXAT MF=(L,ASTXIXAT) Attach group MACDATE -00/01/11-<6>					
0	(0)	X'6F8'	0	M00M1134	"ASTXIXAT" ++ IXZXIXAT NAME
1784	(6F8)	DBL WORD	8	ASTXIXAT(0)	++ IXZXIXAT PARM LIST
1784	(6F8)	BITSTRING	1	ASTXIXAT_XVERSION	++ INPUT XVERSION
1785	(6F9)	CHARACTER	6	ASTXIXAT_XEYECATCH	++ CONSTANT
1791	(6FF)	CHARACTER	1	ASTXIXAT_XRSV0001	++ RESERVED
1792	(700)	CHARACTER	8	ASTXIXAT_XGROUP	++
1800	(708)	CHARACTER	16	ASTXIXAT_XMEMBER	++
1816	(718)	CHARACTER	8	ASTXIXAT_XRELEASE	++
1824	(720)	SIGNED	4	ASTXIXAT_XMAINTLVL	++ CONSTANT
1828	(724)	SIGNED	4	ASTXIXAT_XGROUPTOKEN	++
1832	(728)	BITSTRING	1	ASTXIXAT_XFLAG1	++ FIELD_LABEL
		1...		ASTXIXAT_XWHICHJES_JES2	"B'10000000'" ++ XWHICHJES.JES2 KEYWORD
		.1..		ASTXIXAT_XWHICHJES_JES3	"B'01000000'" ++ XWHICHJES.JES3 KEYWORD
		..1.		ASTXIXAT_XWHICHJES_J3FSS	"B'00100000'" ++ XWHICHJES.J3FSS KEYWORD
		...1		ASTXIXAT_XWHICHJES_INIT	"B'00010000'" ++ XWHICHJES.INIT KEYWORD
		.... 1...		ASTXIXAT_XWHICHJES_COMMON	"B'00001000'" ++ XWHICHJES.COMMON KEYWORD
		.... .1..		ASTXIXAT_XWHICHJES_J3CIFSS	"B'00000100'" ++ XWHICHJES.J3CIFSS KEYWORD
		.... ..1.		ASTXIXAT_XWHICHJES_J2SPOOL	"B'00000010'" ++ XWHICHJES.J2SPOOL KEYWORD
1833	(729)	BITSTRING	1	ASTXIXAT_XFLAG2	++ FIELD_LABEL
		1...		ASTXIXAT_XJ3CONNECT_NO	"B'10000000'" ++ XJ3CONNECT.NO KEYWORD
		.1..		ASTXIXAT_XJ3CONNECT_YES	"B'01000000'" ++ XJ3CONNECT.YES KEYWORD
1834	(72A)	CHARACTER	2	ASTXIXAT_XRSV0002	++ RESERVED

Table 140. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1836	(72C)	SIGNED	4	ASTXIXAT_XDIAG	++
1840	(730)	CHARACTER	8	ASTXIXAT_XLINKPARMS	++ FIELD_LABEL
1840	(730)	X'40'	0	ASTXIXATL	"*-ASTXIXAT" ++ LENGTH OF PLIST
				IXZXIXAT-6	
1848	(738)	ADDRESS	2	(0)	Ensure area fits
------- IXZXIXMB MF=(L,ASTXIXMB) Create mailbox MACDATE -93/05/10-<1>					
1784	(6F8)	SIGNED	2	M00M1135(0)	IXZXIXMB-1
1784	(6F8)	DBL WORD	8	ASTXIXMB(0)	++ IXZXIXMB PARM LIST
1784	(6F8)	BITSTRING	1	ASTXIXMB_XVERSION	++ INPUT XVERSION
1785	(6F9)	CHARACTER	6	ASTXIXMB_XEYECATCH	++ CONSTANT XEYECATCH
1791	(6FF)	CHARACTER	1	ASTXIXMB_XRSV0001	++ RESERVED XRSV0001
1792	(700)	CHARACTER	16	ASTXIXMB_XMBOXNAME	++ XMBOXNAME
1808	(710)	ADDRESS	4	ASTXIXMB_XPOSTXIT	++ XPOSTXIT
1812	(714)	ADDRESS	4	ASTXIXMB_XPOSTDATA	++ XPOSTDATA
1816	(718)	SIGNED	4	ASTXIXMB_XPOSTALET	++ XPOSTALET
1820	(71C)	SIGNED	4	ASTXIXMB_XGROUPTOKEN	++ XGROUPTOKEN
1824	(720)	BITSTRING	1	ASTXIXMB_XSYSEVENTS	++ FIELD_LABEL
		1...		ASTXIXMB_XSYSEVENT_YES	"B'10000000'" ++ XSYSEVENT.YES KEYWORD
		.1..		ASTXIXMB_XSYSEVENT_NO	"B'01000000'" ++ XSYSEVENT.NO KEYWORD
1824	(720)	X'29'	0	ASTXIXMBL	"*-ASTXIXMB" ++ LENGTH OF PLIST
				IXZXIXMB-1	
1826	(722)	ADDRESS	2	(0)	Ensure area fits
------- IXZXIXMD MF=(L,ASTXIXMD) Delete mailbox MACDATE -93/05/10-<1>					
1784	(6F8)	SIGNED	2	M00M1136(0)	IXZXIXMD-1
1784	(6F8)	DBL WORD	8	ASTXIXMD(0)	++ IXZXIXMD PARM LIST
1784	(6F8)	BITSTRING	1	ASTXIXMD_XVERSION	++ INPUT XVERSION
1785	(6F9)	CHARACTER	6	ASTXIXMD_XEYECATCH	++ CONSTANT XEYECATCH
1791	(6FF)	BITSTRING	1	ASTXIXMD_XSTB	++ INPUT
		1...		ASTXIXMD_XSTB_NO	"B'10000000'" ++ XSTB.NO KEYWORD
		.1..		ASTXIXMD_XSTB_YES	"B'01000000'" ++ XSTB.YES KEYWORD
1792	(700)	CHARACTER	16	ASTXIXMD_XMBOXNAME	++ XMBOXNAME
1808	(710)	SIGNED	4	ASTXIXMD_XGROUPTOKEN	++ XGROUPTOKEN
1808	(710)	X'1C'	0	ASTXIXMDL	"*-ASTXIXMD" ++ LENGTH OF PLIST
				IXZXIXMD-1	
1812	(714)	ADDRESS	2	(0)	Ensure area fits
------- IXZXIXDT MF=(L,ASTXIXDT) Detach group MACDATE -00/02/02-<1>					
0	(0)	X'6F8'	0	M00M1137	"ASTXIXDT" ++ IXZXIXDT NAME
1784	(6F8)	DBL WORD	8	ASTXIXDT(0)	++ IXZXIXDT PARM LIST
1784	(6F8)	BITSTRING	1	ASTXIXDT_XVERSION	++ INPUT XVERSION
1785	(6F9)	CHARACTER	6	ASTXIXDT_XEYECATCH	++ CONSTANT XEYECATCH
1791	(6FF)	CHARACTER	1	ASTXIXDT_XRSV0001	++ RESERVED XRSV0001
1792	(700)	ADDRESS	4	ASTXIXDT_XGROUPTOKEN	++ XGROUPTOKEN

Table 140. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1796	(704)	CHARACTER	8	ASTXIXDT_XLINKPARMS	++ FIELD_LABEL XLINKPARMS
1796	(704)	X'14'	0	ASTXIXDTL IXZXIXDT-1	"*-ASTXIXDT" ++ LENGTH OF PLIST
1804	(70C)	ADDRESS	2	(0)	Ensure area fits
------- IXZXIXSM MF=(L,ASTXIXSM) Send message MACDATE -10/16/01-<2>					
0	(0)	X'6F8'	0	M00M1138	"ASTXIXSM" ++ IXZXIXSM NAME
1784	(6F8)	DBL WORD	8	ASTXIXSM(0)	++ IXZXIXSM PARM LIST
1784	(6F8)	BITSTRING	1	ASTXIXSM_XVERSION	++ INPUT XVERSION
1785	(6F9)	CHARACTER	6	ASTXIXSM_XEYECATCH	++ CONSTANT XEYECATCH
1791	(6FF)	BITSTRING	1	ASTXIXSM_XMSGATTR	++ INPUT
		1...		ASTXIXSM_XMSGATTR_J3CONNECT	"B'10000000'" ++ XMSGATTR.J3CONNECT KEYWORD
		.1..		ASTXIXSM_XMSGATTR_EXPRESS	"B'01000000'" ++ XMSGATTR.EXPRESS KEYWORD
1792	(700)	CHARACTER	16	ASTXIXSM_XMBOXNAME	++ XMBOXNAME
1808	(710)	CHARACTER	16	ASTXIXSM_XMEMBER	++ XMEMBER
1824	(720)	ADDRESS	4	ASTXIXSM_XDATA	++ XDATA
1828	(724)	SIGNED	4	ASTXIXSM_XDATALEN	++ XDATALEN
1832	(728)	BITSTRING	8	ASTXIXSM_XREQTOKEN	++ XREQTOKEN
1840	(730)	CHARACTER	16	ASTXIXSM_XREQMBOX	++ XREQMBOX
1856	(740)	SIGNED	4	ASTXIXSM_XDATAALET	++ XDATAALET
1860	(744)	SIGNED	4	ASTXIXSM_XRESPDALT	++ XRESPDALT
1864	(748)	SIGNED	4	ASTXIXSM_XECB	++ XECB
1868	(74C)	SIGNED	4	ASTXIXSM_XEXIT	++ XEXIT
1872	(750)	BITSTRING	8	ASTXIXSM_XCONNECT	++ XCONNECT
1880	(758)	SIGNED	4	ASTXIXSM_XGROUPTOKEN	++ XGROUPTOKEN
1884	(75C)	SIGNED	4	ASTXIXSM_XUSERRC	++ XUSERRC
1888	(760)	SIGNED	4	ASTXIXSM_XRESPDATA	++ XRESPDATA
1892	(764)	SIGNED	4	ASTXIXSM_XRESPDLEN	++ XRESPDLEN
1896	(768)	CHARACTER	4	ASTXIXSM_XRSV00001	++ RESERVED XRSV00001
1900	(76C)	BITSTRING	8	ASTXIXSM_XMSGTOKEN	++ XMSGTOKEN
1908	(774)	SIGNED	4	ASTXIXSM_XRIPSIZE	++ XRIPSIZE
1912	(778)	BITSTRING	1	ASTXIXSM_XREQTYPE	++ INPUT
		1...		ASTXIXSM_XREQTYPE_ASYNC	"B'10000000'" ++ XREQTYPE.ASYNC KEYWORD
		.1..		ASTXIXSM_XREQTYPE_SYNC	"B'01000000'" ++ XREQTYPE.SYNC KEYWORD
		..1.		ASTXIXSM_XREQTYPE_ASYNCACK	"B'00100000'" ++ XREQTYPE.ASYNCACK KEYWORD
		...1		ASTXIXSM_XREQTYPE_COMM	"B'00010000'" ++ XREQTYPE.COMM KEYWORD
1913	(779)	BITSTRING	1	ASTXIXSM_XSEGTYPE	++ INPUT
		1...		ASTXIXSM_XSEGTYPE_SINGLE	"B'10000000'" ++ XSEGTYPE.SINGLE KEYWORD
		.1..		ASTXIXSM_XSEGTYPE_FIRST	"B'01000000'" ++ XSEGTYPE.FIRST KEYWORD
		..1.		ASTXIXSM_XSEGTYPE_MIDDLE	"B'00100000'" ++ XSEGTYPE.MIDDLE KEYWORD

Table 140. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		ASTXIXSM_XSEGTYPE_LAST	"B'00010000'" ++ XSEGTYPE.LAST KEYWORD
		.... 1...		ASTXIXSM_XSEGTYPE_ABORT	"B'00001000'" ++ XSEGTYPE.ABORT KEYWORD
1914	(77A)	BITSTRING	1	ASTXIXSM_XKEYS	++ FIELD_LABEL
		1...		ASTXIXSM_KEYUSED_REQTYPE	"B'10000000'" ++ KEYUSED.REQTYPE KEYWORD
		.1..		ASTXIXSM_KEYUSED_REQTOKEN	"B'01000000'" ++ KEYUSED.REQTOKEN KEYWORD
		..1.		ASTXIXSM_KEYUSED_REQMBOX	"B'00100000'" ++ KEYUSED.REQMBOX KEYWORD
		...1		ASTXIXSM_KEYUSED_EXIT	"B'00010000'" ++ KEYUSED.EXIT KEYWORD
		.... 1...		ASTXIXSM_KEYUSED_SEGTYPE	"B'00001000'" ++ KEYUSED.SEGTYPE KEYWORD
		.... .1..		ASTXIXSM_KEYUSED_CONNECT	"B'00000100'" ++ KEYUSED.CONNECT KEYWORD
		.... ..1.		ASTXIXSM_KEYUSED_MSGTOKEN	"B'00000010'" ++ KEYUSED.MSGTOKEN KEYWORD
		1		ASTXIXSM_KEYUSED_MSGATTR	"B'00000001'" ++ KEYUSED.MSGATTR KEYWORD
1915	(77B)	BITSTRING	1	ASTXIXSM_XKEYS1	++ FIELD_LABEL
		1...		ASTXIXSM_KEYUSED_ECB	"B'10000000'" ++ KEYUSED.ECB KEYWORD
		.1..		ASTXIXSM_KEYUSED_DATAALET	"B'01000000'" ++ KEYUSED.DATAALET KEYWORD
		..1.		ASTXIXSM_KEYUSED_RELEASE_CADS	"B'00100000'" ++ KEYUSED.RELEASE_CADS KEYWORD
		...1		ASTXIXSM_KEYUSED_RIPSIZE	"B'00010000'" ++ KEYUSED.RIPSIZE KEYWORD
1915	(77B)	X'84'	0	ASTXIXSML	"*-ASTXIXSM" ++ LENGTH OF PLIST
				IXZXIXSM-2	
1916	(77C)	ADDRESS	2	(0)	Ensure area fits
------- IXZXIXRM MF=(L,ASTXIXRM) Receive message MACDATE -93/05/10-<1>					
1784	(6F8)	SIGNED	2	M00M1139(0)	IXZXIXRM-1
1784	(6F8)	DBL WORD	8	ASTXIXRM(0)	++ IXZXIXRM PARM LIST
1784	(6F8)	BITSTRING	1	ASTXIXRM_XVERSION	++ INPUT XVERSION
1785	(6F9)	CHARACTER	6	ASTXIXRM_XEYECATCH	++ CONSTANT XEYECATCH
1791	(6FF)	CHARACTER	1	ASTXIXRM_XRSV0001	++ RESERVED XRSV0001
1792	(700)	CHARACTER	16	ASTXIXRM_XMBOXNAME	++ XMBOXNAME
1808	(710)	ADDRESS	4	ASTXIXRM_XDATA	++ XDATA
1812	(714)	SIGNED	4	ASTXIXRM_XDATALEN	++ XDATALEN
1816	(718)	BITSTRING	8	ASTXIXRM_XMSGTOKEN	++ XMSGTOKEN
1824	(720)	SIGNED	4	ASTXIXRM_XGROUPTOKEN	++ XGROUPTOKEN
1828	(724)	BITSTRING	1	ASTXIXRM_XMSGFETCH	++ INPUT
		1...		ASTXIXRM_XMSGFETCH_ALL	"B'10000000'" ++ XMSGFETCH.ALL KEYWORD
		.1..		ASTXIXRM_XMSGFETCH_MESSAGES	"B'01000000'" ++ XMSGFETCH.MESSAGES KEYWORD

Table 140. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		ASTXIXRM_XMSGFETCH_SYSEVENT	"B'00100000'" ++ XMSGFETCH.SYSEVENT KEYWORD
		...1		ASTXIXRM_XMSGFETCH_ACKS	"B'00010000'" ++ XMSGFETCH.ACKS KEYWORD
1829	(725)	BITSTRING	1	ASTXIXRM_XKEYS	++ FIELD_LABEL
		1...		ASTXIXRM_KEYUSED_MSGFETCH	"B'10000000'" ++ KEYUSED.MSGFETCH KEYWORD
1829	(725)	X'2E'	0	ASTXIXRML	"*-ASTXIXRM" ++ LENGTH OF PLIST
				IXZXIXRM-1	
1830	(726)	ADDRESS	2	(0)	Ensure area fits
1944	(798)	X'608'	0	ASTCLEAR	"ASTSTART" Area to be zeroed
1944	(798)	X'190'	0	ASTLLEN	"*-DTEWORK" Length of work area

Table 141. Cross Reference for $DTEASST

Name	Offset	Hex Tag
ASAS_CRT	6B4	80
ASATTACH	658	8
ASCRRECV	60D	80
ASECBLST	65C	
ASMAILST	6B4	
ASMEXTNO	6B2	
ASMFLAG9	67C	
ASMIGRAS	6B5	E2E8E2D1
ASMINFO	6B3	
ASMMEMNM	694	
ASMMIGIO	67C	
ASMMIGR	67E	0
ASMMIGSZ	67E	4
ASMMIGT	67D	
ASMMKBOX	684	
ASMSBTAS	654	
ASMSENDA	678	
ASMTGSTT	650	
ASMVOLID	6AC	
ASMXBUFA	670	
ASMXBUFL	674	
ASMXREQA	680	
ASMXTOKN	6A4	
ASM9MAPD	67C	40
ASM9NMIG	67C	80
ASTALLOC	60E	80
ASTCLEAR	798	608
ASTCREA	60C	4
ASTCRTIN	60D	
ASTDLALL	60C	10
ASTDLENT	60C	C
ASTENQTK	614	

Table 141. Cross Reference for $DTEASST (continued)

Name	Offset	Hex Tag
ASTINIT	60C	8
ASTIXEND	798	
ASTIXLST	6F8	
ASTLLEN	798	190
ASTMBOX	664	
ASTMBOXP	660	
ASTRCMSG	60E	40
ASTRCVMG	60C	14
ASTRECOB	610	
ASTSRCST	60E	
ASTSRDAS	640	
ASTSREXT	64C	
ASTSTART	608	
ASTSTSPL	608	
ASTTABLE	6C8	
ASTTGBYT	648	
ASTTRACS	644	
ASTUCBPT	63C	
ASTVOLID	634	40404040
ASTWRKA	668	0
ASTXIXAC	6F8	
ASTXIXAC_KEYUSED_DATA	720	80
ASTXIXAC_KEYUSED_DATALEN	720	40
ASTXIXAC_KEYUSED_SYSRC	720	10
ASTXIXAC_KEYUSED_SYSRSN	720	8
ASTXIXAC_KEYUSED_USERRC	720	20
ASTXIXAC_XDATA	708	
ASTXIXAC_XDATALEN	70C	
ASTXIXAC_XEYECATCH	6F9	
ASTXIXAC_XGROUPTOKEN	714	
ASTXIXAC_XKEYS	720	
ASTXIXAC_XMSGATTR	721	
ASTXIXAC_XMSGATTR_EXPRESS	721	40
ASTXIXAC_XMSGATTR_J3CONNECT	721	80
ASTXIXAC_XMSGTOKEN	700	
ASTXIXAC_XSTB	6FF	
ASTXIXAC_XSTB_NO	6FF	80
ASTXIXAC_XSTB_YES	6FF	40
ASTXIXAC_XSYSRC	718	
ASTXIXAC_XSYSRSN	71C	
ASTXIXAC_XUSERRC	710	
ASTXIXAC_XVERSION	6F8	
ASTXIXACL	721	2A
ASTXIXAT	6F8	
ASTXIXAT_XDIAG	72C	
ASTXIXAT_XEYECATCH	6F9	
ASTXIXAT_XFLAG1	728	
ASTXIXAT_XFLAG2	729	
ASTXIXAT_XGROUP	700	

Table 141. Cross Reference for $DTEASST (continued)

Name	Offset	Hex Tag
ASTXIXAT_XGROUPTOKEN	724	
ASTXIXAT_XJ3CONNECT_NO	729	80
ASTXIXAT_XJ3CONNECT_YES	729	40
ASTXIXAT_XLINKPARMS	730	
ASTXIXAT_XMAINTLVL	720	
ASTXIXAT_XMEMBER	708	
ASTXIXAT_XRELEASE	718	
ASTXIXAT_XRSV0001	6FF	
ASTXIXAT_XRSV0002	72A	
ASTXIXAT_XVERSION	6F8	
ASTXIXAT_XWHICHJES_COMMON	728	8
ASTXIXAT_XWHICHJES_INIT	728	10
ASTXIXAT_XWHICHJES_JES2	728	80
ASTXIXAT_XWHICHJES_JES3	728	40
ASTXIXAT_XWHICHJES_J2SPOOL	728	2
ASTXIXAT_XWHICHJES_J3CIFSS	728	4
ASTXIXAT_XWHICHJES_J3FSS	728	20
ASTXIXATL	730	40
ASTXIXDT	6F8	
ASTXIXDT_XEYECATCH	6F9	
ASTXIXDT_XGROUPTOKEN	700	
ASTXIXDT_XLINKPARMS	704	
ASTXIXDT_XRSV0001	6FF	
ASTXIXDT_XVERSION	6F8	
ASTXIXDTL	704	14
ASTXIXMB	6F8	
ASTXIXMB_XEYECATCH	6F9	
ASTXIXMB_XGROUPTOKEN	71C	
ASTXIXMB_XMBOXNAME	700	
ASTXIXMB_XPOSTALET	718	
ASTXIXMB_XPOSTDATA	714	
ASTXIXMB_XPOSTXIT	710	
ASTXIXMB_XRSV0001	6FF	
ASTXIXMB_XSYSEVENT_NO	720	40
ASTXIXMB_XSYSEVENT_YES	720	80
ASTXIXMB_XSYSEVENTS	720	
ASTXIXMB_XVERSION	6F8	
ASTXIXMBL	720	29
ASTXIXMC	6F8	
ASTXIXMC_XEYECATCH	6F9	
ASTXIXMC_XGROUPTOKEN	710	
ASTXIXMC_XMBOXNAME	700	
ASTXIXMC_XSTB	6FF	
ASTXIXMC_XSTB_NO	6FF	80
ASTXIXMC_XSTB_YES	6FF	40
ASTXIXMC_XVERSION	6F8	
ASTXIXMCL	710	1C
ASTXIXMD	6F8	
ASTXIXMD_XEYECATCH	6F9	

Table 141. Cross Reference for $DTEASST (continued)

Name	Offset	Hex Tag
ASTXIXMD_XGROUPTOKEN	710	
ASTXIXMD_XMBOXNAME	700	
ASTXIXMD_XSTB	6FF	
ASTXIXMD_XSTB_NO	6FF	80
ASTXIXMD_XSTB_YES	6FF	40
ASTXIXMD_XVERSION	6F8	
ASTXIXMDL	710	1C
ASTXIXRM	6F8	
ASTXIXRM_KEYUSED_MSGFETCH	725	80
ASTXIXRM_XDATA	710	
ASTXIXRM_XDATALEN	714	
ASTXIXRM_XEYECATCH	6F9	
ASTXIXRM_XGROUPTOKEN	720	
ASTXIXRM_XKEYS	725	
ASTXIXRM_XMBOXNAME	700	
ASTXIXRM_XMSGFETCH	724	
ASTXIXRM_XMSGFETCH_ACKS	724	10
ASTXIXRM_XMSGFETCH_ALL	724	80
ASTXIXRM_XMSGFETCH_MESSAGES	724	40
ASTXIXRM_XMSGFETCH_SYSEVENT	724	20
ASTXIXRM_XMSGTOKEN	718	
ASTXIXRM_XRSV0001	6FF	
ASTXIXRM_XVERSION	6F8	
ASTXIXRML	725	2E
ASTXIXSM	6F8	
ASTXIXSM_KEYUSED_CONNECT	77A	4
ASTXIXSM_KEYUSED_DATAALET	77B	40
ASTXIXSM_KEYUSED_ECB	77B	80
ASTXIXSM_KEYUSED_EXIT	77A	10
ASTXIXSM_KEYUSED_MSGATTR	77A	1
ASTXIXSM_KEYUSED_MSGTOKEN	77A	2
ASTXIXSM_KEYUSED_RELEASE_CADS	77B	20
ASTXIXSM_KEYUSED_REQMBOX	77A	20
ASTXIXSM_KEYUSED_REQTOKEN	77A	40
ASTXIXSM_KEYUSED_REQTYPE	77A	80
ASTXIXSM_KEYUSED_RIPSIZE	77B	10
ASTXIXSM_KEYUSED_SEGTYPE	77A	8
ASTXIXSM_XCONNECT	750	
ASTXIXSM_XDATA	720	
ASTXIXSM_XDATAALET	740	
ASTXIXSM_XDATALEN	724	
ASTXIXSM_XECB	748	
ASTXIXSM_XEXIT	74C	
ASTXIXSM_XEYECATCH	6F9	
ASTXIXSM_XGROUPTOKEN	758	
ASTXIXSM_XKEYS	77A	
ASTXIXSM_XKEYS1	77B	
ASTXIXSM_XMBOXNAME	700	
ASTXIXSM_XMEMBER	710	

Table 141. Cross Reference for $DTEASST (continued)

Name	Offset	Hex Tag
ASTXIXSM_XMSGATTR	6FF	
ASTXIXSM_XMSGATTR_EXPRESS	6FF	40
ASTXIXSM_XMSGATTR_J3CONNECT	6FF	80
ASTXIXSM_XMSGTOKEN	76C	
ASTXIXSM_XREQMBOX	730	
ASTXIXSM_XREQTOKEN	728	
ASTXIXSM_XREQTYPE	778	
ASTXIXSM_XREQTYPE_ASYNC	778	80
ASTXIXSM_XREQTYPE_ASYNCACK	778	20
ASTXIXSM_XREQTYPE_COMM	778	10
ASTXIXSM_XREQTYPE_SYNC	778	40
ASTXIXSM_XRESPDALT	744	
ASTXIXSM_XRESPDATA	760	
ASTXIXSM_XRESPDLEN	764	
ASTXIXSM_XRIPSIZE	774	
ASTXIXSM_XRSV00001	768	
ASTXIXSM_XSEGTYPE	779	
ASTXIXSM_XSEGTYPE_ABORT	779	8
ASTXIXSM_XSEGTYPE_FIRST	779	40
ASTXIXSM_XSEGTYPE_LAST	779	10
ASTXIXSM_XSEGTYPE_MIDDLE	779	20
ASTXIXSM_XSEGTYPE_SINGLE	779	80
ASTXIXSM_XUSERRC	75C	
ASTXIXSM_XVERSION	6F8	
ASTXIXSML	77B	84
AST1NORE	60C	0
AST1REQU	60C	
ASWORKP	65C	
AS1BMERR	658	10
AS1ERABN	658	80
AS1ERFL1	658	
AS1MAILE	658	40
AS1TBERR	658	20
DTE	0	
M00M1131	0	6F8
M00M1133	6F8	
M00M1134	0	6F8
M00M1135	6F8	
M00M1136	6F8	
M00M1137	0	6F8
M00M1138	0	6F8
M00M1139	6F8	

Chapter 63. $DTECKCF Information

$DTECKCF Heading Information

Common Name: HASP Checkpoint on CF DTE work area
Macro ID: $DTECKCF
DSECT Name: DTE ($DTECKCF is part of the DTE DSECT)
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'DTE '
Offset: DTEID-DTE
Length: 4
Storage Attributes: Subpool: see $DTE
Key: see $DTE
Residency: see $DTE

Size: See the DTELEN equate for the length of the base DTE, and the DCCFLEN equate for the length of a checkpoint on CF DTE work area extension.
Created by: Created by $DTEDYN ATTACH during JES2 CKPT data set allocation. The subtask (and DTE) definitions are defined by the $DTETAB definitions.
Pointed to by: The $DTECKCF field of the $HCT data area points into $DTEORG/$DTELAST chain to the checkpoint on CF subtask DTEs.
See $DTE for other pointer fields that apply to all DTE types.
Serialization: Serialized by the JES2 main task. Only one request may be processed at one time.
Function: The HASP Checkpoint on CF Subtask DTE work area, $DTECKCF, defines the $DTE work area extension for that subtask. The mapping defines the fields after label DTEWORK.
This subtask interfactes between JES2 and the XES CF support. Each subtask manages the requests for a single CF. They are attached when the checkpoint is allocated (at connect time) and detached when the CF is no longer needed (at checkpoint unallocate).
A subtask is used to limit the impact of XES suspending the reqester of a service or terminating the connector of a CF.

$DTECKCF mapping

Table 142. Structure DTE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DTE	HASP Checkpoint on CF subtask work area ext.
		Performance statistics This area is defined the same in $DTECKDA, $CTECKCF and $CTW. It must follow DTEWORK in both DTE work areas.			
1544	(608)	SIGNED	4	DCCFPSTR(0)	Start of statistics

Table 142. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1544	(608)	DBL WORD	8	DCCFPTIM	Wall clock to complete req
1552	(610)	DBL WORD	8	DCCFPCPU	CPU time to complete req
1560	(618)	SIGNED	4	DCCFPIOC	I/O count for request
1564	(61C)	SIGNED	4	DCCFPCNT	CB count for request
1564	(61C)	X'608'	0	DCCFPERF	"DCCFPSTR,24,C'C'" Field for all stats
	End of DTE performance statistics				
1568	(620)	SIGNED	4	DCCFEECB	Event ECB
1572	(624)	ADDRESS	4	DCFBFLST	Pointer to BUFLIST storage
1576	(628)	ADDRESS	8	DCFCFLST	Pointer to CFLIST
1584	(630)	ADDRESS	8	DCFRDBF1	Pointer to 64K buffer for IXLLSTM READ_LIST requests
1592	(638)	ADDRESS	8	DCFRDBF2	Pointer to second 64K buffer for IXLLSTM READ_LIST requests
1600	(640)	ADDRESS	8	DCFRWTKN	Pointer to storage to hold tokens returned from an IXLLSTM READ or WRITE
1608	(648)	ADDRESS	8	DCFLEID	Pointer to LEIDs
1616	(650)	ADDRESS	8	DCFCFADR	Work areas obtained when structure is connected to
1624	(658)	SIGNED	4	DCFCFSZE	Size of 64 bit work area obtained when structure is connected to
1628	(65C)	ADDRESS	4	DCFLAAS	Addr of set of answer areas
1632	(660)	SIGNED	4	DCFLAASZ	Size of 31 bit LAA work area obtained when structure connected to
1636	(664)	ADDRESS	4		Reserved
1640	(668)	DBL WORD	8	(0)	Ensure alignment
1640	(668)	X'60'	0	DCCFLEN	"*-DTEWORK" Length of work area

Table 143. Cross Reference for $DTECKCF

Name	Offset	Hex Tag
DCCFEECB	620	
DCCFLEN	668	60
DCCFPCNT	61C	
DCCFPCPU	610	
DCCFPERF	61C	608
DCCFPIOC	618	
DCCFPSTR	608	
DCCFPTIM	608	
DCFBFLST	624	
DCFCFADR	650	
DCFCFLST	628	
DCFCFSZE	658	
DCFLAAS	65C	
DCFLAASZ	660	
DCFLEID	648	
DCFRDBF1	630	
DCFRDBF2	638	

Table 143. Cross Reference for $DTECKCF (continued)

Name	Offset	Hex Tag
DCFRWTKN	640	
DTE	0	

Chapter 64. $DTECKDA Information

$DTECKDA Heading Information

Common Name: HASP Checkpoint on DASD DTE workarea
Macro ID: $DTECKDA
DSECT Name: DTE ($DTECKDA is part of the DTE DSECT)
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'DTE '
Offset: DTEID-DTE
Length: 4
Storage Attributes: Subpool: see $DTE
Key: see $DTE
Residency: see $DTE

Size: See the DTELEN equate for the length of the base DTE, and the DCDALEN equate for the length of a checkpoint on DASD DTE work area extension.
Created by: Created by $DTEDYN ATTACH during JES2 CKPT data set allocation. The subtask (and DTE) definitions are defined by the $DTETAB definitions.
Pointed to by: The $DTECKDA field of the $HCT data area points into $DTEORG/$DTELAST chain to the checkpoint on DASD subtask DTEs.
See $DTE for other pointer fields that apply to all DTE types.
Serialization: Serialized by the JES2 main task. Only one request may be processed at one time.
Function: The HASP Checkpoint on DASD Subtask DTE work area, $DTECKDA, defines the $DTE work area extension for that subtask. The mapping defines the fields after label DTEWORK.
This subtask interfaces between JES2 main task and subtask logic that reads and writes the checkpoint on DASD. Each subtask manages the requests for a single DASD data set. They are attached when the checkpoint is allocated and detached when the data set is no longer needed (at checkpoint unallocate). A subtask is used to better manage multiple parallel I/Os to the DASD checkpoint data set.

$DTECKDA mapping

Table 144. Structure DTE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DTE	HASP Checkpoint on DASD subtask work area ext.
		Performance statistics This area is defined the same in $DTECKDA, $CTECKCF and $CTW. It must follow DTEWORK in both DTE work areas.			
1544	(608)	SIGNED	4	DCDAPSTR(0)	Start of statistics

Table 144. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1544	(608)	DBL WORD	8	DCDAPTIM	Wall clock to complete req
1552	(610)	DBL WORD	8	DCDAPCPU	CPU time to complete req
1560	(618)	SIGNED	4	DCDAPIOC	I/O count for request
1564	(61C)	SIGNED	4	DCDAPCNT	CB count for request
1564	(61C)	X'608'	0	DCDAPERF	"DCDAPSTR,24" Field for all statistics
	End of DTE performance statistics				
1568	(620)	DBL WORD	8	DCDAWORK	8 byte work area
1576	(628)	BITSTRING	16	DCDAWK16	16 byte work area
1592	(638)	BITSTRING	1	DCDAFLG1	General DTE flag byte
		1...		DCDA1INI	"B'10000000'" Subtask initializing
1593	(639)	BITSTRING	1	DCDAFLG2	Footprint
1594	(63A)	SIGNED	2	DCDABNDC	Subtask ABEND count
1596	(63C)	ADDRESS	4	DCDAECBL(0)	ECB list for main wait
1596	(63C)	ADDRESS	4	DCDAWCB@	Work ECB (DTEWECB)
1600	(640)	ADDRESS	4	DCDAECB@	Event ECB (DCDAEECB)
1604	(644)	ADDRESS	4	DCDAIOEL(0)	I/O ECB list
1604	(644)	ADDRESS	4	DCDAICB@(0)	I/O ECB pointers
1628	(65C)	ADDRESS	4		Space for work ECB
1632	(660)	SIGNED	4	DCDAEECB	Event ECB
1640	(668)	DBL WORD	8	DCDALPST	STCK of last POST
1648	(670)	DBL WORD	8	DCDALOBT	STCK of last OBTAIN
	Function related statistics				
1656	(678)	SIGNED	4	DCDAFUNC	Current function
1660	(67C)	SIGNED	4	DCDAFSAV	Last function
1664	(680)	DBL WORD	8	DCDAT1ST	Time DDA_T1IO routine
1672	(688)	DBL WORD	8	DCDAT1ND	started and ended
1680	(690)	DBL WORD	8	DCDAR2ST	Time DDA_RD2 routine
1688	(698)	DBL WORD	8	DCDAR2ND	started and ended
1696	(6A0)	DBL WORD	8	DCDAWRST	Time DDA_WRT routine
1704	(6A8)	DBL WORD	8	DCDAWRND	started and ended
1712	(6B0)	DBL WORD	8	DCDALKST	Time DDA_LOCK routine
1720	(6B8)	DBL WORD	8	DCDALKND	started and ended
1728	(6C0)	DBL WORD	8	DCDAULST	Time DDA_UNLK routine
1736	(6C8)	DBL WORD	8	DCDAULND	started and ended
1744	(6D0)	DBL WORD	8	DCDAFMST	Time DDA_FMT routine
1752	(6D8)	DBL WORD	8	DCDAFMND	started and ended
1760	(6E0)	DBL WORD	8	DCDAXTST	Time DDA_XTND routine
1768	(6E8)	DBL WORD	8	DCDAXTND	started and ended
	Various data pointers				
1776	(6F0)	ADDRESS	4	DCDACKG	CKG address
1780	(6F4)	ADDRESS	4	DCDADEB	Address of DEB for this CKPT
1784	(6F8)	ADDRESS	4	DCDAUCB	UCB address
1788	(6FC)	ADDRESS	4	DCDAUCBX	UCB extension addr (UCBCMEXT)
1792	(700)	CHARACTER	44	DCDADSN	CKPT date set name
1836	(72C)	CHARACTER	6	DCDAVOL	and VOLSER
1842	(732)	BITSTRING	2		Reserved
1844	(734)	SIGNED	4	DCDCMLST(0)	ALIGN ON FULL WORD
1844	(734)	ADDRESS	1		THREE BYTES OF FLAGS

Table 144. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1845	(735)	ADDRESS	1		INDICATING THE FUNC-
1846	(736)	ADDRESS	1		TION TO BE PERFORMED
1847	(737)	ADDRESS	1		NO OPTION THREE
1848	(738)	ADDRESS	4		PARAMETER TWO
1852	(73C)	ADDRESS	4		PARAMETER THREE
1856	(740)	ADDRESS	4		PARAMETER FOUR
1860	(744)	ADDRESS	4	DCDAKAWA	Current KAWA address
1864	(748)	DBL WORD	8	(0)	Double word for DSCB
1864	(748)	BITSTRING	148	DCDADSCB	DSCB from OBTAIN
2012	(7DC)	SIGNED	4	DCDAOBEC	Obtain error count
2016	(7E0)	BITSTRING	120	DCDAMSGW	Message work area
2136	(858)	SIGNED	4	DCDATRKC	Number of tracks/cylenders
2140	(85C)	SIGNED	4	DCDANRTK	Number of 4K records per track
2144	(860)	SIGNED	4	DCDAMSTN	Number of records for the master record
2148	(864)	SIGNED	4	DCDACHLN	Number of CHLOG entries after track 1 data
2152	(868)	SIGNED	4	DCDA4KST	Absolute start TTTT for 4k pages in CKPT
2156	(86C)	SIGNED	4	DCDA4KRC	Start record for 4K pages
2160	(870)	BITSTRING	16	DCDARPS	Sector numbers for 4K recs
2176	(880)	DBL WORD	8	DCDAEXT(0)	Extent start/end absolute address
2176	(880)	BITSTRING	4	DCDALOW	Lower CCccch of extent
2180	(884)	BITSTRING	4	DCDAHIGH	Upper CCccch of extent
2184	(888)	DBL WORD	8	DCDABS(0)	DS start/end absolute track number
2184	(888)	SIGNED	4	DCDALOWA	Start absolute track no.
2188	(88C)	SIGNED	4	DCDAHIAB	End absolute track number
2192	(890)	BITSTRING	1	DCDADEVF	Device flags
		1...		DCDAECKD	"B'10000000'" Device supports ECKD CCWs
		.1..		DCDARDTD	"B'01000000'" Read track data CCW support
		..1.		DCDAWTRD	"B'00100000'" Write trk data CCW support
		...1		DCDAMIDW	"B'00010000'" Device supports MIDAWs
2193	(891)	BITSTRING	2		Reserved
		The following are work areas used in building channel programs (routines KIOPAGE)			
2200	(898)	DBL WORD	8	DCDAIODA(0)	KIOPAGE work area
2200	(898)	ADDRESS	4	DCDACKA	Current CKA address
2204	(89C)	ADDRESS	4	DCDACCWS	Free pointer in CCW area
2208	(8A0)	ADDRESS	4	DCDACCWD	Free pointer in data area
2212	(8A4)	ADDRESS	4	DCDAMXCC	Max CCW pointer
2216	(8A8)	ADDRESS	4	DCDAMXCD	Max CKD pointer
2220	(8AC)	ADDRESS	4	DCDAMXRG	Max rangelist pointer
2224	(8B0)	SIGNED	4	DCDARCNT	Records in current domain
2228	(8B4)	ADDRESS	4	DCDALOCR	Current locate record data area
2232	(8B8)	BITSTRING	5	DCDACHR(0)	Current CCHHR
2232	(8B8)	BITSTRING	4	DCDACCHH	Current CCHH

Table 144. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2236	(8BC)	BITSTRING	1	DCDAR	and R
2237	(8BD)	BITSTRING	1	DCDAIOF1	I/O flag byte
		1...		DCDA1ADJ	"B'10000000'" Adjacent DASD records flag
		.1..		DCDA1STA	"B'01000000'" Adjacent storage address
2240	(8C0)	SIGNED	4	DCDALSTR	Last record+1 in current CTENT
2244	(8C4)	ADDRESS	4	DCDALSTK	1st byte past last local KIT
	Statistics for I/Os				
2248	(8C8)	SIGNED	4	DCDAIOCT	Count of normal I/Os started
2252	(8CC)	SIGNED	4	DCDARTCT	Count of retry I/Os started
2256	(8D0)	SIGNED	4	DCDARCCT	Count of records processed
2256	(8D0)	X'898'	0	DCDAIOWA	"DCDAIODA,*-DCDAIODA" Equate for work area
2264	(8D8)	DBL WORD	8	(0)	Align save area
2264	(8D8)	BITSTRING	144	DCDASAVE	F4SA save area for KIOPAGE
2408	(968)	DBL WORD	8	(0)	Align save area
2408	(968)	BITSTRING	144	DCDAPGSV	F4SA save area for KPGPGSR
2552	(9F8)	DBL WORD	8	(0)	Align save area
2552	(9F8)	BITSTRING	144	DCDACHKI	F4SA save area for KPGCHKIO
2696	(A88)	SIGNED	4		Reserved
------- $BLDMSG MF=L List form of $BLDMSG					
2700	(A8C)	SIGNED	4	DCDABLDM(0)	Control block ID
2704	(A90)	BITSTRING	4		Console ID
2708	(A94)	ADDRESS	4		Address of the CART
2712	(A98)	ADDRESS	4		Pointer for JOBID
2716	(A9C)	ADDRESS	4		Control block address
2720	(AA0)	ADDRESS	4		Display routine address
2724	(AA4)	ADDRESS	4	(6)	6 word work area
2748	(ABC)	ADDRESS	4		Caller's R11 value
2752	(AC0)	BITSTRING	2		ROUT code for Message
2754	(AC2)	BITSTRING	2		Not used
2756	(AC4)	CHARACTER	4		Message ID
2760	(AC8)	CHARACTER	1		Separator character
2761	(AC9)	ADDRESS	1		Flag byte 1
2762	(ACA)	ADDRESS	1		'DISPER'
2763	(ACB)	ADDRESS	1		Flag byte 2
2764	(ACC)	ADDRESS	1		Flag byte 3
2765	(ACD)	CHARACTER	8		Symbolic name of dest.
2773	(AD5)	BITSTRING	15		Not used
2788	(AE4)	ADDRESS	4	(0)	Ensure multiple of 4
2788	(AE4)	ADDRESS	2	(0)	
2792	(AE8)	DBL WORD	8	(0)	Start of ORG area
2792	(AE8)	BITSTRING	256	DCDAORG	Basic work are
------- TRKCALC MF=L TRKCALC work area					
2792	(AE8)	ADDRESS	4	DCDATCAL	DVCT OR UCB ADDR, OR DEVTYPE
2796	(AEC)	BITSTRING	1		FLAG BYTE
2797	(AED)	BITSTRING	1		RESERVED
2798	(AEE)	ADDRESS	2		TRACK BALANCE
2800	(AF0)	ADDRESS	1		RECORD NUMBER

Table 144. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2801	(AF1)	ADDRESS	1		KEY LENGTH
2802	(AF2)	ADDRESS	2		DATA LENGTH
2802	(AF2)	X'AE8'	0	DCDATRKL	"DCDATCAL,*-DCDATCAL" Work area equate
2804	(AF4)	ADDRESS	2	(0)	Ensure not too long
------- IARV64 MF=(L,DCDAIARV),PLISTVER=MAX IARV64 work area MACDATE -12/05/14-<5>					
0	(0)	X'AE8'	0	M00M1145	"DCDAIARV" ++ IARV64 NAME
2792	(AE8)	DBL WORD	8	DCDAIARV(0)	++ IARV64 PARM LIST
2792	(AE8)	BITSTRING	1	DCDAIARV_XVERSION	++ INPUT XVERSION
2793	(AE9)	BITSTRING	1	DCDAIARV_XREQUEST	++ XREQUEST
2793	(AE9)	X'1'	0	DCDAIARV_XREQUEST_GETSTOR	"1" ++ XREQUEST.GETSTOR KEYWORD
2793	(AE9)	X'2'	0	DCDAIARV_XREQUEST_GETSHARED	"2" ++ XREQUEST.GETSHARED KEYWORD
2793	(AE9)	X'3'	0	DCDAIARV_XREQUEST_DETACH	"3" ++ XREQUEST.DETACH KEYWORD
2793	(AE9)	X'4'	0	DCDAIARV_XREQUEST_PAGEFIX	"4" ++ XREQUEST.PAGEFIX KEYWORD
2793	(AE9)	X'5'	0	DCDAIARV_XREQUEST_PAGEUNFIX	"5" ++ XREQUEST.PAGEUNFIX KEYWORD
2793	(AE9)	X'6'	0	DCDAIARV_XREQUEST_PAGEOUT	"6" ++ XREQUEST.PAGEOUT KEYWORD
2793	(AE9)	X'7'	0	DCDAIARV_XREQUEST_DISCARDDATA	"7" ++ XREQUEST.DISCARDDATA KEYWORD
2793	(AE9)	X'8'	0	DCDAIARV_XREQUEST_PAGEIN	"8" ++ XREQUEST.PAGEIN KEYWORD
2793	(AE9)	X'9'	0	DCDAIARV_XREQUEST_PROTECT	"9" ++ XREQUEST.PROTECT KEYWORD
2793	(AE9)	X'A'	0	DCDAIARV_XREQUEST_SHAREMEMOBJ	"10" ++ XREQUEST.SHAREMEMOBJ KEYWORD
2793	(AE9)	X'B'	0	DCDAIARV_XREQUEST_CHANGEACCESS	"11" ++ XREQUEST.CHANGEACCESS KEYWORD
2793	(AE9)	X'C'	0	DCDAIARV_XREQUEST_UNPROTECT	"12" ++ XREQUEST.UNPROTECT KEYWORD
2793	(AE9)	X'D'	0	DCDAIARV_XREQUEST_CHANGEGUARD	"13" ++ XREQUEST.CHANGEGUARD KEYWORD
2793	(AE9)	X'E'	0	DCDAIARV_XREQUEST_LIST	"14" ++ XREQUEST.LIST KEYWORD
2793	(AE9)	X'F'	0	DCDAIARV_XREQUEST_GETCOMMON	"15" ++ XREQUEST.GETCOMMON KEYWORD
2793	(AE9)	X'10'	0	DCDAIARV_XREQUEST_COUNTPAGES	"16" ++ XREQUEST.COUNTPAGES KEYWORD
2793	(AE9)	X'11'	0	DCDAIARV_XREQUEST_PCIEFIX	"17" ++ XREQUEST.PCIEFIX KEYWORD
2793	(AE9)	X'12'	0	DCDAIARV_XREQUEST_PCIEUNFIX	"18" ++ XREQUEST.PCIEUNFIX KEYWORD
2794	(AEA)	BITSTRING	1	DCDAIARV_XFLAGS0	++ FIELD_LABEL
		1...		DCDAIARV_XMOTKNSOURCE_SYSTEM	

Table 144. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"B'10000000'" ++ XMOTKNSOURCE.SYSTEM KEYWORD
	.1..			DCDAIARV_XMOTKNCREATOR_SYSTEM	"B'01000000'" ++ XMOTKNCREATOR.SYSTEM KEYWORD
	..1.			DCDAIARV_XMATCH_MOTOKEN	"B'00100000'" ++ XMATCH.MOTOKEN KEYWORD
2795	(AEB)	BITSTRING	1	DCDAIARV_XKEY	++
2796	(AEC)	BITSTRING	1	DCDAIARV_XFLAGS1	++ FIELD_LABEL
	1...			DCDAIARV_KEYUSED_KEY	"B'10000000'" ++ KEYUSED.KEY KEYWORD
	.1..			DCDAIARV_KEYUSED_USERTKN	"B'01000000'" ++ KEYUSED.USERTKN KEYWORD
	..1.			DCDAIARV_KEYUSED_TTOKEN	"B'00100000'" ++ KEYUSED.TTOKEN KEYWORD
	...1			DCDAIARV_KEYUSED_CONVERTSTART	"B'00010000'" ++ KEYUSED.CONVERTSTART KEYWORD
	.... 1...			DCDAIARV_KEYUSED_GUARDSIZE64	"B'00001000'" ++ KEYUSED.GUARDSIZE64 KEYWORD
	.... .1..			DCDAIARV_KEYUSED_CONVERTSIZE64	"B'00000100'" ++ KEYUSED.CONVERTSIZE64 KEYWORD
	.... ..1.			DCDAIARV_KEYUSED_MOTKN	"B'00000010'" ++ KEYUSED.MOTKN KEYWORD
	1			DCDAIARV_KEYUSED_OWNERJOBNAME	"B'00000001'" ++ KEYUSED.OWNERJOBNAME KEYWORD
2797	(AED)	BITSTRING	1	DCDAIARV_XFLAGS2	++ FIELD_LABEL
	1...			DCDAIARV_XCOND_YES	"B'10000000'" ++ XCOND.YES KEYWORD
	.1..			DCDAIARV_XFPROT_NO	"B'01000000'" ++ XFPROT.NO KEYWORD
	..1.			DCDAIARV_XCONTROL_AUTH	"B'00100000'" ++ XCONTROL.AUTH KEYWORD
	...1			DCDAIARV_XGUARDLOC_HIGH	"B'00010000'" ++ XGUARDLOC.HIGH KEYWORD
	.... 1...			DCDAIARV_XCHANGEACCESS_GLOBAL	"B'00001000'" ++ XCHANGEACCESS.GLOBAL KEYWORD
	.... .1..			DCDAIARV_XPAGEFRAMESIZE_1MEG	"B'00000100'" ++ XPAGEFRAMESIZE.1MEG KEYWORD
	.... ..1.			DCDAIARV_XPAGEFRAMESIZE_MAX	"B'00000010'" ++ XPAGEFRAMESIZE.MAX KEYWORD
	1			DCDAIARV_XPAGEFRAMESIZE_ALL	"B'00000001'" ++ XPAGEFRAMESIZE.ALL KEYWORD
2798	(AEE)	BITSTRING	1	DCDAIARV_XFLAGS3	++ FIELD_LABEL
	1...			DCDAIARV_XMATCH_USERTOKEN	"B'10000000'" ++ XMATCH.USERTOKEN KEYWORD

Table 144. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		DCDAIARV_XAFFINITY_SYSTEM	"B'01000000'" ++ XAFFINITY.SYSTEM KEYWORD
		..1.		DCDAIARV_XUSE2GTO32G_YES	"B'00100000'" ++ XUSE2GTO32G.YES KEYWORD
		...1		DCDAIARV_XOWNER_NO	"B'00010000'" ++ XOWNER.NO KEYWORD
		.... 1...		DCDAIARV_XV64SELECT_NO	"B'00001000'" ++ XV64SELECT.NO KEYWORD
		.... .1..		DCDAIARV_XSVCDUMPRGN_NO	"B'00000100'" ++ XSVCDUMPRGN.NO KEYWORD
		.... ..1.		DCDAIARV_XV64SHARED_NO	"B'00000010'" ++ XV64SHARED.NO KEYWORD
		1		DCDAIARV_XSVCDUMPRGN_ALL	"B'00000001'" ++ XSVCDUMPRGN.ALL KEYWORD
2799	(AEF)	BITSTRING	1	DCDAIARV_XFLAGS4	++ FIELD_LABEL
		1...		DCDAIARV_XLONG_NO	"B'10000000'" ++ XLONG.NO KEYWORD
		.1..		DCDAIARV_XCLEAR_NO	"B'01000000'" ++ XCLEAR.NO KEYWORD
		..1.		DCDAIARV_XVIEW_READONLY	"B'00100000'" ++ XVIEW.READONLY KEYWORD
		...1		DCDAIARV_XVIEW_SHAREDWRITE	"B'00010000'" ++ XVIEW.SHAREDWRITE KEYWORD
		.... 1...		DCDAIARV_XVIEW_HIDDEN	"B'00001000'" ++ XVIEW.HIDDEN KEYWORD
		.... .1..		DCDAIARV_XCONVERT_TOGUARD	"B'00000100'" ++ XCONVERT.TOGUARD KEYWORD
		.... ..1.		DCDAIARV_XCONVERT_FROMGUARD	"B'00000010'" ++ XCONVERT.FROMGUARD KEYWORD
		1		DCDAIARV_XKEEPREAL_NO	"B'00000001'" ++ XKEEPREAL.NO KEYWORD
2800	(AF0)	DBL WORD	8	DCDAIARV_XSEGMENTS	++
2808	(AF8)	CHARACTER	16	DCDAIARV_XTTOKEN	++
2824	(B08)	DBL WORD	8	DCDAIARV_XUSERTKN	++
2832	(B10)	ADDRESS	8	DCDAIARV_XORIGIN	++
2840	(B18)	ADDRESS	8	DCDAIARV_XRANGLIST	++
2848	(B20)	ADDRESS	8	DCDAIARV_XMEMOBJSTART	++
2856	(B28)	SIGNED	4	DCDAIARV_XGUARDSIZE	++
2860	(B2C)	SIGNED	4	DCDAIARV_XCONVERTSIZE	++
2864	(B30)	SIGNED	4	DCDAIARV_XALETVALUE	++
2868	(B34)	SIGNED	4	DCDAIARV_XNUMRANGE	++
2872	(B38)	ADDRESS	4	DCDAIARV_XV64LISTPTR	++
2876	(B3C)	SIGNED	4	DCDAIARV_XV64LISTLENGTH	++
2880	(B40)	DBL WORD	8	DCDAIARV_XCONVERTSTART	++
2888	(B48)	DBL WORD	8	DCDAIARV_XCONVERTSIZE64	++
2896	(B50)	DBL WORD	8	DCDAIARV_XGUARDSIZE64	++
2904	(B58)	CHARACTER	8	DCDAIARV_XUSERTOKEN	++
2912	(B60)	BITSTRING	1	DCDAIARV_XDUMPPRIORITY	++
2913	(B61)	BITSTRING	1	DCDAIARV_XFLAGS5	++ FIELD_LABEL
		1...		DCDAIARV_XDUMPPROTOCOL_YES	"B'10000000'" ++ XDUMPPROTOCOL.YES KEYWORD
		.1..		DCDAIARV_XORDER_DUMPPRIORITY	

Table 144. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"B'01000000'" ++ XORDER.DUMPPRIORITY KEYWORD
		..1.		DCDAIARV_XTYPE_PAGEABLE	"B'00100000'" ++ XTYPE.PAGEABLE KEYWORD
		...1		DCDAIARV_XTYPE_DREF	"B'00010000'" ++ XTYPE.DREF KEYWORD
		.... 1...		DCDAIARV_XOWNERCOM_HOME	"B'00001000'" ++ XOWNERCOM.HOME KEYWORD
		.... .1..		DCDAIARV_XOWNERCOM_PRIMARY	"B'00000100'" ++ XOWNERCOM.PRIMARY KEYWORD
		.... ..1.		DCDAIARV_XOWNERCOM_SYSTEM	"B'00000010'" ++ XOWNERCOM.SYSTEM KEYWORD
		1		DCDAIARV_XOWNERCOM_BYASID	"B'00000001'" ++ XOWNERCOM.BYASID KEYWORD
2914	(B62)	BITSTRING	1	DCDAIARV_XFLAGS6	++ FIELD_LABEL
		1...		DCDAIARV_XV64COMMON_NO	"B'10000000'" ++ XV64COMMON.NO KEYWORD
		.1..		DCDAIARV_XMEMLIMIT_NO	"B'01000000'" ++ XMEMLIMIT.NO KEYWORD
		..1.		DCDAIARV_XDETACHFIXED_YES	"B'00100000'" ++ XDETACHFIXED.YES KEYWORD
		...1		DCDAIARV_XDOAUTHCHECKS_YES	"B'00010000'" ++ XDOAUTHCHECKS.YES KEYWORD
		.... 1...		DCDAIARV_XLOCALSYSAREA_YES	"B'00001000'" ++ XLOCALSYSAREA.YES KEYWORD
		.... .1..		DCDAIARV_XAMOUNTSIZE_4K	"B'00000100'" ++ XAMOUNTSIZE.4K KEYWORD
		.... ..1.		DCDAIARV_XAMOUNTSIZE_1MEG	"B'00000010'" ++ XAMOUNTSIZE.1MEG KEYWORD
		1		DCDAIARV_XMEMLIMIT_COND	"B'00000001'" ++ XMEMLIMIT.COND KEYWORD
2915	(B63)	BITSTRING	1	DCDAIARV_XFLAGS7	++ FIELD_LABEL
		1...		DCDAIARV_KEYUSED_DUMP	"B'10000000'" ++ KEYUSED.DUMP KEYWORD
		.1..		DCDAIARV_KEYUSED_OPTIONVALUE	"B'01000000'" ++ KEYUSED.OPTIONVALUE KEYWORD
		..1.		DCDAIARV_KEYUSED_SVCDUMPRGN	"B'00100000'" ++ KEYUSED.SVCDUMPRGN KEYWORD
		...1		DCDAIARV_XATTRIBUTE_DEFS	"B'00010000'" ++ XATTRIBUTE.DEFS KEYWORD
		.... 1...		DCDAIARV_XATTRIBUTE_OWNERGONE	"B'00001000'" ++ XATTRIBUTE.OWNERGONE KEYWORD
		.... .1..		DCDAIARV_XATTRIBUTE_NOTOWNERGONE	"B'00000100'" ++ XATTRIBUTE.NOTOWNERGONE KEYWORD
		.... ..1.		DCDAIARV_XTRACKINFO_YES	"B'00000010'" ++ XTRACKINFO.YES KEYWORD
		1		DCDAIARV_XUNLOCKED_YES	"B'00000001'" ++ XUNLOCKED.YES KEYWORD
2916	(B64)	BITSTRING	1	DCDAIARV_XDUMP	++ XDUMP
2916	(B64)	X'0'	0	DCDAIARV_XDUMP_NONE	"0" ++ XDUMP.NONE KEYWORD

Table 144. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2916	(B64)	X'1'	0	DCDAIARV_XDUMP_NO	"1" ++ XDUMP.NO KEYWORD
2916	(B64)	X'2'	0	DCDAIARV_XDUMP_LIKESQA	"2" ++ XDUMP.LIKESQA KEYWORD
2916	(B64)	X'3'	0	DCDAIARV_XDUMP_LIKECSA	"3" ++ XDUMP.LIKECSA KEYWORD
2916	(B64)	X'20'	0	DCDAIARV_XDUMP_LIKERGN	"32" ++ XDUMP.LIKERGN KEYWORD
2916	(B64)	X'21'	0	DCDAIARV_XDUMP_LIKELSQA	"33" ++ XDUMP.LIKELSQA KEYWORD
2916	(B64)	X'FF'	0	DCDAIARV_XDUMP_ALL	"255" ++ XDUMP.ALL KEYWORD
2917	(B65)	BITSTRING	1	DCDAIARV_XFLAGS8	++ FIELD_LABEL
		1...		DCDAIARV_XPAGEFRAMESIZE_PAGEABLE1MEG	"B'10000000'" ++ XPAGEFRAMESIZE.PAGEABLE1MEG KEYWOR
		.1..		DCDAIARV_XPAGEFRAMESIZE_DREF1MEG	"B'01000000'" ++ XPAGEFRAMESIZE.DREF1MEG KEYWORD
2918	(B66)	BITSTRING	2	DCDAIARV_XOWNERASID	++
2920	(B68)	BITSTRING	1	DCDAIARV_XOPTIONVALUE	++
2921	(B69)	CHARACTER	8	DCDAIARV_XRSV0001	++ RESERVED
2929	(B71)	CHARACTER	8	DCDAIARV_XOWNERJOBNAME	++
2937	(B79)	CHARACTER	7	DCDAIARV_XRSV0004	++ RESERVED
2944	(B80)	ADDRESS	8	DCDAIARV_XDMAPAGETABLE	++
2952	(B88)	DBL WORD	8	DCDAIARV_XUNITS	++
2960	(B90)	BITSTRING	1	DCDAIARV_XFLAGS9	++ FIELD_LABEL
		1...		DCDAIARV_KEYUSED_UNITS	"B'10000000'" ++ KEYUSED.UNITS KEYWORD
		.1..		DCDAIARV_XUNITSIZE_1M	"B'01000000'" ++ XUNITSIZE.1M KEYWORD
		..1.		DCDAIARV_XUNITSIZE_2G	"B'00100000'" ++ XUNITSIZE.2G KEYWORD
		...1		DCDAIARV_XPAGEFRAMESIZE_1M	"B'00010000'" ++ XPAGEFRAMESIZE.1M KEYWORD
		.... 1...		DCDAIARV_XPAGEFRAMESIZE_2G	"B'00001000'" ++ XPAGEFRAMESIZE.2G KEYWORD
		.... .1..		DCDAIARV_XTYPE_FIXED	"B'00000100'" ++ XTYPE.FIXED KEYWORD
2961	(B91)	CHARACTER	7	DCDAIARV_XRSV0005	++ RESERVED
2961	(B91)	X'B98'	0	DCDAIARV_PL_END	"*" ++ END OF BASE PLIST
2824	(B08)	DBL WORD	8	DCDAIARV_XOUTMOTKN	++
2824	(B08)	DBL WORD	8	DCDAIARV_XMOTKN	++
2968	(B98)	X'B0'	0	DCDAIARVL	"*-DCDAIARV" ++ LENGTH OF PLIST
				IARV64-5	
0	(0)	X'B0'	0	DCDAV64L	"*-DCDAORG" Length of IARV64 area
2968	(B98)	ADDRESS	2	(0)	Ensure not too long
------- ISGENQ PLISTVER=1,MF=(L,DCDARSV) ISGENQ work area MACDATE -01/23/13-<2>					
		1		DCDARSV_XCOND_NO	"X'01'"
		.... ..1.		DCDARSV_XCOND_YES	"X'02'"
		1		DCDARSV_XREQUEST_OBTAIN	"X'01'"
		.... ..1.		DCDARSV_XREQUEST_CHANGE	"X'02'"
		11		DCDARSV_XREQUEST_RELEASE	"X'03'"
0	(0)	X'AE8'	0	M00M1147	"DCDARSV" ++ ISGENQ NAME

Table 144. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2792	(AE8)	DBL WORD	8	DCDARSV(0)	++ ISGENQ PARM LIST
2792	(AE8)	BITSTRING	1	DCDARSV_XVERSION	++ INPUT XVERSION
2793	(AE9)	CHARACTER	1	DCDARSV_XRSV0000	++ RESERVED
2794	(AEA)	BITSTRING	1	DCDARSV_XSCOPE	++ XSCOPE
2794	(AEA)	X'1'	0	DCDARSV_XSCOPE_STEP	"1" ++ XSCOPE.STEP KEYWORD
2794	(AEA)	X'2'	0	DCDARSV_XSCOPE_SYSTEM	"2" ++ XSCOPE.SYSTEM KEYWORD
2794	(AEA)	X'3'	0	DCDARSV_XSCOPE_SYSTEMS	"3" ++ XSCOPE.SYSTEMS KEYWORD
2794	(AEA)	X'3'	0	DCDARSV_XSCOPE_SYSPLEX	"3" ++ XSCOPE.SYSPLEX KEYWORD
2795	(AEB)	BITSTRING	1	DCDARSV_XCONTROL	++ XCONTROL
2795	(AEB)	X'1'	0	DCDARSV_XCONTROL_SHARED	"1" ++ XCONTROL.SHARED KEYWORD
2795	(AEB)	X'2'	0	DCDARSV_XCONTROL_EXCLUSIVE	"2" ++ XCONTROL.EXCLUSIVE KEYWORD
2796	(AEC)	BITSTRING	1	DCDARSV_XFLAGS1	++ FIELD_LABEL
		.1..		DCDARSV_XTEST_YES	"B'01000000'" ++ XTEST.YES KEYWORD
		..1.		DCDARSV_XCONTENTIONACT_FAIL	"B'00100000'" ++ XCONTENTIONACT.FAIL KEYWORD
		...1		DCDARSV_XWAITTYPE_ECB	"B'00010000'" ++ XWAITTYPE.ECB KEYWORD
		.... 1...		DCDARSV_XRESLIST_YES	"B'00001000'" ++ XRESLIST.YES KEYWORD
		.... .1..		DCDARSV_XENQMAX_NO	"B'00000100'" ++ XENQMAX.NO KEYWORD
		.... ..1.		DCDARSV_XRNL_NO	"B'00000010'" ++ XRNL.NO KEYWORD
		1		DCDARSV_XQNAME_DO_NOT_OVERRIDE	"B'00000001'" ++ XQNAME.DO_NOT_OVERRIDE KEYWORD
2797	(AED)	BITSTRING	1	DCDARSV_XFLAGS2	++ FIELD_LABEL
		1...		DCDARSV_XRESERVEVOLUME_YES	"B'10000000'" ++ XRESERVEVOLUME.YES KEYWORD
		.1..		DCDARSV_XSYNCHRES_YES	"B'01000000'" ++ XSYNCHRES.YES KEYWORD
		..1.		DCDARSV_XSYNCHRES_NO	"B'00100000'" ++ XSYNCHRES.NO KEYWORD
		...1		DCDARSV_XCONTROL_DO_NOT_OVERRIDE	"B'00010000'" ++ XCONTROL.DO_NOT_OVERRIDE KEYWORD
		.... 1...		DCDARSV_XSCOPE_DO_NOT_OVERRIDE	"B'00001000'" ++ XSCOPE.DO_NOT_OVERRIDE KEYWORD
		.... .1..		DCDARSV_XRNL_DO_NOT_OVERRIDE	"B'00000100'" ++ XRNL.DO_NOT_OVERRIDE KEYWORD
		.... ..1.		DCDARSV_XSYNCHRES_DO_NOT_OVERRIDE	"B'00000010'" ++ XSYNCHRES.DO_NOT_OVERRIDE KEYWORD
		1		DCDARSV_XRNAME_DO_NOT_OVERRIDE	"B'00000001'" ++ XRNAME.DO_NOT_OVERRIDE KEYWORD
2798	(AEE)	BITSTRING	1	DCDARSV_XFLAGS3	++ FIELD_LABEL

Table 144. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		DCDARSV_KEYUSED_CONTROL	"B'10000000'" ++ KEYUSED.CONTROL KEYWORD
		1		DCDARSV_XRNAMELEN_DO_NOT_OVERRIDE	"B'00000001'" ++ XRNAMELEN.DO_NOT_OVERRIDE KEYWORD
2799	(AEF)	BITSTRING	1	DCDARSV_XFLAGS4	++ FIELD_LABEL
		1		DCDARSV_XUCB@_DO_NOT_OVERRIDE	"B'00000001'" ++ XUCB@.DO_NOT_OVERRIDE KEYWORD
2800	(AF0)	ADDRESS	8	DCDARSV_XRESTABLE_ADDR3164	++ ADDR3164
2808	(AF8)	ADDRESS	8	DCDARSV_XENQTOKEN_ADDR3164	++ ADDR3164
2816	(B00)	ADDRESS	8	DCDARSV_XRETURNTABLE_ADDR3164	
2824	(B08)	ADDRESS	8	DCDARSV_XENQTOKENTBL_ADDR3164	
2832	(B10)	ADDRESS	8	DCDARSV_XRNAME_ADDR3164	++ ADDR3164
2840	(B18)	ADDRESS	8	DCDARSV_XANSAREA_ADDR3164	++ ADDR3164
2848	(B20)	CHARACTER	8	DCDARSV_XQNAME	++
2856	(B28)	CHARACTER	16	DCDARSV_XOWNINGTTOKEN	++
2872	(B38)	SIGNED	4	DCDARSV_XRESTABLE_ALET	++ ALET
2876	(B3C)	SIGNED	4	DCDARSV_XENQTOKEN_ALET	++ ALET
2880	(B40)	SIGNED	4	DCDARSV_XRETURNTABLE_ALET	++ ALET
2884	(B44)	SIGNED	4	DCDARSV_XENQTOKENTBL_ALET	++ ALET
2888	(B48)	SIGNED	4	DCDARSV_XRNAME_ALET	++ ALET
2892	(B4C)	SIGNED	4	DCDARSV_XANSAREA_ALET	++ ALET
2896	(B50)	SIGNED	4	DCDARSV_XANSLEN	++
2900	(B54)	ADDRESS	4	DCDARSV_XECB@	++
2904	(B58)	ADDRESS	4	DCDARSV_XUCB@	++
2908	(B5C)	BITSTRING	2	DCDARSV_XNUMRES	++
2910	(B5E)	BITSTRING	1	DCDARSV_XRNAMELEN	++
2911	(B5F)	CHARACTER	1	DCDARSV_XRSV0001	++ RESERVED
2912	(B60)	CHARACTER	8	DCDARSV_XRSVNNNN	++ RESERVED
2912	(B60)	X'B68'	0	DCDARSV_PL_END	"*" ++ END OF BASE PLIST
2794	(AEA)	BITSTRING	1	DCDARSV_XSCOPEVAL	++
2795	(AEB)	BITSTRING	1	DCDARSV_XCONTROLVAL	++
2920	(B68)	X'80'	0	DCDARSVL	"*-DCDARSV" ++ LENGTH OF PLIST
				ISGENQ-2	
2920	(B68)	ADDRESS	2	(0)	Ensure not too long
2792	(AE8)	SIGNED	4	(0)	Ensure alignment
2792	(AE8)	BITSTRING	16	DCDAPPL	PURGE parameter list
2808	(AF8)	ADDRESS	2	(0)	Ensure not too long
2792	(AE8)	DBL WORD	8	(0)	
2792	(AE8)	BITSTRING	100	DCDAEXDS	$EXTENDS list form
2892	(B4C)	ADDRESS	2	(0)	Ensure not too long
3048	(BE8)	DBL WORD	8	(0)	Ensure alignment
3048	(BE8)	X'5E0'	0	DCDALEN	"*-DTEWORK" Length of work area

Table 145. Cross Reference for $DTECKDA

Name	Offset	Hex Tag
DCDABLDM	A8C	C2D3C440
DCDABNDC	63A	

Table 145. Cross Reference for $DTECKDA (continued)

Name	Offset	Hex Tag
DCDABS	888	
DCDACCHH	8B8	
DCDACCWD	8A0	
DCDACCWS	89C	
DCDACHKI	9F8	
DCDACHLN	864	
DCDACHR	8B8	
DCDACKA	898	
DCDACKG	6F0	
DCDADEB	6F4	
DCDADEVF	890	
DCDADSCB	748	
DCDADSN	700	
DCDAECB@	640	
DCDAECBL	63C	
DCDAECKD	890	80
DCDAEECB	660	
DCDAEXDS	AE8	0
DCDAEXT	880	
DCDAFLG1	638	
DCDAFLG2	639	
DCDAFMND	6D8	
DCDAFMST	6D0	
DCDAFSAV	67C	
DCDAFUNC	678	
DCDAHIAB	88C	
DCDAHIGH	884	
DCDAIARV	AE8	
DCDAIARV_KEYUSED_CONVERTSIZE64	AEC	4
DCDAIARV_KEYUSED_CONVERTSTART	AEC	10
DCDAIARV_KEYUSED_DUMP	B63	80
DCDAIARV_KEYUSED_GUARDSIZE64	AEC	8
DCDAIARV_KEYUSED_KEY	AEC	80
DCDAIARV_KEYUSED_MOTKN	AEC	2
DCDAIARV_KEYUSED_OPTIONVALUE	B63	40
DCDAIARV_KEYUSED_OWNERJOBNAME	AEC	1
DCDAIARV_KEYUSED_SVCDUMPRGN	B63	20
DCDAIARV_KEYUSED_TTOKEN	AEC	20
DCDAIARV_KEYUSED_UNITS	B90	80
DCDAIARV_KEYUSED_USERTKN	AEC	40
DCDAIARV_PL_END	B91	B98
DCDAIARV_XAFFINITY_SYSTEM	AEE	40
DCDAIARV_XALETVALUE	B30	
DCDAIARV_XAMOUNTSIZE_1MEG	B62	2
DCDAIARV_XAMOUNTSIZE_4K	B62	4
DCDAIARV_XATTRIBUTE_DEFS	B63	10
DCDAIARV_XATTRIBUTE_NOTOWNERGONE	B63	4
DCDAIARV_XATTRIBUTE_OWNERGONE	B63	8
DCDAIARV_XCHANGEACCESS_GLOBAL	AED	8

Table 145. Cross Reference for $DTECKDA (continued)

Name	Offset	Hex Tag
DCDAIARV_XCLEAR_NO	AEF	40
DCDAIARV_XCOND_YES	AED	80
DCDAIARV_XCONTROL_AUTH	AED	20
DCDAIARV_XCONVERT_FROMGUARD	AEF	2
DCDAIARV_XCONVERT_TOGUARD	AEF	4
DCDAIARV_XCONVERTSIZE	B2C	
DCDAIARV_XCONVERTSIZE64	B48	
DCDAIARV_XCONVERTSTART	B40	
DCDAIARV_XDETACHFIXED_YES	B62	20
DCDAIARV_XDMAPAGETABLE	B80	
DCDAIARV_XDOAUTHCHECKS_YES	B62	10
DCDAIARV_XDUMP	B64	
DCDAIARV_XDUMP_ALL	B64	FF
DCDAIARV_XDUMP_LIKECSA	B64	3
DCDAIARV_XDUMP_LIKELSQA	B64	21
DCDAIARV_XDUMP_LIKERGN	B64	20
DCDAIARV_XDUMP_LIKESQA	B64	2
DCDAIARV_XDUMP_NO	B64	1
DCDAIARV_XDUMP_NONE	B64	0
DCDAIARV_XDUMPPRIORITY	B60	
DCDAIARV_XDUMPPROTOCOL_YES	B61	80
DCDAIARV_XFLAGS0	AEA	
DCDAIARV_XFLAGS1	AEC	
DCDAIARV_XFLAGS2	AED	
DCDAIARV_XFLAGS3	AEE	
DCDAIARV_XFLAGS4	AEF	
DCDAIARV_XFLAGS5	B61	
DCDAIARV_XFLAGS6	B62	
DCDAIARV_XFLAGS7	B63	
DCDAIARV_XFLAGS8	B65	
DCDAIARV_XFLAGS9	B90	
DCDAIARV_XFPROT_NO	AED	40
DCDAIARV_XGUARDLOC_HIGH	AED	10
DCDAIARV_XGUARDSIZE	B28	
DCDAIARV_XGUARDSIZE64	B50	
DCDAIARV_XKEEPREAL_NO	AEF	1
DCDAIARV_XKEY	AEB	
DCDAIARV_XLOCALSYSAREA_YES	B62	8
DCDAIARV_XLONG_NO	AEF	80
DCDAIARV_XMATCH_MOTOKEN	AEA	20
DCDAIARV_XMATCH_USERTOKEN	AEE	80
DCDAIARV_XMEMLIMIT_COND	B62	1
DCDAIARV_XMEMLIMIT_NO	B62	40
DCDAIARV_XMEMOBJSTART	B20	
DCDAIARV_XMOTKN	B08	
DCDAIARV_XMOTKNCREATOR_SYSTEM	AEA	40
DCDAIARV_XMOTKNSOURCE_SYSTEM	AEA	80
DCDAIARV_XNUMRANGE	B34	
DCDAIARV_XOPTIONVALUE	B68	

Table 145. Cross Reference for $DTECKDA (continued)

Name	Offset	Hex Tag
DCDAIARV_XORDER_DUMPPRIORITY	B61	40
DCDAIARV_XORIGIN	B10	
DCDAIARV_XOUTMOTKN	B08	
DCDAIARV_XOWNER_NO	AEE	10
DCDAIARV_XOWNERASID	B66	
DCDAIARV_XOWNERCOM_BYASID	B61	1
DCDAIARV_XOWNERCOM_HOME	B61	8
DCDAIARV_XOWNERCOM_PRIMARY	B61	4
DCDAIARV_XOWNERCOM_SYSTEM	B61	2
DCDAIARV_XOWNERJOBNAME	B71	
DCDAIARV_XPAGEFRAMESIZE_ALL	AED	1
DCDAIARV_XPAGEFRAMESIZE_DREF1MEG	0	40
DCDAIARV_XPAGEFRAMESIZE_MAX	AED	2
DCDAIARV_XPAGEFRAMESIZE_PAGEABLE1MEG	B65	80
DCDAIARV_XPAGEFRAMESIZE_1M	B90	10
DCDAIARV_XPAGEFRAMESIZE_1MEG	AED	4
DCDAIARV_XPAGEFRAMESIZE_2G	B90	8
DCDAIARV_XRANGLIST	B18	
DCDAIARV_XREQUEST	AE9	
DCDAIARV_XREQUEST_CHANGEACCESS	AE9	B
DCDAIARV_XREQUEST_CHANGEGUARD	AE9	D
DCDAIARV_XREQUEST_COUNTPAGES	AE9	10
DCDAIARV_XREQUEST_DETACH	AE9	3
DCDAIARV_XREQUEST_DISCARDDATA	AE9	7
DCDAIARV_XREQUEST_GETCOMMON	AE9	F
DCDAIARV_XREQUEST_GETSHARED	AE9	2
DCDAIARV_XREQUEST_GETSTOR	AE9	1
DCDAIARV_XREQUEST_LIST	AE9	E
DCDAIARV_XREQUEST_PAGEFIX	AE9	4
DCDAIARV_XREQUEST_PAGEIN	AE9	8
DCDAIARV_XREQUEST_PAGEOUT	AE9	6
DCDAIARV_XREQUEST_PAGEUNFIX	AE9	5
DCDAIARV_XREQUEST_PCIEFIX	AE9	11
DCDAIARV_XREQUEST_PCIEUNFIX	AE9	12
DCDAIARV_XREQUEST_PROTECT	AE9	9
DCDAIARV_XREQUEST_SHAREMEMOBJ	AE9	A
DCDAIARV_XREQUEST_UNPROTECT	AE9	C
DCDAIARV_XRSV0001	B69	
DCDAIARV_XRSV0004	B79	
DCDAIARV_XRSV0005	B91	
DCDAIARV_XSEGMENTS	AF0	
DCDAIARV_XSVCDUMPRGN_ALL	AEE	1
DCDAIARV_XSVCDUMPRGN_NO	AEE	4
DCDAIARV_XTRACKINFO_YES	B63	2
DCDAIARV_XTTOKEN	AF8	
DCDAIARV_XTYPE_DREF	B61	10
DCDAIARV_XTYPE_FIXED	B90	4
DCDAIARV_XTYPE_PAGEABLE	B61	20
DCDAIARV_XUNITS	B88	

Table 145. Cross Reference for $DTECKDA (continued)

Name	Offset	Hex Tag
DCDAIARV_XUNITSIZE_1M	B90	40
DCDAIARV_XUNITSIZE_2G	B90	20
DCDAIARV_XUNLOCKED_YES	B63	1
DCDAIARV_XUSERTKN	B08	
DCDAIARV_XUSERTOKEN	B58	
DCDAIARV_XUSE2GTO32G_YES	AEE	20
DCDAIARV_XVERSION	AE8	
DCDAIARV_XVIEW_HIDDEN	AEF	8
DCDAIARV_XVIEW_READONLY	AEF	20
DCDAIARV_XVIEW_SHAREDWRITE	AEF	10
DCDAIARV_XV64COMMON_NO	B62	80
DCDAIARV_XV64LISTLENGTH	B3C	
DCDAIARV_XV64LISTPTR	B38	
DCDAIARV_XV64SELECT_NO	AEE	8
DCDAIARV_XV64SHARED_NO	AEE	2
DCDAIARVL	B98	B0
DCDAICB@	644	
DCDAIOCT	8C8	
DCDAIODA	898	
DCDAIOEL	644	
DCDAIOF1	8BD	
DCDAIOWA	8D0	898
DCDAKAWA	744	
DCDALEN	BE8	5E0
DCDALKND	6B8	
DCDALKST	6B0	
DCDALOBT	670	
DCDALOCR	8B4	
DCDALOW	880	
DCDALOWA	888	
DCDALPST	668	
DCDALSTK	8C4	
DCDALSTR	8C0	
DCDAMIDW	890	10
DCDAMSGW	7E0	
DCDAMSTN	860	
DCDAMXCC	8A4	
DCDAMXCD	8A8	
DCDAMXRG	8AC	
DCDANRTK	85C	
DCDAOBEC	7DC	
DCDAORG	AE8	
DCDAPCNT	61C	
DCDAPCPU	610	
DCDAPERF	61C	608
DCDAPGSV	968	
DCDAPIOC	618	
DCDAPPL	AE8	0
DCDAPSTR	608	

Table 145. Cross Reference for $DTECKDA (continued)

Name	Offset	Hex Tag
DCDAPTIM	608	
DCDAR	8BC	
DCDARCCT	8D0	
DCDARCNT	8B0	
DCDARDTD	890	40
DCDARPS	870	
DCDARSV	AE8	
DCDARSV_KEYUSED_CONTROL	AEE	80
DCDARSV_PL_END	B60	B68
DCDARSV_XANSAREA_ADDR3164	B18	
DCDARSV_XANSAREA_ALET	B4C	
DCDARSV_XANSLEN	B50	
DCDARSV_XCOND_NO	0	1
DCDARSV_XCOND_YES	0	2
DCDARSV_XCONTENTIONACT_FAIL	AEC	20
DCDARSV_XCONTROL	AEB	
DCDARSV_XCONTROL_DO_NOT_OVERRIDE	AED	10
DCDARSV_XCONTROL_EXCLUSIVE	AEB	2
DCDARSV_XCONTROL_SHARED	AEB	1
DCDARSV_XCONTROLVAL	AEB	
DCDARSV_XECB@	B54	
DCDARSV_XENQMAX_NO	AEC	4
DCDARSV_XENQTOKEN_ADDR3164	AF8	
DCDARSV_XENQTOKEN_ALET	B3C	
DCDARSV_XENQTOKENTBL_ADDR3164	B08	
DCDARSV_XENQTOKENTBL_ALET	B44	
DCDARSV_XFLAGS1	AEC	
DCDARSV_XFLAGS2	AED	
DCDARSV_XFLAGS3	AEE	
DCDARSV_XFLAGS4	AEF	
DCDARSV_XNUMRES	B5C	
DCDARSV_XOWNINGTTOKEN	B28	
DCDARSV_XQNAME	B20	
DCDARSV_XQNAME_DO_NOT_OVERRIDE	AEC	1
DCDARSV_XREQUEST_CHANGE	0	2
DCDARSV_XREQUEST_OBTAIN	0	1
DCDARSV_XREQUEST_RELEASE	0	3
DCDARSV_XRESERVEVOLUME_YES	AED	80
DCDARSV_XRESLIST_YES	AEC	8
DCDARSV_XRESTABLE_ADDR3164	AF0	
DCDARSV_XRESTABLE_ALET	B38	
DCDARSV_XRETURNTABLE_ADDR3164	B00	
DCDARSV_XRETURNTABLE_ALET	B40	
DCDARSV_XRNAME_ADDR3164	B10	
DCDARSV_XRNAME_ALET	B48	
DCDARSV_XRNAME_DO_NOT_OVERRIDE	AED	1
DCDARSV_XRNAMELEN	B5E	
DCDARSV_XRNAMELEN_DO_NOT_OVERRIDE	AEE	1
DCDARSV_XRNL_DO_NOT_OVERRIDE	AED	4

Table 145. Cross Reference for $DTECKDA (continued)

Name	Offset	Hex Tag
DCDARSV_XRNL_NO	AEC	2
DCDARSV_XRSVNNNN	B60	
DCDARSV_XRSV0000	AE9	
DCDARSV_XRSV0001	B5F	
DCDARSV_XSCOPE	AEA	
DCDARSV_XSCOPE_DO_NOT_OVERRIDE	AED	8
DCDARSV_XSCOPE_STEP	AEA	1
DCDARSV_XSCOPE_SYSPLEX	AEA	3
DCDARSV_XSCOPE_SYSTEM	AEA	2
DCDARSV_XSCOPE_SYSTEMS	AEA	3
DCDARSV_XSCOPEVAL	AEA	
DCDARSV_XSYNCHRES_DO_NOT_OVERRIDE	AED	2
DCDARSV_XSYNCHRES_NO	AED	20
DCDARSV_XSYNCHRES_YES	AED	40
DCDARSV_XTEST_YES	AEC	40
DCDARSV_XUCB@	B58	
DCDARSV_XUCB@_DO_NOT_OVERRIDE	AEF	1
DCDARSV_XVERSION	AE8	
DCDARSV_XWAITTYPE_ECB	AEC	10
DCDARSVL	B68	80
DCDARTCT	8CC	
DCDAR2ND	698	
DCDAR2ST	690	
DCDASAVE	8D8	
DCDATCAL	AE8	
DCDATRKC	858	
DCDATRKL	AF2	AE8
DCDAT1ND	688	
DCDAT1ST	680	
DCDAUCB	6F8	
DCDAUCBX	6FC	
DCDAULND	6C8	
DCDAULST	6C0	
DCDAVOL	72C	
DCDAV64L	0	B0
DCDAWCB@	63C	
DCDAWK16	628	
DCDAWORK	620	
DCDAWRND	6A8	
DCDAWRST	6A0	
DCDAWTRD	890	20
DCDAXTND	6E8	
DCDAXTST	6E0	
DCDA1ADJ	8BD	80
DCDA1INI	638	80
DCDA1STA	8BD	40
DCDA4KRC	86C	
DCDA4KST	868	
DCDCMLST	734	

Table 145. Cross Reference for $DTECKDA (continued)

Name	Offset	Hex Tag
DTE	0	
M00M1145	0	AE8
M00M1147	0	AE8

Chapter 65. $DTECKVR Information

$DTECKVR Heading Information

Common Name: HASP Checkpoint Version DTE work area
Macro ID: $DTECKVR
DSECT Name: DTE ($DTECKVR is part of the DTE DSECT)
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'DTE '
Offset: DTEID-DTE
Length: 4
Storage Attributes: Subpool: see $DTE
Key: see $DTE
Residency: see $DTE

Size: See the DTELEN equate for the length of the base DTE, and the DCKVLEN equate for the length of a checkpoint version DTE work area extension.
Created by: n/a
Created by $DTEDYN ATTACH during JES2 initialization. The subtask (and DTE) definitions are defined by the $DTETAB definitions.
Pointed to by: The $DTECKVR field of the $HCT data area points into $DTEORG/$DTELAST chain to the checkpoint versions DTE.
See $DTE for other pointer fields that apply to all DTE types.
Serialization: Serialized by the JES2 main task. Only one request may be processed at one time.
Function: The HASP Checkpoint Version/APPLCOPY Subtask DTE work area, $DTECKVR, defines the $DTE work area extension for that subtask. The mapping defines the fields after label DTEWORK.
This subtask maintains one or more versions of the checkpoint data set for use by authorized programs. When attached, it determines which of the two modes of checkpoint maintenance are in operation. In a Checkpoint Version, a data space is established and versions are created and maintained. In an Application Copy (APPLCOPY), the checkpoint is serviced in extended common or private storage. Both types are serviced by the same subtask.

$DTECKVR mapping

Table 146. Structure DTE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DTE	HASP Checkpoint Version subtask work area ext.
1544	(608)	DBL WORD	8	DCKVTSMP	Time of last 'full' sampling
1544	(608)	X'8'	0	DCKVLEN	"*-DTEWORK" LENGTH OF WORK AREA

Chapter 66. $DTECNV Information

$DTECNV Programming Interface Information

The following field is **NOT** programming interface information:

- DCNVDEBS

$DTECNV Heading Information

Common Name:	JCL Conversion subtask DTE work area
Macro ID:	$DTECNV
DSECT Name:	DTE ($DTECNV is part of the DTE DSECT)
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'DTE ' Offset: DTEID-DTE Length: 4
Storage Attributes:	Subpool: see $DTE Key: see $DTE Residency: see $DTE
Size:	See the DTELEN equate for the length of the base DTE, and the DCNVLEN equate for the length of a JCL conversion DTE extension.
Created by:	$DTEDYN ATTACH, called from the JCL conversion JES2 processor to ATTACH its associated JCL conversion subtask. The subtask (and DTE) definitions are defined in the $DTETAB tables.
Pointed to by:	The JPCEDTE field of the associated JCL conversion $PCE control block. The $DTECNVT pointer in the $HCT control block, pointing into the $DTEORG/$DTELAST chain, to the first JCL conversion $DTE control block. See $DTE for other pointer fields that apply to all DTE types.
Serialization:	This area is used serially by the JCL-conversion processor and its associated subtask. Other tasks can not use it. The chain fields should only be managed by the JES2 main task $DTEDYN and subtask RAS facilities.
Function:	The JCL-conversion subtask DTE work area DSECT, $DTECNV, describes the work area extension to the DTE for the JCL-conversion subtask. The mapping defines the fields after label DTEWORK. There are one or more JCL-conversion processors, defined by $PCE control blocks, in a JES2 address space. Each one attaches a subtask. The JES2 $DTEDYN service used for the ATTACH creates a DTE, mapped by the $DTE macro, with a function-specific extension, mapped by this macro. The DTE is the general control block used by JES2 to manage and communicate with its daughter tasks.

$DTECNV mapping

Table 147. Structure DTE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DTE	HASP CONVERSION SUBTASK WORK AREA
1544	(608)	ADDRESS	4	DCNVHCCT	HCCT address
1548	(60C)	ADDRESS	4	DCNVCIP	CIPARM parm area address
1552	(610)	SIGNED	4	DCNVCIPL	and ALET to access
1556	(614)	ADDRESS	4	DCNVCIW	31 bit CI work area address
1560	(618)	ADDRESS	4	DCNVCIWB	24 bit CI work area address
1564	(61C)	ADDRESS	4	DCNVCICB	CICB for owning addr space (zero if JES2 subtask)
1568	(620)	SIGNED	4	DCNVSAVE(15)	ESTAE REGISTER SAVE AREA
1628	(65C)	ADDRESS	4	DCNVSJBP	ADDRESS OF CONVERSION TASK SJB
1632	(660)	ADDRESS	4	DCNVJCTA	Address of JCT buffer (See DCNVXJCT below for use in EXIT 6)
1632	(660)	X'5C'	0	DCNVLEN	"*-DTEWORK" LENGTH OF THE CNVT DTE DSECT

Table 148. Structure DCNVPARM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DCNVPARM	, EXIT 6 parameter list
0	(0)	ADDRESS	4	DCNVUWAA	Address of user work area
4	(4)	ADDRESS	4	DCNVP2A	If R0=0 then internal text image address Else If R0=4 then converter return code address
8	(8)	ADDRESS	4	DCNVDTEA	Address of DTE
12	(C)	ADDRESS	4	DCNVXJCT	Address of JCT buffer
16	(10)	ADDRESS	4	DCNVCNMB	Address of converter message buffer

Table 149. Cross Reference for $DTECNV

Name	Offset	Hex Tag
DCNVCICB	61C	
DCNVCIP	60C	
DCNVCIPL	610	
DCNVCIW	614	
DCNVCIWB	618	
DCNVCNMB	10	
DCNVDTEA	8	
DCNVHCCT	608	
DCNVJCTA	660	
DCNVLEN	660	5C
DCNVPARM	0	
DCNVP2A	4	
DCNVSAVE	620	
DCNVSJBP	65C	
DCNVUWAA	0	

Table 149. Cross Reference for $DTECNV (continued)

Name	Offset	Hex Tag
DCNVXJCT	C	
DTE	0	

Chapter 67. $DTEEOM Information

$DTEEOM Heading Information

Common Name:	HASP End of Memory DTE work area
Macro ID:	$DTEEOM
DSECT Name:	DTE ($DTEEOM is part of the DTE DSECT)
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'DTE ' Offset: DTEID-DTE Length: 4
Storage Attributes:	Subpool: see $DTE Key: see $DTE Residency: see $DTE
Size:	See the DTELEN equate for the length of the base DTE, and the EMSLEN equate for the length of a End of Memory DTE work area extension.
Created by:	Created by $DTEDYN ATTACH during EOM PCE initialization. The subtask (and DTE) definitions are defined by the $DTETAB definitions.
Pointed to by:	The $DTEEOM field of the $HCT data area points into $DTEORG/$DTELAST chain to the End of Memory subtask DTEs. EOMDTE of the $EOMWORK data area See $DTE for other pointer fields that apply to all DTE types.
Serialization:	Serialized by the JES2 main task. Only one request may be processed at one time.
Function:	The HASP End of Memory DTE work area, $DTEEOM, defines the $DTE work area extension for that subtask. The mapping defines the fields after label DTEWORK. This subtask deals with SJBs on the End-of-Memory queue. JES2 resource cleanup is performed here. The SJB is placed on the work queue for this DTE by MVS EOM SSI support.

$DTEEOM mapping

Table 150. Structure DTE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DTE	
1544	(608)	ADDRESS	4	EMSSJB	Address of SJB
1548	(60C)	ADDRESS	4	EMSPCE	Address of our PCE
1552	(610)	DBL WORD	8	(0)	Ensure alignment
1552	(610)	X'8'	0	EMSLEN	"*-DTEWORK" Length of work area

Chapter 68. $DTEIMG Information

$DTEIMG Programming Interface Information

$DTEIMG is a programming interface.

$DTEIMG Heading Information

Common Name: HASPIMAG subtask DTE Work Area
Macro ID: $DTEIMG
DSECT Name: DTE ($DTEIMG is part of the DTE DSECT)
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'DTE '
Offset: DTEID-DTE
Length: 4
Storage Attributes: Subpool: See $DTE
Key: See $DTE
Residency: See $DTE

Size: See the DTELEN equate for the length of the base DTE, and DIMGLEN for the length of a HASPIMAG subtask DTE extension.
Created by: Created by $DTEDYN ATTACH during JES2 initialization. The subtask (and DTE) definitions are defined by the $DTETAB definitions.
Pointed to by: DIMG origin begins at the DTE work area extension field DTEWORK. The HASPIMAG DTE chain head ($DTEIMAG) is located in the HCT. See $DTE for other pointer fields that apply to all DTE types.
Serialization: This work area is used serially by the HASPIMAG subtask. No special serialization is necessary.
Function: $DTEIMG maps DTE work area extension for HASPIMAG subtasks.
The mapping defines the fields after label DTEWORK.

$DTEIMG mapping

Table 151. Structure DTE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DTE	HASPIMAG DTE WORK AREA EXTENSION
1544	(608)	CHARACTER	8	DIMGNAME	NAME OF LOADED MODULE
1544	(608)	X'60B'	0	DIMGBYT3	"DIMGNAME+3" IMAGE NAME PREFIX BYTE
1552	(610)	SIGNED	4	DIMGDCB	ADDRESS OF IMAGELIB DCB
1556	(614)	SIGNED	4	DIMGBFAD	BUFFER ADDRESS FOR ESTAE
1560	(618)	SIGNED	4	DIMGABCC	ABEND COMP CODE FOR RETRY
1564	(61C)	SIGNED	4	DIMGSDCB	ADDRESS OF PRT DCB FOR SETPRT
1568	(620)	CHARACTER	80	DIMGMSG	MESSAGE AREA
1648	(670)	BITSTRING	1	DIMGFLG1	IMAGE LOADER FLAG BYTE
1652	(674)	ADDRESS	4	DIMGLOAD	ADDRESS OF EP OR DE PARAMETER

Table 151. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1656	(678)	ADDRESS	4		DCB ADDRESS PARAMETER
1660	(67C)	ADDRESS	1		PARAMETER LIST FORMAT NUMBER
1661	(67D)	ADDRESS	1		RESERVED
1662	(67E)	BITSTRING	1		OPTIONS
1663	(67F)	BITSTRING	1		OPTIONS
1664	(680)	ADDRESS	4		EXPLICIT LOAD, LOADPT, EXTINFO
1664	(680)	X'10'	0	DIMGLLEN	"*-DIMGLOAD" Length of parm list
		1...		DIMG1ABD	"B'10000000'" IMAGE LOADER ABEND FLAG
		.1..		DIMG1DEL	"B'01000000'" DELETE RTN FLAG IN ESTAE
1664	(680)	X'7C'	0	DIMGLEN	"*-DTEWORK" LENGTH OF WORK AREA

Table 152. Cross Reference for $DTEIMG

Name	Offset	Hex Tag
DIMGABCC	618	
DIMGBFAD	614	
DIMGBYT3	608	60B
DIMGDCB	610	
DIMGFLG1	670	
DIMGLEN	680	7C
DIMGLLEN	680	10
DIMGLOAD	674	
DIMGMSG	620	
DIMGNAME	608	
DIMGSDCB	61C	
DIMG1ABD	680	80
DIMG1DEL	680	40
DTE	0	

Chapter 69. $DTEMIGR Information

$DTEMIGR Heading Information

Common Name: HASP Spool Migrator DTE Work Area
Macro ID: $DTEMIGR
DSECT Name: DTE ($DTEMIGR is part of the DTE DSECT)
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'DTE '
Offset: DTEID-DTE
Length: 4
Storage Attributes: Subpool: See $DTE
Key: See $DTE
Residency: See $DTE

Size: See the DTELEN equate for the length of the base DTE, and MGRLLEN for the length of a Spool Migrator Work Area DTE Extension.
Created by: Created by $DTEDYN ATTACH during JES2 spool migration. The subtask (and DTE) definitions are defined by the $DTETAB definitions.
Pointed to by: The $DTEMIG field of the $HCT data area points into $DTEORG/$DTELAST chain to the first HOSMIGR DTE. See $DTE for other pointer fields that apply to all DTE types.
Serialization: This work area is used serially by the owning HOSMIGR subtask. No special serialization is necessary at this time.
Function: The Spool Migrator DTE work area DSECT, $DTEMIGR, defines a work area used a JES2 Spool Migrator Subtask (HOSMIGR).
The mapping defines the fields after label DTEWORK.
This mapping is only used to map DTEs with the value DTEIDMGR in the field DTESTID, indicating this DTE is a Spool Migrator Subtask DTE.

$DTEMIGR mapping

Table 153. Structure DTE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DTE	Spool migrator work area
1544	(608)	CHARACTER	1	MGRSTART(0)	Start of MGR mapping
1544	(608)	ADDRESS	4	MGPSTSPL	Address of XECB subtask will post when work is complete.

Table 153. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		SPOL PCE drives the migration: Migration request flag - only set by SPOL PCE The SPOL PCE waits for the following operations to complete. Each should be very quick. -- Migration initialization -- Migration cancel start -- Migration un-initiation but not: -- Perform phase 1 (SPOL PCE monitors completion) -- Perform phase 2 " " " -- Migration cancel (SPOL PCE monitors completion)			
1548	(60C)	BITSTRING	1	MGR1REQU	Migration request
		....		MGR1NORE	"X'00'" No active request
		.... .1..		MGR1INIT	"X'04'" Migration initialization
		.... 1...		MGR1PHA1	"X'08'" Perform phase 1
		.... 11..		MGR1PHA2	"X'0C'" Perform phase 2
		...1		MGR1UNIN	"X'10'" Migration un-initialization
		...1 .1..		MGR1CANC	"X'14'" Migration cancel
		Subtask error flag 1: Set by migrator subtask. for interpretation by SPOL PCE.			
1549	(60D)	BITSTRING	1	MG1ERFL1	Subtask error flag 1 - set by subtask for SPOL information/action.
		1...		MG1ERABN	"B'10000000'" Sub-task ABENDed
		.1..		MG1MGBAD	"B'01000000'" MG$VOLSER mailbox could not be created.
		..1.		MG1RNBAD	"B'00100000'" RN$VOLSER mailbox could not be created.
		...1		MG1BITMB	"B'00010000'" Track level bitmap(s) could not be created.
		.... 1...		MGATTACH	"B'00001000'" Attach of unique XCF group failed.
		HOSPMIGR subtask waits on a ECBLIST. This subtask has the responsibility of moving data from source to target. The ECBs in the list funnel both: -- Requests made of the subtask (via SPOL PCE) -- and acknowledgements of requests which the HOSPMIGR subtask has outstanding. This subtask is driven by the SPOL PCE and the migration state kept in the source DAS. Start of ECB list			
1552	(610)	SIGNED	4	MGECBLST(0)	List of ECBs to wait on
1552	(610)	ADDRESS	4	MGSPOLP	Address of work ECB. Handles posts/requests from SPOL PCE.
1556	(614)	SIGNED	4	MGECBLS2(0)	Start ECB for cancel
1556	(614)	ADDRESS	4	MGGENERP	Address of ECB for general timer. Posted when set time interval expires.
1560	(618)	ADDRESS	4	MGHEARTP	Address of ECB for heart beat timer. Used to broadcast migrator info on a timely basis and check for excessive waits.

Table 153. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1564	(61C)	ADDRESS	4	MGMGVOLP	Address of ECB for JESXCF mail box notification. This ECB is posted when mail arrives from spool assistant subtasks. Mail box name - MG$VOLSER.
1568	(620)	ADDRESS	4	MGRNVOLP	Address of ECB for JESXCF mail box notification. This ECB is posted when mail arrives from MAS member runtime I/O. Mailbox name - RN$VOLSER.
1572	(624)	ADDRESS	4	MGRNIOP	Address of ECB for I/O I/O completion processing. This ECB is posted when a call to MIGRCOPY is needed.
1576	(628)	ADDRESS	4	MGRNXRQP	Address of ECB for I/O permission completion. This ECB is posted when an XREQ is added to the completed XREQ queue.
		End of ECB list			
1580	(62C)	BITSTRING	4	MGRNOCMP	Current "memb active table" used to track acknowledgements from migration assistant members. Used to track ACKS for following phase transitions. -- Start phase 1 -- Start phase 2 -- End migration -- Cancel migration
1584	(630)	BITSTRING	4	MGRMGSTS	Current "memb active table" used to broadcast migr status message to migration assistants
1588	(634)	BITSTRING	4	MGACTCPY	Copy of original "member @Z21AQ active table" used to @Z21AQ broadcast messages to migration assistants. Used for DIAG.
1592	(638)	SIGNED	4	MGEXITID	Unique exit ID for $MSTNTFY service
		HOSPMIGR timer stuff			
1596	(63C)	SIGNED	4	MGGENERE	ECB - Phase 1 and cancel general purpose timer
1600	(640)	SIGNED	4	MGGENEID	STIMERM ID=id-area of general purpose timer
1604	(644)	SIGNED	4	MGHEARTE	ECB - Heart beat timer
1608	(648)	SIGNED	4	MGHEARID	STIMERM ID=id-area of heart beat timer
		End timer stuff			
1612	(64C)	SIGNED	4	(0)	Ensure alignment
1616	(650)	DBL WORD	8	MGRWRKA	Work area 1
1624	(658)	SIGNED	4	MGRWRKB	Work area 2
1628	(65C)	ADDRESS	4	MGSRMOBJ	Temporary holding area for migration object address
		Following is used to cut selective WTO when source and/or target datasets are lost during phase 1 or phase 2 processing.			

Table 153. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1632	(660)	BITSTRING	1	MGPATHL	Path lost indicator
		1...		MGPATHS	"B'10000000'" Path to SRC dataset lost
		.1..		MGPATHT	"B'01000000'" Path to TARG dataset lost
		..1.		MGPRERR	"B'00100000'" Recovery TLBM read error
		...1		MGPWTLB	"B'00010000'" TLBM write error
1633	(661)	BITSTRING	3		Reserved for future use
		Excessive wait accumalator - 1/100 sec granularity			
1636	(664)	SIGNED	2	MGEWAIT	Wait time
1638	(666)	BITSTRING	2		Reserved for future use
1640	(668)	SIGNED	4	(7)	Reserved for future use
		Migration specific information (General info)			
1668	(684)	BITSTRING	1	MGRFLG3	Migration specifics
		1...		MGR3MER	"B'10000000'" Migration is a merge
		.1..		MGR3MOV	"B'01000000'" Migration is a move
		..1.		MGRNOCA	"B'00100000'" Migration cannot be cancelled.
		...1		MGR3CANC	"B'00010000'" Migration is being cancelled.
		.... 1...		MGR3CACK	"B'00001000'" Cancel ACK has been recv'ed from all assistants.
		Phase 1 status flags - phase 1 is complete when all conditions are satisfied.			
1669	(685)	BITSTRING	1	MGRFLG4	Phase 1 status flags
		1...		MGR4COPY	"B'10000000'" Source to target copy is complete
		.1..		MGR4PH1A	"B'01000000'" All migration assistants have acknowledge start of phase 1 processing
		..1.		MGR4WAIS	"B'00100000'" Subtask requested cancel - either I/O error or not able to obtain storage (24, 31 or 64). See MGRSERR below.
		Phase 2 status flags - phase 2 is complete when all conditions are satisfied.			
1670	(686)	BITSTRING	1	MGRFLG5	Phase 2 status flags
		1...		MGR5PH2A	"B'10000000'" All migration assistants have acknowledged start of phase 2 processing
		.1..		MGR5CATC	"B'01000000'" Source to target catchup is complete
		..1.		MGR5COMP	"B'00100000'" All migration assistants have acknowledged successfuli migration completion.

Table 153. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		MGR5CLER	"B'00010000'" RN$VOLSER mailbox has been cleared in SMGPHAS2 and/or SMGCANCE subroutine.
		.... 1...		MGR5WAIT	"B'00001000'" Phase 2 final wait is complete.
		.... .1..		MGR5WAIS	"B'00000100'" Subtask requested cancel - either I/O error or not able to obtain storage (24, 31 or 64). See MGRSERR below.
		.... ..1.		MGR5TSET	"B'00000010'" Phase 2 final timer has been set.
		1		MGR5TLBM	"B'00000001'" TLBM has been written
		Phase 2 status flag - second status flag all conditions are satisfied.			
1671	(687)	BITSTRING	1	MGRFLG52	Phase 2 - second status flg
		1...		MGR52PER	"B'10000000'" Permanent I/O error was was encountered and WTOR presented to operator. ForceConplete was selected so do not ask user again.
		.1..		MGR5CACK	"B'01000000'" Phase 2 was called in recovery/resume mode and determined migation is not cancellable. Phase 2 resumes operation
		Cancellation status flags - cancellation is complete when all conditions are satisfied.			
1672	(688)	BITSTRING	1	MGRFLG6	Phase 1 status flags
		1...		MGR6TSET	"B'10000000'" Cancel final timer has been set.
1673	(689)	BITSTRING	1	MGRPERCE	Percent complete
		Source dataset information -- Set by SPOL PCE after HOSPMIGR is attached and before subtask initiation request. -- Move and merge.			
1674	(68A)	CHARACTER	6	MGRSRVOL	Source volser
1680	(690)	BITSTRING	1	MGRSREXT	Binary extent number
1684	(694)	SIGNED	4	(0)	Ensure alignment
1684	(694)	BITSTRING	1	MGRSRDEB	Source DEB
1684	(694)	X'694'	0	MGRSRDBB	"MGRSRDEB,DEBBASIZ" DEB basic
1684	(694)	X'6B4'	0	MGRSRDBE	"MGRSRDEB+DEBBASIZ,DEBEXLEN" Single DA extent
1732	(6C4)	BITSTRING	64	MGRSRRPS	RPS Table for source
1796	(704)	ADDRESS	4	MGRSRDAS	Source DAS address

Table 153. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Bitmap information for source dataset. -- The following fields are set during subtask initiation. -- Valid for move and merge. Bitmaps. - Phase 1 bitmap denotes which tracks need be migrated from source to target. Bitmap is primed by with used tracks by SPOl PCE in DAS7SET2 (move) or DAS7SET3 (merge). This map is used for initial source to target copy. 1 bit -> 1 track. - Runtime bitmap - used to tally which tracks have changed since the migration begin. Map is used in phase 2 in determining which tracks must be re-migrated or caught up.			
1800	(708)	DBL WORD	8	(0)	Ensure alignment
1800	(708)	ADDRESS	8	MGRSBITA	Address of phase 1 bitmap in 64 bit private.
1808	(710)	ADDRESS	8	MGRSBITB	Address of runtime bitmap in 64 bit private.
1816	(718)	SIGNED	4	MGRSBTRK	Track capacity of bitmap
1820	(71C)	SIGNED	4	MGRSBITR	Number of records needed to store the track level bitmap (MGRSBITB)
1824	(720)	SIGNED	4	MGRNUMRQ	Total number of tracks which must be migrated for this migration.
1828	(724)	SIGNED	4	MGRNUMMG	Number of tracks that have been migrated
1832	(728)	SIGNED	4	MGRMIGRC	Number of tracks required on target dataset to house master level bitmap and other migrator recovery data.
1836	(72C)	SIGNED	4	MGRSBTAS	Relative track at which the track level bitmap starts on target volume
1840	(730)	ADDRESS	4	MGRBMHDR	Header areas for runtime bitmap (one entry per record written to SPOOL)
1844	(734)	SIGNED	4	MGRBMHDL	Length of MGRBMHDR workarea
		Source dataset track level information. All fields are relevant for move and merge.			
1848	(738)	SIGNED	4	(0)	Ensure alignment
1848	(738)	SIGNED	4	MGASRCST	Absolute track at which source dataset starts. Set by SPOL PCE in DAS7SET2 OR DAS7SET3. Valid for absolute and relative addressing.
1852	(73C)	SIGNED	4	MGRSRCST	Relative track at which source dataset starts. Set by SPOL PCE in DAS7SET2 OR DAS7SET3. Only valid if source DAS is using relative addressing.

Table 153. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1856	(740)	SIGNED	4	MGASRCHI	Highwater track - last ABSOLUTE source track which needs to be written. Set by SPOL PCE in DAS7SET2 OR DAS7SET3. Valid for absolute and relative addressing.
1860	(744)	SIGNED	4	MGRSRTRK	Number of tracks required to house source dataset - up to highwater mark. Set by SPOL PCE in DAS7SET2 or DAS7SET3.
1864	(748)	SIGNED	4	MGRSRTRC	Tracks per cylinder
		Source DAS TG information - Move and Merge			
1868	(74C)	SIGNED	4	MGRSRBYT	Original number of source TGM bytes.
1872	(750)	SIGNED	4	MGRHITG	Source DAS TG associated with highwater mark.
		Source DAS record level information - Move and merge.			
1876	(754)	SIGNED	4	MGRSRECT	Number of records per track
		Other source dataset information			
1880	(758)	BITSTRING	1	MGRSRINF	Info
		1...		MGRALLOC	"B'10000000'" Migrator allocated SRC DAS dataset in phase DAS7SET1. Will need to be deallocated in phase DAS7CLUP (backout or non-backout caller). Set by SPOL PCE during phase DAS7SET1.
		.1..		MGRSRREL	"B'01000000'" Source DAS addressing type is relative. If not set then type is absolute.
		..1.		MGRSECKD	"B'00100000'" Extent is on ECKD device
		...1		MGRSRDTD	"B'00010000'" Extent supports read track data CCW
		.... 1...		MGRSWTRD	"B'00001000'" Extent supports write track data CCW
		Following fields are used if the source dataset must be deallocated in phase DAS7CLU1. This would be required if the source DAS was inactive state. This state is denoted by MGRSRINF = MGRALLOC.			
1881	(759)	BITSTRING	32	MGRENQTK	ISGENQ token - Set by SPOL PCE - phase DAS7SET1.
1916	(77C)	SIGNED	4	(0)	Ensure alignment
		End of source dataset information Target dataset information -- Move and merge. SPOL PCE sets all target information before phase 1 start. Set at size verification time in phase DAS7SET2 or DAS7SET3.			

Table 153. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1916	(77C)	CHARACTER	6	MGRTGVOL	Target volser. Set by SPOL PCE after HOSPMIGR is attached.
1922	(782)	BITSTRING	1	MGRTGEXT	BINARY EXTENT NUMBER
1924	(784)	SIGNED	4	(0)	Ensure alignment DATA CONTROL BLOCK
1924	(784)	SIGNED	4	MGRDCBMF(0)	ORIGIN ON WORD BOUNDARY DIRECT ACCESS DEVICE INTERFACE
1924	(784)	ADDRESS	4		DCBE ADDRESS
1928	(788)	BITSTRING	12		FDAD, DVTBL
1940	(794)	ADDRESS	4		KEYLEN, DEVT, TRBAL COMMON ACCESS METHOD INTERFACE
1944	(798)	ADDRESS	1		BUFNO, NUMBER OF BUFFERS
1945	(799)	ADDRESS	3		BUFCB, BUFFER POOL CONTROL BLOCK
1948	(79C)	ADDRESS	2		BUFL, BUFFER LENGTH
1950	(79E)	BITSTRING	2		DSORG, DATA SET ORGANIZATION
1952	(7A0)	ADDRESS	4		IOBAD FOR EXCP OR RESERVED FOUNDATION EXTENSION
1956	(7A4)	BITSTRING	1		BFTEK, BFALN, DCBE INDICATORS
1957	(7A5)	ADDRESS	3		EODAD (END OF DATA ROUTINE ADDRESS)
1960	(7A8)	BITSTRING	1		RECFM (RECORD FORMAT)
1961	(7A9)	ADDRESS	3		EXLST (EXIT LIST ADDRESS) FOUNDATION BLOCK
1964	(7AC)	CHARACTER	8		DDNAME
1972	(7B4)	BITSTRING	1		OFLGS (OPEN FLAGS)
1973	(7B5)	BITSTRING	1		IFLGS (IOS FLAGS)
1974	(7B6)	BITSTRING	2		MACR (MACRO FORMAT)
DATA CONTROL BLOCK EXTENSION.					
1976	(7B8)	SIGNED	4	MGRDCBE(0)	0 Alignment and identifier
1980	(7BC)	SIGNED	2		4 Length of DCBE, minimum is 56
1982	(7BE)	BITSTRING	2		6 Reserved, should be zero
1984	(7C0)	ADDRESS	4		8 0 if not open, OPEN points to DCB
1988	(7C4)	BITSTRING	4		C Disk address of current member
1992	(7C8)	BITSTRING	1		10 Flags set by system
1993	(7C9)	BITSTRING	1		11 Flags set by user
1994	(7CA)	SIGNED	2		12 Number of stripes if extended format
1996	(7CC)	BITSTRING	1		14 Flags set by user
1997	(7CD)	BITSTRING	3		15 Reserved
2000	(7D0)	BITSTRING	4		18 Reserved
2004	(7D4)	ADDRESS	4		1C Block size
2008	(7D8)	BITSTRING	8		20 Reserved & number of blocks in ds
2016	(7E0)	ADDRESS	4		28 End of data routine address or 0
2020	(7E4)	ADDRESS	4		2C I/O error routine (synchronous) or 0
2024	(7E8)	BITSTRING	6		30 Reserved, should be zero
2030	(7EE)	ADDRESS	1	(2)	36 MULTACC and MULTSDN
SHORTEST POSSIBLE DCBE IN ANY RELEASE.					

Table 153. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2030	(7EE)	X'784'	0	MGRDCB	"MGRDCBMF,*-MGRDCBMF" DCB/DCBE length
2032	(7F0)	BITSTRING	1	MGRTGDEB	Target DEB. Set by SPOL PCE when available.
2032	(7F0)	X'7F0'	0	MGRTGDBB	"MGRTGDEB,DEBBASIZ" DEB basic
2032	(7F0)	X'810'	0	MGRTGDBE	"MGRTGDEB+DEBBASIZ,DEBEXLEN" Single DA extent
2080	(820)	BITSTRING	64	MGRTGRPS	RPS Table for this device Set by SPOL PCE when available.
		Target dataset track level information. All fields are relevant for move and merge.			
2144	(860)	SIGNED	4	MGATGSTR	Absolute track at which target dataset starts. Set by SPOL PCE in DAS7SET2 OR DAS7SET3.
2148	(864)	SIGNED	4	MGATGWRT	Absolute track at which to write data. Set by SPOL PCE in DAS7SET2 OR DAS7SET3.
2152	(868)	SIGNED	4	MGRTGWRT	Relative track at which to write data. Set by SPOL PCE in DAS7SET2 or DAS7SET3.
2156	(86C)	SIGNED	4	MGRTGTRK	Number of tracks in target dataset. Set by SPOL PCE in DAS7SET2 or DAS7SET3.
2160	(870)	SIGNED	4	MGRTGTRC	Tracks per cylinder
2164	(874)	SIGNED	4	MGRTDAST	Target DASSTRK value
		Target TGM information			
2168	(878)	SIGNED	4	MGATGTTG	Tracks per TG. Set by SPOL PCE in DAS7SET2 or DAS7SET3. Valid for move and merge.
2172	(87C)	SIGNED	4	MGRTGTG	Number of TGs in target
2176	(880)	SIGNED	4	MGRTGBYT	Number of bytes in target TGM. Only move.
2180	(884)	SIGNED	4	MGRTGSTT	Start TG reserved in target DAS TGM for pending migration. This is one based. Valid for merge only.
2184	(888)	SIGNED	4	MGRTGENT	End TG reserved in target DAS TGM for pending migration. This is one one based. Valid for merge only.
		Target DAS record level information - Move and merge.			
2188	(88C)	SIGNED	4	MGRTRECT	Number of records per track
		Other target dataset information			
2192	(890)	BITSTRING	1	MGRTGINF	Info
		1...		MGRTECKD	"B'10000000'" Extent is on ECKD device
		.1..		MGRTRDTD	"B'01000000'" Extent supports read track data CCW
		..1.		MGRTWTRD	"B'00100000'" Extent supports write track data CCW

Table 153. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		MGRTSRPS	"B'00010000'" Device supports RPS
		End of target dataset information Migration recovery section - these fields are set by MIGRRECV (Migration recovery) and DADMSET1 in recovery mode. MIGRRECV calls DADMSET1 to jump start the recovery. Mailbox discussion: MG$VOLSER and RN$VOLSER - Normal migration - when creating mailboxes - both are cleared to assure we don't pickup stale messages. - Recovery -- FULL-RECOVERY (see below). This would be single member warm OR hot start. Here we do not clear these mailboxes since our member was the original migrator. -- MIGRATOR-RECOVERY (see below). Our member is becoming the migrator on behalf of another member. Such as migrator-takeover. Here we clear the mailboxes to assure no stale messages.			
2193	(891)	BITSTRING	1	MGRRECOV	Info
		1...		MGMEMREC	"B'10000000'" Migration recovery is being performed.
		.1..		MGMEMCAN	"B'01000000'" Recovery action is to cancel current phase - represented by SRC DAS7PHAS.
		..1.		MGFULL	"B'00100000'" FULL-RECOVERY. Given source DAS - our member becomes migrator and our migration assistant is also initialized.
		...1		MGMIGRAT	"B'00010000'" MIGRATOR-RECOVERY. Given source DAS our member becomes migrator. Our migration assistant is OK.
		.... 1...		MGASSIST	"B'00001000'" ASSISTANT-RECOVERY. Given source DAS just recover our migration assistant
		.... .1..		MGABEND	"B'00000100'" Migrator DTE ABEND recovery
		End - Migration recovery section Subtask status If subtask I/O error - them MGRSERR is set so SPOL PCE subroutine DADMPHA1 or DASMPHA2 may cut the appropriate message.			
2194	(892)	BITSTRING	1	MGRSERR	Phase 1-2 subtask error id

Table 153. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Migration subtask work state. MGR3TSTAT is current work being performed by the subtask - this is more granular than MGR1REQU. Some of these states may be materializable via the $DSPL command. Only set by the subtask and may be interpeted by SPOL PCE. Some general statements here: need not be repeated below: -- When subtask sends messages to migration assistants the MGMECUR - current members up table is used on the broadcast meesage. -- The MIGR$ASST mailbox is used to send broadcast messages to migration assistant subtask(s). -- When waiting for ACKS from spool assistant subtask -- the migration subtask waits on MG$VOLSER mailbox.			
2195	(893)	BITSTRING	1	MGR3STAT	Current subtask work state
		....		MGR3NOST	"X'00'" No active state.
		.... .1..		MGR3INIT	"X'04'" Migration initiation: Migration subtask is creating source level track bitmaps, MG$VOLSER and RN$VOLSER mailboxes.
		.... 1...		MGR3AWP1	"X'08'" Migration initiation complete -- awaiting start of phase 1 from SPOL PCE.
		.... 11..		MGR3AW01	"X'0C'" Phase 1: start Broadcast phase 1 start message to all migration assistants. Actively handling I/O permission requests.
		...1		MGR3COPY	"X'10'" Phase 1: copy All phase 1 ACKs were received. Performing source to target dataset copy. Actively handling I/O permission requests.
		...1 .1..		MGR3AWP2	"X'14'" Subtask has completed phase 1 and is waiting for start of phase 2. SPOL PCE will eventually request phase 2 start. Subtask is still actively processing "IO permission" requests
		...1 1...		MGR3PER2	"X'18'" Phase 2: Cancellable Broadcast phase 2 start message to all migration assistants. Waiting ACKs. Not processing I/O permission messages.
		...1 11..		MGR3PERN	"X'1C'" Phase 2: Non-cancellable All ACKs received - subtask is performing copy catch-up and handling I/O permission messages.

Table 153. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		MGR3ENDR	"X'20'" Migration end message has been broadcast to all assistants - waiting ACKs. I/O permission messages handled.
		..1. .1..		MGR3ENDC	"X'24'" Migration end complete Subtask waiting for request from SPOL PCE.
		..1. 1...		MGR3REQC	"X'28'" Migrator has run into an error and migration must be cancelled. Awaiting SPOL PCE to inititate cancel.
		..1. 11..		MGR3CNCL	"X'2C'" Migration cancel msg has been broadcast to all assistants - waiting ACKs. I/O permission messages handled.
		..11		MGR3CNCM	"X'30'" Migration cancellation complete. Subtask waiting for request from SPOL PCE.
		..11 .1..		MGR3P2CM	"X'34'" Phase2 complete
		..11 1...		MGR3UNIT	"X'38'" Migration termination: Track bitmaps, MG$VOLSER and RN$VOLSER mailboxes are deallocated.
		End Subtask status Migration copy service work areas			
2200	(898)	ADDRESS	8	MGRIBUFR	Address of buffer work area
2208	(8A0)	DBL WORD	8	MGRIBUFP	Number of 4K pages in area
2216	(8A8)	DBL WORD	8	MGRIWTKN	IARV64 memory token
2224	(8B0)	SIGNED	4	MGRIBUFC	Number of buffers built
2228	(8B4)	SIGNED	4	MGRI31WL	Length of 31 bit CCW area
2232	(8B8)	ADDRESS	4	MGRI24WK	24 bit I/O work area
2236	(8BC)	BITSTRING	1	MGRIFLG1	Migration copy I/O flags
		1...		MGRI1SRC	"B'10000000'" I/O error on source
		.1..		MGRI1TRG	"B'01000000'" I/O error on target
2237	(8BD)	BITSTRING	3		Reserved
		Buffers move from the free chain, to the active read chain when EXCP read is started. When read completed they are moved to the pending write chain. Once the the EXCP write is started, the buffer moves to the write chain. Once the write completes it is returned to the free chain.			
2240	(8C0)	ADDRESS	8	MGRIFREE	Free track buffers
2248	(8C8)	ADDRESS	8	MGRIREAD	Active read buffers
2256	(8D0)	ADDRESS	8	MGRIPEND	Pending write buffers
2264	(8D8)	ADDRESS	8	MGRIWRIT	Active write buffers
2272	(8E0)	ADDRESS	4	MGRIBATI	Address of BAT(s) for read
2276	(8E4)	ADDRESS	4	MGRIBATO	Address of BAT(s) for write
2280	(8E8)	ADDRESS	8	MGRIBITM	Current bit map to use
2288	(8F0)	SIGNED	4	MGRILTRK	Last track read (-1=>done)
2296	(8F8)	DBL WORD	8	MGRIWORK	General work area

Table 153. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2304	(900)	SIGNED	4	MGRIECB	I/O request ECB (Call MIGRCOPY when posted)
		Write track level bitmap (MIGRTLBW) work areas			
2308	(904)	ADDRESS	4	MGRWBSTR	Work area used by service
2312	(908)	SIGNED	4	MGRWBSTL	Length of work area
		I/O permission XREQ queues New XREQs permission requests should be added to MGRIXRQW using $FIFOENQ (CHAIN=XRETCHAN-XREQ). These are pocessed by MIGRCOPY (moved to the MGRIXRQA stack while active). Once the I/O completes, the XREQs are added to the MGRIXRQC and MGRIXRQE ECB is posted. XREQs on the MGRIXRQC queue should be removed with $FIFODEQ (CHAIN=XRETCHAN-XREQ) and ACKed using JESXCF.			
2320	(910)	DBL WORD	8	MGRIXRQW(0)	XREQs pending
2320	(910)	ADDRESS	4	MGRIXRQF	chain
2324	(914)	ADDRESS	4	MGRIXRQB	(managed by $FIFOENQ)
2328	(918)	ADDRESS	4	MGRIXRQA	XREQs active in I/O
2336	(920)	DBL WORD	8	MGRIXRQC(0)	Completed XREQ
2336	(920)	ADDRESS	4	MGRIXRCF	chain
2340	(924)	ADDRESS	4	MGRIXRCB	(managed by $FIFOENQ)
2344	(928)	SIGNED	4	MGRIXRQE	Completed XREQ ECB
		Mailbox information: MG$VOLSER: Spool migration mail box - handles ACKS from migrations subtasks and also other information sent during phase 1 and 2. Note: VOLSER uniquely ties this mailbox to a migration. One per migration. RN$VOLSER: Runtime mailbox - RN$VOLSER -- Handles runtime "IO permission" requests in phase 1 and 2. Note: VOLSER uniquely identifies this mailbox from a migration perspective.			
2348	(92C)	BITSTRING	1	MGMAILST	Mailbox info
		1...		MGMG_CRT	"B'10000000'" MG$VOLSER has been created
		.1..		MGRN_CRT	"B'01000000'" RN$VOLSER has been created
		..1.		MGATTH	"B'00100000'" Migrator performed attach of unique XCF group and must also perform detach
2349	(92D)	CHARACTER	16	MGMGVOLS	Note: last 6 characters must be volser name.
2365	(93D)	CHARACTER	16	MGRNTIME	Note: last 6 characters must be volser name.
2381	(94D)	CHARACTER	8	MGGROUP	Note: migration XCF group name. Note: XXX is source DASEXTNO in printable decimal.
2389	(955)	CHARACTER	16	MGRMEMNM	Member name - used for attach of XCF group
2408	(968)	SIGNED	4	MGJDIAG	JESXCF service diag area

Table 153. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2412	(96C)	ADDRESS	4	MGGRPTKN	JESXCF group token used for MG$VOLSER and RN$VOLSER mailbox creation
2416	(970)	SIGNED	4	MGRBOX1	ECB - MG$VOLSER mailbox.
2420	(974)	SIGNED	4	MGRBOX2	ECB - RN$VOLSER mailbox.
2424	(978)	ADDRESS	4	MGRSENDA	Address of send buffer used for $XBCAST and also "I/O permission" message ACK response.
2428	(97C)	SIGNED	4	MGRSENDL	Length of message to send
2432	(980)	ADDRESS	4	MGRXBUFA	Address of received data
2436	(984)	SIGNED	4	MGRXBUFL	Received message length
2440	(988)	ADDRESS	4	MGRASSSN	Address of send buffer for MIGR$ASST mailbox.
2444	(98C)	SIGNED	4	MGR#IOCM	When subroutine SMGIOPER is called this is the maximum number of I/O permission messages to process.
2448	(990)	ADDRESS	1	MGRBTYPE	Broadcast type See $XREQ - XREQINFO XREQPHA1 - phase 1 start XREQPHA2 - phase 2 start XREQCNCL - cancel complete XREQEND - end migration
2456	(998)	DBL WORD	8	MGRXTOKN	Current XCF message token
	MACDATE = 08/19/88				
2464	(9A0)	BITSTRING	24	MGRSTMST	REMOTE STIMERM SET PARM LIST
2464	(9A0)	X'18'	0	MGRSTMSL	"*-MGRSTMST" List form length
	Input parameters for SPMINIFM (mapped by SFMPARM in HASPSPOL)				
2488	(9B8)	BITSTRING	1	MGRMFPRM	SPMINIFM parameter list
	Migration timing/count statistics Phase specific times (micro-seconds) and counts				
2520	(9D8)	DBL WORD	8	MGRTINTT	Init phase time (micro)
2528	(9E0)	DBL WORD	8	MGRTSETT	Setup phase time (micro)
2536	(9E8)	DBL WORD	8	MGRTCPYT	Copy phase time (micro)
2544	(9F0)	SIGNED	4	MGRTCPYC	Copy phase track count
2548	(9F4)	SIGNED	4	MGRTCPYM	Copy phase message count
2552	(9F8)	DBL WORD	8	MGRTCUPT	Catchup phase time (micro)
2560	(A00)	SIGNED	4	MGRTCUPC	Catchup phase track count
2564	(A04)	SIGNED	4	MGRTCUPM	Catchup phase message count
2568	(A08)	DBL WORD	8	MGRTCLNT	Cleanup phase time (micro)
2576	(A10)	DBL WORD	8	MGRTNEWT	STCK time migration started
2584	(A18)	DBL WORD	8	MGRTOVRT	Overall time for migration (SMCNEW to success msg)
2592	(A20)	DBL WORD	8	MGRTSTRT(2)	Current phase start STCKE
2608	(A30)	SIGNED	4	MGRTMSGC	I/O permission msg count
2612	(A34)	SIGNED	4		Reserved
	List form macros for JESXCF and other services				
2616	(A38)	DBL WORD	8	(0)	
2616	(A38)	BITSTRING	200	MGRIXLST	JESXCF list form macros

Table 153. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2816	(B00)	DBL WORD	8	MGRIXEND(0)	End of list form area
------- IXZXIXAT MF=(L,MGRXIXAT) Attach group MACDATE -00/01/11-<6>					
0	(0)	X'A38'	0	M00M1143	"MGRXIXAT" ++ IXZXIXAT NAME
2616	(A38)	DBL WORD	8	MGRXIXAT(0)	++ IXZXIXAT PARM LIST
2616	(A38)	BITSTRING	1	MGRXIXAT_XVERSION	++ INPUT XVERSION
2617	(A39)	CHARACTER	6	MGRXIXAT_XEYECATCH	++ CONSTANT
2623	(A3F)	CHARACTER	1	MGRXIXAT_XRSV0001	++ RESERVED
2624	(A40)	CHARACTER	8	MGRXIXAT_XGROUP	++
2632	(A48)	CHARACTER	16	MGRXIXAT_XMEMBER	++
2648	(A58)	CHARACTER	8	MGRXIXAT_XRELEASE	++
2656	(A60)	SIGNED	4	MGRXIXAT_XMAINTLVL	++ CONSTANT
2660	(A64)	SIGNED	4	MGRXIXAT_XGROUPTOKEN	++
2664	(A68)	BITSTRING	1	MGRXIXAT_XFLAG1	++ FIELD_LABEL
		1...		MGRXIXAT_XWHICHJES_JES2	"B'10000000'" ++ XWHICHJES.JES2 KEYWORD
		.1..		MGRXIXAT_XWHICHJES_JES3	"B'01000000'" ++ XWHICHJES.JES3 KEYWORD
		..1.		MGRXIXAT_XWHICHJES_J3FSS	"B'00100000'" ++ XWHICHJES.J3FSS KEYWORD
		...1		MGRXIXAT_XWHICHJES_INIT	"B'00010000'" ++ XWHICHJES.INIT KEYWORD
		.... 1...		MGRXIXAT_XWHICHJES_COMMON	"B'00001000'" ++ XWHICHJES.COMMON KEYWORD
		.... .1..		MGRXIXAT_XWHICHJES_J3CIFSS	"B'00000100'" ++ XWHICHJES.J3CIFSS KEYWORD
		.... ..1.		MGRXIXAT_XWHICHJES_J2SPOOL	"B'00000010'" ++ XWHICHJES.J2SPOOL KEYWORD
2665	(A69)	BITSTRING	1	MGRXIXAT_XFLAG2	++ FIELD_LABEL
		1...		MGRXIXAT_XJ3CONNECT_NO	"B'10000000'" ++ XJ3CONNECT.NO KEYWORD
		.1..		MGRXIXAT_XJ3CONNECT_YES	"B'01000000'" ++ XJ3CONNECT.YES KEYWORD
2666	(A6A)	CHARACTER	2	MGRXIXAT_XRSV0002	++ RESERVED
2668	(A6C)	SIGNED	4	MGRXIXAT_XDIAG	++
2672	(A70)	CHARACTER	8	MGRXIXAT_XLINKPARMS	++ FIELD_LABEL
2672	(A70)	X'40'	0	MGRXIXATL	"*-MGRXIXAT" ++ LENGTH OF PLIST
				IXZXIXAT-6	
2680	(A78)	ADDRESS	2	(0)	Ensure area fits
------- IXZXIXAC MF=(L,MGRXIXAC) Acknowledge message MACDATE -11/12/03-<1>					
0	(0)	X'A38'	0	M00M1145	"MGRXIXAC" ++ IXZXIXAC NAME
2616	(A38)	DBL WORD	8	MGRXIXAC(0)	++ IXZXIXAC PARM LIST
2616	(A38)	BITSTRING	1	MGRXIXAC_XVERSION	++ INPUT XVERSION
2617	(A39)	CHARACTER	6	MGRXIXAC_XEYECATCH	++ CONSTANT XEYECATCH
2623	(A3F)	BITSTRING	1	MGRXIXAC_XSTB	++ INPUT
		1...		MGRXIXAC_XSTB_NO	"B'10000000'" ++ XSTB.NO KEYWORD
		.1..		MGRXIXAC_XSTB_YES	"B'01000000'" ++ XSTB.YES KEYWORD
2624	(A40)	BITSTRING	8	MGRXIXAC_XMSGTOKEN	++ XMSGTOKEN
2632	(A48)	ADDRESS	4	MGRXIXAC_XDATA	++ XDATA

Table 153. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2636	(A4C)	SIGNED	4	MGRXIXAC_XDATALEN	++ XDATALEN
2640	(A50)	SIGNED	4	MGRXIXAC_XUSERRC	++ XUSERRC
2644	(A54)	SIGNED	4	MGRXIXAC_XGROUPTOKEN	++ XGROUPTOKEN
2648	(A58)	SIGNED	4	MGRXIXAC_XSYSRC	++ XSYSRC
2652	(A5C)	SIGNED	4	MGRXIXAC_XSYSRSN	++ XSYSRSN
2656	(A60)	BITSTRING	1	MGRXIXAC_XKEYS	++ FIELD_LABEL
		1...		MGRXIXAC_KEYUSED_DATA	"B'10000000'" ++ KEYUSED.DATA KEYWORD
		.1..		MGRXIXAC_KEYUSED_DATALEN	"B'01000000'" ++ KEYUSED.DATALEN KEYWORD
		..1.		MGRXIXAC_KEYUSED_USERRC	"B'00100000'" ++ KEYUSED.USERRC KEYWORD
		...1		MGRXIXAC_KEYUSED_SYSRC	"B'00010000'" ++ KEYUSED.SYSRC KEYWORD
		.... 1...		MGRXIXAC_KEYUSED_SYSRSN	"B'00001000'" ++ KEYUSED.SYSRSN KEYWORD
2657	(A61)	BITSTRING	1	MGRXIXAC_XMSGATTR	++ INPUT
		1...		MGRXIXAC_XMSGATTR_J3CONNECT	"B'10000000'" ++ XMSGATTR.J3CONNECT KEYWORD
		.1..		MGRXIXAC_XMSGATTR_EXPRESS	"B'01000000'" ++ XMSGATTR.EXPRESS KEYWORD
2657	(A61)	X'2A'	0	MGRXIXACL	"*-MGRXIXAC" ++ LENGTH OF PLIST
				IXZXIXAC-1	
2658	(A62)	ADDRESS	2	(0)	Ensure area fits
------- IXZXIXMC MF=(L,MGRXIXMC) Clear mailbox MACDATE -93/05/10-<1>					
2658	(A62)	SIGNED	2	M00M1146(0)	IXZXIXMC-1
2664	(A68)	DBL WORD	8	MGRXIXMC(0)	++ IXZXIXMC PARM LIST
2664	(A68)	BITSTRING	1	MGRXIXMC_XVERSION	++ INPUT XVERSION
2665	(A69)	CHARACTER	6	MGRXIXMC_XEYECATCH	++ CONSTANT XEYECATCH
2671	(A6F)	BITSTRING	1	MGRXIXMC_XSTB	++ INPUT
		1...		MGRXIXMC_XSTB_NO	"B'10000000'" ++ XSTB.NO KEYWORD
		.1..		MGRXIXMC_XSTB_YES	"B'01000000'" ++ XSTB.YES KEYWORD
2672	(A70)	CHARACTER	16	MGRXIXMC_XMBOXNAME	++ XMBOXNAME
2688	(A80)	SIGNED	4	MGRXIXMC_XGROUPTOKEN	++ XGROUPTOKEN
2688	(A80)	X'1C'	0	MGRXIXMCL	"*-MGRXIXMC" ++ LENGTH OF PLIST
				IXZXIXMC-1	
2692	(A84)	ADDRESS	2	(0)	Ensure area fits
------- IXZXIXMB MF=(L,MGRXIXMB) Create mailbox MACDATE -93/05/10-<1>					
2616	(A38)	SIGNED	2	M00M1147(0)	IXZXIXMB-1
2616	(A38)	DBL WORD	8	MGRXIXMB(0)	++ IXZXIXMB PARM LIST
2616	(A38)	BITSTRING	1	MGRXIXMB_XVERSION	++ INPUT XVERSION
2617	(A39)	CHARACTER	6	MGRXIXMB_XEYECATCH	++ CONSTANT XEYECATCH
2623	(A3F)	CHARACTER	1	MGRXIXMB_XRSV0001	++ RESERVED XRSV0001
2624	(A40)	CHARACTER	16	MGRXIXMB_XMBOXNAME	++ XMBOXNAME
2640	(A50)	ADDRESS	4	MGRXIXMB_XPOSTXIT	++ XPOSTXIT
2644	(A54)	ADDRESS	4	MGRXIXMB_XPOSTDATA	++ XPOSTDATA

Table 153. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2648	(A58)	SIGNED	4	MGRXIXMB_XPOSTALET	++ XPOSTALET
2652	(A5C)	SIGNED	4	MGRXIXMB_XGROUPTOKEN	++ XGROUPTOKEN
2656	(A60)	BITSTRING	1	MGRXIXMB_XSYSEVENTS	++ FIELD_LABEL
		1...		MGRXIXMB_XSYSEVENT_YES	"B'10000000'" ++ XSYSEVENT.YES KEYWORD
		.1..		MGRXIXMB_XSYSEVENT_NO	"B'01000000'" ++ XSYSEVENT.NO KEYWORD
2656	(A60)	X'29'	0	MGRXIXMBL	"*-MGRXIXMB" ++ LENGTH OF PLIST
				IXZXIXMB-1	
2658	(A62)	ADDRESS	2	(0)	Ensure area fits
------- IXZXIXMD MF=(L,MGRXIXMD) Delete mailbox MACDATE -93/05/10-<1>					
2616	(A38)	SIGNED	2	M00M1148(0)	IXZXIXMD-1
2616	(A38)	DBL WORD	8	MGRXIXMD(0)	++ IXZXIXMD PARM LIST
2616	(A38)	BITSTRING	1	MGRXIXMD_XVERSION	++ INPUT XVERSION
2617	(A39)	CHARACTER	6	MGRXIXMD_XEYECATCH	++ CONSTANT XEYECATCH
2623	(A3F)	BITSTRING	1	MGRXIXMD_XSTB	++ INPUT
		1...		MGRXIXMD_XSTB_NO	"B'10000000'" ++ XSTB.NO KEYWORD
		.1..		MGRXIXMD_XSTB_YES	"B'01000000'" ++ XSTB.YES KEYWORD
2624	(A40)	CHARACTER	16	MGRXIXMD_XMBOXNAME	++ XMBOXNAME
2640	(A50)	SIGNED	4	MGRXIXMD_XGROUPTOKEN	++ XGROUPTOKEN
2640	(A50)	X'1C'	0	MGRXIXMDL	"*-MGRXIXMD" ++ LENGTH OF PLIST
				IXZXIXMD-1	
2644	(A54)	ADDRESS	2	(0)	Ensure area fits
------- IXZXIXDT MF=(L,MGRXIXDT) Detach JESXCF group MACDATE -00/02/02-<1>					
0	(0)	X'A38'	0	M00M1149	"MGRXIXDT" ++ IXZXIXDT NAME
2616	(A38)	DBL WORD	8	MGRXIXDT(0)	++ IXZXIXDT PARM LIST
2616	(A38)	BITSTRING	1	MGRXIXDT_XVERSION	++ INPUT XVERSION
2617	(A39)	CHARACTER	6	MGRXIXDT_XEYECATCH	++ CONSTANT XEYECATCH
2623	(A3F)	CHARACTER	1	MGRXIXDT_XRSV0001	++ RESERVED XRSV0001
2624	(A40)	ADDRESS	4	MGRXIXDT_XGROUPTOKEN	++ XGROUPTOKEN
2628	(A44)	CHARACTER	8	MGRXIXDT_XLINKPARMS	++ FIELD_LABEL XLINKPARMS
2628	(A44)	X'14'	0	MGRXIXDTL	"*-MGRXIXDT" ++ LENGTH OF PLIST
				IXZXIXDT-1	
2636	(A4C)	ADDRESS	2	(0)	Ensure area fits
------- IXZXIXRM MF=(L,MGRXIXRM) Receive message MACDATE -93/05/10-<1>					
2616	(A38)	SIGNED	2	M00M1150(0)	IXZXIXRM-1
2616	(A38)	DBL WORD	8	MGRXIXRM(0)	++ IXZXIXRM PARM LIST
2616	(A38)	BITSTRING	1	MGRXIXRM_XVERSION	++ INPUT XVERSION
2617	(A39)	CHARACTER	6	MGRXIXRM_XEYECATCH	++ CONSTANT XEYECATCH
2623	(A3F)	CHARACTER	1	MGRXIXRM_XRSV0001	++ RESERVED XRSV0001
2624	(A40)	CHARACTER	16	MGRXIXRM_XMBOXNAME	++ XMBOXNAME
2640	(A50)	ADDRESS	4	MGRXIXRM_XDATA	++ XDATA
2644	(A54)	SIGNED	4	MGRXIXRM_XDATALEN	++ XDATALEN
2648	(A58)	BITSTRING	8	MGRXIXRM_XMSGTOKEN	++ XMSGTOKEN

Table 153. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2656	(A60)	SIGNED	4	MGRXIXRM_XGROUPTOKEN	++ XGROUPTOKEN
2660	(A64)	BITSTRING	1	MGRXIXRM_XMSGFETCH	++ INPUT
		1...		MGRXIXRM_XMSGFETCH_ALL	"B'10000000'" ++ XMSGFETCH.ALL KEYWORD
		.1..		MGRXIXRM_XMSGFETCH_MESSAGES	"B'01000000'" ++ XMSGFETCH.MESSAGES KEYWORD
		..1.		MGRXIXRM_XMSGFETCH_SYSEVENT	"B'00100000'" ++ XMSGFETCH.SYSEVENT KEYWORD
		...1		MGRXIXRM_XMSGFETCH_ACKS	"B'00010000'" ++ XMSGFETCH.ACKS KEYWORD
2661	(A65)	BITSTRING	1	MGRXIXRM_XKEYS	++ FIELD_LABEL
		1...		MGRXIXRM_KEYUSED_MSGFETCH	"B'10000000'" ++ KEYUSED.MSGFETCH KEYWORD
2661	(A65)	X'2E'	0	MGRXIXRML	"*-MGRXIXRM" ++ LENGTH OF PLIST
				IXZXIXRM-1	
2662	(A66)	ADDRESS	2	(0)	Ensure area fits
------- IARV64 MF=(L,MGRIR64L),PLISTVER=MAX IARV64 list form MACDATE -12/05/14-<5>					
0	(0)	X'A38'	0	M00M1151	"MGRIR64L" ++ IARV64 NAME
2616	(A38)	DBL WORD	8	MGRIR64L(0)	++ IARV64 PARM LIST
2616	(A38)	BITSTRING	1	MGRIR64L_XVERSION	++ INPUT XVERSION
2617	(A39)	BITSTRING	1	MGRIR64L_XREQUEST	++ XREQUEST
2617	(A39)	X'1'	0	MGRIR64L_XREQUEST_GETSTOR	"1" ++ XREQUEST.GETSTOR KEYWORD
2617	(A39)	X'2'	0	MGRIR64L_XREQUEST_GETSHARED	"2" ++ XREQUEST.GETSHARED KEYWORD
2617	(A39)	X'3'	0	MGRIR64L_XREQUEST_DETACH	"3" ++ XREQUEST.DETACH KEYWORD
2617	(A39)	X'4'	0	MGRIR64L_XREQUEST_PAGEFIX	"4" ++ XREQUEST.PAGEFIX KEYWORD
2617	(A39)	X'5'	0	MGRIR64L_XREQUEST_PAGEUNFIX	"5" ++ XREQUEST.PAGEUNFIX KEYWORD
2617	(A39)	X'6'	0	MGRIR64L_XREQUEST_PAGEOUT	"6" ++ XREQUEST.PAGEOUT KEYWORD
2617	(A39)	X'7'	0	MGRIR64L_XREQUEST_DISCARDDATA	"7" ++ XREQUEST.DISCARDDATA KEYWORD
2617	(A39)	X'8'	0	MGRIR64L_XREQUEST_PAGEIN	"8" ++ XREQUEST.PAGEIN KEYWORD
2617	(A39)	X'9'	0	MGRIR64L_XREQUEST_PROTECT	"9" ++ XREQUEST.PROTECT KEYWORD
2617	(A39)	X'A'	0	MGRIR64L_XREQUEST_SHAREMEMOBJ	"10" ++ XREQUEST.SHAREMEMOBJ KEYWORD
2617	(A39)	X'B'	0	MGRIR64L_XREQUEST_CHANGEACCESS	"11" ++ XREQUEST.CHANGEACCESS KEYWORD
2617	(A39)	X'C'	0	MGRIR64L_XREQUEST_UNPROTECT	"12" ++ XREQUEST.UNPROTECT KEYWORD
2617	(A39)	X'D'	0	MGRIR64L_XREQUEST_CHANGEGUARD	"13" ++ XREQUEST.CHANGEGUARD KEYWORD
2617	(A39)	X'E'	0	MGRIR64L_XREQUEST_LIST	"14" ++ XREQUEST.LIST KEYWORD

Table 153. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2617	(A39)	X'F'	0	MGRIR64L_XREQUEST_GETCOMMON	"15" ++ XREQUEST.GETCOMMON KEYWORD
2617	(A39)	X'10'	0	MGRIR64L_XREQUEST_COUNTPAGES	"16" ++ XREQUEST.COUNTPAGES KEYWORD
2617	(A39)	X'11'	0	MGRIR64L_XREQUEST_PCIEFIX	"17" ++ XREQUEST.PCIEFIX KEYWORD
2617	(A39)	X'12'	0	MGRIR64L_XREQUEST_PCIEUNFIX	"18" ++ XREQUEST.PCIEUNFIX KEYWORD
2618	(A3A)	BITSTRING	1	MGRIR64L_XFLAGS0	++ FIELD_LABEL
		1...		MGRIR64L_XMOTKNSOURCE_SYSTEM	"B'10000000'" ++ XMOTKNSOURCE.SYSTEM KEYWORD
		.1..		MGRIR64L_XMOTKNCREATOR_SYSTEM	"B'01000000'" ++ XMOTKNCREATOR.SYSTEM KEYWORD
		..1.		MGRIR64L_XMATCH_MOTOKEN	"B'00100000'" ++ XMATCH.MOTOKEN KEYWORD
2619	(A3B)	BITSTRING	1	MGRIR64L_XKEY	++
2620	(A3C)	BITSTRING	1	MGRIR64L_XFLAGS1	++ FIELD_LABEL
		1...		MGRIR64L_KEYUSED_KEY	"B'10000000'" ++ KEYUSED.KEY KEYWORD
		.1..		MGRIR64L_KEYUSED_USERTKN	"B'01000000'" ++ KEYUSED.USERTKN KEYWORD
		..1.		MGRIR64L_KEYUSED_TTOKEN	"B'00100000'" ++ KEYUSED.TTOKEN KEYWORD
		...1		MGRIR64L_KEYUSED_CONVERTSTART	"B'00010000'" ++ KEYUSED.CONVERTSTART KEYWORD
		.... 1...		MGRIR64L_KEYUSED_GUARDSIZE64	"B'00001000'" ++ KEYUSED.GUARDSIZE64 KEYWORD
		.... .1..		MGRIR64L_KEYUSED_CONVERTSIZE64	"B'00000100'" ++ KEYUSED.CONVERTSIZE64 KEYWORD
		.... ..1.		MGRIR64L_KEYUSED_MOTKN	"B'00000010'" ++ KEYUSED.MOTKN KEYWORD
		1		MGRIR64L_KEYUSED_OWNERJOBNAME	"B'00000001'" ++ KEYUSED.OWNERJOBNAME KEYWORD
2621	(A3D)	BITSTRING	1	MGRIR64L_XFLAGS2	++ FIELD_LABEL
		1...		MGRIR64L_XCOND_YES	"B'10000000'" ++ XCOND.YES KEYWORD
		.1..		MGRIR64L_XFPROT_NO	"B'01000000'" ++ XFPROT.NO KEYWORD
		..1.		MGRIR64L_XCONTROL_AUTH	"B'00100000'" ++ XCONTROL.AUTH KEYWORD
		...1		MGRIR64L_XGUARDLOC_HIGH	"B'00010000'" ++ XGUARDLOC.HIGH KEYWORD
		.... 1...		MGRIR64L_XCHANGEACCESS_GLOBAL	"B'00001000'" ++ XCHANGEACCESS.GLOBAL KEYWORD
		.... .1..		MGRIR64L_XPAGEFRAMESIZE_1MEG	

Table 153. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"B'00000100'" ++ XPAGEFRAMESIZE.1MEG KEYWORD
		.... ..1.		MGRIR64L_XPAGEFRAMESIZE_MAX	
					"B'00000010'" ++ XPAGEFRAMESIZE.MAX KEYWORD
		1		MGRIR64L_XPAGEFRAMESIZE_ALL	
					"B'00000001'" ++ XPAGEFRAMESIZE.ALL KEYWORD
2622	(A3E)	BITSTRING	1	MGRIR64L_XFLAGS3	++ FIELD_LABEL
		1...		MGRIR64L_XMATCH_USERTOKEN	"B'10000000'" ++ XMATCH.USERTOKEN KEYWORD
		.1..		MGRIR64L_XAFFINITY_SYSTEM	"B'01000000'" ++ XAFFINITY.SYSTEM KEYWORD
		..1.		MGRIR64L_XUSE2GTO32G_YES	"B'00100000'" ++ XUSE2GTO32G.YES KEYWORD
		...1		MGRIR64L_XOWNER_NO	"B'00010000'" ++ XOWNER.NO KEYWORD
		.... 1...		MGRIR64L_XV64SELECT_NO	"B'00001000'" ++ XV64SELECT.NO KEYWORD
		.... .1..		MGRIR64L_XSVCDUMPRGN_NO	"B'00000100'" ++ XSVCDUMPRGN.NO KEYWORD
		.... ..1.		MGRIR64L_XV64SHARED_NO	"B'00000010'" ++ XV64SHARED.NO KEYWORD
		1		MGRIR64L_XSVCDUMPRGN_ALL	"B'00000001'" ++ XSVCDUMPRGN.ALL KEYWORD
2623	(A3F)	BITSTRING	1	MGRIR64L_XFLAGS4	++ FIELD_LABEL
		1...		MGRIR64L_XLONG_NO	"B'10000000'" ++ XLONG.NO KEYWORD
		.1..		MGRIR64L_XCLEAR_NO	"B'01000000'" ++ XCLEAR.NO KEYWORD
		..1.		MGRIR64L_XVIEW_READONLY	"B'00100000'" ++ XVIEW.READONLY KEYWORD
		...1		MGRIR64L_XVIEW_SHAREDWRITE	"B'00010000'" ++ XVIEW.SHAREDWRITE KEYWORD
		.... 1...		MGRIR64L_XVIEW_HIDDEN	"B'00001000'" ++ XVIEW.HIDDEN KEYWORD
		.... .1..		MGRIR64L_XCONVERT_TOGUARD	"B'00000100'" ++ XCONVERT.TOGUARD KEYWORD
		.... ..1.		MGRIR64L_XCONVERT_FROMGUARD	
					"B'00000010'" ++ XCONVERT.FROMGUARD KEYWORD
		1		MGRIR64L_XKEEPREAL_NO	"B'00000001'" ++ XKEEPREAL.NO KEYWORD
2624	(A40)	DBL WORD	8	MGRIR64L_XSEGMENTS	++
2632	(A48)	CHARACTER	16	MGRIR64L_XTTOKEN	++
2648	(A58)	DBL WORD	8	MGRIR64L_XUSERTKN	++
2656	(A60)	ADDRESS	8	MGRIR64L_XORIGIN	++
2664	(A68)	ADDRESS	8	MGRIR64L_XRANGLIST	++
2672	(A70)	ADDRESS	8	MGRIR64L_XMEMOBJSTART	++
2680	(A78)	SIGNED	4	MGRIR64L_XGUARDSIZE	++
2684	(A7C)	SIGNED	4	MGRIR64L_XCONVERTSIZE	++
2688	(A80)	SIGNED	4	MGRIR64L_XALETVALUE	++
2692	(A84)	SIGNED	4	MGRIR64L_XNUMRANGE	++
2696	(A88)	ADDRESS	4	MGRIR64L_XV64LISTPTR	++

Table 153. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2700	(A8C)	SIGNED	4	MGRIR64L_XV64LISTLENGTH	++
2704	(A90)	DBL WORD	8	MGRIR64L_XCONVERTSTART	++
2712	(A98)	DBL WORD	8	MGRIR64L_XCONVERTSIZE64	++
2720	(AA0)	DBL WORD	8	MGRIR64L_XGUARDSIZE64	++
2728	(AA8)	CHARACTER	8	MGRIR64L_XUSERTOKEN	++
2736	(AB0)	BITSTRING	1	MGRIR64L_XDUMPPRIORITY	++
2737	(AB1)	BITSTRING	1	MGRIR64L_XFLAGS5	++ FIELD_LABEL
		1...		MGRIR64L_XDUMPPROTOCOL_YES	"B'10000000'" ++ XDUMPPROTOCOL.YES KEYWORD
		.1..		MGRIR64L_XORDER_DUMPPRIORITY	"B'01000000'" ++ XORDER.DUMPPRIORITY KEYWORD
		..1.		MGRIR64L_XTYPE_PAGEABLE	"B'00100000'" ++ XTYPE.PAGEABLE KEYWORD
		...1		MGRIR64L_XTYPE_DREF	"B'00010000'" ++ XTYPE.DREF KEYWORD
		.... 1...		MGRIR64L_XOWNERCOM_HOME	"B'00001000'" ++ XOWNERCOM.HOME KEYWORD
		.... .1..		MGRIR64L_XOWNERCOM_PRIMARY	"B'00000100'" ++ XOWNERCOM.PRIMARY KEYWORD
		.... ..1.		MGRIR64L_XOWNERCOM_SYSTEM	"B'00000010'" ++ XOWNERCOM.SYSTEM KEYWORD
		1		MGRIR64L_XOWNERCOM_BYASID	"B'00000001'" ++ XOWNERCOM.BYASID KEYWORD
2738	(AB2)	BITSTRING	1	MGRIR64L_XFLAGS6	++ FIELD_LABEL
		1...		MGRIR64L_XV64COMMON_NO	"B'10000000'" ++ XV64COMMON.NO KEYWORD
		.1..		MGRIR64L_XMEMLIMIT_NO	"B'01000000'" ++ XMEMLIMIT.NO KEYWORD
		..1.		MGRIR64L_XDETACHFIXED_YES	"B'00100000'" ++ XDETACHFIXED.YES KEYWORD
		...1		MGRIR64L_XDOAUTHCHECKS_YES	"B'00010000'" ++ XDOAUTHCHECKS.YES KEYWORD
		.... 1...		MGRIR64L_XLOCALSYSAREA_YES	"B'00001000'" ++ XLOCALSYSAREA.YES KEYWORD
		.... .1..		MGRIR64L_XAMOUNTSIZE_4K	"B'00000100'" ++ XAMOUNTSIZE.4K KEYWORD
		.... ..1.		MGRIR64L_XAMOUNTSIZE_1MEG	"B'00000010'" ++ XAMOUNTSIZE.1MEG KEYWORD
		1		MGRIR64L_XMEMLIMIT_COND	"B'00000001'" ++ XMEMLIMIT.COND KEYWORD
2739	(AB3)	BITSTRING	1	MGRIR64L_XFLAGS7	++ FIELD_LABEL
		1...		MGRIR64L_KEYUSED_DUMP	"B'10000000'" ++ KEYUSED.DUMP KEYWORD
		.1..		MGRIR64L_KEYUSED_OPTIONVALUE	"B'01000000'" ++ KEYUSED.OPTIONVALUE KEYWORD
		..1.		MGRIR64L_KEYUSED_SVCDUMPRGN	"B'00100000'" ++ KEYUSED.SVCDUMPRGN KEYWORD
		...1		MGRIR64L_XATTRIBUTE_DEFS	"B'00010000'" ++ XATTRIBUTE.DEFS KEYWORD
		.... 1...		MGRIR64L_XATTRIBUTE_OWNERGONE	

Table 153. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"B'00001000'" ++ XATTRIBUTE.OWNERGONE KEYWORD
		.... .1..		MGRIR64L_XATTRIBUTE_NOTOWNERGONE	"B'00000100'" ++ XATTRIBUTE.NOTOWNERGONE KEYWORD
		.... ..1.		MGRIR64L_XTRACKINFO_YES	"B'00000010'" ++ XTRACKINFO.YES KEYWORD
		1		MGRIR64L_XUNLOCKED_YES	"B'00000001'" ++ XUNLOCKED.YES KEYWORD
2740	(AB4)	BITSTRING	1	MGRIR64L_XDUMP	++ XDUMP
2740	(AB4)	X'0'	0	MGRIR64L_XDUMP_NONE	"0" ++ XDUMP.NONE KEYWORD
2740	(AB4)	X'1'	0	MGRIR64L_XDUMP_NO	"1" ++ XDUMP.NO KEYWORD
2740	(AB4)	X'2'	0	MGRIR64L_XDUMP_LIKESQA	"2" ++ XDUMP.LIKESQA KEYWORD
2740	(AB4)	X'3'	0	MGRIR64L_XDUMP_LIKECSA	"3" ++ XDUMP.LIKECSA KEYWORD
2740	(AB4)	X'20'	0	MGRIR64L_XDUMP_LIKERGN	"32" ++ XDUMP.LIKERGN KEYWORD
2740	(AB4)	X'21'	0	MGRIR64L_XDUMP_LIKELSQA	"33" ++ XDUMP.LIKELSQA KEYWORD
2740	(AB4)	X'FF'	0	MGRIR64L_XDUMP_ALL	"255" ++ XDUMP.ALL KEYWORD
2741	(AB5)	BITSTRING	1	MGRIR64L_XFLAGS8	++ FIELD_LABEL
		1...		MGRIR64L_XPAGEFRAMESIZE_PAGEABLE1MEG	"B'10000000'" ++ XPAGEFRAMESIZE.PAGEABLE1MEG KEYWOR
		.1..		MGRIR64L_XPAGEFRAMESIZE_DREF1MEG	"B'01000000'" ++ XPAGEFRAMESIZE.DREF1MEG KEYWORD
2742	(AB6)	BITSTRING	2	MGRIR64L_XOWNERASID	++
2744	(AB8)	BITSTRING	1	MGRIR64L_XOPTIONVALUE	++
2745	(AB9)	CHARACTER	8	MGRIR64L_XRSV0001	++ RESERVED
2753	(AC1)	CHARACTER	8	MGRIR64L_XOWNERJOBNAME	++
2761	(AC9)	CHARACTER	7	MGRIR64L_XRSV0004	++ RESERVED
2768	(AD0)	ADDRESS	8	MGRIR64L_XDMAPAGETABLE	++
2776	(AD8)	DBL WORD	8	MGRIR64L_XUNITS	++
2784	(AE0)	BITSTRING	1	MGRIR64L_XFLAGS9	++ FIELD_LABEL
		1...		MGRIR64L_KEYUSED_UNITS	"B'10000000'" ++ KEYUSED.UNITS KEYWORD
		.1..		MGRIR64L_XUNITSIZE_1M	"B'01000000'" ++ XUNITSIZE.1M KEYWORD
		..1.		MGRIR64L_XUNITSIZE_2G	"B'00100000'" ++ XUNITSIZE.2G KEYWORD
		...1		MGRIR64L_XPAGEFRAMESIZE_1M	"B'00010000'" ++ XPAGEFRAMESIZE.1M KEYWORD
		.... 1...		MGRIR64L_XPAGEFRAMESIZE_2G	"B'00001000'" ++ XPAGEFRAMESIZE.2G KEYWORD
		.... .1..		MGRIR64L_XTYPE_FIXED	"B'00000100'" ++ XTYPE.FIXED KEYWORD
2785	(AE1)	CHARACTER	7	MGRIR64L_XRSV0005	++ RESERVED
2785	(AE1)	X'AE8'	0	MGRIR64L_PL_END	"*" ++ END OF BASE PLIST
2648	(A58)	DBL WORD	8	MGRIR64L_XOUTMOTKN	++
2648	(A58)	DBL WORD	8	MGRIR64L_XMOTKN	++
2792	(AE8)	X'B0'	0	MGRIR64LL	"*-MGRIR64L" ++ LENGTH OF PLIST
				IARV64-5	
2792	(AE8)	ADDRESS	8	MGRIRNGL(0)	Range list for PAGEFIX

Table 153. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2792	(AE8)	ADDRESS	8	MGRIRNGA	Address of area to fix
2800	(AF0)	DBL WORD	8	MGRIRNGP	Number of pages to fix
2800	(AF0)	X'A38'	0	MGRIAR64	"MGRIR64L,*-MGRIR64L" IARV64 MF=L symbol/length
2808	(AF8)	ADDRESS	2	(0)	Ensure area fits
2816	(B00)	X'608'	0	MGRCLEAR	"MGRSTART" Area to be zeroed
2816	(B00)	X'4F8'	0	MGRLLEN	"*-DTEWORK" Length of work area

Table 154. Cross Reference for $DTEMIGR

Name	Offset	Hex Tag
DTE	0	
MGABEND	891	4
MGACTCPY	634	
MGASRCHI	740	
MGASRCST	738	
MGASSIST	891	8
MGATGSTR	860	
MGATGTTG	878	
MGATGWRT	864	
MGATTACH	60D	8
MGATTH	92C	20
MGECBLST	610	
MGECBLS2	614	
MGEWAIT	664	
MGEXITID	638	
MGFULL	891	20
MGGENEID	640	
MGGENERE	63C	
MGGENERP	614	
MGGROUP	94D	E2E8E2D4
MGGRPTKN	96C	
MGHEARID	648	
MGHEARTE	644	
MGHEARTP	618	
MGJDIAG	968	
MGMAILST	92C	
MGMEMCAN	891	40
MGMEMREC	891	80
MGMG_CRT	92C	80
MGMGVOLP	61C	
MGMGVOLS	92D	E2E8E2D1
MGMIGRAT	891	10
MGPATHL	660	
MGPATHS	660	80
MGPATHT	660	40
MGPRERR	660	20
MGPSTSPL	608	
MGPWTLB	660	10

Table 154. Cross Reference for $DTEMIGR (continued)

Name	Offset	Hex Tag
MGR#IOCM	98C	
MGRALLOC	758	80
MGRASSSN	988	
MGRBMHDL	734	
MGRBMHDR	730	
MGRBOX1	970	
MGRBOX2	974	
MGRBTYPE	990	
MGRCLEAR	B00	608
MGRDCB	7EE	784
MGRDCBE	7B8	C4C3C2C5
MGRDCBMF	784	
MGRENQTK	759	
MGRFLG3	684	
MGRFLG4	685	
MGRFLG5	686	
MGRFLG52	687	
MGRFLG6	688	
MGRHITG	750	
MGRIAR64	AF0	A38
MGRIBATI	8E0	
MGRIBATO	8E4	
MGRIBITM	8E8	
MGRIBUFC	8B0	
MGRIBUFP	8A0	
MGRIBUFR	898	
MGRIECB	900	
MGRIFLG1	8BC	
MGRIFREE	8C0	
MGRILTRK	8F0	
MGRIPEND	8D0	
MGRIREAD	8C8	
MGRIRNGA	AE8	
MGRIRNGL	AE8	
MGRIRNGP	AF0	
MGRIR64L	A38	
MGRIR64L_KEYUSED_CONVERTSIZE64	A3C	4
MGRIR64L_KEYUSED_CONVERTSTART	A3C	10
MGRIR64L_KEYUSED_DUMP	AB3	80
MGRIR64L_KEYUSED_GUARDSIZE64	A3C	8
MGRIR64L_KEYUSED_KEY	A3C	80
MGRIR64L_KEYUSED_MOTKN	A3C	2
MGRIR64L_KEYUSED_OPTIONVALUE	AB3	40
MGRIR64L_KEYUSED_OWNERJOBNAME	A3C	1
MGRIR64L_KEYUSED_SVCDUMPRGN	AB3	20
MGRIR64L_KEYUSED_TTOKEN	A3C	20
MGRIR64L_KEYUSED_UNITS	AE0	80
MGRIR64L_KEYUSED_USERTKN	A3C	40
MGRIR64L_PL_END	AE1	AE8

Table 154. Cross Reference for $DTEMIGR (continued)

Name	Offset	Hex Tag
MGRIR64L_XAFFINITY_SYSTEM	A3E	40
MGRIR64L_XALETVALUE	A80	
MGRIR64L_XAMOUNTSIZE_1MEG	AB2	2
MGRIR64L_XAMOUNTSIZE_4K	AB2	4
MGRIR64L_XATTRIBUTE_DEFS	AB3	10
MGRIR64L_XATTRIBUTE_NOTOWNERGONE	AB3	4
MGRIR64L_XATTRIBUTE_OWNERGONE	AB3	8
MGRIR64L_XCHANGEACCESS_GLOBAL	A3D	8
MGRIR64L_XCLEAR_NO	A3F	40
MGRIR64L_XCOND_YES	A3D	80
MGRIR64L_XCONTROL_AUTH	A3D	20
MGRIR64L_XCONVERT_FROMGUARD	A3F	2
MGRIR64L_XCONVERT_TOGUARD	A3F	4
MGRIR64L_XCONVERTSIZE	A7C	
MGRIR64L_XCONVERTSIZE64	A98	
MGRIR64L_XCONVERTSTART	A90	
MGRIR64L_XDETACHFIXED_YES	AB2	20
MGRIR64L_XDMAPAGETABLE	AD0	
MGRIR64L_XDOAUTHCHECKS_YES	AB2	10
MGRIR64L_XDUMP	AB4	
MGRIR64L_XDUMP_ALL	AB4	FF
MGRIR64L_XDUMP_LIKECSA	AB4	3
MGRIR64L_XDUMP_LIKELSQA	AB4	21
MGRIR64L_XDUMP_LIKERGN	AB4	20
MGRIR64L_XDUMP_LIKESQA	AB4	2
MGRIR64L_XDUMP_NO	AB4	1
MGRIR64L_XDUMP_NONE	AB4	0
MGRIR64L_XDUMPPRIORITY	AB0	
MGRIR64L_XDUMPPROTOCOL_YES	AB1	80
MGRIR64L_XFLAGS0	A3A	
MGRIR64L_XFLAGS1	A3C	
MGRIR64L_XFLAGS2	A3D	
MGRIR64L_XFLAGS3	A3E	
MGRIR64L_XFLAGS4	A3F	
MGRIR64L_XFLAGS5	AB1	
MGRIR64L_XFLAGS6	AB2	
MGRIR64L_XFLAGS7	AB3	
MGRIR64L_XFLAGS8	AB5	
MGRIR64L_XFLAGS9	AE0	
MGRIR64L_XFPROT_NO	A3D	40
MGRIR64L_XGUARDLOC_HIGH	A3D	10
MGRIR64L_XGUARDSIZE	A78	
MGRIR64L_XGUARDSIZE64	AA0	
MGRIR64L_XKEEPREAL_NO	A3F	1
MGRIR64L_XKEY	A3B	
MGRIR64L_XLOCALSYSAREA_YES	AB2	8
MGRIR64L_XLONG_NO	A3F	80
MGRIR64L_XMATCH_MOTOKEN	A3A	20
MGRIR64L_XMATCH_USERTOKEN	A3E	80

Table 154. Cross Reference for $DTEMIGR (continued)

Name	Offset	Hex Tag
MGRIR64L_XMEMLIMIT_COND	AB2	1
MGRIR64L_XMEMLIMIT_NO	AB2	40
MGRIR64L_XMEMOBJSTART	A70	
MGRIR64L_XMOTKN	A58	
MGRIR64L_XMOTKNCREATOR_SYSTEM	A3A	40
MGRIR64L_XMOTKNSOURCE_SYSTEM	A3A	80
MGRIR64L_XNUMRANGE	A84	
MGRIR64L_XOPTIONVALUE	AB8	
MGRIR64L_XORDER_DUMPPRIORITY	AB1	40
MGRIR64L_XORIGIN	A60	
MGRIR64L_XOUTMOTKN	A58	
MGRIR64L_XOWNER_NO	A3E	10
MGRIR64L_XOWNERASID	AB6	
MGRIR64L_XOWNERCOM_BYASID	AB1	1
MGRIR64L_XOWNERCOM_HOME	AB1	8
MGRIR64L_XOWNERCOM_PRIMARY	AB1	4
MGRIR64L_XOWNERCOM_SYSTEM	AB1	2
MGRIR64L_XOWNERJOBNAME	AC1	
MGRIR64L_XPAGEFRAMESIZE_ALL	A3D	1
MGRIR64L_XPAGEFRAMESIZE_DREF1MEG	0	40
MGRIR64L_XPAGEFRAMESIZE_MAX	A3D	2
MGRIR64L_XPAGEFRAMESIZE_PAGEABLE1MEG	AB5	80
MGRIR64L_XPAGEFRAMESIZE_1M	AE0	10
MGRIR64L_XPAGEFRAMESIZE_1MEG	A3D	4
MGRIR64L_XPAGEFRAMESIZE_2G	AE0	8
MGRIR64L_XRANGLIST	A68	
MGRIR64L_XREQUEST	A39	
MGRIR64L_XREQUEST_CHANGEACCESS	A39	B
MGRIR64L_XREQUEST_CHANGEGUARD	A39	D
MGRIR64L_XREQUEST_COUNTPAGES	A39	10
MGRIR64L_XREQUEST_DETACH	A39	3
MGRIR64L_XREQUEST_DISCARDDATA	A39	7
MGRIR64L_XREQUEST_GETCOMMON	A39	F
MGRIR64L_XREQUEST_GETSHARED	A39	2
MGRIR64L_XREQUEST_GETSTOR	A39	1
MGRIR64L_XREQUEST_LIST	A39	E
MGRIR64L_XREQUEST_PAGEFIX	A39	4
MGRIR64L_XREQUEST_PAGEIN	A39	8
MGRIR64L_XREQUEST_PAGEOUT	A39	6
MGRIR64L_XREQUEST_PAGEUNFIX	A39	5
MGRIR64L_XREQUEST_PCIEFIX	A39	11
MGRIR64L_XREQUEST_PCIEUNFIX	A39	12
MGRIR64L_XREQUEST_PROTECT	A39	9
MGRIR64L_XREQUEST_SHAREMEMOBJ	A39	A
MGRIR64L_XREQUEST_UNPROTECT	A39	C
MGRIR64L_XRSV0001	AB9	
MGRIR64L_XRSV0004	AC9	
MGRIR64L_XRSV0005	AE1	
MGRIR64L_XSEGMENTS	A40	

Table 154. Cross Reference for $DTEMIGR (continued)

Name	Offset	Hex Tag
MGRIR64L_XSVCDUMPRGN_ALL	A3E	1
MGRIR64L_XSVCDUMPRGN_NO	A3E	4
MGRIR64L_XTRACKINFO_YES	AB3	2
MGRIR64L_XTTOKEN	A48	
MGRIR64L_XTYPE_DREF	AB1	10
MGRIR64L_XTYPE_FIXED	AE0	4
MGRIR64L_XTYPE_PAGEABLE	AB1	20
MGRIR64L_XUNITS	AD8	
MGRIR64L_XUNITSIZE_1M	AE0	40
MGRIR64L_XUNITSIZE_2G	AE0	20
MGRIR64L_XUNLOCKED_YES	AB3	1
MGRIR64L_XUSERTKN	A58	
MGRIR64L_XUSERTOKEN	AA8	
MGRIR64L_XUSE2GTO32G_YES	A3E	20
MGRIR64L_XVERSION	A38	
MGRIR64L_XVIEW_HIDDEN	A3F	8
MGRIR64L_XVIEW_READONLY	A3F	20
MGRIR64L_XVIEW_SHAREDWRITE	A3F	10
MGRIR64L_XV64COMMON_NO	AB2	80
MGRIR64L_XV64LISTLENGTH	A8C	
MGRIR64L_XV64LISTPTR	A88	
MGRIR64L_XV64SELECT_NO	A3E	8
MGRIR64L_XV64SHARED_NO	A3E	2
MGRIR64LL	AE8	B0
MGRIWORK	8F8	
MGRIWRIT	8D8	
MGRIWTKN	8A8	
MGRIXEND	B00	
MGRIXLST	A38	
MGRIXRCB	924	
MGRIXRCF	920	
MGRIXRQA	918	
MGRIXRQB	914	
MGRIXRQC	920	
MGRIXRQE	928	
MGRIXRQF	910	
MGRIXRQW	910	
MGRI1SRC	8BC	80
MGRI1TRG	8BC	40
MGRI24WK	8B8	
MGRI31WL	8B4	
MGRLLEN	B00	4F8
MGRMEMNM	955	
MGRMFPRM	9B8	
MGRMGSTS	630	
MGRMIGRC	728	
MGRN_CRT	92C	40
MGRNIOP	624	
MGRNOCA	684	20

Table 154. Cross Reference for $DTEMIGR (continued)

Name	Offset	Hex Tag
MGRNOCMP	62C	
MGRNTIME	93D	E2E8E2D1
MGRNUMMG	724	
MGRNUMRQ	720	
MGRNVOLP	620	
MGRNXRQP	628	
MGRPERCE	689	
MGRRECOV	891	
MGRSBITA	708	
MGRSBITB	710	
MGRSBITR	71C	
MGRSBTAS	72C	
MGRSBTRK	718	
MGRSECKD	758	20
MGRSENDA	978	
MGRSENDL	97C	
MGRSERR	892	
MGRSRBYT	74C	
MGRSRCST	73C	
MGRSRDAS	704	
MGRSRDBB	694	694
MGRSRDBE	694	6B4
MGRSRDEB	694	
MGRSRDTD	758	10
MGRSRECT	754	
MGRSREXT	690	0
MGRSRINF	758	
MGRSRREL	758	40
MGRSRRPS	6C4	0
MGRSRTRC	748	
MGRSRTRK	744	
MGRSRVOL	68A	
MGRSTART	608	
MGRSTMSL	9A0	18
MGRSTMST	9A0	0
MGRSWTRD	758	8
MGRTCLNT	A08	
MGRTCPYC	9F0	
MGRTCPYM	9F4	
MGRTCPYT	9E8	
MGRTCUPC	A00	
MGRTCUPM	A04	
MGRTCUPT	9F8	
MGRTDAST	874	
MGRTECKD	890	80
MGRTGBYT	880	
MGRTGDBB	7F0	7F0
MGRTGDBE	7F0	810
MGRTGDEB	7F0	

Table 154. Cross Reference for $DTEMIGR (continued)

Name	Offset	Hex Tag
MGRTGENT	888	
MGRTGEXT	782	0
MGRTGINF	890	
MGRTGRPS	820	0
MGRTGSTT	884	
MGRTGTG	87C	
MGRTGTRC	870	
MGRTGTRK	86C	
MGRTGVOL	77C	
MGRTGWRT	868	
MGRTINTT	9D8	
MGRTMSGC	A30	
MGRTNEWT	A10	
MGRTOVRT	A18	
MGRTRDTD	890	40
MGRTRECT	88C	
MGRTSETT	9E0	
MGRTSRPS	890	10
MGRTSTRT	A20	
MGRTWTRD	890	20
MGRWBSTL	908	
MGRWBSTR	904	
MGRWRKA	650	0
MGRWRKB	658	
MGRXBUFA	980	
MGRXBUFL	984	
MGRXIXAC	A38	
MGRXIXAC_KEYUSED_DATA	A60	80
MGRXIXAC_KEYUSED_DATALEN	A60	40
MGRXIXAC_KEYUSED_SYSRC	A60	10
MGRXIXAC_KEYUSED_SYSRSN	A60	8
MGRXIXAC_KEYUSED_USERRC	A60	20
MGRXIXAC_XDATA	A48	
MGRXIXAC_XDATALEN	A4C	
MGRXIXAC_XEYECATCH	A39	
MGRXIXAC_XGROUPTOKEN	A54	
MGRXIXAC_XKEYS	A60	
MGRXIXAC_XMSGATTR	A61	
MGRXIXAC_XMSGATTR_EXPRESS	A61	40
MGRXIXAC_XMSGATTR_J3CONNECT	A61	80
MGRXIXAC_XMSGTOKEN	A40	
MGRXIXAC_XSTB	A3F	
MGRXIXAC_XSTB_NO	A3F	80
MGRXIXAC_XSTB_YES	A3F	40
MGRXIXAC_XSYSRC	A58	
MGRXIXAC_XSYSRSN	A5C	
MGRXIXAC_XUSERRC	A50	
MGRXIXAC_XVERSION	A38	
MGRXIXACL	A61	2A

Table 154. Cross Reference for $DTEMIGR (continued)

Name	Offset	Hex Tag
MGRXIXAT	A38	
MGRXIXAT_XDIAG	A6C	
MGRXIXAT_XEYECATCH	A39	
MGRXIXAT_XFLAG1	A68	
MGRXIXAT_XFLAG2	A69	
MGRXIXAT_XGROUP	A40	
MGRXIXAT_XGROUPTOKEN	A64	
MGRXIXAT_XJ3CONNECT_NO	A69	80
MGRXIXAT_XJ3CONNECT_YES	A69	40
MGRXIXAT_XLINKPARMS	A70	
MGRXIXAT_XMAINTLVL	A60	
MGRXIXAT_XMEMBER	A48	
MGRXIXAT_XRELEASE	A58	
MGRXIXAT_XRSV0001	A3F	
MGRXIXAT_XRSV0002	A6A	
MGRXIXAT_XVERSION	A38	
MGRXIXAT_XWHICHJES_COMMON	A68	8
MGRXIXAT_XWHICHJES_INIT	A68	10
MGRXIXAT_XWHICHJES_JES2	A68	80
MGRXIXAT_XWHICHJES_JES3	A68	40
MGRXIXAT_XWHICHJES_J2SPOOL	A68	2
MGRXIXAT_XWHICHJES_J3CIFSS	A68	4
MGRXIXAT_XWHICHJES_J3FSS	A68	20
MGRXIXATL	A70	40
MGRXIXDT	A38	
MGRXIXDT_XEYECATCH	A39	
MGRXIXDT_XGROUPTOKEN	A40	
MGRXIXDT_XLINKPARMS	A44	
MGRXIXDT_XRSV0001	A3F	
MGRXIXDT_XVERSION	A38	
MGRXIXDTL	A44	14
MGRXIXMB	A38	
MGRXIXMB_XEYECATCH	A39	
MGRXIXMB_XGROUPTOKEN	A5C	
MGRXIXMB_XMBOXNAME	A40	
MGRXIXMB_XPOSTALET	A58	
MGRXIXMB_XPOSTDATA	A54	
MGRXIXMB_XPOSTXIT	A50	
MGRXIXMB_XRSV0001	A3F	
MGRXIXMB_XSYSEVENT_NO	A60	40
MGRXIXMB_XSYSEVENT_YES	A60	80
MGRXIXMB_XSYSEVENTS	A60	
MGRXIXMB_XVERSION	A38	
MGRXIXMBL	A60	29
MGRXIXMC	A68	
MGRXIXMC_XEYECATCH	A69	
MGRXIXMC_XGROUPTOKEN	A80	
MGRXIXMC_XMBOXNAME	A70	
MGRXIXMC_XSTB	A6F	

Table 154. Cross Reference for $DTEMIGR (continued)

Name	Offset	Hex Tag
MGRXIXMC_XSTB_NO	A6F	80
MGRXIXMC_XSTB_YES	A6F	40
MGRXIXMC_XVERSION	A68	
MGRXIXMCL	A80	1C
MGRXIXMD	A38	
MGRXIXMD_XEYECATCH	A39	
MGRXIXMD_XGROUPTOKEN	A50	
MGRXIXMD_XMBOXNAME	A40	
MGRXIXMD_XSTB	A3F	
MGRXIXMD_XSTB_NO	A3F	80
MGRXIXMD_XSTB_YES	A3F	40
MGRXIXMD_XVERSION	A38	
MGRXIXMDL	A50	1C
MGRXIXRM	A38	
MGRXIXRM_KEYUSED_MSGFETCH	A65	80
MGRXIXRM_XDATA	A50	
MGRXIXRM_XDATALEN	A54	
MGRXIXRM_XEYECATCH	A39	
MGRXIXRM_XGROUPTOKEN	A60	
MGRXIXRM_XKEYS	A65	
MGRXIXRM_XMBOXNAME	A40	
MGRXIXRM_XMSGFETCH	A64	
MGRXIXRM_XMSGFETCH_ACKS	A64	10
MGRXIXRM_XMSGFETCH_ALL	A64	80
MGRXIXRM_XMSGFETCH_MESSAGES	A64	40
MGRXIXRM_XMSGFETCH_SYSEVENT	A64	20
MGRXIXRM_XMSGTOKEN	A58	
MGRXIXRM_XRSV0001	A3F	
MGRXIXRM_XVERSION	A38	
MGRXIXRML	A65	2E
MGRXTOKN	998	
MGR1CANC	60C	14
MGR1INIT	60C	4
MGR1NORE	60C	0
MGR1PHA1	60C	8
MGR1PHA2	60C	C
MGR1REQU	60C	0
MGR1UNIN	60C	10
MGR3AWP1	893	8
MGR3AWP2	893	14
MGR3AW01	893	C
MGR3CACK	684	8
MGR3CANC	684	10
MGR3CNCL	893	2C
MGR3CNCM	893	30
MGR3COPY	893	10
MGR3ENDC	893	24
MGR3ENDR	893	20
MGR3INIT	893	4

Table 154. Cross Reference for $DTEMIGR (continued)

Name	Offset	Hex Tag
MGR3MER	684	80
MGR3MOV	684	40
MGR3NOST	893	0
MGR3PERN	893	1C
MGR3PER2	893	18
MGR3P2CM	893	34
MGR3REQC	893	28
MGR3STAT	893	0
MGR3UNIT	893	38
MGR4COPY	685	80
MGR4PH1A	685	40
MGR4WAIS	685	20
MGR5CACK	687	40
MGR5CATC	686	40
MGR5CLER	686	10
MGR5COMP	686	20
MGR5PH2A	686	80
MGR5TLBM	686	1
MGR5TSET	686	2
MGR5WAIS	686	4
MGR5WAIT	686	8
MGR52PER	687	80
MGR6TSET	688	80
MGSPOLP	610	
MGSRMOBJ	65C	
MG1BITMB	60D	10
MG1ERABN	60D	80
MG1ERFL1	60D	
MG1MGBAD	60D	40
MG1RNBAD	60D	20
M00M1143	0	A38
M00M1145	0	A38
M00M1146	A62	
M00M1147	A38	
M00M1148	A38	
M00M1149	0	A38
M00M1150	A38	
M00M1151	0	A38

Chapter 70. $DTEOFF Information

$DTEOFF Programming Interface Information

$DTEOFF is a programming interface.

$DTEOFF Heading Information

Common Name:	Spool Offload subtask DTE Work Area
Macro ID:	$DTEOFF
DSECT Name:	DTE ($DTEOFF is part of the DTE DSECT)
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'DTE ' Offset: DTEID-DTE Length: 4
Storage Attributes:	Subpool: see $DTE Key: see $DTE Residency: see $DTE
Size:	See the DTELEN equate for the length of the base DTE, and the DOFWLEN equate for the length of a Spool offload DTE extension.
Created by:	$DTEDYN ATTACH, called from the Spool Offload I/O manager JES2 processor to ATTACH the Spool Offload subtask for the Spool Offload in response to a $S command against a drained device. The subtask (and DTE) definitions are defined in the $DTETAB tables.
Pointed to by:	The $DTEOFF field of the $HCT data area points into the $DTEORG/$DTELAST chain, to the first Spool Offload $DTE control block. See $DTE for other pointer fields that apply to all DTE types.
Serialization:	This area is used by the Spool-offload subtask. Other tasks can not use it.
Function:	The Spool-offload subtask DTE work area DSECT, $DTEOFF, describes the work area extension to the DTE for that kind of subtask. The mapping defines the fields after label DTEWORK. There is one Spool Offload I/O Manager PCE (defined by $PCE control block) in a JES2 address space. This $PCE attaches a spool offload subtask for each Spool Offload Device that is started via the $S command. The JES2 $DTEDYN service used for the ATTACH creates a DTE, mapped by the $DTE macro, with a function-specific extension, mapped by this macro. The DTE is the general control block used by JES2 to communicate with its daughter tasks.

$DTEOFF mapping

Table 155. Structure DTE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DTE	HASPOFF DTE WORK AREA EXTENSION
1544	(608)	DBL WORD	8	DOFWSTRT(0)	
1544	(608)	X'4'	0	DOFOPENR	"04" SUB-TASK REQUEST CODE FOR OPEN
1544	(608)	X'8'	0	DOFCLOSR	"08" SUB-TASK REQUEST CODE FOR CLOSE
1544	(608)	X'C'	0	DOFCHEKR	"12" SUB-TASK REQUEST CODE FOR CHECK DATA CONTROL BLOCK
1544	(608)	SIGNED	4	DOFDCBST(0)	ORIGIN ON WORD BOUNDARY DIRECT ACCESS DEVICE INTERFACE
1544	(608)	ADDRESS	4		
1548	(60C)	BITSTRING	12		FDAD, DVTBL
1560	(618)	ADDRESS	4		KEYLEN, DEVT, TRBAL COMMON ACCESS METHOD INTERFACE
1564	(61C)	ADDRESS	1		BUFNO, NUMBER OF BUFFERS
1565	(61D)	ADDRESS	3		BUFCB, BUFFER POOL CONTROL BLOCK
1568	(620)	ADDRESS	2		BUFL, BUFFER LENGTH
1570	(622)	BITSTRING	2		DSORG, DATA SET ORGANIZATION
1572	(624)	ADDRESS	4		IOBAD FOR EXCP OR RESERVED FOUNDATION EXTENSION
1576	(628)	BITSTRING	1		BFTEK, BFALN, DCBE INDICATORS
1577	(629)	ADDRESS	3		EODAD (END OF DATA ROUTINE ADDRESS)
1580	(62C)	BITSTRING	1		RECFM (RECORD FORMAT)
1581	(62D)	ADDRESS	3		EXLST (EXIT LIST ADDRESS) FOUNDATION BLOCK
1584	(630)	CHARACTER	8		DDNAME
1592	(638)	BITSTRING	1		OFLGS (OPEN FLAGS)
1593	(639)	BITSTRING	1		IFLGS (IOS FLAGS)
1594	(63A)	BITSTRING	2		MACR (MACRO FORMAT) BSAM-BPAM-QSAM INTERFACE
1596	(63C)	BITSTRING	1		OPTCD, OPTION CODES
1597	(63D)	ADDRESS	3		CHECK OR INTERNAL QSAM SYNCHRONIZING RTN.
1600	(640)	ADDRESS	4		SYNAD, SYNCHRONOUS ERROR RTN. (3 BYTES)
1604	(644)	SIGNED	2		INTERNAL ACCESS METHOD FLAGS
1606	(646)	ADDRESS	2		
1608	(648)	SIGNED	4		INTERNAL ACCESS METHOD FLAGS
1612	(64C)	ADDRESS	4		INTERNAL ACCESS METHOD USE BSAM-BPAM INTERFACE
1616	(650)	ADDRESS	1		NCP, MAX NUM OF OUTSTANDING READ/WRITES
1617	(651)	ADDRESS	3		EOBR, INTERNAL ACCESS METHOD USE
1620	(654)	ADDRESS	4		EOBW, INTERNAL ACCESS METHOD USE
1624	(658)	ADDRESS	1	(2)	FLAGS AND EITHER DIRCT OR BUFOFF
1626	(65A)	ADDRESS	2		LRECL
1628	(65C)	ADDRESS	4		CNTRL, NOTE, POINT
1628	(65C)	X'608'	0	DOFDCB	"DOFDCBST,*-DOFDCBST" DEFINE BASE AND LENGTH OF DCB

DATA CONTROL BLOCK EXTENSION.

Table 155. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1632	(660)	SIGNED	4	DOFDCBES(0)	0 Alignment and identifier
1636	(664)	SIGNED	2		4 Length of DCBE, minimum is 56
1638	(666)	BITSTRING	2		6 Reserved, should be zero
1640	(668)	ADDRESS	4		8 0 if not open, OPEN points to DCB
1644	(66C)	BITSTRING	4		C Disk address of current member
1648	(670)	BITSTRING	1		10 Flags set by system
1649	(671)	BITSTRING	1		11 Flags set by user
1650	(672)	SIGNED	2		12 Number of stripes if extended format
1652	(674)	BITSTRING	1		14 Flags set by user
1653	(675)	BITSTRING	3		15 Reserved
1656	(678)	BITSTRING	4		18 Reserved
1660	(67C)	SIGNED	4		1C Block size
1664	(680)	BITSTRING	8		20 Reserved & number of blocks in ds
1672	(688)	ADDRESS	4		28 End of data routine address or 0
1676	(68C)	ADDRESS	4		2C I/O error routine (synchronous) or 0
1680	(690)	BITSTRING	6		30 Reserved, should be zero
1686	(696)	ADDRESS	1	(2)	36 MULTACC and MULTSDN
SHORTEST POSSIBLE DCBE IN ANY RELEASE.					
1686	(696)	X'660'	0	DOFDCBE	"DOFDCBES,*-DOFDCBES" DEFINE BASE, LENGTH OF DCBE
1688	(698)	SIGNED	4	DOFDECB	EVENT CONTROL BLOCK
1692	(69C)	BITSTRING	1		TYPE FIELD
1693	(69D)	BITSTRING	1		TYPE FIELD
1694	(69E)	ADDRESS	2		LENGTH
1696	(6A0)	ADDRESS	4		DCB ADDRESS
1700	(6A4)	ADDRESS	4		AREA ADDRESS
1704	(6A8)	ADDRESS	4		RECORD POINTER WORD
OFFLOAD DATA SET HEADER RECORD					
1708	(6AC)	BITSTRING	80	DOFHDBUF	OFFLOAD DATASET HEADER RECORD
1708	(6AC)	ADDRESS	1	DOFHVRSN	VERSION NUMBER
1708	(6AC)	X'2'	0	DOFHVRS1	"2" Current version number
1709	(6AD)	BITSTRING	3		RESERVED
1712	(6B0)	SIGNED	4	DOFHTIME	TIME VERIFICATION STAMP
1716	(6B4)	SIGNED	4	DOFHDATE	DATE VERIFICATION STAMP
1720	(6B8)	CHARACTER	8	DOFHNODE	Node name offload done on
1720	(6B8)	X'14'	0	DOFHDLEN	"*-DOFHVRSN" Length of header record
1728	(6C0)	ADDRESS	2	(0)	Generate assembly error if remapping is larger than base area
1728	(6C0)	SIGNED	4	(0)	
1728	(6C0)	ADDRESS	1	DOFABND	FLAGS FOR ESTAEX
1729	(6C1)	ADDRESS	1		SECOND FLAG BYTE
1730	(6C2)	ADDRESS	1		THIRD FLAG BYTE
1731	(6C3)	ADDRESS	1		VERSION NUMBER
1732	(6C4)	ADDRESS	4		TOKEN VALUE AREA

Table 155. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1736	(6C8)	ADDRESS	4		PARM. LIST ADDR. NOT SPECIFIED
1740	(6CC)	ADDRESS	4		ALET FOR PARM LIST
1744	(6D0)	ADDRESS	4		FOUR BYTE EXIT ADDR
	DYNAMIC ALLOCATE PARAMETER LIST				
1748	(6D4)	ADDRESS	4	DOFDAST	
1752	(6D8)	ADDRESS	1	DOFDARB	LENGTH OF RB
1753	(6D9)	ADDRESS	1		ALLOCATE VERB CODE
1754	(6DA)	ADDRESS	1	(2)	FLAGS1 = DON'T USE EXISTING ALLOC
1756	(6DC)	SIGNED	2	DOFDAERR(2)	ERROR AND INFO CODE
1760	(6E0)	ADDRESS	4	DOFDATPP	POINTER TO TU POINTERS
1764	(6E4)	ADDRESS	4		RESERVED
1768	(6E8)	ADDRESS	1	(4)	FLAGS 2 FIELD
1772	(6EC)	ADDRESS	4	DOFDATP1	
1776	(6F0)	ADDRESS	4	DOFDATP2	
1780	(6F4)	ADDRESS	4	DOFDATP3	
1784	(6F8)	ADDRESS	4	DOFDATP4	
1788	(6FC)	ADDRESS	4	DOFDATP5	
1792	(700)	ADDRESS	4	DOFDATP6	
1796	(704)	ADDRESS	4	DOFDATP7	
1800	(708)	ADDRESS	4	DOFDATP8	
1804	(70C)	ADDRESS	4	DOFDATP9	
1808	(710)	ADDRESS	4	DOFDATPA	
1812	(714)	ADDRESS	4	DOFDATPB	
1816	(718)	ADDRESS	2	DOFDATU1	DSN=
1822	(71E)	CHARACTER	44	DOFDADSN	.....
1866	(74A)	ADDRESS	2	DOFDATU2	
1872	(750)	BITSTRING	1	DOFDADSP	DISP=OLD
1873	(751)	ADDRESS	2	DOFDATU3	RETURN DD NAME
1879	(757)	CHARACTER	8	DOFDADDN	
1887	(75F)	ADDRESS	2	DOFDATU4	UNITCT=
1893	(765)	ADDRESS	1	DOFDAUCT	NN
1894	(766)	ADDRESS	2	DOFDATU5	DISP=CATLG
1901	(76D)	ADDRESS	2	DOFDATU6(3)	UNIT=
1907	(773)	CHARACTER	8	DOFDAUNI	NAME (FROM XDCTUNIT)
1915	(77B)	ADDRESS	2	DOFDATU7(3)	VOLUME COUNT
1921	(781)	ADDRESS	1	DOFDAVOL	MAXIMUM VOLUMES = 255
1922	(782)	ADDRESS	2	DOFDATU8(3)	LABEL=
1928	(788)	ADDRESS	1	DOFDALBL	LABEL TYPE (SL,NL,AL,...)
1929	(789)	ADDRESS	2	DOFDATU9(3)	RETENTION PERIOD
1935	(78F)	ADDRESS	2	DOFDARPD	IN DAYS
1937	(791)	ADDRESS	2	DOFDATUA(2)	SAF PROTECTION OPTION
1941	(795)	ADDRESS	2	DOFDATUB(2)	UNIT=(,,DEFER)
1945	(799)	CHARACTER	1	DOFDATNN(0)	End of text units
	DYNAMIC UN-ALLOCATE PARAMETER LIST				
1948	(79C)	ADDRESS	4	DOFDUST	
1952	(7A0)	ADDRESS	1	DOFDURB	LENGTH OF RB
1953	(7A1)	ADDRESS	1		UNALLOCATE VERB CODE
1954	(7A2)	ADDRESS	1	(2)	FLAGS1 = DON'T USE EXISTING ALLOC
1956	(7A4)	SIGNED	2	(2)	ERROR AND INFO CODE

Table 155. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1960	(7A8)	ADDRESS	4	DOFDUTPP	POINTER TO TU POINTERS
1964	(7AC)	ADDRESS	4		RESERVED
1968	(7B0)	ADDRESS	1	(4)	FLAGS 2 FIELD
1972	(7B4)	ADDRESS	4	DOFDUTP1	
1976	(7B8)	ADDRESS	2	DOFDUTU1	DD NAME
1982	(7BE)	CHARACTER	8	DOFDUDDN	
1992	(7C8)	SIGNED	4	DOFOPRM(0)	ALIGN LIST TO WORD
1992	(7C8)	ADDRESS	1		Option byte
1993	(7C9)	ADDRESS	3		DCB or ACB address
1996	(7CC)	SIGNED	4	DOFABDCC	ABEND COMPLETION CODE
2000	(7D0)	ADDRESS	4	DOFDCTPT	POINTER TO DCT FOR RECOVERY
2004	(7D4)	SIGNED	4	DOFWTECB	
		Pseudo-buffer area for SYNAD/EODAD exits to use for 80-byte header of offload data set. DOFFLAG maps to SPBFLAG1; DOFSYBUF is the origin which corresponds to the start of the buffer.			
2008	(7D8)	BITSTRING	1	DOFFLAG	FLAG FOR SYNAD ROUTINE
		1...		DOFSYNAD	"B'10000000'" I/O ERROR HAS OCCURED
		.1..		DOFEODAD	"B'01000000'" END OF DATA HAS OCCURED
2008	(7D8)	X'7B6'	0	DOFSYBUF	"DOFFLAG-(SPBFLAG1-BFPDSECT)" Beginning of pseudo-buffer
2009	(7D9)	BITSTRING	3		Reserved for future use
		Work area for messages issued from the offload subtask			
2012	(7DC)	SIGNED	4	(0)	
2012	(7DC)	SIGNED	4	DOFMSGA(0)	
2012	(7DC)	ADDRESS	2		TEXT LENGTH
2014	(7DE)	BITSTRING	2		MCSFLAGS
2016	(7E0)	ADDRESS	4		MESSAGE TEXT ADDRESS
2020	(7E4)	ADDRESS	1		VERSION LEVEL
2021	(7E5)	BITSTRING	1		MISCELLANEOUS FLAGS
2022	(7E6)	ADDRESS	1		REPLY LENGTH
2023	(7E7)	ADDRESS	1		LENGTH OF WPX
2024	(7E8)	BITSTRING	2		EXTENDED MCS FLAGS
2026	(7EA)	ADDRESS	2		RESERVED
2028	(7EC)	ADDRESS	4		REPLY BUFFER ADDRESS
2032	(7F0)	ADDRESS	4		REPLY ECB ADDRESS
2036	(7F4)	ADDRESS	4		CONNECT ID
2040	(7F8)	BITSTRING	2		DESCRIPTOR CODES
2042	(7FA)	ADDRESS	2		RESERVED
2044	(7FC)	BITSTRING	16		
2060	(80C)	BITSTRING	2		MESSAGE TYPE
2062	(80E)	ADDRESS	2		MESSAGE'S PRIORITY
2064	(810)	CHARACTER	8		JOB ID
2072	(818)	CHARACTER	8		JOB NAME
2080	(820)	CHARACTER	8		RETRIEVAL KEY
2088	(828)	ADDRESS	4		TOKEN FOR DOM
2092	(82C)	ADDRESS	4		CONSOLE ID
2096	(830)	CHARACTER	8		SYSTEM NAME

Table 155. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2104	(838)	CHARACTER	8		CONSOLE NAME
2112	(840)	ADDRESS	4		REPLY CONSOLE NAME/ID ADDR
2116	(844)	ADDRESS	4		CART ADDRESS
2120	(848)	ADDRESS	4		WSPARM ADDRESS
2120	(848)	X'70'	0	DOFMSGAL	"*-DOFMSGA"
2124	(84C)	ADDRESS	2	DOFMSGL	
2126	(84E)	CHARACTER	100	DOFMSG	
2126	(84E)	X'2AA'	0	DOFWLEN	"*-DOFWSTRT"

Table 156. Cross Reference for $DTEOFF

Name	Offset	Hex Tag
DOFABDCC	7CC	
DOFABND	6C0	
DOFCHEKR	608	C
DOFCLOSR	608	8
DOFDADDN	757	
DOFDADSN	71E	
DOFDADSP	750	1
DOFDAERR	6DC	0
DOFDALBL	788	
DOFDARB	6D8	
DOFDARPD	78F	
DOFDAST	6D4	
DOFDATNN	799	
DOFDATPA	710	
DOFDATPB	714	
DOFDATPP	6E0	
DOFDATP1	6EC	
DOFDATP2	6F0	
DOFDATP3	6F4	
DOFDATP4	6F8	
DOFDATP5	6FC	
DOFDATP6	700	
DOFDATP7	704	
DOFDATP8	708	
DOFDATP9	70C	
DOFDATUA	791	
DOFDATUB	795	
DOFDATU1	718	
DOFDATU2	74A	
DOFDATU3	751	
DOFDATU4	75F	
DOFDATU5	766	
DOFDATU6	76D	
DOFDATU7	77B	
DOFDATU8	782	
DOFDATU9	789	
DOFDAUCT	765	

Table 156. Cross Reference for $DTEOFF (continued)

Name	Offset	Hex Tag
DOFDAUNI	773	
DOFDAVOL	781	
DOFDCB	65C	608
DOFDCBE	696	660
DOFDCBES	660	C4C3C2C5
DOFDCBST	608	
DOFDCTPT	7D0	
DOFDECB	698	0
DOFDUDDN	7BE	
DOFDURB	7A0	
DOFDUST	79C	
DOFDUTPP	7A8	
DOFDUTP1	7B4	
DOFDUTU1	7B8	
DOFEODAD	7D8	40
DOFFLAG	7D8	0
DOFHDATE	6B4	0
DOFHDBUF	6AC	0
DOFHDLEN	6B8	14
DOFHNODE	6B8	40404040
DOFHTIME	6B0	0
DOFHVRSN	6AC	
DOFHVRS1	6AC	2
DOFMSG	84E	40404040
DOFMSGA	7DC	
DOFMSGAL	848	70
DOFMSGL	84C	
DOFOPENR	608	4
DOFOPRM	7C8	
DOFSYBUF	7D8	7B6
DOFSYNAD	7D8	80
DOFWLEN	84E	2AA
DOFWSTRT	608	
DOFWTECB	7D4	0
DTE	0	

Chapter 71. $DTESPL Information

$DTESPL Programming Interface Information

The following field is **NOT** programming interface information:

- SPLSTWA

$DTESPL Heading Information

Common Name: HASP Dynamic Spool Allocation DTE Work Area
Macro ID: $DTESPL
DSECT Name: DTE ($DTESPL is part of the DTE DSECT)
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'DTE '
Offset: DTEID-DTE
Length: 4
Storage Attributes: Subpool: See $DTE
Key: See $DTE
Residency: See $DTE

Size: See the DTELEN equate for the length of the base DTE, and DSPLLEN for the length of a Dynamic Spool Allocation DTE extension.
Created by: Created by $DTEDYN ATTACH during JES2 initialization. The subtask (and DTE) definitions are defined by the $DTETAB definitions.
Pointed to by: The $DTESPOL field of the $HCT data area points into $DTEORG/$DTELAST chain to the first HOSPOOL DTE. See $DTE for other pointer fields that apply to all DTE types.
Serialization: This work area is used serially by the HOSPOOL subtask. No special serialization is necessary.
Function: The Spool Allocation DTE work area DSECT, $DTESPOL, defines a work area used by the JES2 Dynamic Spool Allocation subtask (HOSPOOL).
The mapping defines the fields after label DTEWORK.
This mapping is only used to map DTEs with the value DTEIDSPL in the field DTESTID, indicating this DTE is a Dynamic Spool Allocation DTE.

$DTESPL mapping

Table 157. Structure DTE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DTE	HASP SPOOL ALLOCATION WORK AREA
1544	(608)	CHARACTER	1	SPLSTART(0)	Start of SPL mapping
1544	(608)	ADDRESS	4	SPLUCBPT	UCB address
1548	(60C)	ADDRESS	4	SPLECBA	Address of ECB for subtask
1552	(610)	ADDRESS	4	SPLTGMA	Volume TGM work area
1556	(614)	BITSTRING	32	SPLENQTK	ISGENQ token
1588	(634)	ADDRESS	4	SPLSTWA	Address subtask work area

Table 157. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1592	(638)	SIGNED	4	(10)	Reserved for future use
1592	(638)	X'58'	0	SPLNCLEA	"*-SPLUCBPT" Length to be *not* zeroed
1632	(660)	CHARACTER	1	SPLCSTRT(0)	Fields to be zeroed
1632	(660)	BITSTRING	1	SPLFLG1	REQUEST FLAG BYTE
		1...		SPL1FMT	"B'10000000'" Volume to be formatted
		.1..		SPL1NFMT	"B'01000000'" Volume not to be formatted
		..1.		SPL1MFMT	"B'00100000'" Vol to be mini-formatted
		...1		SPL1UNAL	"B'00010000'" Volume to be unallocated
		.... 1...		SPL1ALLO	"B'00001000'" Volume to be allocated
		.... .1..		SPL1BAD	"B'00000100'" Task attached for BADTRACK
		.... ..1.		SPL1WFMT	"B'00000010'" Volume was formatted
1633	(661)	BITSTRING	1	SPLFLG2	ERROR FLAG BYTE
		1...		SPL2OBT	"B'10000000'" OBTAIN error
		.1..		SPL2FMT	"B'01000000'" I/O error during formatting
		..1.		SPL2RDER	"B'00100000'" SPOOL read or block length error
		...1		SPL2UNAL	"B'00010000'" Dynamic allocate error
		.... 1...		SPL2ABND	"B'00001000'" Sub-task ABENDed
		.... .1..		SPL2DVTP	"B'00000100'" DEVTYPE error
		.... ..1.		SPL2EXT	"B'00000010'" Extent size limited to 64K tracks due to number of records per track exceeds 15.
		1		SPL2SIZE	"B'00000001'" Data set size error
1634	(662)	BITSTRING	1	SPLFLG3	Subtask status flags
		1...		SPL3TGBG	"B'10000000'" Formatting 1st trk in TG
		.1..		SPL3ECKD	"B'01000000'" This is ECKD device
		..1.		SPL3RDTD	"B'00100000'" Extent supports read track data CCW
		...1		SPL3WTRD	"B'00010000'" Extent supports write track data CCW
		.... 1...		SPL3RELT	"B'00001000'" Volume using relative addressing
		.... .1..		SPL3LGDS	"B'00000100'" Volume using large data set addressing
		.... ..1.		SPL3NLGD	"B'00000010'" Not all members support large data sets
		1		SPL3RPS	"B'00000001'" Extent supports RPS
1635	(663)	BITSTRING	1	SPLFLG4	Additional ERROR flag byte

Table 157. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		SPL4ENQF	"B'10000000'" Exclusive ENQ unable to be obtained
		.1..		SPL4UCBF	"B'01000000'" UCBINFO macro failed
		..1.		SPL4CDRF	"B'00100000'" IOSCDR macro failed
		...1		SPL4NNED	"B'00010000'" No NED found
		.... 1...		SPL4DIAG	"B'00001000'" DIAGNOSE inst error
		.... .1..		SPL4NQSK	"B'00000100'" ENQ bypassed due to minor name construction problem(warm start only)
		.... ..1.		SPL4LSPA	"B'00000010'" LSPACE error - Error obtaining information on largest extent available
		1		SPL4LIMT	"B'00000001'" Spool dataset extent size exceeds 1,048,575 track limit
1636	(664)	SIGNED	4	SPLNUMTC	$SSPL and this field contains the number of cylinders or tracks requested for a new volume if the $SSPL SPACE parm was specified
1640	(668)	BITSTRING	1	SPLFLG5	Additional flag byte
		1...		SPL5MAX	"B'10000000'" MAX - $SSPL and MAX has been specified on SPACE keyword parm
		.1..		SPL5CYLS	"B'01000000'" CYL - $SSPL and CYL has been specified on SPACE keyword parm
		..1.		SPL5TRKS	"B'00100000'" TRK - $SSPL and TRK has been specified on SPACE keyword parm
		...1		SPL5DSET	"B'00010000'" The spool subtask HOSPOOL created a spool dataset for this volume.
		.... 1...		SPL5EASA	"B'00001000'" The HOSPOOL subtask allocation is EAS capable. This pertains to both disp(new/old).
		.... .1..		SPL5MIDA	"B'00000100'" The extent supports MIDAWs
		.... ..1.		SPL5LARG	"B'00000010'" Non-LARGEDS is NOT option if records per track > 15. For move migration - handles difference in recs per track geometry when source is on 3380 and target is on 3390 and BUFSIZE is certain value.
1641	(669)	BITSTRING	1	SPLFLG6	Additional ERROR flag byte WARNING!! only used for spool subtask errors - SPLFLG2 also reflects subtask errors.
		1...		SPL6TRKG	"B'10000000'" Spool extent is too small

Table 157. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		SPL6DSNL	"B'01000000'" Non-standard DSNAME requested in z2 mode
		..1.		SPL6XTER	"B'00100000'" Extend spool failure
1642	(66A)	BITSTRING	1	SPLFLG7	Additional request flg byte
		1...		SPL7XTND	"B'10000000'" The HOSPOOL subtask request is EXTEND SPOOL
		.1..		SPL7ENQ	"B'01000000'" The SPOOL ENQ is held
1643	(66B)	BITSTRING	1		Ensure alignment
1644	(66C)	SIGNED	4	SPLURC	UCBINFO return code
1648	(670)	SIGNED	4	SPLURSN	UCBINFO reason code
1652	(674)	ADDRESS	4	SPLCHAIN	ADDRESS OF NEXT WORK AREA
1656	(678)	ADDRESS	4	SPLDYNAL	ADDRESS OF DYNAMIC ALLOCATE RB
1660	(67C)	SIGNED	4	SPLDYNRB(0)	Dynamic allocate req block
1680	(690)	SIGNED	4	(0)	Ensure alignment
1680	(690)	BITSTRING	36	SPLDYRBX	Request block extension
1716	(6B4)	SIGNED	4	(0)	Ensure alignment
1716	(6B4)	ADDRESS	4	SPLDYMPA	Address of DYNALLOC alloc error message parameter list
1720	(6B8)	ADDRESS	4	SPLDMSG1	Address of returned MSG #1 for DYNALLOC failure
1724	(6BC)	ADDRESS	4	SPLDMSG2	Address of returned MSG #2 for DYNALLOC failure
1728	(6C0)	BITSTRING	540	SPLDYMSP	The parm list + returned formatted messages area
2268	(8DC)	SIGNED	4	SPLOBTER	Obtain error return code
2272	(8E0)	ADDRESS	4	SPLTEXT(0)	LIST OF TEXT UNIT POINTERS
2272	(8E0)	ADDRESS	4	SPLDDTA	POINTER TO DDNAME TEXT UNIT
2276	(8E4)	ADDRESS	4	SPLDSNTA	POINTER TO DSNAME TEXT UNIT
2280	(8E8)	ADDRESS	4	SPLUDSPA(0)	POINTER TO DISP. TEXT UNIT FOR UNALLOCATION REQUESTS
2280	(8E8)	ADDRESS	4	SPLVOLTA	POINTER TO VOLUME SERIAL TXT UNIT
2284	(8EC)	ADDRESS	4	SPLUNITA	POINTER TO UNIT NAME TEXT UNIT
2288	(8F0)	ADDRESS	4	SPLDSPTA	POINTER TO DISPOSITION TEXT UNIT
		End of text unit pointers common for both deallocation and allocation.			
2292	(8F4)	ADDRESS	4	SPLEASTA	Pointer to EAS storage indicator. Valid for allocation DISP=(old/new)
		Following text unit pointers are only valid for allocation (disp=new).			
2296	(8F8)	ADDRESS	4	SPLTRKNA	Pointer to track requested text unit
2300	(8FC)	ADDRESS	4	SPLNUMTA	Pointer to number of units requested - text unit
2304	(900)	ADDRESS	4	SPLCONTA	Pointer to contiguous storage requested - text unit
2308	(904)	ADDRESS	4	SPLDKEPA	Pointer to data space disposition (KEEP) - TEXT unit

Table 157. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2312	(908)	ADDRESS	4	SPLDSORA	Pointer to DSORG requested text unit
2316	(90C)	ADDRESS	4	SPLDSTYA	Pointer to data set type specification
2320	(910)	BITSTRING	6	SPLDDTXT	DDNAME TEXT
2326	(916)	CHARACTER	8	SPLDDNAM	DDNAME
2334	(91E)	BITSTRING	6	SPLDSTXT	DSNAME TEXT
2340	(924)	CHARACTER	44	SPLDSNAM	DSNAME
2384	(950)	BITSTRING	6	SPLVLTXT	VOLUME SERIAL TEXT
2390	(956)	CHARACTER	6	SPLVOLID	VOLUME SERIAL
2396	(95C)	BITSTRING	6	SPLUNTXT	UNIT TEXT
2402	(962)	CHARACTER	5	SPLUNIT	Unit Name (or Type)
2410	(96A)	BITSTRING	7	SPLDPTXT	DISPOSITION TEXT, DISPOSITION
2417	(971)	BITSTRING	4	SPLTRACK	Tracks requested text
2421	(975)	BITSTRING	9	SPLNUMTK	Number units requested text
2430	(97E)	BITSTRING	7	SPLCONTX	Contig storage request text
2437	(985)	BITSTRING	8	SPLDSORT	Data set organization text
2445	(98D)	BITSTRING	7	SPLDSKEP	Data set disp (KEEP) text
2452	(994)	BITSTRING	7	SPLDSTYP	Data set type = basic or large format
2459	(99B)	BITSTRING	7	SPLEASTX	Data set may or may not reside in EAS storage
2468	(9A4)	SIGNED	4	SPLCMLST(4)	CAMLST FOR OBTAIN
2488	(9B8)	DBL WORD	8	SPLDSCB(0)	OBTAIN WORK AREA
2636	(A4C)	BITSTRING	1	SPLINEAS	Indication that all or at least a portion of the extent resides in EAV - EAS storage.
		1...		SPLEAS	"B'10000000'" Yes - in EAS
2637	(A4D)	BITSTRING	3		Reserved for future use
2640	(A50)	SIGNED	4	(0)	Ensure alignment
2640	(A50)	CHARACTER	8	SPLSTRCC(0)	VOLUME'S FIRST EXTENT
2640	(A50)	SIGNED	2	SPLOWLIM(2)	LOWER CCccch of 1st extent Note: stored in absolute format
2644	(A54)	SIGNED	2	SPLUPLIM(2)	UPPER CCccch of 1st extent Note: stored in absolute format
2648	(A58)	SIGNED	4	SPLCRC	IOSCDR return code
2652	(A5C)	SIGNED	4	SPLCRSN	IOSCDR reason code
		SPLABS is the absolute start and end track returned from allocating a spool data set. SPLTRK is the 2 byte track range that is to be placed in the DAS. SPLTRK are relative track numbers if SPL3RELT is on, otherwise they are absolute track numbers. if relative addresses are used, the low track is always 1. SPLSTRK is the value to add to a relative track address to get an absolute track address. If absolute addressing is being used, SPLSTRK is zero. (You can always add SPLSTRK to a track address to obtain an absolute track address).			
2656	(A60)	DBL WORD	8	SPLABS(0)	DS start/end absolute track
2656	(A60)	SIGNED	4	SPLOWABS	Start absolute track no.
2660	(A64)	SIGNED	4	SPLUPABS	End absolute track number
2664	(A68)	DBL WORD	8	SPLTRK(0)	SPOOL start and end track
2664	(A68)	SIGNED	4	SPLOWTRK	Start track value

Table 157. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2668	(A6C)	SIGNED	4	SPLUPTRK	End track value
2672	(A70)	SIGNED	4	SPLSTRK	Base track address (if relative addressing used)
2676	(A74)	SIGNED	4	SPLECB	DIRECT ACCESS I/O WAIT ECB
2680	(A78)	BITSTRING	44	SPLIOB	Direct access IOB
2724	(AA4)	BITSTRING	48	SPLIOBE	Reserve space for IOB extension
2772	(AD4)	SIGNED	4	(0)	Ensure word alignment
2772	(AD4)	BITSTRING	48	SPLIEDB	Reserve space for I/O error data block
2820	(B04)	BITSTRING	1	SPLDEB	SPOOL DEB address
2820	(B04)	X'B04'	0	SPLDEBB	"SPLDEB,DEBBASIZ" DEB basic
2820	(B04)	X'B24'	0	SPLDEBE	"SPLDEB+DEBBASIZ,DEBEXLEN" Single DA extent
2868	(B34)	ADDRESS	4	SPLNVL	NVL address (during init)
2872	(B38)	ADDRESS	4	SPLTCBPT	TCB ADDRESS (USED DURING INIT.)
2876	(B3C)	SIGNED	4	SPLTKCYL	NUMBER OF HEADS PER CYLINDER
2880	(B40)	SIGNED	2	SPLNORTK	NUMBER OF RECORDS PER TRACK
2882	(B42)	SIGNED	2	SPLNOTGP	NUMBER OF TRACKS PER GROUP
2884	(B44)	SIGNED	4	SPLINTRK	Expected number of tracks or zero (set from DAS on warm start)
2888	(B48)	SIGNED	4	SPLNMTRK	Number of tracks in extent
2892	(B4C)	SIGNED	4	SPLNOBYM	Number of bytes in TGM
2896	(B50)	SIGNED	4	SPLNUMTG	NUMBER OF USABLE TRACK GROUPS
2900	(B54)	SIGNED	4	SPLMAXTG	Copy of $NUMTG from HCT
2904	(B58)	ADDRESS	4	SPLFMTWA	SPFORMAT work area address
2908	(B5C)	SIGNED	4	SPLFMTWL	SPFORMAT work area size
2912	(B60)	ADDRESS	4	SPLFMTWD	Work area data section ptr
2916	(B64)	ADDRESS	4	SPLFMTDA	Format buffer write area
2920	(B68)	DBL WORD	8	SPLCCWS(0)	CCWS FOR READ COUNT-KEY-DATA
2920	(B68)	DBL WORD	8	SPLCCW1	1ST CCW
2928	(B70)	DBL WORD	8	SPLCCW2	2ND CCW
2936	(B78)	DBL WORD	8	SPLCCW3	3RD CCW
2944	(B80)	DBL WORD	8	SPLRDCT	READ-IN AREA
2952	(B88)	ADDRESS	4	SPLCFLDS	POINTER TO 8 BEFORE 1ST COUNT FLD
		Fields used as input to SPFORMAT			
2960	(B90)	DBL WORD	8	(0)	Alignment
2960	(B90)	CHARACTER	7	SPLFMSTR	MBBCCHH of the first/only track to be formatted
2967	(B97)	CHARACTER	1		Reserved
2968	(B98)	CHARACTER	7	SPLFMEND	MMBBCCHH of last track to be formatted.
2975	(B9F)	CHARACTER	1		Reserved
		Input parameters for SPMINIFM (mapped by SFMPARM in HASPSPOL)			
2976	(BA0)	BITSTRING	1	SPLMFPRM	SPMINIFM parameter list
		SPLOUTP and SPLOUTPL describe an output area used by the UCBINFO and IOSCDR macros.			
3008	(BC0)	ADDRESS	4	SPLOUTP	Address of output area
3012	(BC4)	SIGNED	4	SPLOUTPL	Length of output area

Table 157. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
3016	(BC8)	SIGNED	4	SPLCDRAS	Size of IOSCDR output area necessary
3020	(BCC)	SIGNED	4	SPLDIAGR	DIAGNOSE return code
3024	(BD0)	BITSTRING	1	SPLCHPID	CHPID used for IOSCDR
3025	(BD1)	BITSTRING	3		Reserved for future use
3028	(BD4)	SIGNED	4	(4)	Reserved for future use
3048	(BE8)	DBL WORD	8	(0)	
3048	(BE8)	BITSTRING	1	SPLEXDS	$EXTENDS list form
3048	(BE8)	X'64'	0	SPLEXDLN	"*-SPLEXDS" Length of parm list
3148	(C4C)	SIGNED	4	SPLMXTRK	Maximum number of tracks allowed in a SPOOL.
3152	(C50)	BITSTRING	1	SPLEXTNO	Extent number
3153	(C51)	CHARACTER	1		Reserved for alignment
	MACDATE -01/22/01-<1>				
0	(0)	X'C58'	0	M00M1152	"SPLCAPU" ++ IOSCAPU NAME
3160	(C58)	DBL WORD	8	SPLCAPU(0)	++ IOSCAPU PARM LIST
3160	(C58)	BITSTRING	1	SPLCAPU_XVERSION	++ INPUT XVERSION
3161	(C59)	BITSTRING	1	SPLCAPU_XFLAGS1	++ FIELD_LABEL
		1...		SPLCAPU_KEYUSED_CAPTUCB	"B'10000000'" ++ KEYUSED.CAPTUCB KEYWORD
		.1..		SPLCAPU_KEYUSED_UCAPTUCB	"B'01000000'" ++ KEYUSED.UCAPTUCB KEYWORD
		..1.		SPLCAPU_KEYUSED_CAPTOACT	"B'00100000'" ++ KEYUSED.CAPTOACT KEYWORD
		...1		SPLCAPU_KEYUSED_ASID	"B'00010000'" ++ KEYUSED.ASID KEYWORD
		.... 1...		SPLCAPU_KEYUSED_UCBPTR	"B'00001000'" ++ KEYUSED.UCBPTR KEYWORD
		.... .1..		SPLCAPU_KEYUSED_CAPTPTR	"B'00000100'" ++ KEYUSED.CAPTPTR KEYWORD
3162	(C5A)	CHARACTER	2	SPLCAPU_XRESERVED1	++ FIELD_LABEL XRESERVED1
3164	(C5C)	ADDRESS	4	SPLCAPU_XUCBPTR	++ XUCBPTR
3168	(C60)	ADDRESS	4	SPLCAPU_XCAPTPTR	++ XCAPTPTR
3172	(C64)	CHARACTER	1	SPLCAPU_XRESERVED2	++ FIELD_LABEL XRESERVED2
3173	(C65)	BITSTRING	1	SPLCAPU_XMASK	++ FIELD_LABEL
		1...		SPLCAPU_XMSIFREE_YES	"B'10000000'" ++ XMSIFREE.YES KEYWORD
		.1..		SPLCAPU_XLASTING_YES	"B'01000000'" ++ XLASTING.YES KEYWORD
		..1.		SPLCAPU_XCAPTCOM_YES	"B'00100000'" ++ XCAPTCOM.YES KEYWORD
		...1		SPLCAPU_XCAPTCOM_NEVER	"B'00010000'" ++ XCAPTCOM.NEVER KEYWORD
3174	(C66)	BITSTRING	2	SPLCAPU_XASID	++ XASID
3176	(C68)	CHARACTER	16	SPLCAPU_XRESERVED3	++ FIELD_LABEL XRESERVED3
3176	(C68)	X'20'	0	SPLCAPUL	"*-SPLCAPU" ++ LENGTH OF PLIST
				IOSCAPU-1	
0	(0)	X'9B8'	0	SPLMSG	"SPLDSCB,80" SUBTASK MESSAGE AREA
0	(0)	X'A08'	0	SPLWORK	"SPLDSCB+L'SPLMSG,10" SUBTASK MESSAGE WORK ARES

Table 157. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'A12'	0	SPLCC	"SPLWORK+L'SPLWORK,4" SUBTASK ABEND COMPLETION CODE
3192	(C78)	DBL WORD	8	(0)	EST DOUBLE WORD ALIGNMENT
3192	(C78)	X'660'	0	SPLCLEAR	"SPLCSTRT" Area to be zeroed
3192	(C78)	X'618'	0	SPLCLRLN	"*-SPLCSTRT" Length of area to clear
3192	(C78)	X'670'	0	DSPLLEN	"*-DTEWORK" Length of work area

Table 158. Cross Reference for $DTESPL

Name	Offset	Hex Tag
DSPLLEN	C78	670
DTE	0	
M00M1152	0	C58
SPLABS	A60	
SPLCAPU	C58	
SPLCAPU_KEYUSED_ASID	C59	10
SPLCAPU_KEYUSED_CAPTOACT	C59	20
SPLCAPU_KEYUSED_CAPTPTR	C59	4
SPLCAPU_KEYUSED_CAPTUCB	C59	80
SPLCAPU_KEYUSED_UCAPTUCB	C59	40
SPLCAPU_KEYUSED_UCBPTR	C59	8
SPLCAPU_XASID	C66	
SPLCAPU_XCAPTCOM_NEVER	C65	10
SPLCAPU_XCAPTCOM_YES	C65	20
SPLCAPU_XCAPTPTR	C60	
SPLCAPU_XFLAGS1	C59	
SPLCAPU_XLASTING_YES	C65	40
SPLCAPU_XMASK	C65	
SPLCAPU_XMSIFREE_YES	C65	80
SPLCAPU_XRESERVED1	C5A	
SPLCAPU_XRESERVED2	C64	
SPLCAPU_XRESERVED3	C68	
SPLCAPU_XUCBPTR	C5C	
SPLCAPU_XVERSION	C58	
SPLCAPUL	C68	20
SPLCC	0	A12
SPLCCWS	B68	
SPLCCW1	B68	
SPLCCW2	B70	
SPLCCW3	B78	
SPLCDRAS	BC8	
SPLCFLDS	B88	
SPLCHAIN	674	
SPLCHPID	BD0	
SPLCLEAR	C78	660
SPLCLRLN	C78	618
SPLCMLST	9A4	
SPLCONTA	900	

Table 158. Cross Reference for $DTESPL (continued)

Name	Offset	Hex Tag
SPLCONTX	97E	
SPLCRC	A58	
SPLCRSN	A5C	
SPLCSTRT	660	
SPLDDNAM	916	
SPLDDTA	8E0	
SPLDDTXT	910	
SPLDEB	B04	
SPLDEBB	B04	B04
SPLDEBE	B04	B24
SPLDIAGR	BCC	
SPLDKEPA	904	
SPLDMSG1	6B8	
SPLDMSG2	6BC	
SPLDPTXT	96A	
SPLDSCB	9B8	
SPLDSKEP	98D	
SPLDSNAM	924	
SPLDSNTA	8E4	
SPLDSORA	908	
SPLDSORT	985	
SPLDSPTA	8F0	
SPLDSTXT	91E	
SPLDSTYA	90C	
SPLDSTYP	994	
SPLDYMPA	6B4	
SPLDYMSP	6C0	
SPLDYNAL	678	
SPLDYNRB	67C	
SPLDYRBX	690	
SPLEAS	A4C	80
SPLEASTA	8F4	
SPLEASTX	99B	
SPLECB	A74	
SPLECBA	60C	
SPLENQTK	614	
SPLEXDLN	BE8	64
SPLEXDS	BE8	0
SPLEXTNO	C50	
SPLFLG1	660	
SPLFLG2	661	
SPLFLG3	662	
SPLFLG4	663	
SPLFLG5	668	
SPLFLG6	669	
SPLFLG7	66A	
SPLFMEND	B98	
SPLFMSTR	B90	
SPLFMTDA	B64	

Table 158. Cross Reference for $DTESPL (continued)

Name	Offset	Hex Tag
SPLFMTWA	B58	
SPLFMTWD	B60	
SPLFMTWL	B5C	
SPLIEDB	AD4	
SPLINEAS	A4C	
SPLINTRK	B44	
SPLIOB	A78	
SPLIOBE	AA4	
SPLMAXTG	B54	
SPLMFPRM	BA0	
SPLMSG	0	9B8
SPLMXTRK	C4C	
SPLNCLEA	638	58
SPLNMTRK	B48	
SPLNOBYM	B4C	
SPLNORTK	B40	
SPLNOTGP	B42	
SPLNUMTA	8FC	
SPLNUMTC	664	
SPLNUMTG	B50	
SPLNUMTK	975	
SPLNVL	B34	
SPLOBTER	8DC	
SPLOUTP	BC0	
SPLOUTPL	BC4	
SPLOWABS	A60	
SPLOWLIM	A50	
SPLOWTRK	A68	
SPLRDCT	B80	
SPLSTART	608	
SPLSTRCC	A50	
SPLSTRK	A70	
SPLSTWA	634	
SPLTCBPT	B38	
SPLTEXT	8E0	
SPLTGMA	610	
SPLTKCYL	B3C	
SPLTRACK	971	
SPLTRK	A68	
SPLTRKNA	8F8	
SPLUCBPT	608	
SPLUDSPA	8E8	
SPLUNIT	962	
SPLUNITA	8EC	
SPLUNTXT	95C	
SPLUPABS	A64	
SPLUPLIM	A54	
SPLUPTRK	A6C	
SPLURC	66C	

Table 158. Cross Reference for $DTESPL (continued)

Name	Offset	Hex Tag
SPLURSN	670	
SPLVLTXT	950	
SPLVOLID	956	
SPLVOLTA	8E8	
SPLWORK	0	A08
SPL1ALLO	660	8
SPL1BAD	660	4
SPL1FMT	660	80
SPL1MFMT	660	20
SPL1NFMT	660	40
SPL1UNAL	660	10
SPL1WFMT	660	2
SPL2ABND	661	8
SPL2DVTP	661	4
SPL2EXT	661	2
SPL2FMT	661	40
SPL2OBT	661	80
SPL2RDER	661	20
SPL2SIZE	661	1
SPL2UNAL	661	10
SPL3ECKD	662	40
SPL3LGDS	662	4
SPL3NLGD	662	2
SPL3RDTD	662	20
SPL3RELT	662	8
SPL3RPS	662	1
SPL3TGBG	662	80
SPL3WTRD	662	10
SPL4CDRF	663	20
SPL4DIAG	663	8
SPL4ENQF	663	80
SPL4LIMT	663	1
SPL4LSPA	663	2
SPL4NNED	663	10
SPL4NQSK	663	4
SPL4UCBF	663	40
SPL5CYLS	668	40
SPL5DSET	668	10
SPL5EASA	668	8
SPL5LARG	668	2
SPL5MAX	668	80
SPL5MIDA	668	4
SPL5TRKS	668	20
SPL6DSNL	669	40
SPL6TRKG	669	80
SPL6XTER	669	20
SPL7ENQ	66A	40
SPL7XTND	66A	80

Chapter 72. $DTESUBS Information

$DTESUBS Programming Interface Information

$DTESUBS is a programming interface.

$DTESUBS Heading Information

Common Name: HASPSUBS DTE Work Area Extension
Macro ID: $DTESUBS
DSECT Name: DTE
Owning Component: JES2 (SC1BH)
Eye-Catcher ID:
```
DTE
Offset:  DTEID
Length:  L'DTEID
```
Storage Attributes:
```
Subpool:   0
Key:       1
Residency: Virtual in 24 bit storage, real in 31 bit storage in
the JES2 address space
```

Size: See DSUBLEN
Created by: $DTEDYNA service in HASPDYN
Pointed to by:
```
$DTEGSUB field of the HCT data area
DTENEXT  field of the DTE data area
DTEPREV  field of the DTE data area
SBWQORG  field of the STWORK data area
DSUBNXT  field of the DTE data area
```
Serialization: None required
Function:
```
The $DTESUBS DSECT maps the work area extension for
the HASPSUBS subtask(s).
```

$DTESUBS mapping

Table 159. Structure DTE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DTE	HASPSUBS DTE work area ext
1544	(608)	BITSTRING	1	DSUBFLG1	Flags
		1...		DSUB1NSQ	"B'10000000'" SQD invalid or unavailable
		.1..		DSUB1DEC	"B'01000000'" Subtask count decremented
1545	(609)	BITSTRING	3		Reserved
1548	(60C)	ADDRESS	4	DSUBSQD	Address of work SQD
1552	(610)	ADDRESS	4	DSUBNXT	Address of next subtask in chain
1556	(614)	ADDRESS	4	DSUBSAVE	Address of save area used by called routine
Subtask VRA and recovery fields.					
1560	(618)	ADDRESS	4	DSUBLOC	HA$PSUBS base address
1564	(61C)	SIGNED	2	DSUBABND	Subtask abend count
1566	(61E)	BITSTRING	2		Reserved

Table 159. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1568	(620)	CHARACTER	8	DSUBRNAM	Routine name
1576	(628)	ADDRESS	4	DSUBCLRA	$SUBIT caller address
1580	(62C)	CHARACTER	8	DSUBMOD	$SUBIT caller module name
1588	(634)	SIGNED	4	DSUBOFF	$SUBIT caller offset
1592	(638)	BITSTRING	1	DSUBFOOT	Subtask footprint flag byte
		1...		DSUBFTWK	"B'10000000'" Set prior to obtaining work
		.1..		DSUBFTST	"B'01000000'" Set prior to processing request
		..1.		DSUBFTCL	"B'00100000'" Set prior to calling routine
		...1		DSUBFTRC	"B'00010000'" Set following return from routine
		.... 1...		DSUBFTPS	"B'00001000'" Set following caller post
		.... .1..		DSUBFTSQ	"B'00000100'" Set prior to subtask queuing
		.... ..1.		DSUBFTWT	"B'00000010'" Set prior to subtask wait
1593	(639)	BITSTRING	7		Reserved
1600	(640)	DBL WORD	8	DSUBPRFS(0)	Perf stats for SUBSPERF
1600	(640)	DBL WORD	8	DSUBQTIM	Last SQD queue time (micro)
1608	(648)	DBL WORD	8	DSUBRTIM	Last SQD run time (micro)
1616	(650)	DBL WORD	8	DSUBCTIM	Last SQD CPU time (micro)
1624	(658)	DBL WORD	8		Reserved
MACRO-DATE = 03/16/2015					
1632	(660)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
1632	(660)	X'660'	0	DSUBDEQL	"*" X02113
1632	(660)	ADDRESS	1		PELLAST flag byte. X02113
1633	(661)	ADDRESS	1		PELMILEN - RNAME length.
1634	(662)	BITSTRING	1		
PELFLAG - flag byte 2.					
1635	(663)	ADDRESS	1		PELRET - return code byte.
1636	(664)	ADDRESS	4		QNAME ADDRESS
1640	(668)	ADDRESS	4		RNAME ADDRESS
1640	(668)	X'660'	0	DSUBDQLS	"DSUBDEQL,*-DSUBDEQL" DEQ list form symbol
1648	(670)	DBL WORD	8	(0)	Align
1648	(670)	X'68'	0	DSUBLEN	"*-DTEWORK" HASPSUBS work area length

Table 160. Cross Reference for $DTESUBS

Name	Offset	Hex Tag
DSUBABND	61C	
DSUBCLRA	628	
DSUBCTIM	650	
DSUBDEQL	660	660
DSUBDQLS	668	660
DSUBFLG1	608	
DSUBFOOT	638	

Table 160. Cross Reference for $DTESUBS (continued)

Name	Offset	Hex Tag
DSUBFTCL	638	20
DSUBFTPS	638	8
DSUBFTRC	638	10
DSUBFTSQ	638	4
DSUBFTST	638	40
DSUBFTWK	638	80
DSUBFTWT	638	2
DSUBLEN	670	68
DSUBLOC	618	
DSUBMOD	62C	
DSUBNXT	610	
DSUBOFF	634	
DSUBPRFS	640	
DSUBQTIM	640	
DSUBRNAM	620	
DSUBRTIM	648	
DSUBSAVE	614	
DSUBSQD	60C	
DSUB1DEC	608	40
DSUB1NSQ	608	80
DTE	0	

Chapter 73. $DTEVTAM Information

$DTEVTAM Programming Interface Information

$DTEVTAM is a programming interface.

$DTEVTAM Heading Information

Common Name: HASPVTAM subtask DTE work area extension
Macro ID: $DTEVTAM
DSECT Name: DTE ($DTEVTAM is part of the DTE DSECT)
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'DTE '
Offset: DTEID-DTE
Length: 4
Storage Attributes: Subpool: see $DTE
Key: see $DTE
Residency: see $DTE

Size: See the DTELEN equate for the length of the base DTE, and the DVTMLEN equate for the length of a VTAM DTE extension.
Created by: $DTEDYN ATTACH, called from JES2 initialization processing to ATTACH the DTEs to be associated with a LOGON device. The subtask (and DTE) definitions are defined in the $DTETAB tables.
Pointed to by: The $DTEVTM pointer in the $HCT control block, pointing into the $DTEORG/$DTELAST chain, to the first VTAM $DTE control block. See $DTE for other pointer fields that apply to all DTE types.
Serialization: This work area is used serially by the HASPVTAM subtask. No special serialization is necessary. The chain fields should only be managed by the JES2 main task $DTEDYN and subtask RAS facilities.
Function: This DSECT maps the DTE work area extension for HASPVTAM subtask. The work area is used to pass parameters to VTAM.

$DTEVTAM mapping

Table 161. Structure DTE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DTE	HASPVTAM DTE WORK AREA EXTENSION
1544	(608)	ADDRESS	1	DVTMPWDL	LENGTH OF NODE PASSWORD
1545	(609)	CHARACTER	8	DVTMPSWD	NODE PASSWORD
1553	(611)	ADDRESS	1	DVTMAPNL	LENGTH OF APPL NAME
1554	(612)	CHARACTER	8	DVTMAPLN	APPL NAME
1554	(612)	X'12'	0	DVTMLEN	"*-DTEWORK" LENGTH OF WORK AREA

Chapter 74. $DTEWTO Information

$DTEWTO Programming Interface Information

The following fields are **NOT** programming interface information:

- CSACID
- CSACIDCH

$DTEWTO Heading Information

Common Name:	HASPWTO Subtask DTE Work Area Extension (DWTO)
Macro ID:	$DTEWTO
DSECT Name:	DTE ($DTEWTO is part of the DTE DSECT)
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'DTE ' Offset: DTEID-DTE Length: 4
Storage Attributes:	Subpool: see $DTE Key: see $DTE Residency: see $DTE
Size:	See the DTELEN equate for the length of the base DTE, and the DWTOLEN equate for the length of a WTO DTE extension.
Created by:	$DTEDYN ATTACH called during JES2 initialization. The subtask (and DTE) definitions are defined by the $DTETAB definitions.
Pointed to by:	The $DTEWTO field of the $HCT data area points into $DTEORG/$DTELAST chain to the one WTO DTE See $DTE for other pointer fields that apply to all DTE types.
Serialization:	This area is used serially by callers using $WTO $CWTO, or $BLDMSG (under the main task) and by the HASPWTO subtask. Fields that should be used only by the main task begin at label CSARDWRK.
Function:	The Write To Operator subtask DTE work area DSECT, $DTEWTO, describes the work area extension to the DTE for that subtask. The mapping defines the fields after label DTEWORK. The $DTEWTO area is used by the write-to-operator routine running under the JES2 main task. It is also used by the one (and only one) HASPWTO subtask.

$DTEWTO mapping

Table 162. Structure DTE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DTE	HASPCON DTE WORK AREA EXT
1544	(608)	ADDRESS	4	CSACONWQ	HASPCON subtask work queue
		NORMAL WTO FORMAT			

Table 162. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1552	(610)	DBL WORD	8	CSA(0)	
1552	(610)	SIGNED	4	CSAWTOL(0)	
1552	(610)	ADDRESS	2		TEXT LENGTH
1554	(612)	BITSTRING	2		MCSFLAGS
1556	(614)	CHARACTER	53		
1681	(691)	ADDRESS	1		VERSION LEVEL
1682	(692)	BITSTRING	1		MISCELLANEOUS FLAGS
1683	(693)	ADDRESS	1		REPLY LENGTH
1684	(694)	ADDRESS	1		LENGTH OF WPX
1685	(695)	BITSTRING	2		EXTENDED MCS FLAGS
1687	(697)	ADDRESS	2		RESERVED
1689	(699)	ADDRESS	4		REPLY BUFFER ADDRESS
1693	(69D)	ADDRESS	4		REPLY ECB ADDRESS
1697	(6A1)	ADDRESS	4		CONNECT ID
1701	(6A5)	BITSTRING	2		DESCRIPTOR CODES
1703	(6A7)	ADDRESS	2		RESERVED
1705	(6A9)	BITSTRING	16		
1721	(6B9)	BITSTRING	2		MESSAGE TYPE
1723	(6BB)	ADDRESS	2		MESSAGE'S PRIORITY
1725	(6BD)	CHARACTER	8		JOB ID
1733	(6C5)	CHARACTER	8		JOB NAME
1741	(6CD)	CHARACTER	8		RETRIEVAL KEY
1749	(6D5)	ADDRESS	4		TOKEN FOR DOM
1753	(6D9)	ADDRESS	4		CONSOLE ID
1757	(6DD)	CHARACTER	8		SYSTEM NAME
1765	(6E5)	CHARACTER	8		CONSOLE NAME
1773	(6ED)	ADDRESS	4		REPLY CONSOLE NAME/ID ADDR
1777	(6F1)	ADDRESS	4		CART ADDRESS
1781	(6F5)	ADDRESS	4		WSPARM ADDRESS
1781	(6F5)	X'6F9'	0	CSAWPXEN	"*" END OF WPX
		Extensions for MLWTO. These must IMMEDIATELY follow the WPX (generated by the WTO list form)			
1785	(6F9)	ADDRESS	2	CSALINET	LINE TYPE FIELD
1787	(6FB)	BITSTRING	1	CSALAREA	AREA ID
1788	(6FC)	BITSTRING	1	CSALNUM	NUMBER OF LINES
1788	(6FC)	X'6FD'	0	CSAMLEND	"*" End of MLWTO extensions
		Map the fields prior to and including the message text			
1552	(610)	SIGNED	2	CSAMSGL	MESSAGE LENGTH + 4
1554	(612)	SIGNED	2	CSAMCS	MCS FLAGS
1556	(614)	CHARACTER	125	CSAMSG	TEXT
1556	(614)	X'81'	0	CSASLEN	"*-CSAMSGL" STANDARD WTO LENGTH
1556	(614)	X'691'	0	CSATRAIL	"*" START OF TRAILER FIELDS
1556	(614)	X'6C'	0	CSALSIZ	"CSAMLEND-CSATRAIL" Length of WPX plus MLWTO extensions
		End of WPL parameter list area			
1792	(700)	SIGNED	4	(0)	Full word align
1792	(700)	CHARACTER	8	CSAJOBID	Job ID
1800	(708)	CHARACTER	8	CSAJOBNM	Job name
1808	(710)	CHARACTER	8	CSAKEY	Retrieval key (PCE name)
1816	(718)	BITSTRING	3	CSANFM(0)	SYSTEM ID OF SENDER

Table 162. Structure DTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1816	(718)	BITSTRING	2		NODE NUMBER
1818	(71A)	BITSTRING	1		NODE QUALIFIER
1819	(71B)	BITSTRING	1		RESERVED
1820	(71C)	ADDRESS	4	CSACIDCH	CID (connect id) chain
1824	(720)	ADDRESS	4	CSACID	CID for current CMB
1828	(724)	ADDRESS	4	CSACMB	Current CMB
	Workarea for HASPCON PCE level service routines				
1832	(728)	BITSTRING	2	CSARDWRK	LOGICAL ROUTING WORK AREA
1834	(72A)	ADDRESS	1	CSAW(4)	
1850	(73A)	BITSTRING	8		
1850	(73A)	X'2A'	0	CSAWLEN	"*-CSAW"
1876	(754)	BITSTRING	1	DWTOFLG1	Flags
		1...		DWTO1WAT	"B'10000000'" $WAIT tolerated by caller
	MGCRE work area				
1880	(758)	DBL WORD	8	(0)	Alignment
1880	(758)	SIGNED	2	CSAMGMF(0)	MGCRE PARAMTER LIST
1880	(758)	ADDRESS	1		FLAG FIELD '00'
1881	(759)	ADDRESS	1		RESERVED
1882	(75A)	BITSTRING	1		FLAG FIELD
1883	(75B)	BITSTRING	1		FLAG FIELD 2
1884	(75C)	CHARACTER	5		CONTROL BLOCK ACRONYM 'MGCRE'
1889	(761)	ADDRESS	1		VERSION LEVEL
1890	(762)	BITSTRING	1		FLAG FIELD 3
1891	(763)	ADDRESS	1		RESERVED
1892	(764)	ADDRESS	4		ADDRESS OF THE COMMAND TEXT
1896	(768)	ADDRESS	4		TOKEN
1900	(76C)	CHARACTER	8		CONSOLE NAME
1908	(774)	ADDRESS	4		CONSOLE ID
1912	(778)	BITSTRING	1		COMMAND DISPOSITION
1913	(779)	BITSTRING	2		COMMAND AUTHORITY LEVEL
1915	(77B)	BITSTRING	1		RESERVED
1916	(77C)	BITSTRING	8		COMMAND AND RESPOSE TOKEN
1924	(784)	BITSTRING	8		SYSTEM NAME
1932	(78C)	ADDRESS	4		UTOKEN ADDRESS
1936	(790)	BITSTRING	4		RESERVED
1936	(790)	X'758'	0	CSAMGMFL	"CSAMGMF,*-CSAMGMF" MGCRE list form
1940	(794)	SIGNED	2	CSAMGCLN	Command text length
1942	(796)	CHARACTER	126	CSAMGCMD	Command text
2072	(818)	DBL WORD	8	(0)	
2072	(818)	X'210'	0	DWTOLEN	"*-DTEWORK" LENGTH OF WORK AREA

Table 163. Cross Reference for $DTEWTO

Name	Offset	Hex Tag
CSA	610	
CSACID	720	
CSACIDCH	71C	
CSACMB	724	

Table 163. Cross Reference for $DTEWTO (continued)

Name	Offset	Hex Tag
CSACONWQ	608	
CSAJOBID	700	40404040
CSAJOBNM	708	40404040
CSAKEY	710	40404040
CSALAREA	6FB	0
CSALINET	6F9	
CSALNUM	6FC	1
CSALSIZ	614	6C
CSAMCS	612	
CSAMGCLN	794	
CSAMGCMD	796	
CSAMGMF	758	
CSAMGMFL	790	758
CSAMLEND	6FC	6FD
CSAMSG	614	
CSAMSGL	610	
CSANFM	718	
CSARDWRK	728	0
CSASLEN	614	81
CSATRAIL	614	691
CSAW	72A	
CSAWLEN	73A	2A
CSAWPXEN	6F5	6F9
CSAWTOL	610	
DTE	0	
DWTOFLG1	754	
DWTOLEN	818	210
DWTO1WAT	754	80

Chapter 75. $DWA Information

$DWA Heading Information

Common Name: HASP $DILBERT Work Area
Macro ID: $DWA
DSECT Name: DWA
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: DWAEYE
Offset: DWAEYE-DWA
Length: L'DWAEYE
Storage Attributes: Subpool: 1
Key: 1
Residency: Virtual and real storage are anywhere in the private storage of the JES2 address space.

Size: See DWASIZE
Created by: $DILBERT service
Pointed to by: Field $DILHEAD in the $HCT data area
Field $DILTAIL in the $HCT data area
Field DWANEXT in the $DWA data area
Field DWAPREV in the $DWA data area
Field DWANXTEL in the $DWA data area
Field DWAPRVEL in the $DWA data area
Serialization: None Required
Function: Represent requests made using the $DILBERT macro instruction that specifies a routine to be called when the BERT lock for a specific job is released.

$DWA mapping

Table 164. Structure DWA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DWA	, HASP $DILBERT Work Area
0	(0)	CHARACTER	4	DWAEYE	Eyecatcher
4	(4)	BITSTRING	1	DWATYPE	Type
5	(5)	BITSTRING	1	DWAPFLG1	Flags See $DILFLG1 in $PARMLST
6	(6)	BITSTRING	1	DWAPFLG2	Flags See $DILFLG2 in $PARMLST
7	(7)	BITSTRING	1	DWAFLAG9	Internal flags
		1...		DWA9QUED	"B'10000000'" DWA was queued
		Backend processing is required when the processing at the end of calling the processing routine which was required to update the BERTs would have required a $WAIT in $DOGBERT.			
		.1..		DWA9BEND	"B'01000000'" Backend processing req.
		..1.		DWA9NBRT	"B'00100000'" Failed ... BERT shortage
		...1		DWA9PROS	"B'00010000'" DWA being processed now
		.... 1...		DWA9SPEC	"B'00001000'" Use SPECIAL=YES

Table 164. Structure DWA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		DWA9HEAD	"B'00000100'" Head of side queue
		.... ..1.		DWA9INDI	"B'00000010'" Indirect call to routine
		1		DWA9UNCO	"B'00000001'" Backend processing is for unconditional return
8	(8)	ADDRESS	4	DWANEXT	Address of next DWA
12	(C)	ADDRESS	4	DWAPREV	Address of previous DWA
16	(10)	BITSTRING	4	DWAPARM0	Parameter for register 0
20	(14)	BITSTRING	4	DWAPRMA1	Parameter for AR1
24	(18)	ADDRESS	4	DWARTN	Address of routine
28	(1C)	BITSTRING	4	DWAIMMED	Immediate instruction to executed
32	(20)	ADDRESS	4	DWAPCE	Address of PCE to $POST
36	(24)	ADDRESS	4	DWACALR	Address of $DILBERT caller (for diagnostic purposes)
40	(28)	SIGNED	4	DWASTCK	Time of $DILBERT call (for diagnostic purposes)
44	(2C)	ADDRESS	4	DWANXTEL	Next DWA for element (side queue pointer)
48	(30)	ADDRESS	4	DWAPRVEL	Previous DWA for element (side queue pointer)
52	(34)	SIGNED	4	DWAORG(0)	Common origin
		Parameters common to TYPE=JQE and TYPE=JOE			
52	(34)	SIGNED	4	DWAOFF	JQE/JOE Offset
56	(38)	ADDRESS	4	DWAART	Address of JQA/JOA
60	(3C)	SIGNED	4	DWABERTS	BERTs required to process
64	(40)	SIGNED	4	DWABSTCK	TOD last time we tried
68	(44)	ADDRESS	4	DWAPCEJQ	Save caller's PCEJQE
72	(48)	ADDRESS	3	DWAJOJQO	Associated JQE index for the DWA.
		Parameters specific to TYPE=JQE			
75	(4B)	ADDRESS	1	DWADOGJ	ACTION
76	(4C)	ADDRESS	1	(5)	
81	(51)	ADDRESS	2		
83	(53)	BITSTRING	4	DWAJBKEY	Job Key for JQE DWAs.
		Parameters specific to TYPE=JOE			
75	(4B)	ADDRESS	1	(2)	
77	(4D)	ADDRESS	1	(4)	
81	(51)	ADDRESS	4		
85	(55)	CHARACTER	12	DWAJOEID	JOE ID block (JOENAME, JOEID1, JOEID2) for JOE DWAs.
		End of DWA			
104	(68)	DBL WORD	8	(0)	Ensure doubleword size
104	(68)	X'68'	0	DWASIZE	"*-DWA" Length of DWA

Table 165. Cross Reference for $DWA

Name	Offset	Hex Tag
DWA	0	

Table 165. Cross Reference for $DWA (continued)

Name	Offset	Hex Tag
DWAART	38	
DWABERTS	3C	
DWABSTCK	40	
DWACALR	24	
DWADOGJ	4B	
DWAEYE	0	
DWAFLAG9	7	
DWAIMMED	1C	
DWAJBKEY	53	
DWAJOEID	55	
DWAJOJQO	48	
DWANEXT	8	
DWANXTEL	2C	
DWAOFF	34	
DWAORG	34	
DWAPARM0	10	
DWAPCE	20	
DWAPCEJQ	44	
DWAPFLG1	5	
DWAPFLG2	6	
DWAPREV	C	
DWAPRMA1	14	
DWAPRVEL	30	
DWARTN	18	
DWASIZE	68	68
DWASTCK	28	
DWATYPE	4	
DWA9BEND	7	40
DWA9HEAD	7	4
DWA9INDI	7	2
DWA9NBRT	7	20
DWA9PROS	7	10
DWA9QUED	7	80
DWA9SPEC	7	8
DWA9UNCO	7	1

Chapter 76. $ENFPARM Information

$ENFPARM Heading Information

Common Name:	ENF parameter list required for the ENFREQ macro
Macro ID:	$ENFPARM
DSECT Name:	ENFPARM
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	None
Storage Attributes:	Subpool: 241 Key: 1 Residency: Any
Size:	See ENFPSIZE
Created by:	JES2
Pointed to by:	Address contained in a register for use with the ENFREQ service
Serialization:	None
Function:	Maps the list form of the ENFREQ parameter list as well as storage for the ENFPTR field required by the ENFREQ macro.

$ENFPARM mapping

Table 166. Structure ENFPARM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ENFPARM	DSECT for ENF parms
0	(0)	ADDRESS	4	ENFPPTR	Area for ENFPTR - required by ENFREQ macro
4	(4)	SIGNED	4	ENFPENF(0)	START OF ENF PARAMETER LIST
4	(4)	ADDRESS	2		LENGTH OF ENF PARAMETER LIST
6	(6)	ADDRESS	2		REQUESTED ENF ACTION
8	(8)	ADDRESS	4		EVENT CODE
12	(C)	ADDRESS	1		FLAG FIELD
13	(D)	ADDRESS	1		MASK FOR COMPARING QUALIFIERS
14	(E)	ADDRESS	1		KEY FOR FREEPRM
15	(F)	ADDRESS	1		SUBPOOL FOR FREEPRM
16	(10)	ADDRESS	4		QUALIFIER
20	(14)	ADDRESS	4		EXIT ROUTINE ADDRESS
24	(18)	ADDRESS	4		Address of caller's parameters
28	(1C)	ADDRESS	4		TOKEN
32	(20)	ADDRESS	4		Length of caller's parameters
36	(24)	ADDRESS	2		VERSION OF PARM LIST
38	(26)	ADDRESS	2		RESERVED FIELD
40	(28)	ADDRESS	4		RETURN ADDRESS
44	(2C)	CHARACTER	8		ESTABLISHER NAME
52	(34)	CHARACTER	8		LISTEN EXIT NAME
60	(3C)	ADDRESS	4		LISTENER NUMBER (RETURNED)
64	(40)	CHARACTER	4		SPECIAL EXIT RETURN CODE
68	(44)	BITSTRING	32		Bit-mapped qualifier

Table 166. Structure ENFPARM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
100	(64)	ADDRESS	1		Flag byte
101	(65)	BITSTRING	3		Reserved
104	(68)	ADDRESS	4		Reserved
108	(6C)	CHARACTER	8		XCFFILTERGROUP name
116	(74)	BITSTRING	16		Reserved
132	(84)	CHARACTER	20		Additional space
132	(84)	X'98'	0	ENFPSIZE	"*-ENFPARM" Size of parameter area

Table 167. Structure ENF790

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ENF790	, DSECT for HASP790 message
0	(0)	CHARACTER	8	ENF7EYE	Eye catcher
8	(8)	SIGNED	4	ENF7RC	ENF RC from ENFREQ
12	(C)	SIGNED	4	ENF7COUN	Number of messages
16	(10)	SIGNED	4	ENF7TIME	Seconds since last issued
16	(10)	X'14'	0	ENF7SIZE	"*-ENF790" Length of HASP790 work area

Table 168. Cross Reference for $ENFPARM

Name	Offset	Hex Tag
ENFPARM	0	
ENFPENF	4	
ENFPPTR	0	
ENFPSIZE	84	98
ENF7COUN	C	
ENF7EYE	0	C8C1E2D7
ENF7RC	8	
ENF7SIZE	10	14
ENF7TIME	10	
ENF790	0	

Chapter 77. $ENFWORK Information

$ENFWORK Programming Interface Information

$ENFWORK is a programming interface.

$ENFWORK Heading Information

Common Name:	HASP ENF LISTEN Processor
Macro ID:	$ENFWORK
DSECT Name:	PCE ($ENFWORK is part of the PCE DSECT)
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4
Storage Attributes:	Subpool: See $PCE Key: See $PCE Residency: See $PCE
Size:	See symbol ENNPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by:	See $PCE
Pointed to by:	The $ENFPCE field of the $HCT data area points into the $PCEORG/$PCELAST chain to the first ENF LISTEN PCE. Since this chain contains all PCEs, use the PCEID field to determine when you have chained past the last PCE of this type. See $PCE for other pointer fields that apply to all PCE types.
Serialization:	Normal PCE dispatch serialization
Function:	The fields in this work area are used by a JES2 ENF LISTEN Processor and by its support routines and exits. $ENFWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $ENFWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEENFID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

$ENFWORK mapping

Table 169. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
320	(140)	SIGNED	4	ENNALET	ALET for EVT data space
328	(148)	DBL WORD	8	(0)	
328	(148)	BITSTRING	16	ENNTQE	TQE for deregistration wait
344	(158)	DBL WORD	8	(0)	
344	(158)	BITSTRING	320	ENNPARMS	EVT parameter data

Table 169. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
664	(298)	BITSTRING	4	ENNWMASK	Work mask for XCF messaging
668	(29C)	BITSTRING	4		Reserved
672	(2A0)	DBL WORD	8	(0)	Force double-word alignment
672	(2A0)	X'160'	0	ENNPCEWS	"*-PCEWORK" Length of $ENF PCE

Table 170. Cross Reference for $ENFWORK

Name	Offset	Hex Tag
ENNALET	140	
ENNPARMS	158	
ENNPCEWS	2A0	160
ENNTQE	148	
ENNWMASK	298	
PCE	0	

Chapter 78. $EOMWORK Information

$EOMWORK Heading Information

Common Name:	JES2 End of Memory PCE Work Area
Macro ID:	$EOMWORK
DSECT Name:	PCE ($EOMWORK is part of the PCE DSECT)
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4
Storage Attributes:	Subpool: See $PCE Key: See $PCE Residency: See $PCE
Size:	See symbol EOMPCEWL for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by:	See $PCE
Pointed to by:	The $EOMPCE field of the $HCT data area The EMSPCE field of the $DTEEOM data area See $PCE for other pointer fields that apply to all PCE types.
Serialization:	Normal PCE dispatch serialization
Function:	The fields in this work area are used by the JES2 End of Memory Processor. $EOMWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $EOMWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEEOMID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

$EOMWORK mapping

Table 171. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
320	(140)	ADDRESS	4	EOMDTE	Address of our EOMDTE
324	(144)	BITSTRING	4		Reserved for future use
328	(148)	DBL WORD	8	(0)	Alignment
328	(148)	X'8'	0	EOMPCEWL	"*-PCEWORK" Length of misc PCE work area

Chapter 79. $ERA Information

$ERA Programming Interface Information

The following field is **NOT** programming interface information:

- ERAPRE

$ERA Heading Information

Common Name: JES2 Error Recovery Area
Macro ID: $ERA
DSECT Name: ERA
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: ERA
Offset: ERAERAID-ERA
Length: L'ERAERAID
Storage Attributes: Subpool: 0, Also refer to $DTE and $TRCA
Key: 1, Also refer to $DTE and $TRCA
Residency: Anywhere. Also refer to the $DTE and $TRCA in which an $ERA is imbedded.

Size: See ERALENG
Created by: $ANALYZE routine in HASPTERM getmains an $ERA.
An emergency $ERA exists as part of the $TRCA.
An $ERA is also created as part of the $DTE.
Pointed to by: ERAPREV field of the $ERA data area
PCEERA field of the $PCE data area
PREERA field of the $PRE data area
SPNERA field of the $SPNWORK data area
TRCAERA field of the $TRCA data area
Serialization: Fields are serialized implicity, by being changeable by only one task, either the JES2 main task or a JES2 subtask.
Function: Provides work areas and communication fields required for processing abends in the JES2 address space and possible later recovery.
The $ERA is imbedded in the $DTE at field DTEERA for use in a subtask. An emergency $ERA is imbedded in the $TRCA at field TRCAEERA. The $ERA is also getmained separately from other control blocks.

$ERA mapping

Table 172. Structure ERA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ERA	HASP ERROR RECOVERY AREA
0	(0)	CHARACTER	4	ERAERAID	EBCDIC ID - 'ERA '
0	(0)	X'0'	0	ERAVN	"0" VERSION NUMBER CURRENTLY 0
4	(4)	ADDRESS	1	ERAERAVN	CONTROL BLOCK VERSION NUMBER
5	(5)	BITSTRING	1	ERAFLAGS	FLAGS - SEE BELOW
6	(6)	BITSTRING	2		RESERVED FOR FUTURE USE

Table 172. Structure ERA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
8	(8)	ADDRESS	4	ERADOMID	DOM ID OF HASP095
12	(C)	ADDRESS	4	ERAERPL	IF HASP CAT. ERROR ERPL ADDRESS - OTHERWISE 0
16	(10)	SIGNED	4	ERACODE	CATASTROPHIC ERROR REASON CODE
		ERROR LOCATION AND ENVIRONMENT INFORMATION SECTION			
20	(14)	ADDRESS	4	ERAFADDR	FAILING ADDR FOR ERROR
24	(18)	SIGNED	4	ERAJLMOD(0)	MODMAP-STYLE ENTRY, JES2 LMOD
40	(28)	SIGNED	4	ERAELMOD(0)	MODMAP-STYLE ENTRY, ERROR LMOD
56	(38)	SIGNED	4	ERAESECT(0)	MODMAP-STYLE ENTRY, ERROR CSECT
72	(48)	SIGNED	4	ERAESRGS(3)	REGS 0,1,2 ON ENTRY TO $ABEND
72	(48)	X'48'	0	ERAESRG0	"ERAESRGS,4" REG 0 ON ENTRY TO ESTAE ROUTINE
72	(48)	X'4C'	0	ERAESRG1	"ERAESRGS+4,4" REG 1 ON ENTRY TO ESTAE ROUTINE
72	(48)	X'4C'	0	ERASDWA	"ERAESRG1,4,C'A'" ADDRESS OF SDWA
72	(48)	X'50'	0	ERAESRG2	"ERAESRGS+8,4" REG 2 ON ENTRY TO ESTAE ROUTINE
84	(54)	CHARACTER	8	ERAMODN	Mod name for event record
92	(5C)	CHARACTER	8	ERAMODO	Mod offset for event record
100	(64)	ADDRESS	4	ERAPRE	A(ASSOCIATED PRE)
104	(68)	ADDRESS	4	ERAPREV	ACTIVE ERA, IF ANY, WHEN ERROR OCCURRED- OTHERWISE 0
108	(6C)	ADDRESS	4	ERAPSVAD	SAVE AREA LEVEL ASSOCIATED WITH ERR
112	(70)	ADDRESS	4	ERACPCE	VALUE OF $CURPCE AT TIME OF ERR
116	(74)	SIGNED	2	ERAPRECT	NUMBER OF PRES POINTING TO ERA
		$SETRP SECTION - FOLLOWING FIELDS SET BY $SETRP - DEFAULT VALUES ESTABLISHED IN $RETRY FRONTEND			
118	(76)	BITSTRING	1	ERASETRP	OPTION - I.E. RESUME, TERMINATE, OR PERCOLATE
119	(77)	BITSTRING	1	ERADTEF1	Subtask recovery flag 1 (can be modified in $STABEND VRA exit)
		1...		ERADF1MG	"B'10000000'" Suppress messages for error (HASP078/HASP088)
		.1..		ERADF1DU	"B'01000000'" Suppress SDUMP for error
		..1.		ERADF1QU	"B'00100000'" Quiet SETRP for recovery (RECORD=NO)
		...1		ERADF1NC	"B'00010000'" Do not count as an error for threshold processing
120	(78)	ADDRESS	4	ERARZOOM	ADDRESS OF POINT OF RESUMPTION (FROM RESUME=)

Table 172. Structure ERA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		END OF $SETRP SECTION END OF $SETRP SECTION REGISTER SECTION - - ON ENTRY TO PROCESSOR RECOVERY ROUTINE ERAREGS REGISTERS ARE AS THEY WERE AT TIME OF ERROR. IF $ERROR, ANY REGISTERS WIPED OUT BY $ERROR HAVE BEEN RESET TO VALUES PRIOR TO EXECUTION OF THE $ERROR MACRO. (NOTE THAT THESE REGISTER VALUES ARE FROM SDWASRSV AS OPPOSED TO SDWAGRSV) - ON RETURN TO $RETRY FROM PROCESSOR RECOVERY ROUTINE, IF $SETRP RESUME= IS SPECIFIED, THESE VALUES (ERAREGS) DETERMINE THE REGISTER CONTENTS AT POINT OF RESUMPTION, WITH THE EXECPTION OF R11 (ALWAYS R11), R13 (ALWAYS PCE ADDRESS) AND R15 (ADDRESS OF POINT OF RESUMPTION)			
124	(7C)	BITSTRING	64	ERACREGS	COPY OF REGISTER VALUES PLACED IN ERAREGS IN $ABEND, REGARDLESS OF CHANGES TO ERAREGS BY RTNS
188	(BC)	BITSTRING	64	ERACHRGS	High halves of ERACREGS
252	(FC)	BITSTRING	64	ERAREGS	Register save area
252	(FC)	SIGNED	4	ERAREG0	REGISTER 0
256	(100)	SIGNED	4	ERAREG1	REGISTER 1
260	(104)	SIGNED	4	ERAREG2	REGISTER 2
264	(108)	SIGNED	4	ERAREG3	REGISTER 3
268	(10C)	SIGNED	4	ERAREG4	REGISTER 4
272	(110)	SIGNED	4	ERAREG5	REGISTER 5
276	(114)	SIGNED	4	ERAREG6	REGISTER 6
280	(118)	SIGNED	4	ERAREG7	REGISTER 7
284	(11C)	SIGNED	4	ERAREG8	REGISTER 8
288	(120)	SIGNED	4	ERAREG9	REGISTER 9
292	(124)	SIGNED	4	ERAREG10	REGISTER 10
296	(128)	SIGNED	4	ERAREG11	REGISTER 11
300	(12C)	SIGNED	4	ERAREG12	REGISTER 12
304	(130)	SIGNED	4	ERAREG13	REGISTER 13
308	(134)	SIGNED	4	ERAREG14	REGISTER 14
312	(138)	SIGNED	4	ERAREG15	REGISTER 15
316	(13C)	BITSTRING	64	ERAHRGS	High half reg save area
316	(13C)	SIGNED	4	ERAHRG0	High half register 0
320	(140)	SIGNED	4	ERAHRG1	High half register 1
324	(144)	SIGNED	4	ERAHRG2	High half register 2
328	(148)	SIGNED	4	ERAHRG3	High half register 3
332	(14C)	SIGNED	4	ERAHRG4	High half register 4
336	(150)	SIGNED	4	ERAHRG5	High half register 5
340	(154)	SIGNED	4	ERAHRG6	High half register 6
344	(158)	SIGNED	4	ERAHRG7	High half register 7
348	(15C)	SIGNED	4	ERAHRG8	High half register 8
352	(160)	SIGNED	4	ERAHRG9	High half register 9
356	(164)	SIGNED	4	ERAHRG10	High half register 10
360	(168)	SIGNED	4	ERAHRG11	High half register 11
364	(16C)	SIGNED	4	ERAHRG12	High half register 12
368	(170)	SIGNED	4	ERAHRG13	High half register 13
372	(174)	SIGNED	4	ERAHRG14	High half register 14
376	(178)	SIGNED	4	ERAHRG15	High half register 15
380	(17C)	BITSTRING	64	ERAAREGS	Access register save area
380	(17C)	SIGNED	4	ERAAR0	Access Register 0

Table 172. Structure ERA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
384	(180)	SIGNED	4	ERAAR1	Access Register 1
388	(184)	SIGNED	4	ERAAR2	Access Register 2
392	(188)	SIGNED	4	ERAAR3	Access Register 3
396	(18C)	SIGNED	4	ERAAR4	Access Register 4
400	(190)	SIGNED	4	ERAAR5	Access Register 5
404	(194)	SIGNED	4	ERAAR6	Access Register 6
408	(198)	SIGNED	4	ERAAR7	Access Register 7
412	(19C)	SIGNED	4	ERAAR8	Access Register 8
416	(1A0)	SIGNED	4	ERAAR9	Access Register 9
420	(1A4)	SIGNED	4	ERAAR10	Access Register 10
424	(1A8)	SIGNED	4	ERAAR11	Access Register 11
428	(1AC)	SIGNED	4	ERAAR12	Access Register 12
432	(1B0)	SIGNED	4	ERAAR13	Access Register 13
436	(1B4)	SIGNED	4	ERAAR14	Access Register 14
440	(1B8)	SIGNED	4	ERAAR15	Access Register 15
444	(1BC)	BITSTRING	8	ERAPSW	Last JES2 related PSW
452	(1C4)	BITSTRING	1	ERAINCD	Interupt code (second byte)
453	(1C5)	BITSTRING	1	ERAILC	Instruction length count
454	(1C6)	BITSTRING	2		Reserved
456	(1C8)	ADDRESS	8	ERATEA	Translation exception addr
464	(1D0)	ADDRESS	8	ERABEA	Breaking event address
472	(1D8)	ADDRESS	4	ERAREGRB	RB that contains JES2 regs (points to RB prefix)
476	(1DC)	ADDRESS	4	ERAJQE	Related JQE address
480	(1E0)	BITSTRING	12		Reserved for future use
492	(1EC)	SIGNED	4	(0)	ROUND TO FULLWORD
492	(1EC)	X'1EC'	0	ERALENG	"*-ERA" LENGTH (ROUNDED TO FULLWORD)
ERAFLAGS BIT DEFINITIONS					
		1...		ERAEMERG	"X'80'" EMERGENCY ERA, DONT'T FREEMAIN
		.1..		ERAXMS	"X'40'" HOME ASID NOT PRIMARY AT ERROR
		..1.		ERAFRBLC	"X'20'" ERAFADDR CAME FROM $RBFADDR
		...1		ERACSAM	"X'10'" LOAD MODULE WITH ERROR IN CSA
		.... 1...		ERAARMOD	"X'08'" ASC=ARMODE at time of ABEND
		.... .1..		ERAS1J2M	"X'04'" 1st JES2 modules found in HASP088 message traceback
		.... ..1.		ERARSVF6	"X'02'" RESERVED FOR FUTURE USE
		1		ERARSVF7	"X'01'" RESERVED FOR FUTURE USE
ERASETRP BIT DEFINITIONS					
		1...		ERATRPTM	"X'80'" TERMINATE
		.1..		ERATRPPC	"X'40'" PERCOLATE
		..1.		ERATRPRE	"X'20'" RESUME
		...1		ERAHVRGS	"X'10'" ERA HAS REGS (ON IF SDWA EXISTS)
		.... 1...		ERATRPR0	"X'08'" RESERVED FOR FUTURE USE
		.... .1..		ERATRPR1	"X'04'" RESERVED FOR FUTURE USE

Table 172. Structure ERA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ..1.		ERATRPR2	"X'02'" RESERVED FOR FUTURE USE
		1		ERATRPR3	"X'01'" RESERVED FOR FUTURE USE

Table 173. Cross Reference for $ERA

Name	Offset	Hex Tag
ERA	0	
ERAAREGS	17C	
ERAARMOD	1EC	8
ERAAR0	17C	
ERAAR1	180	
ERAAR10	1A4	
ERAAR11	1A8	
ERAAR12	1AC	
ERAAR13	1B0	
ERAAR14	1B4	
ERAAR15	1B8	
ERAAR2	184	
ERAAR3	188	
ERAAR4	18C	
ERAAR5	190	
ERAAR6	194	
ERAAR7	198	
ERAAR8	19C	
ERAAR9	1A0	
ERABEA	1D0	
ERACHRGS	BC	
ERACODE	10	
ERACPCE	70	
ERACREGS	7C	
ERACSAM	1EC	10
ERADF1DU	77	40
ERADF1MG	77	80
ERADF1NC	77	10
ERADF1QU	77	20
ERADOMID	8	
ERADTEF1	77	
ERAELMOD	28	
ERAEMERG	1EC	80
ERAERAID	0	C5D9C140
ERAERAVN	4	
ERAERPL	C	
ERAESECT	38	
ERAESRGS	48	
ERAESRG0	48	48
ERAESRG1	48	4C
ERAESRG2	48	50
ERAFADDR	14	

Table 173. Cross Reference for $ERA (continued)

Name	Offset	Hex Tag
ERAFLAGS	5	
ERAFRBLC	1EC	20
ERAHRGS	13C	
ERAHRG0	13C	
ERAHRG1	140	
ERAHRG10	164	
ERAHRG11	168	
ERAHRG12	16C	
ERAHRG13	170	
ERAHRG14	174	
ERAHRG15	178	
ERAHRG2	144	
ERAHRG3	148	
ERAHRG4	14C	
ERAHRG5	150	
ERAHRG6	154	
ERAHRG7	158	
ERAHRG8	15C	
ERAHRG9	160	
ERAHVRGS	1EC	10
ERAILC	1C5	
ERAINCD	1C4	
ERAJLMOD	18	
ERAJQE	1DC	
ERALENG	1EC	1EC
ERAMODN	54	
ERAMODO	5C	
ERAPRE	64	
ERAPRECT	74	
ERAPREV	68	
ERAPSVAD	6C	
ERAPSW	1BC	
ERAREGRB	1D8	
ERAREGS	FC	
ERAREG0	FC	
ERAREG1	100	
ERAREG10	124	
ERAREG11	128	
ERAREG12	12C	
ERAREG13	130	
ERAREG14	134	
ERAREG15	138	
ERAREG2	104	
ERAREG3	108	
ERAREG4	10C	
ERAREG5	110	
ERAREG6	114	
ERAREG7	118	
ERAREG8	11C	

Table 173. Cross Reference for $ERA (continued)

Name	Offset	Hex Tag
ERAREG9	120	
ERARSVF6	1EC	2
ERARSVF7	1EC	1
ERARZOOM	78	
ERASDWA	48	4C
ERASETRP	76	
ERAS1J2M	1EC	4
ERATEA	1C8	
ERATRPPC	1EC	40
ERATRPRE	1EC	20
ERATRPR0	1EC	8
ERATRPR1	1EC	4
ERATRPR2	1EC	2
ERATRPR3	1EC	1
ERATRPTM	1EC	80
ERAVN	0	0
ERAXMS	1EC	40

Chapter 80. $ERPL Information

$ERPL Heading Information

Common Name:	$ERROR parameter list
Macro ID:	$ERPL
DSECT Name:	ERPL
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	none
Storage Attributes:	Subpool: The subpool of the assocated code module Key: The key of the associated code module Residency: The residency is that of the associated code module. Virtual and real storage may be above or below 16M, in the private storage of a JES2 or FSS address space, or in common storage.
Size:	See the ERPLLENG equate.
Created by:	ERPLs are created during an assembly of a module, in the expansion of a $ERROR macro. A table of fixed ERPLs is also defined in the JES2 main task's ABEND routine, representing system ABENDs (e.g SOCx).
Pointed to by:	The way that ERPL is pointed to depends on the environment (JES2, USER, SUBTASK or FSS). - During an ABEND initiated by a $ERROR macro in the JES2 assembly environment, the $ERRERPL field of the HCT control block points to the associated ERPL. - During an ABEND initiated by a $ERROR macro in the USER or SUBTASK environment, the ERPL is expanded immediately after the ABEND macro expansion. Its address is therefore located from the ABEND SDWA control block's SDWANXT2 field. - While processing an error in a $ERROR macro in the FSS assembly environment, $ERROR expands to a call of the error processing routine instead of an ABEND. The ERPL is the call parameter list, in register 14.
Serialization:	ERPLs are assembled into modules, and are read-only,
Function:	Two types of ERPLs exist: those generated by the $ERROR macro in the JES2, USER, SUBTASK and FSS assembly environments and those that are fixed. The first type of ERPL is a parameter list generated by the $ERROR macro that describes an error situation in which JES2 code recognizes the error and chooses to issue an ABNED. Recovery of the task may or may not be attempted, depending on the situation. The ERPL defines the JES2 error code, message text describing the error, and flags. The second type of ERPL is a fixed ERPL defined to the JES2 main task ESTAE routine that maps certain well known system errors, such as SOCx ABENDs.

$ERPL mapping

Table 174. Structure ERPL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ERPL	HASP $ERROR PARM LIST DSECT
0	(0)	CHARACTER	4	ERPLCODE	$ERROR CODE, W/O '$', LEFT JUSTIFIED
4	(4)	CHARACTER	8	ERPLMOD	Module with $ERROR
12	(C)	CHARACTER	8	ERPLSEQ	SEQ number of $ERROR
20	(14)	BITSTRING	1	ERPLFLG2	Flags
		1...		ERPLDAFT	"B'10000000'" AFTOKEN specified for dump
		.1..		ERPLDAFF	"B'01000000'" AFFIELD specified for dump
		..1.		ERPLDMAS	"B'00100000'" Dump all MAS members
		...1		ERPLNDMP	"B'00010000'" Take no SDUMP
21	(15)	BITSTRING	1		Reserved for future use
22	(16)	BITSTRING	1	ERPLFLAG	FLAGS
		1...		ERPLTXTF	"X'80'" IF ON THIS ERPL HAS TEXT, ELSE ERPLTEXT CONTAINS ADDR. OF ERPL CONTAINING TEXT
		.1..		ERPLTERM	"X'40'" TERMINATE, IF ON RECOVERY ATTEMPTS NOT PERMITTED
		..1.		ERPLRIPL	"X'20'" INDICATES AN ERROR REQUIRING RE-IPL
		...1		ERPLTREG	"X'10'" On indicates R0 at ABEND has addr of error text
		.... 1...		ERPLDIS	"X'08'" $DISTERR in disguise
		.... .1..		ERPLRVO	"X'04'" RECVOPTS was specified
		.... ..1.		ERPLHCT	"X'02'" On indicates that $ERREOPT has addr of RECVOPTS
The next two fields must be in this order					
23	(17)	SIGNED	1	ERPLTXTL	LENGTH OF TEXT IF ANY, ELSE UNUSED
24	(18)	ADDRESS	4	ERPLTEXT	ADDR. OF ERPL CONTAINING TEXT, OR TEXT, DEPENDING ON ERPLTXTF (NO ALIGNMENT IS INTENTIONAL)
The next field is only here if ERPLRVO is on. If ERPLTEXT contains text, this field, if specified, immediately follows that text.					
28	(1C)	CHARACTER	8	ERPLRCVO	RECVOPTS to use in recovery
28	(1C)	X'24'	0	ERPLLENG	"*-ERPL" LENGTH OF ERPL

Table 175. Structure DISTITLE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DISTITLE	
0	(0)	SIGNED	1	DISDMPL	Length of title
1	(1)	CHARACTER	26	DISTEXT	Fixed message
27	(1B)	CHARACTER	8	DISSYM	Symbol of disastrous error
27	(1B)	X'22'	0	DISTLEN	"*-DISTEXT" Length of title

Table 176. Cross Reference for $ERPL

Name	Offset	Hex Tag
DISDMPL	0	
DISSYM	1B	
DISTEXT	1	
DISTITLE	0	
DISTLEN	1B	22
ERPL	0	
ERPLCODE	0	
ERPLDAFF	14	40
ERPLDAFT	14	80
ERPLDIS	16	8
ERPLDMAS	14	20
ERPLFLAG	16	
ERPLFLG2	14	
ERPLHCT	16	2
ERPLLENG	1C	24
ERPLMOD	4	
ERPLNDMP	14	10
ERPLRCVO	1C	
ERPLRIPL	16	20
ERPLRVO	16	4
ERPLSEQ	C	
ERPLTERM	16	40
ERPLTEXT	18	
ERPLTREG	16	10
ERPLTXTF	16	80
ERPLTXTL	17	

Chapter 81. $ERRTAB Information

$ERRTAB Heading Information

Common Name:	Error count table
Macro ID:	$ERRTAB
DSECT Name:	ERRTAB
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'$$ERRTAB' Offset: 0 Length: 8
Storage Attributes:	Subpool: 0 Key: 1 Residency: 31 bit storage
Size:	See ERRTABLN for the length of the table used by the JES2 main task.
Created by:	During initialization in private storage.
Pointed to by:	$ERRTABA field of the $HCT data area
Serialization:	None.
Function:	Provides data for monitor subtask about the various error types and their corresponding counts

$ERRTAB mapping

Table 177. Structure ERRTAB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ERRTAB	Error count table
0	(0)	CHARACTER	8	ERRTABID	ERRTAB Eyecatcher
8	(8)	SIGNED	4	ERRTABLN	Error table size
12	(C)	BITSTRING	1	ERRTNENT	Number of entries
16	(10)	SIGNED	4	ERRFRST(0)	Start of element array
16	(10)	X'10'	0	ERRPRFX	"*-ERRTAB" Length of prefix

Table 178. Structure ERRELE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ERRELE	Element of array
0	(0)	CHARACTER	8	ERRNAME	Name of error
8	(8)	SIGNED	4	ERRCOUNT	Count of errors
12	(C)	ADDRESS	1	ERRCATGR	Category of errors defined in $RVSTACK
16	(10)	SIGNED	4	(0)	
16	(10)	X'10'	0	ERRENTSZ	"*-ERRELE" Length of one entry

Table 179. Cross Reference for $ERRTAB

Name	Offset	Hex Tag
ERRCATGR	C	

Table 179. Cross Reference for $ERRTAB (continued)

Name	Offset	Hex Tag
ERRCOUNT	8	
ERRELE	0	
ERRENTSZ	10	10
ERRFRST	10	
ERRNAME	0	
ERRPRFX	10	10
ERRTAB	0	
ERRTABID	0	5B5BC5D9
ERRTABLN	8	
ERRTNENT	C	

Chapter 82. $EVT Information

$EVT Programming Interface Information

$EVT is a programming interface.

$EVT Heading Information

Common Name: HASP ENF LISTEN Event DSECT
Macro ID: $EVT
DSECT Name: EVT
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'EVT '
Offset: EVTID-EVT
Length: L'EVTID
Storage Attributes: Subpool: n/a
Key: 1
Residency: jesxEVT data space

Size: See EVTLEN
Created by: HASCENF
Pointed to by: CCTENFQH field of the $HCCT data area
CCTENFQT field of the $HCCT data area
EVTNEXT field of the $EVT data area
EVTPREV field of the $EVT data area
Serialization: -The EVTs chained from the HCCT are serialized using the $FIFOENQ and $FIFODEQ services.
Function: The EVT defines ENF LISTEN events which have been queued, by the ENF LISTEN exits in HASCENF, for processing by the JES2 main task.

$EVT mapping

Table 180. Structure EVT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	EVT	
0	(0)	CHARACTER	4	EVTID	EVT identifier
4	(4)	ADDRESS	1	EVTVRSN	Current version in storage
4	(4)	X'1'	0	EVTCURVN	"1" Current version number
5	(5)	BITSTRING	1	EVTFLAG1	EVT flags
		1...		EVT1GETM	"B'10000000'" EVTPARMS contains a pointer to CSA containing EVT data
6	(6)	SIGNED	2	EVTTYPE	Type - for a branch table
6	(6)	X'0'	0	EVT41GL	"0" Event type 41 - WLMENF12
6	(6)	X'4'	0	EVT41CP	"4" Event type 41 - WLMENF22
6	(6)	X'8'	0	EVT42	"8" Event type 42 - SRMENF15
6	(6)	X'C'	0	EVT46	"12" Event type 46 - OMVS active
6	(6)	X'10'	0	EVT56	"16" Event type 56 - reset job
6	(6)	X'14'	0	EVT57CM	"20" Event type 57 - command
6	(6)	X'18'	0	EVT57RV	"24" Event type 57 - recovery

Table 180. Structure EVT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
6	(6)	X'1C'	0	EVT62	"28" Event type 62 - RACF SETR
6	(6)	X'20'	0	EVT58JU	"32" Event type 58 - JOE update
6	(6)	X'24'	0	EVT58	"36" Event type 58 - Data set
6	(6)	X'28'	0	EVT70	"40" Event type 70 - Job status
6	(6)	X'2C'	0	EVT53	"44" Event type 53 - Time offset
8	(8)	ADDRESS	4	EVTNEXT	Next EVT on queue
12	(C)	ADDRESS	4	EVTPREV	Previous EVT on Q
	Event parameters as passed to LISTEN exit				
16	(10)	DBL WORD	8	EVTPARMS(0)	Event Parameters
16	(10)	ADDRESS	4	EVTCDATA	Address when data is in CSA
16	(10)	CHARACTER	4		Event 41 parameters
16	(10)	CHARACTER	4		Event 42 parameters
16	(10)	CHARACTER	84		Event 56 parameters
16	(10)	CHARACTER	48		Event 57 parameters
16	(10)	CHARACTER	24		Event 62 parameters
16	(10)	CHARACTER	320		Event 58
16	(10)	CHARACTER	216		70
16	(10)	BITSTRING	8		Event 53
336	(150)	X'140'	0	EVTPARML	"*-EVTPARMS" Length of largest parms
336	(150)	DBL WORD	8	(0)	Round length to double word
336	(150)	X'150'	0	EVTLENG	"*-EVT" EVT Length

Table 181. Cross Reference for $EVT

Name	Offset	Hex Tag
EVT	0	
EVTCDATA	10	
EVTCURVN	4	1
EVTFLAG1	5	
EVTID	0	
EVTLENG	150	150
EVTNEXT	8	
EVTPARML	150	140
EVTPARMS	10	
EVTPREV	C	
EVTTYPE	6	
EVTVRSN	4	
EVT1GETM	5	80
EVT41CP	6	4
EVT41GL	6	0
EVT42	6	8
EVT46	6	C
EVT53	6	2C
EVT56	6	10
EVT57CM	6	14
EVT57RV	6	18
EVT58	6	24
EVT58JU	6	20

Table 181. Cross Reference for $EVT (continued)

Name	Offset	Hex Tag
EVT62	6	1C
EVT70	6	28

Chapter 83. $EZA Information

$EZA Programming Interface Information

$EZA is a programming interface.

$EZA Heading Information

Common Name: EZASMI work areas
Macro ID: $EZA
DSECT Name: EZA
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: EZA
Offset: EZAID
Length: 4
Storage Attributes: Subpool: 0
Key: 1
Residency: VIRTUAL - anywhere
REAL - anywhere

Size: See SCKLEN
Created by: Jes2 initialization
Pointed to by: $EZAADDR field of the HCT data area
Serialization: JES2 main task
Function: Work areas for TCP/IP functions from JES2 main task

$EZA mapping

Table 182. Structure EZA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	EZA	EZASMI work area DSECT
0	(0)	CHARACTER	4	EZAID	Control block identifier
0	(0)	X'1'	0	EZAVRNUM	"1" Control block version equate
4	(4)	ADDRESS	1	EZAVRSN	Control block version
5	(5)	ADDRESS	3		Reserved for future use
8	(8)	DBL WORD	8	(0)	
8	(8)	BITSTRING	8	EZAGBL	Global work area for the JES2 address space
16	(10)	DBL WORD	8	(0)	
16	(10)	BITSTRING	176	EZATASK	Task work area for the JES2 Main Task
192	(C0)	DBL WORD	8	(0)	
192	(C0)	SIGNED	2	EZAMXSOC	Max sockets value
194	(C2)	SIGNED	2		Reserved
196	(C4)	SIGNED	4	EZAMXSNO	Max socket number
200	(C8)	SIGNED	4	EZAERRNO	ERRNO value
204	(CC)	SIGNED	4	EZARETCD	RETCD value
208	(D0)	SIGNED	4	EZADUBER	ERRNO value for DUBJOBPERM
212	(D4)	SIGNED	4	EZADUBRT	RETCD value for DUBJOBPERM
216	(D8)	SIGNED	2	EZAIPLNG	Length value

Table 182. Structure EZA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
218	(DA)	BITSTRING	1	EZAFLAG1	Flags
		1...		EZA1RCOV	"B'10000000'" Recovery recursion flag
		.1..		EZA1DUBP	"B'01000000'" JES2 dubbed permanent process
		..1.		EZA1ENF	"B'00100000'" ENF 46 received
219	(DB)	BITSTRING	133	EZAWIPAD	Work area for IP address
352	(160)	DBL WORD	8	(0)	
352	(160)	BITSTRING	256	EZAWORK	Working storage
608	(260)	DBL WORD	8	(0)	
608	(260)	X'260'	0	EZALENTH	"*-EZA" IP address for socket

Table 183. Cross Reference for $EZA

Name	Offset	Hex Tag
EZA	0	
EZADUBER	D0	
EZADUBRT	D4	
EZAERRNO	C8	
EZAFLAG1	DA	
EZAGBL	8	
EZAID	0	
EZAIPLNG	D8	
EZALENTH	260	260
EZAMXSNO	C4	
EZAMXSOC	C0	
EZARETCD	CC	
EZATASK	10	
EZAVRNUM	0	1
EZAVRSN	4	
EZAWIPAD	DB	
EZAWORK	160	
EZA1DUBP	DA	40
EZA1ENF	DA	20
EZA1RCOV	DA	80

Chapter 84. $FCLWORK Information

$FCLWORK Heading Information

Common Name:	JES2 FSS Cleanup on EOM PCE Work Area
Macro ID:	$FCLWORK
DSECT Name:	PCE ($FCLWORK is part of the PCE DSECT)
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4
Storage Attributes:	Subpool: See $PCE Key: See $PCE Residency: See $PCE
Size:	See symbol FCLPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by:	See $PCE
Pointed to by:	The $FCLPCE field of the $HCT data area See $PCE for other pointer fields that apply to all PCE types.
Serialization:	Normal PCE dispatch serialization
Function:	The fields in this area are used by a JES2 FSS Cleanup on EOM Processor and by its support routines and exits. $FCLWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $FCLWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEFCLID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

$FCLWORK mapping

Table 184. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
320	(140)	DBL WORD	8	(0)	Force double-word alignment
320	(140)	X'0'	0	FCLPCEWS	"*-PCEWORK" Length of work area

Chapter 85. $FSACB Information

$FSACB Programming Interface Information

$FSACB is a programming interface.

$FSACB Heading Information

Common Name: JES2 FSA Control Block
Macro ID: $FSACB
DSECT Name: FSACB
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: FSA
Offset: FSACBID-FSACB
Length: 4
Storage Attributes: Subpool: 241
Key: 1
Residency: Virtual and real storage is anywhere in CSA.

Size: See FSACBLEN
Created by: HASPFSSP
Pointed to by: FSSFSACH field of the $FSSCB data area
Serialization: The FSACB chain is serialized via the local and CMS locks.
Function: The FSACB is the function subsystem application level control block.

$FSACB mapping

Table 185. Structure FSACB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	FSACB	FSA CONTROL BLOCK DSECT
0	(0)	CHARACTER	4	FSACBID	FSA CONTROL BLOCK ID
4	(4)	ADDRESS	4	FSAFSID	FSID FOR THIS FSA
4	(4)	X'6'	0	FSAID	"FSAFSID+2,2,C'A'" ID FOR THIS FSA WITHIN FSS
8	(8)	ADDRESS	4	FSAFSSA	POINTER TO PARENT FSS
12	(C)	ADDRESS	4	FSACHAIN	CHAIN PTR FOR FSA,LOCK SERIAL
16	(10)	ADDRESS	4	FSAEXTN	A(FSACB EXTENSION IN FSS ASID)
20	(14)	ADDRESS	4	FSATCB	ADDRESS OF TCB CONNECTING FSA
24	(18)	ADDRESS	4	FSAEDECB	ECB FOR ERROR DCON
28	(1C)	SIGNED	4	FSAXECB(0)	XECB TO POST FSS SERVICE PCE
52	(34)	CHARACTER	4	FSAUNIT	ADDRESS OF DEVICE OWNED BY FSA
52	(34)	X'35'	0	FSAUNIT3	"FSAUNIT+1,3" 3-digit devnum - note that FSAUNIT must begin with 0
56	(38)	CHARACTER	8	FSADEVN	NAME OF DEVICE OWNED BY FSA
These four fields must remain together					
64	(40)	ADDRESS	4	FSAREQQS	A(REQUEST JIB STACK)
68	(44)	ADDRESS	4	FSAACTQS	A(ACTIVE JIB PSEUDO-STACK)

Table 185. Structure FSACB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
72	(48)	ADDRESS	4	FSARETQS	A(RETURN JIB STACK)
For a return request, while the FSS PCE is waiting for a CKPT write, the JIB address is saved here.					
76	(4C)	ADDRESS	4	FSAJIBSV	JIB save area
76	(4C)	X'10'	0	FSALENQS	"*-FSAREQQS" LGTH OF JIB QUEUE POINTER FLDS
80	(50)	SIGNED	2	FSAJQECP	JOBNO OF PREV CANCELLED JOB
82	(52)	SIGNED	2	FSAJOECT	COUNT OF JOES ASSIGNED TO FSA
PARAMETER LIST FOR PRTAUTH ROUTINE CALLED FROM HASPFSSM. THIS MATCHES THE ONE DEFINED IN $PPPWORK.					
84	(54)	SIGNED	4	FSAAPARM(0)	PARM LIST FOR PRTAUTH
84	(54)	ADDRESS	4	FSAJCTAD	JCT ADDRESS
88	(58)	ADDRESS	4	FSAPDDBA	PDDB ADDRESS
92	(5C)	ADDRESS	4	FSAANEWS	JESNEWS ADDRESS
96	(60)	CHARACTER	40	FSALOGST	LOG STRING (ENTITY NAME WITH LENGTH IN THE FIRST BYTE)
136	(88)	ADDRESS	4		RESERVED FOR FUTURE USE END OF PRTAUTH PARM LIST
140	(8C)	SIGNED	4	FSAFLAGS(0)	FSA FLAGS
140	(8C)	BITSTRING	1	FSAFLAG1	FLAG BYTE - GENERAL USAGE Note: Update with NIL/OIL
141	(8D)	BITSTRING	1	FSAFLAG2	FLAG BYTE - GENERAL USAGE
142	(8E)	BITSTRING	1	FSAFLAG3	FLAG BYTE - GENERAL USAGE Note: Update with NIL/OIL
143	(8F)	BITSTRING	1	FSAFLAG4	FLAG BYTE - GENERAL USAGE Note: Update with NIL/OIL
144	(90)	SIGNED	4	FSAFLAG(0)	MORE FSA FLAGS
144	(90)	BITSTRING	1	FSAFLAGO	FLAG BYTE - FSI ORDER USAGE
145	(91)	BITSTRING	1	FSAFLAGI	FLAG BYTE - SETUP FOR FSA REQUIRES OPERATOR INTVNTN, SEE ORDIVFI IN IAZFSIP FOR BIT DEFINITIONS
146	(92)	BITSTRING	1	FSAFLAGR	FLAG BYTE - RAS, TRACING Note: Update with NIL/OIL
147	(93)	BITSTRING	1	FSAFLAG5	FLAG BYTE - ESTAE INDICATOR Note: Update with NIL/OIL
FSAFLAG5 FLAG5 BYTE - BIT DEFINITIONS Note: Use NIL/OIL to update.					
1...				FSA5PCAB	"B'10000000'" ABEND OF PC'D ORDER/POST FSSM
.1..				FSA5PINT	"B'01000000'" DEVICE INTERVENTION- REQUIRED CONDITION
..1.				FSA5OINT	"B'00100000'" OPERATOR INTERVENTION ORDER REQUIRED
...1				FSA5DONE	"B'00010000'" FSSP MAY NOW FREE FSACB
.... 1...				FSA5DNRC	"B'00001000'" Device not responding condition
.... .1..				FSA5DSRP	"B'00000100'" FSA repositioning within DS
.... ..1.				FSA5BIT6	"B'00000010'" RESERVED FOR FUTURE USE

Table 185. Structure FSACB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1		FSA5BIT7	"B'00000001'" RESERVED FOR FUTURE USE
148	(94)	ADDRESS	4	FSAPCE	ADDRESS OF ASSOCIATED PCE
152	(98)	SIGNED	4	FSAFLAGA(0)	Additional FSA flags
152	(98)	BITSTRING	1	FSAFLAG6	Flag byte - to be used in FSS address space only
FSAFLAG6 FLAG6 byte - bit def.					
		1...		FSA6DSNA	"B'10000000'" Data set was not allocated in previous GETDS
153	(99)	BITSTRING	1	FSAFLAG7	Flag byte - modified only from JES address space
FSAFLAG7 FLAG7 byte - bit def.					
		1...		FSA7JISF	"B'10000000'" JES initiated Stop FSA - order is not being simulated
		.1..		FSA701IS	"B'01000000'" For this FSA HASP701 - FSA FAILED TO DISCONNECT issued during response processing
154	(9A)	BITSTRING	2		Reserved for future use
156	(9C)	SIGNED	4		Reserved for future use
160	(A0)	SIGNED	4	(0)	END OF FSA DSECT
160	(A0)	X'A0'	0	FSACBLEN	"*-FSACB" LENGTH OF THE FSA CONTROL BLOCK
FSAFLAG1 Note: Use NIL/OIL to update.					
		1...		FSAOROUT	"B'10000000'" FSA ORDER OUTSTANDING
		.1..		FSARSOUT	"B'01000000'" FSA RESPONSE OUTSTANDING
		..1.		FSAQUIES	"B'00100000'" QUIESCE THE DEVICE
		...1		FSASTPDV	"B'00010000'" STOP THE DEVICE (DEV QUIESCED)
		.... 1...		FSADRAIN	"B'00001000'" STOP THE FSA (DEV DRAINED)
		.... .1..		FSAHALT	"B'00000100'" HALT THE DEVICE
		.... ..1.		FSAZDEV	"B'00000010'" SYNCH ORDER REQUIRED TO $Z DEV
		1		FSADVCST	"B'00000001'" DEVICE HAS BEEN STARTED
FSAFLAG2					
		1...		FSACTIVE	"B'10000000'" FSA IS ACTIVE
		.1..		FSAHSERR	"B'01000000'" NO MATCHING DCT, JES2 HOT START
		..1.		FSAFJSPG	"B'00100000'" JOB SEPARATOR PRINTING ON
		...1		FSAFDSPG	"B'00010000'" DS SEPARATOR PRINTING ON
		.... 1...		FSAEDGMK	"B'00001000'" MARK FORMS ON
		.... .1..		FSABEND	"B'00000100'" ABNORMAL TERMINATION REQUESTED

Table 185. Structure FSACB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ..1.		FSADUMP	"B'00000010'" DUMP REQUESTED ON STOP DEVICE
		1		FSAOPIR	"B'00000001'" OPERATOR INTERVENTION REQUESTED
FSAFLAG3 Note: Use NIL/OIL to update.					
		1...		FSAGTDSP	"B'10000000'" POST FSA FOR GETDS COMPLETION
		.1..		FSAOINIT	"B'01000000'" INITIAL OP. INTERVENTION NEEDED
		..1.		FSAFRMSC	"B'00100000'" SETUP REQUIRED FOR FORMS
		...1		FSAFLSHC	"B'00010000'" SETUP REQUIRED FOR FLASH
		.... 1...		FSABRSTC	"B'00001000'" SETUP REQUIRED FOR BURSTER
160	(A0) X'38'		0	FSASETUP	"FSAFRMSC+FSAFLSHC+FSABRSTC" SETUP REQUIRED MASK
		.... .1..		FSAUPDTK	"B'00000100'" OPERATOR INTERVENTION ORDER REQ'D TO UPDATE INTERVENTION TOKENS
		.... ..1.		FSASTCHG	"B'00000010'" OPERATOR ISSUED $T DURING SETUP REQUEST - FORCE GETDS
		1		FSA3JREQ	"B'00000001'" JIB REQUEST NEEDED BY GETDS
FSAFLAG4 Note: Use NIL/OIL to update. THE BIT DEFINITIONS FOR COPYMARKS IN THE FSAFLAG4 BYTE HAVE TO MATCH THE BIT DEFINITIONS FOR COPYMARKS IN THE DCTPPSW3 BYTE FOR HASPCOMM PROCESSING					
		1...		FSA4TCEL	"B'10000000'" DEV SET TO TRK-CELL DESPOOL
		.1..		FSA4NPSL	"B'01000000'" NO DATA SET PRESELECTION
		..1.		FSA4FIT	"B'00100000'" FSA INITIATED TERM REQUEST
		...1		FSA4NHLT	"B'00010000'" DEV IS 'SETUP=NOHALT'
		.... 1...		FSA4CMNO	"B'00001000'" COPYMARKS NONE
		.... .1..		FSA4CMDS	"B'00000100'" INCREMENT COPYMARKS FOR DS
		.... ..1.		FSA4CMJB	"B'00000010'" INCREMENT COPYMARKS FOR JOB
		1		FSA4CNST	"B'00000001'" COPYMARKS REMAIN CONSTANT
160	(A0) X'F'		0	FSA4CPYM	"FSA4CMDS+FSA4CMJB+FSA4CNST+FSA4CMNO" COPYMARKS RESET
FSAFLAGO					
		1...		FSABKWDO	"B'10000000'" SYNCH OUTSTANDING FOR $B
		.1..		FSAFWRDO	"B'01000000'" SYNCH OUTSTANDING FOR $F

Table 185. Structure FSACB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		FSARSRTO	"B'00100000'" SYNCH OUTSTANDING FOR $E
		...1		FSACNCLO	"B'00010000'" SYNCH OUTSTANDING FOR $C
		.... 1...		FSAINRTO	"B'00001000'" SYNCH OUTSTANDING FOR $I
		.... .1..		FSAHALTO	"B'00000100'" SYNCH OUTSTANDING FOR $Z
		.... ..1.		FSACJPO	"B'00000010'" SYNCH OUTSTANDING FOR $CJ,P
		1		FSAQRYO	"B'00000001'" QUERY OUTSTANDING FOR $DU
FSAFLAGR Note: Use NIL/OIL to update.					
		1...		FSATRACE	"B'10000000'" PROCESSOR TRACING IS ON
		.1..		FSACNECT	"B'01000000'" FSA IS FULLY CONNECTED
		..1.		FSADCON	"B'00100000'" FSA IS(WILL) DISCONNECT
		...1		FSADCONX	"B'00010000'" JES2 IS EXPECTING DISCONNECT
		.... 1...		FSAEOT	"B'00001000'" FSA IS IN (THROUGH) EOT
		.... .1..		FSAFDRAN	"B'00000100'" FORCE DRAIN THE FSA
		.... ..1.		FSACMDA	"B'00000010'" FSS DEVICE COMMAND ACTIVE
		1		FSAROLTR	"B'00000001'" FSA rolling trace on

Table 186. Cross Reference for $FSACB

Name	Offset	Hex Tag
FSAACTQS	44	
FSAANEWS	5C	
FSAAPARM	54	
FSABEND	A0	4
FSABKWDO	A0	80
FSABRSTC	A0	8
FSACB	0	
FSACBID	0	
FSACBLEN	A0	A0
FSACHAIN	C	
FSACJPO	A0	2
FSACMDA	A0	2
FSACNCLO	A0	10
FSACNECT	A0	40
FSACTIVE	A0	80
FSADCON	A0	20
FSADCONX	A0	10
FSADEVN	38	

Table 186. Cross Reference for $FSACB (continued)

Name	Offset	Hex Tag
FSADRAIN	A0	8
FSADUMP	A0	2
FSADVCST	A0	1
FSAEDECB	18	
FSAEDGMK	A0	8
FSAEOT	A0	8
FSAEXTN	10	
FSAFDRAN	A0	4
FSAFDSPG	A0	10
FSAFJSPG	A0	20
FSAFLAG	90	
FSAFLAGA	98	
FSAFLAGI	91	
FSAFLAGO	90	
FSAFLAGR	92	
FSAFLAGS	8C	
FSAFLAG1	8C	
FSAFLAG2	8D	
FSAFLAG3	8E	
FSAFLAG4	8F	
FSAFLAG5	93	
FSAFLAG6	98	
FSAFLAG7	99	
FSAFLSHC	A0	10
FSAFRMSC	A0	20
FSAFSID	4	
FSAFSSA	8	
FSAFWRDO	A0	40
FSAGTDSP	A0	80
FSAHALT	A0	4
FSAHALTO	A0	4
FSAHSERR	A0	40
FSAID	4	6
FSAINRTO	A0	8
FSAJCTAD	54	
FSAJIBSV	4C	
FSAJOECT	52	
FSAJQECP	50	
FSALENQS	4C	10
FSALOGST	60	
FSAOINIT	A0	40
FSAOPIR	A0	1
FSAOROUT	A0	80
FSAPCE	94	
FSAPDDBA	58	
FSAQRYO	A0	1
FSAQUIES	A0	20
FSAREQQS	40	
FSARETQS	48	

Table 186. Cross Reference for $FSACB (continued)

Name	Offset	Hex Tag
FSAROLTR	A0	1
FSARSOUT	A0	40
FSARSRTO	A0	20
FSASETUP	A0	38
FSASTCHG	A0	2
FSASTPDV	A0	10
FSATCB	14	
FSATRACE	A0	80
FSAUNIT	34	
FSAUNIT3	34	35
FSAUPDTK	A0	4
FSAXECB	1C	
FSAZDEV	A0	2
FSA3JREQ	A0	1
FSA4CMDS	A0	4
FSA4CMJB	A0	2
FSA4CMNO	A0	8
FSA4CNST	A0	1
FSA4CPYM	A0	F
FSA4FIT	A0	20
FSA4NHLT	A0	10
FSA4NPSL	A0	40
FSA4TCEL	A0	80
FSA5BIT6	93	2
FSA5BIT7	93	1
FSA5DNRC	93	8
FSA5DONE	93	10
FSA5DSRP	93	4
FSA5OINT	93	20
FSA5PCAB	93	80
FSA5PINT	93	40
FSA6DSNA	98	80
FSA7JISF	99	80
FSA701IS	99	40

Chapter 86. $FSAXB Information

$FSAXB Programming Interface Information

$FSAXB is a programming interface.

$FSAXB Heading Information

Common Name: FSA Control Block Extension
Macro ID: $FSAXB
DSECT Name: FAXB
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: FAXB
Offset: FAXBCBID-FAXB
Length: L'FAXBCBID
Storage Attributes: Subpool: 230
Key: 1
Residency: Virtual and real storage is above the 16M line if the FSS supports running in 31 bit AMODE. Otherwise it is below the 16M line. Storage is located in the private area of the FSS address space.

Size: See FAXBLEN
Created by: HASPFSSM during FSA connect
Pointed to by: FSAEXTN field of the $FSACB data area
Serialization: None required
Function: This area provides private address space working storage for FSA level FSI requests.

$FSAXB mapping

Table 187. Structure FAXB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	FAXB	FSA CNTL BLOCK EXTENSION DSECT
0	(0)	CHARACTER	4	FAXBCBID	FSA CONTROL BLOCK EXT ID
4	(4)	SIGNED	4	FAXBFSID	FUNCTIONAL SUBSYSTEM APPLICATION ID
8	(8)	ADDRESS	4	FAXBFSAA	A(FSACB) FOR THIS EXTENSION
12	(C)	ADDRESS	4	FAXBRECB	ECB FOR HALT DEVICE ($Z) CMD
16	(10)	SIGNED	4	FAXBFSIP(0)	ORDER FSIREQ PARM LIST
220	(DC)	SIGNED	4	FAXBFSIR(0)	ORDER RESPONSE AREA
280	(118)	SIGNED	4	FAXBPOST(0)	POST FSIREQ PARM LIST
316	(13C)	SIGNED	4	FAXBPSAV(18)	POST SAVE AREA
316	(13C)	X'13C'	0	FAXBOSAV	"FAXBPSAV" ORDER SAVE AREA
388	(184)	ADDRESS	4	FAXBSJIB	ADDR OF JIB REQUIRING SETUP
392	(188)	SIGNED	4	FAXBJCJP	Job number of $CJ,P job
THE FIELDS THROUGH FAXBBRST MUST REMAIN TOGETHER AND IN THE SAME ORDER AS THE CORRESPONDING FIELDS STARTING AT FAXBFRMO THESE FIELDS REPRESENT THE CURRENT DEVICE SETUP.					
396	(18C)	BITSTRING	8	FAXBFRMS	CURRENT FORMS ID ON DEVICE

Table 187. Structure FAXB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
404	(194)	CHARACTER	0	FAXBWFRM(0)	
468	(1D4)	CHARACTER	4	FAXBFLSH	CURRENT FLASH ID ON DEVICE
472	(1D8)	CHARACTER	4	FAXBFCB	CURRENT FCB ID ON DEVICE
476	(1DC)	CHARACTER	4	FAXBUCS	CURRENT UCS ID ON DEVICE
480	(1E0)	CHARACTER	1	FAXBBRST	CURRENT BURST SETTING (Y/N)
480	(1E0)	X'55'	0	FAXBDLEN	"*-FAXBFRMS" LENGTH FOR SETUP PARMS
481	(1E1)	CHARACTER	1	FAXBFLSD	DEFAULT FLASH ID FOR DEVICE
THE FIELDS THROUGH FAXBBSTO MUST REMAIN TOGETHER AND IN THE SAME ORDER AS THE CORRESPONDING FIELDS STARTING AT FAXBFRMS. THESE FIELD REPRESENT THE DEFAULT AT THE TIME OPERATOR INERVENTION WAS ORIGINATED. IF THE DEVICE IS RESTARTED VIA A CANCEL, RESTART OR INTERRUPT COMMAND THE DEFAULTS WILL BE RESET USING THESE FIELDS.					
485	(1E5)	BITSTRING	8	FAXBFRMO	ORIGINAL FORMS ID FOR DEVICE
493	(1ED)	CHARACTER	0	FAXBWFRO(0)	
557	(22D)	CHARACTER	4	FAXBFLSO	ORIGINAL FLASH ID FOR DEVICE
561	(231)	CHARACTER	4	FAXBFCBO	ORIGINAL FCB ID ON DEVICE
565	(235)	CHARACTER	4	FAXBUCSO	ORIGINAL UCS ID ON DEVICE
569	(239)	CHARACTER	1	FAXBBSTO	ORIGINAL BURST SETTING (Y/N)
Work area for ASAXWC macros MACDATE -06/16/09-<0>					
0	(0)	X'23C'	0	M00M1170	"FAXLIST" ++ ASAXWC NAME
572	(23C)	SIGNED	4	FAXLIST(0)	++ ASAXWC PARM LIST
572	(23C)	CHARACTER	4	FAXLIST_XPARMAREA1	++ FIELD_LABEL
576	(240)	CHARACTER	24	FAXLIST_XPARMAREA2	++ FIELD_LABEL
576	(240)	X'258'	0	FAXLIST_PL_END	"*" ++ END OF BASE PLIST
572	(23C)	ADDRESS	4	FAXLIST_XPATTERNSTR_ADDR	++ ADDR
576	(240)	SIGNED	4	FAXLIST_XPATTERNSTRLEN	++
580	(244)	ADDRESS	4	FAXLIST_XSTRING_ADDR	++ ADDR
584	(248)	SIGNED	4	FAXLIST_XSTRINGLEN	++
588	(24C)	ADDRESS	4	FAXLIST_XZEROORMORE_ADDR	++ ADDR
592	(250)	ADDRESS	4	FAXLIST_XONECHAR_ADDR	++ ADDR
596	(254)	ADDRESS	4	FAXLIST_XDELIMITER_ADDR	++ ADDR
572	(23C)	ADDRESS	4	FAXLIST_XPPPATTERNINFO_ADDR	++ ADDR
576	(240)	ADDRESS	4	FAXLIST_XPPPATTERNSTR_ADDR	++ ADDR
580	(244)	SIGNED	4	FAXLIST_XPPPATTERNSTRLEN	++
584	(248)	ADDRESS	4	FAXLIST_XPPZEROORMORE_ADDR	++ ADDR
588	(24C)	ADDRESS	4	FAXLIST_XPPONECHAR_ADDR	++ ADDR
592	(250)	ADDRESS	4	FAXLIST_XPPDELIMITER_ADDR	++ ADDR
576	(240)	ADDRESS	4	FAXLIST_XPPSTRING_ADDR	++ ADDR
580	(244)	SIGNED	4	FAXLIST_XPPSTRINGLEN	++
600	(258)	X'1C'	0	FAXLISTL	"*-FAXLIST" ++ LENGTH OF PLIST
				ASAXWC-0	
600	(258)	BITSTRING	256	FAXAREA	Work area passed to ASAXWC
856	(358)	DBL WORD	8	(0)	
856	(358)	X'358'	0	FAXBLEN	"*-FAXB" LENGTH OF THE FSA CNTL BLOCK EXT

Table 188. Cross Reference for $FSAXB

Name	Offset	Hex Tag
FAXAREA	258	
FAXB	0	
FAXBBRST	1E0	
FAXBBSTO	239	
FAXBCBID	0	
FAXBDLEN	1E0	55
FAXBFCB	1D8	
FAXBFCBO	231	
FAXBFLSD	1E1	
FAXBFLSH	1D4	
FAXBFLSO	22D	
FAXBFRMO	1E5	
FAXBFRMS	18C	
FAXBFSAA	8	
FAXBFSID	4	
FAXBFSIP	10	
FAXBFSIR	DC	
FAXBJCJP	188	
FAXBLEN	358	358
FAXBOSAV	13C	13C
FAXBPOST	118	
FAXBPSAV	13C	
FAXBRECB	C	
FAXBSJIB	184	
FAXBUCS	1DC	
FAXBUCSO	235	
FAXBWFRM	194	
FAXBWFRO	1ED	
FAXLIST	23C	
FAXLIST_PL_END	240	258
FAXLIST_XDELIMITER_ADDR	254	
FAXLIST_XONECHAR_ADDR	250	
FAXLIST_XPARMAREA1	23C	
FAXLIST_XPARMAREA2	240	
FAXLIST_XPATTERNSTR_ADDR	23C	
FAXLIST_XPATTERNSTRLEN	240	
FAXLIST_XPPDELIMITER_ADDR	250	
FAXLIST_XPPONECHAR_ADDR	24C	
FAXLIST_XPPPATTERNINFO_ADDR	23C	
FAXLIST_XPPPATTERNSTR_ADDR	240	
FAXLIST_XPPPATTERNSTRLEN	244	
FAXLIST_XPPSTRING_ADDR	240	
FAXLIST_XPPSTRINGLEN	244	
FAXLIST_XPPZEROORMORE_ADDR	248	
FAXLIST_XSTRING_ADDR	244	
FAXLIST_XSTRINGLEN	248	
FAXLIST_XZEROORMORE_ADDR	24C	
FAXLISTL	258	1C
M00M1170	0	23C

Chapter 87. $FSSCB Information

$FSSCB Programming Interface Information

The following fields are **NOT** programming interface information:

- FSSAXL
- FSSETL
- FSSLXL
- FSSLXV

$FSSCB Heading Information

Common Name:	JES2 FSS Control Block
Macro ID:	$FSSCB
DSECT Name:	FSSCB
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'FSS ' Offset: -8 (in the JES2 CSA storage prefix) Length: 4
Storage Attributes:	Subpool: 241 Key: 1 Residency: Virtual and real storage is anywhere.
Size:	See FSSCBLEN
Created by:	DYNFSS in HASPFSSP
Pointed to by:	CCTFSSCB field of the HCCT data area (first FSSCB) FSSCHAIN field of the previous FSSCB data area
Serialization:	The chain can be added to by the JES2 main task. At this time the chain cannot be broken to accomplish a delete.
Function:	The FSSCB represents a functional subsystem (FSS) defined to JES2. It points to the FSSXB in the FSS address space, and the chain of FSACB's for applications assigned to the FSS.

$FSSCB mapping

Table 189. Structure FSSCB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	FSSCB	FSS CONTROL BLOCK DSECT
0	(0)	CHARACTER	8	FSSNAME	FUNCTIONAL SUBSYSTEM NAME
8	(8)	CHARACTER	8	FSSPROCN	CATALOGED PROC NAME FOR FSS
16	(10)	CHARACTER	8	FSSFSSMN	FSS SUPPORT MODULE NAME (FSSM)
24	(18)	SIGNED	4	FSSFSSML	FSS SUPPORT MODULE LENGTH
28	(1C)	ADDRESS	4	FSSCHAIN	ADDR OF NEXT FSSCB OFF CCTFSSCB
32	(20)	ADDRESS	2	FSSASID	ASID FOR THE FSS ADDRESS SPACE
34	(22)	ADDRESS	2	FSSFSSID	FSS PORTION OF FSID FOR FSAS
HASPFSSM CROSS MEMORY SERVICE TABLES					
36	(24)	SIGNED	4	FSSLXL(0)	LINKAGE INDEX (LX) LIST

Table 189. Structure FSSCB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
36	(24)	SIGNED	4	FSSLXN	NUMBER OF LXS REQUESTED
40	(28)	SIGNED	4	FSSLXV	VALUE (LX) RETURNED BY LXRES
44	(2C)	SIGNED	4	FSSAXL(0)	AUTHORIZATION INDEX (AX) LIST
44	(2C)	SIGNED	2	FSSAXN	NUMBER OF AXS REQUESTED
46	(2E)	SIGNED	2	FSSAXV	VALUE (AX) RETURNED BY AXRES
48	(30)	SIGNED	2	FSSAXSV	ORIGINAL AX, SAVED AFTER AXSET
50	(32)	ADDRESS	2		RESERVED FOR FUTURE USE
52	(34)	SIGNED	4	FSSETL(0)	ENTRY TABLE (ET) LIST
52	(34)	SIGNED	4	FSSETN	NUMBER OF ETS CREATED
56	(38)	SIGNED	4	FSSETV	VALUE (TOKEN) RETURNED BY ETCRE
		PC NUMBERS FOR CROSS MEMORY SERVICES ROUTINES IN HASPFSSM (MUST BE IN SAME ORDER AS PC ENTRY POINTS IN $HFCT) AND CROSS-MEMORY COMMUNICATION ECBS.			
60	(3C)	SIGNED	4	FSSPC(0)	
60	(3C)	ADDRESS	4	FSSORDPC	PC # OF XMS FSI-ORDER ROUTINE
64	(40)	ADDRESS	4	FSSPSTPC	PC # OF XMS FSI-POST ROUTINE
68	(44)	SIGNED	4	FSSXECB(0)	XECB TO POST PCE FOR FSS
68	(44)	X'48'	0	FSSDCTCH	"XECBPCE-XECB+FSSXECB" A(DCT CHAIN DURING JES2 INIT OR RE-INIT (HOT START)
92	(5C)	SIGNED	4	FSSEDECB	ECB FOR DISCONNECT COORDINATION
		MISCELLANEOUS CONTROL FIELDS AND FLAG BYTES			
96	(60)	ADDRESS	4	FSSQCTS	Address of QCT area
100	(64)	ADDRESS	4	FSSHFCT	A(HFCT IN FSSM FOR THIS FSS)
104	(68)	ADDRESS	4	FSSRCRTN	A(FSMRCRTN SRB RECONNECT RTN)
108	(6C)	ADDRESS	4	FSSFSACH	A(FSACB CHAIN FOR THIS FSS)
112	(70)	ADDRESS	4	FSSEXTN	A(FSS EXTENSION-FSS ADDR SPACE)
116	(74)	ADDRESS	4	FSSTCB	ADDRESS OF TCB CONNECTING FSS
120	(78)	SIGNED	2	FSSFSAMI	MAX FSA ID IN FSIDS WITHIN FSS
122	(7A)	SIGNED	2	FSSDIFM	COUNT OF DCTS IN FSS MODE
124	(7C)	SIGNED	2	FSSFSVTE	NUMBER OF ENTRIES IN THE FSVT IF THE FSS IS ACTIVE
126	(7E)	SIGNED	2	(2)	RESERVED FOR FUTURE USE
130	(82)	BITSTRING	1		Reserved for future use
131	(83)	BITSTRING	1	FSSFLAG4	General status flag. This flag is set only by the FSS address space. No serialization is required
		FSSFLAG4 - If neither of the following bits is ON, then this FSS does NOT support IP-format destination routing.			
		1...		FSS4IP	"B'10000000'" FSS supports ONLY IP-format
		.1..		FSS4BOTH	"B'01000000'" FSS supports BOTH IP&non-IP
132	(84)	SIGNED	4	FSSLWORD(0)	FSS 'LOCK' WORD WITH RAS FLAGS
132	(84)	BITSTRING	1	FSSFLAGA	FLAG BYTE
		FSSFLAGA			
		1...		FSSABORD	"B'10000000'" ABEND IN PC'D TO FSMORDER FSSM

Table 189. Structure FSSCB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		FSSA$ACT	"B'01000000'" FSS included in $ACTVFSS
		..1.		FSSASTPI	"B'00100000'" FSS STOP order issued
		...1		FSSABIT3	"B'00010000'" RESERVED FOR FUTURE USE
		.... 1...		FSSABIT4	"B'00001000'" RESERVED FOR FUTURE USE
		.... .1..		FSSABIT5	"B'00000100'" RESERVED FOR FUTURE USE
		.... ..1.		FSSABIT6	"B'00000010'" RESERVED FOR FUTURE USE
		1		FSSABIT7	"B'00000001'" RESERVED FOR FUTURE USE
133	(85)	BITSTRING	1	FSSFLAG1	FLAG BYTE - GENERAL USAGE
134	(86)	BITSTRING	1	FSSFLAG2	FLAG BYTE - GENERAL USAGE
135	(87)	BITSTRING	1	FSSFLAG3	FLAG BYTE - RAS USE
		1		FSSLMASK	"B'0001'" MASK FOR FSSFLAG3 IN FSSLWORD
136	(88)	SIGNED	4	FSSWORK	Work area
140	(8C)	SIGNED	4	FSSDOMID	DOMID FOR HASP706 MESSAGE
144	(90)	BITSTRING	8		RESERVED FOR FUTURE IBM USE
152	(98)	DBL WORD	8	FSSASTKN	FSS address space STKN
160	(A0)	CHARACTER	8	FSSAPARN	HASPFSSM APARNUM value
168	(A8)	CHARACTER	8	FSSPTFN	HASPFSSM PTFNUM value
176	(B0)	CHARACTER	8	FSSJOBID	Job id of the FSS
		FSSORINF will contain FSS level order information: $FSACB address for START FSA (ORDID=8) order. $FSACB address for STOP FSA (ORDID=12) order. PRT PCE address for START FSS (ORDID=0) order. PRT PCE address for STOP FSS (ORDID=4) order.			
184	(B8)	ADDRESS	4	FSSORINF	Who is doing FSS activity
188	(BC)	SIGNED	2	FSSORDID	FSS activity - order id
190	(BE)	SIGNED	2		RESERVED FOR FUTURE IBM USE
192	(C0)	SIGNED	4	(0)	END OF FSSCB DSECT
192	(C0)	X'C0'	0	FSSCBLEN	"*-FSSCB" LENGTH OF THE FSS CONTROL BLOCK
		FLAG DEFINITIONS FSSFLAG1			
		1...		FSSOROUT	"B'10000000'" FSS ORDER OUTSTANDING
		.1..		FSSRSOUT	"B'01000000'" FSS RESPONSE OUTSTANDING
		..1.		FSSTART	"B'00100000'" FSS START OUTSTANDING
		...1		FSSTOP	"B'00010000'" About to issue STOP FSS ord
		.... 1...		FSSDRAIN	"B'00001000'" ISSUE STOP FSS ORDER
		.... .1..		FSSABEND	"B'00000100'" ABNORMAL TERMINATION REQUESTED
		.... ..1.		FSSDUMP	"B'00000010'" DUMP REQUESTED ON STOP

Table 189. Structure FSSCB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1		FSSFDRAN	"B'00000001'" FORCE FSS STOP PROCESSING
	FSSFLAG2				
		1...		FSSACTIV	"B'10000000'" FSS ADDRESS SPACE IS ACTIVE
		.1..		FSS2BIT2	"B'01000000'" RESERVED FOR FUTURE USE
		..1.		FSS2ASD0	"B'00100000'" AUTOMATICALLY SHUT DOWN THE FSS IF THE FSA COUNT GOES TO ZERO
		...1		FSS2PAF	"B'00010000'" If the FSS-Cleanup PCE finds an FSSCB with FSSEOM on, it posts the PCE for each FSA. It then sets this flag so that all the PCEs are post only once
		.... 1...		FSSSTPE	"B'00001000'" PREVIOUS FSS STOP ERROR
		.... .1..		FSS24DG	"B'00000100'" FSS supports 4-digit devs
		.... ..1.		FSS2BIT6	"B'00000010'" RESERVED FOR FUTURE USE
		1		FSS2AM31	"B'00000001'" FSS supports AMODE 31
	FSSFLAG3				
		1...		FSSCNCT1	"B'10000000'" FSS CONNECTING (LOCKS FSS CONNECT AND STAYS ON WHEN CONNECTED)
		.1..		FSSCNCT2	"B'01000000'" FSS HAS COMPLETED CONNECT
		..1.		FSSDCON	"B'00100000'" FSS IS(WILL) DISCONNECTING
		...1		FSSDCONX	"B'00010000'" JES2 IS READY FOR DISCONNECT
		.... 1...		FSSEOM	"B'00001000'" FSS MEMORY HAS ENDED
		.... .1..		FSSEOT	"B'00000100'" FSS CONNECTING TCB HAS ENDED
		.... ..1.		FSSRCOK	"B'00000010'" FSS RECONNECT SRB SUCCESSFUL
		1		FSSRCERR	"B'00000001'" FSS ERROR IN RECONNECT SRB RTN

Table 190. Cross Reference for $FSSCB

Name	Offset	Hex Tag
FSSA$ACT	84	40
FSSABEND	C0	4
FSSABIT3	84	10
FSSABIT4	84	8
FSSABIT5	84	4
FSSABIT6	84	2

Table 190. Cross Reference for $FSSCB (continued)

Name	Offset	Hex Tag
FSSABIT7	84	1
FSSABORD	84	80
FSSACTIV	C0	80
FSSAPARN	A0	
FSSASID	20	
FSSASTKN	98	
FSSASTPI	84	20
FSSAXL	2C	
FSSAXN	2C	
FSSAXSV	30	
FSSAXV	2E	
FSSCB	0	
FSSCBLEN	C0	C0
FSSCHAIN	1C	
FSSCNCT1	C0	80
FSSCNCT2	C0	40
FSSDCON	C0	20
FSSDCONX	C0	10
FSSDCTCH	44	48
FSSDIFM	7A	
FSSDOMID	8C	
FSSDRAIN	C0	8
FSSDUMP	C0	2
FSSEDECB	5C	
FSSEOM	C0	8
FSSEOT	C0	4
FSSETL	34	
FSSETN	34	
FSSETV	38	
FSSEXTN	70	
FSSFDRAN	C0	1
FSSFLAGA	84	
FSSFLAG1	85	
FSSFLAG2	86	
FSSFLAG3	87	
FSSFLAG4	83	
FSSFSACH	6C	
FSSFSAMI	78	
FSSFSSID	22	
FSSFSSML	18	
FSSFSSMN	10	
FSSFSVTE	7C	
FSSHFCT	64	
FSSJOBID	B0	
FSSLMASK	87	1
FSSLWORD	84	
FSSLXL	24	
FSSLXN	24	
FSSLXV	28	

Table 190. Cross Reference for $FSSCB (continued)

Name	Offset	Hex Tag
FSSNAME	0	
FSSORDID	BC	
FSSORDPC	3C	
FSSORINF	B8	
FSSOROUT	C0	80
FSSPC	3C	
FSSPROCN	8	
FSSPSTPC	40	
FSSPTFN	A8	
FSSQCTS	60	
FSSRCERR	C0	1
FSSRCOK	C0	2
FSSRCRTN	68	
FSSRSOUT	C0	40
FSSSTPE	C0	8
FSSTART	C0	20
FSSTCB	74	
FSSTOP	C0	10
FSSWORK	88	
FSSXECB	44	
FSS2AM31	C0	1
FSS2ASD0	C0	20
FSS2BIT2	C0	40
FSS2BIT6	C0	2
FSS2PAF	C0	10
FSS24DG	C0	4
FSS4BOTH	83	40
FSS4IP	83	80

Chapter 88. $FSSWORK Information

$FSSWORK Programming Interface Information

$FSSWORK is a programming interface.

$FSSWORK Heading Information

Common Name:	HASP FSS-Support processor work area DSECT.
Macro ID:	$FSSWORK
DSECT Name:	PCE ($FSSWORK is part of the PCE DSECT)
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4
Storage Attributes:	Subpool: See $PCE Key: See $PCE Residency: See $PCE
Size:	See symbol FSWLNGTH for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by:	See $PCE
Pointed to by:	$PRTPCE field of the $HCT data area
Serialization:	Normal PCE dispatch serialization
Function:	This DSECT provides the work area required by a JES2 processor in support of a functional subsystem application. There are no PCEs of a type called 'FSS', but instead a PCE of another type (e.g. printer) is defined to ensure it is large enough to be changed into a PCE mapped by $FSSWORK if that processor type is allowed to run in FSS mode. See the $PCETAB FSS=YES description for more details.

$FSSWORK mapping

Table 191. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	HASP FSS PROCESSOR
320	(140)	BITSTRING	1	FSWFLAG	PRINT/PUNCH FLAG BYTE
		1...		FSWFORDI	"B'10000000'" CURRENT ORDER WAS ISSUED UNDER CONTROL OF THIS PCE AND A TIMER IS OUTSTANDING (FSWTQE)
		.1..		FSWFMODE	"B'01000000'" THIS PCE PROCESSING MODE SWITCH
		..1.		FSWFACTV	"B'00100000'" THIS PCE HAS ISSUED $ACTIVE
		...1		FSWFNONE	"B'00010000'" FLASH=NONE INDICATOR

Table 191. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		FSWFARET	"B'00001000'" FSSP tried recovery from abend once
321	(141)	BITSTRING	1		RESERVED FOR FUTURE USE
322	(142)	ADDRESS	2	FSWORDID	ORDID FOR ORDER ISSUED BY PCE
324	(144)	SIGNED	4	FSWFWORK	FULL WORD WORK AREA
328	(148)	DBL WORD	8	FSWDWORK	DOUBLE WORD WORK AREA
336	(150)	SIGNED	4	FSWCMBAD	ADDRESS OF CMB FOR $DOM
340	(154)	SIGNED	4	FSWFBPCT	$F/$B PAGE COUNT
344	(158)	BITSTRING	12	FSWTQE	FSS TIME QUEUE ELEMENT
356	(164)	SIGNED	4	(0)	Insure fullword boundary
356	(164)	BITSTRING	12	FSWPELMT(0)	$XMPOST POST element
356	(164)	ADDRESS	4	FSWPERET	$XMPOST POST element ERRET
360	(168)	ADDRESS	4	FSWPECB	$XMPOST POST ELEMENT ECB ADDR
364	(16C)	ADDRESS	4	FSWPASCB	$XMPOST POST ELEMENT ASCB ADDR
368	(170)	ADDRESS	2	FSWNRCNT	WAITING FOR RESPONSE COUNT
368	(170)	X'12C'	0	FSWTIME	"300" TIME INTERVAL FOR CONNECT
372	(174)	ADDRESS	4	FSWFSSCB	ADDRESS OF FSSCB
376	(178)	SIGNED	4	FSWJ2TRP	Pointer to FSA level rolling trace storage
380	(17C)	SIGNED	4	FSWFSACT	Trace counter for FSA trace
384	(180)	SIGNED	4	(0)	
384	(180)	X'40'	0	FSWHLGTH	"*-PCEWORK" FSS PCE WORK AREA HEADER LENGTH
		THE FSS PCE WORK AREA IS COMPRISED OF A HEADER AREA AND 3 VARIABLE LENGTH EXTENSIONS WHICH ARE ORGED OVER EACH OTHER. THESE 3 EXTENSIONS ARE the message, RELDS, and GETDS work areas. The length of the FSS PCE work area is determined by adding the length of the header area to that of the GETDS work area (276 bytes), since it is the largest of the 3 extensions.			
384	(180)	SIGNED	4	FSWJIBWK(0)	JIB Work area
384	(180)	CHARACTER	256	FSWRK	Message work area
384	(180)	CHARACTER	24		JIB RELDS MVCP Wk area
384	(180)	CHARACTER	212		JIB GETDS MVCS work area part 1
596	(254)	CHARACTER	64		JIB GETDS MVCS work area part 2
660	(294)	SIGNED	4	(0)	INSURE FULLWORD ALIGNMENT
660	(294)	X'154'	0	FSWLNGTH	"FSWHLGTH+*-FSWJIBWK" FSS PCE WORK AREA LENGTH

Table 192. Cross Reference for $FSSWORK

Name	Offset	Hex Tag
FSWCMBAD	150	
FSWDWORK	148	
FSWFACTV	140	20
FSWFARET	140	8
FSWFBPCT	154	
FSWFLAG	140	
FSWFMODE	140	40
FSWFNONE	140	10
FSWFORDI	140	80

Table 192. Cross Reference for $FSSWORK (continued)

Name	Offset	Hex Tag
FSWFSACT	17C	
FSWFSSCB	174	
FSWFWORK	144	
FSWHLGTH	180	40
FSWJIBWK	180	
FSWJ2TRP	178	
FSWLNGTH	294	154
FSWNRCNT	170	
FSWORDID	142	
FSWPASCB	16C	
FSWPECB	168	
FSWPELMT	164	
FSWPERET	164	
FSWRK	180	
FSWTIME	170	12C
FSWTQE	158	
PCE	0	

Chapter 89. $FSSXB Information

$FSSXB Programming Interface Information

$FSSXB is a programming interface.

$FSSXB Heading Information

Common Name: FSS Control Block Extension DSECT
Macro ID: $FSSXB
DSECT Name: FSXB
Owning Component: JES2 (SC1BH)
Eye-Catcher ID:
```
FSXB
Offset:  FSXBCBID-FSXB
Length:  L'FSXBCBID
```
Storage Attributes:
```
Subpool:   230
Key:       1
Residency: Virtual and real storage is based on the addressing
mode of the FSS.  If restricted to 24 bit storage,
then the FSSXB must be in 24 bit storage.  Otherwise
it can be anywhere in 31 bit storage.
```

Size: See FSXBLEN
Created by: HASPFSSM during FSS connect processing
Pointed to by: FSSEXTN field of the FSSCB data area
Serialization: None required
Function: The FSSXB is the private area extension to the FSSCB.

$FSSXB mapping

Table 193. Structure FSXB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	FSXB	FSS CNTL BLOCK EXTENSION DSECT
0	(0)	CHARACTER	4	FSXBCBID	FSS CONTROL BLOCK EXT ID
4	(4)	CHARACTER	8	FSXBNAME	FUNCTIONAL SUBSYSTEM NAME
12	(C)	ADDRESS	4	FSXBFSSA	A(FSSCB) FOR THIS EXTENSION
16	(10)	SIGNED	4	FSXBFSIP(0)	ORDER FSIREQ PARM LIST
124	(7C)	SIGNED	4	FSXBFSIR(0)	ORDER RESPONSE AREA
184	(B8)	SIGNED	4	FSXBOSAV(18)	ORDER SAVE AREA
256	(100)	ADDRESS	4	FSXBXETA	ADDR OF ENTRY TABLE DESC (ETD)
256	(100)	X'104'	0	FSXBLEN	"*-FSXB" LENGTH OF THE FSS CNTL BLOCK EXT

Chapter 90. $GGEQU Information

$GGEQU Programming Interface Information

$GGEQU is a programming interface.

$GGEQU Heading Information

Common Name: Generic grouping equates
Macro ID: $GGEQU
DSECT Name: n/a
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: None
Storage Attributes:
```
Subpool:   N/A
Key:       N/A
Residency: N/A
```

Size: N/A
Created by: N/A
Pointed to by: N/A
Serialization: N/A
Function: Defines equates related to the generic grouping services ($GASSIGN, $GKGET, $GKINIT, $GKTERM, $GSINIT, $GSTERM).

$GGEQU mapping

Table 194. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		

```
,$MODULE - $CADDR WILL BE GENERATED, IT IS REQUIRED BY
,$MODULE - $HASPEQU WILL BE GENERATED, IT IS REQUIRED BY
,$MODULE - $MIT WILL BE GENERATED, IT IS REQUIRED BY
,$MODULE - $MITETBL WILL BE GENERATED, IT IS REQUIRED BY
,$MODULE - $PADDR WILL BE GENERATED, IT IS REQUIRED BY
,$MODULE - $PARMLST WILL BE GENERATED, IT IS REQUIRED BY
,$MODULE - $PSV WILL BE GENERATED, IT IS REQUIRED BY
,$MODULE - $USERCBS WILL BE GENERATED, IT IS REQUIRED BY
```

Table 194. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		START OF SPECIFICATIONS 01 DESCRIPTIVE NAME: Generic grouping equates 02 ACRONYM: $GGEQU 01 MACRO NAME: $GGEQU 01 DSECT NAME: n/a 01 LABEL PREFIX: GG 01 COMPONENT ID: JES2 (SC1BH) 01 EXTERNAL CLASSIFICATION: PSPI 01 END OF EXTERNAL CLASSIFICATION: 01 EYE-CATCHER: None 02 OFFSET: N/A 02 LENGTH: N/A 01 STORAGE ATTRIBUTES: 02 SUBPOOL: N/A 02 KEY: N/A 02 RESIDENCY: N/A 01 SIZE: N/A 01 CREATED BY: N/A 01 POINTED TO BY: N/A 01 SERIALIZATION: N/A 01 FUNCTION: Defines equates related to the generic grouping services ($GASSIGN, $GKGET, $GKINIT, $GKTERM, $GSINIT, $GSTERM). 01 METHOD OF ACCESS: 02 ASM: Specify $GGEQU as a positional operand on a $MODULE macro instruction to cause this mapping to be generated. 02 PL/X: This mapping is not available for compilations. 01 USED BY: Callers of the generic grouping services. 01 DELETED BY: N/A 01 FREQUENCY: N/A 01 RESTRICTIONS: None END OF SPECIFICATIONS 01 CHANGE ACTIVITY: A000000-999999 Created for JES2 4.1.0 Return codes Note: Return code 4 is reserved for future use for less severe (warning) conditions.			
0	(0) X'0'	0	GGRCOK	"0" Processing successful	
0	(0) X'8'	0	GGRCERR	"8" Error detected	
		Reason codes Each service returns a subset of these reason codes. Each service macro's prolog lists the reason codes that the service returns.			
0	(0) X'0'	0	GGRSOK	"0" Processing successful	
0	(0) X'4'	0	GGRSJDVT	"4" JDVT name is undefined	
0	(0) X'8'	0	GGRSPVST	"8" Private storage is unavailable	
0	(0) X'C'	0	GGRSCMST	"12" Common storage is unavailable	
0	(0) X'10'	0	GGRSIPCE	"16" Caller is not the initialization PCE	
		Miscellaneous constants			

Table 194. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'20'	0	GGMAXFPL	"32" Maximum footprint length
0	(0)	X'20'	0	GGMAXMSL	"32" Maximum message length

Table 195. Cross Reference for $GGEQU

Name	Offset	Hex Tag
GGMAXFPL	0	20
GGMAXMSL	0	20
GGRCERR	0	8
GGRCOK	0	0
GGRSCMST	0	C
GGRSIPCE	0	10
GGRSJDVT	0	4
GGRSOK	0	0
GGRSPVST	0	8

Chapter 91. $GPQE Information

$GPQE Heading Information

Common Name:	General purpose subtask queue element
Macro ID:	$GPQE
DSECT Name:	GPQE
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'GPQE' Offset: 0 Length: 4
Storage Attributes:	Subpool: see GPQPOOL Key: 1 Residency: Virtual storage belw 2Gb, real storage anywhwere, in the private storage of a JES@ NETSRV address space
Size:	See CIDSIZE
Created by:	$SUBIT service in HASCNJGP
Pointed to by:	GPQNEXT field of the $GPQE data area GPQPREV field of the $GPQE data area NSCGPQEH field of the $NSCT data area NSCGPQET field of the $NSCT data area SQDGPQ field of the $SQD data area
Serialization:	Queue managed by $FIFOENQ and $FIFODEQ
Function:	General purpose subtask queue element .

$GPQE mapping

Table 196. Structure GPQE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	GPQE	Work area
0	(0)	CHARACTER	4	GPQEYE	Eyecatcher
4	(4)	ADDRESS	4	GPQNEXT	Next subtask area
8	(8)	ADDRESS	4	GPQPREV	Previous subtask area
12	(C)	SIGNED	4	GPQSQD	SQD address
16	(10)	BITSTRING	16	GPQTTOK	TCB token of requesting task
16	(10)	X'20'	0	GPQLEN	"*-GPQE" LENGTH OF AREA

Chapter 92. $GTW Information

$GTW Heading Information

Common Name:	HASP $#GET trace work area dsect
Macro ID:	$GTW
DSECT Name:	GTW
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'GTW ' Offset: GTWID-GTW Length: 4
Storage Attributes:	Subpool: 1 Key: 1 Residency: Anywhere (above or below 16M) in the private storage of the JES2 address space.
Size:	See GTWLEN
Created by:	$#GET and $#POST service routines
Pointed to by:	WSPGTW field of the $WSP data area ($#GET) WSAPSGTW field of the $WSA data area ($#POST)
Serialization:	No special serialization other than that currently implied by the $#GET service routine is required.
Function:	This dsect maps a work area used by $#GET, $#POST, and $QGET services to save information to be included in the JES2 $TRACE id 20, 30, and 31 records.

$GTW mapping

Table 197. Structure GTW

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	GTW	
0	(0)	CHARACTER	4	GTWID	GTW IDENTIFIER
4	(4)	BITSTRING	1	GTWVERS	GTW VERSION
5	(5)	BITSTRING	1	GTWFLAGP	Processing flag byte
		1...		GTWPTIME	"B'10000000'" CPU time has been set
6	(6)	BITSTRING	2		Reserved
8	(8)	SIGNED	4	GTWSTART(0)	START OF $TRACE DATA
Fields used by more than one routine					
8	(8)	DBL WORD	8	GTWTIME	CPU Time used by this call in TOD format
16	(10)	SIGNED	4	GTWJSCR	NUMBER OF WS CALLS MADE
20	(14)	SIGNED	4	GTWJNUM	NUMBER OF JOES LOOKED AT
24	(18)	SIGNED	4	GTWJOACT	NUMBER OF $DOGJOE CALLS
28	(1C)	SIGNED	4	GTWBEST	Which JOE was selected out of the ones looked at
32	(20)	ADDRESS	4	GTWCALER	Address of caller
36	(24)	SIGNED	4	GTWWSTAB	WS TABLE ADDRESS

Table 197. Structure GTW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
40	(28)	CHARACTER	18	GTWDCTN	Dev name in one of 2 forms For non-SAPI: WSPDEVN2 For SAPI: jobname.sss2appl
40	(28)	X'28'	0	GTWPITN	"GTWDCTN,4" For initiators: PITPATID
58	(3A)	ADDRESS	2	(0)	Ensure big enough
58	(3A)	ADDRESS	2	(0)	
58	(3A)	BITSTRING	1	GTWTFLG1	Caller type
		1...		GTWT1GET	"B'10000000'" $#GET
		.1..		GTWT1PST	"B'01000000'" $#POST
		..1.		GTWT1QGT	"B'00100000'" $QGET
		...1		GTWT1PSO	"B'00010000'" PSO
59	(3B)	BITSTRING	100	GTWWS	Device work selection list
159	(9F)	BITSTRING	25	GTWMASK	Criteria value mask
184	(B8)	DBL WORD	8	GTWORG(0)	Start caller specific data
		Fields used by $#GET/PSO only ($TRACE 20)			
		KEEP THE NEXT 4 BYTES TOGETHER FOR $TRACE FORMATTING			
184	(B8)	BITSTRING	1	GTWDCT	DCT DEVICE TYPE
185	(B9)	BITSTRING	1	GTWFLAG1	1ST FLAG BYTE
		1...		GTW1WS	"B'10000000'" TYPE=WS REQUEST
		.1..		GTW1NET	"B'01000000'" TYPE=NET REQUEST
		..1.		GTW1HYES	"B'00100000'" HAVE=YES REQUEST
		...1		GTW1CNT	"B'00010000'" COUNT=YES request
		.... 1...		GTW1CYES	"B'00001000'" CHAIN=YES REQUEST
		.... .1..		GTW1NSAF	"B'00000100'" SAF=NO request
		.... ..1.		GTW1ALM	"B'00000010'" LINE MGR REQ, AUTOLOGN SCAN
186	(BA)	BITSTRING	1	GTWFLAG2	2ND FLAG BYTE
		1...		GTW2FAST	"B'10000000'" Fast exit from $#GET due to value in DCTPJOE/WSPPJOE
		..1.		GTW2NO	"B'00100000'" NO WORK FOUND
		.... .1..		GTW2JOEX	"B'00000100'" JOE index was used
		.... ..1.		GTW2JXOV	"B'00000010'" JOE index priority array overflow detected
		1		GTW2SAFF	"B'00000001'" GET FAILURE DUE TO SAF CALL
187	(BB)	BITSTRING	1	GTWFLAG3	PSO selection flags
188	(BC)	SIGNED	4	GTWJOES	NUMBER OF JOES DEFINED
192	(C0)	SIGNED	4	GTWQNUM	NUMBER OF JOES IN USE
		THE FOLLOWING TWO COUNTS APPLY ONLY TO CHAIN=YES REQUESTS			
196	(C4)	SIGNED	4	GTWCHCNT	NUMBER OF JOES ON JOB CHAIN
200	(C8)	SIGNED	4	GTWCHSEL	NUMBER SELECTED FROM JQE/JOE CHAIN
204	(CC)	SIGNED	4	GTWROUTE(0)	REMOTE ID OF DATA SELECTED
204	(CC)	SIGNED	2	GTWNODE	NODE ID
206	(CE)	SIGNED	2	GTWRMT	REMOTE ID
208	(D0)	CHARACTER	8	GTWUSER	USERID
216	(D8)	BITSTRING	1	GTWCLASS	CLASS VALUE OF DATA
217	(D9)	BITSTRING	1		Reserved

Table 197. Structure GTW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
218	(DA)	BITSTRING	2	GTWVORD	View used when GTW2JOEX
220	(DC)	SIGNED	4		Reserved
	Fields used by $#POST only ($TRACE 30)				
184	(B8)	CHARACTER	8	GTWJONAM	JOE OUTGRP name
192	(C0)	SIGNED	2	GTWJOID1	qualifier 1
194	(C2)	SIGNED	2	GTWJOID2	qualifier 2
196	(C4)	CHARACTER	8	GTWJQNAM	Job name
204	(CC)	SIGNED	4	GTWJBNUM	Job number
208	(D0)	BITSTRING	1	GTWJQTYP	Job type flags
209	(D1)	BITSTRING	3		Reserved
212	(D4)	SIGNED	4	GTWWSPCT	Number of WSPs scanned
216	(D8)	SIGNED	4	GTWPSTCT	Number of WSPs $POSTed
220	(DC)	SIGNED	4	GTWWTRCT	Number of XWTRs scanned
224	(E0)	SIGNED	4	GTWPSTWR	Number of XWTRs $POSTed
228	(E4)	SIGNED	4	GTWSPICT	Number of SAPIDs scanned (full screening)
232	(E8)	SIGNED	4	GTWSPIRT	Number of SAPIDs scanned (abbreviated screening)
236	(EC)	SIGNED	4	GTWPSTSP	Number of SAPIDs $POSTed
	Fields used by $QGET only ($TRACE 31)				
184	(B8)	SIGNED	4	GTWX14RC	Exit 14 return code
188	(BC)	BITSTRING	8	GTWX14TM	Time spent in exit 14
196	(C4)	BITSTRING	8	GTWX49TM	Time spent in exit 49
204	(CC)	SIGNED	4	GTWX49SK	# JOBS vetoed by exit 49
208	(D0)	BITSTRING	1	GTWQFLG1	Flags
		1...		GTWQ1X14	"B'10000000'" Exit 14 was entered
		.1..		GTWQ1X49	"B'01000000'" Exit 49 was entered
		..1.		GTWQ1W49	"B'00100000'" Exit 49 $WAITed
		...1		GTWQ1WLM	"B'00010000'" QGET reject because WLM goals exceeded
209	(D1)	BITSTRING	1	GTWQUEUE	Queue scanned by type
210	(D2)	BITSTRING	2		Reserved for future use
212	(D4)	SIGNED	4	GTWQJQAN	Number of JQAs obtained
216	(D8)	SIGNED	4	GTWJQMAX	Number of JQEs defined
220	(DC)	SIGNED	4	GTWJQFRE	Number of free JQEs
------ $QGET MF=L $QGET parameter list					
224	(E0)	ADDRESS	4	GTWQGT	NODE TABLE ADDRESS
228	(E4)	ADDRESS	4		CONTROL BLOCK ADDRESS
232	(E8)	ADDRESS	4		ADDRESS OF JQE
236	(EC)	ADDRESS	1		QUEUE TYPE SPECIFIED
237	(ED)	ADDRESS	1		WORK SELECTION TYPE FLAG
238	(EE)	ADDRESS	1		RESERVED FOR FUTURE USE
238	(EE)	X'F'	0	GTWQGTL	"*-GTWQGT" Length of $QGET parm list
240	(F0)	SIGNED	4	(0)	Ensure WORD boundary
240	(F0)	CHARACTER	1	GTWCLST	Class list.
240	(F0)	X'F0'	0	GTWWSCN	"GTWCLST,8" Service class for WLM inits

Table 197. Structure GTW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
304	(130)	SIGNED	4	GTWQGTRC	$QGET return code
End of GTW					
308	(134)	X'12C'	0	GTWSIZE	"*-GTWSTART" SIZE OF $#GET TRACE RECORD
308	(134)	X'4'	0	GTWVERSN	"4" Version number
308	(134)	X'134'	0	GTWLEN	"*-GTW" LEN OF GTW WORK AREA

Table 198. Cross Reference for $GTW

Name	Offset	Hex Tag
GTW	0	
GTWBEST	1C	
GTWCALER	20	
GTWCHCNT	C4	
GTWCHSEL	C8	
GTWCLASS	D8	
GTWCLST	F0	
GTWDCT	B8	
GTWDCTN	28	
GTWFLAGP	5	
GTWFLAG1	B9	
GTWFLAG2	BA	
GTWFLAG3	BB	
GTWID	0	
GTWJBNUM	CC	
GTWJNUM	14	
GTWJOACT	18	
GTWJOES	BC	
GTWJOID1	C0	
GTWJOID2	C2	
GTWJONAM	B8	
GTWJQFRE	DC	
GTWJQMAX	D8	
GTWJQNAM	C4	
GTWJQTYP	D0	
GTWJSCR	10	
GTWLEN	134	134
GTWMASK	9F	
GTWNODE	CC	
GTWORG	B8	
GTWPITN	28	28
GTWPSTCT	D8	
GTWPSTSP	EC	
GTWPSTWR	E0	
GTWPTIME	5	80
GTWQFLG1	D0	
GTWQGT	E0	
GTWQGTL	EE	F

Table 198. Cross Reference for $GTW (continued)

Name	Offset	Hex Tag
GTWQGTRC	130	
GTWQJQAN	D4	
GTWQNUM	C0	
GTWQUEUE	D1	
GTWQ1WLM	D0	10
GTWQ1W49	D0	20
GTWQ1X14	D0	80
GTWQ1X49	D0	40
GTWRMT	CE	
GTWROUTE	CC	
GTWSIZE	134	12C
GTWSPICT	E4	
GTWSPIRT	E8	
GTWSTART	8	
GTWTFLG1	3A	
GTWTIME	8	
GTWT1GET	3A	80
GTWT1PSO	3A	10
GTWT1PST	3A	40
GTWT1QGT	3A	20
GTWUSER	D0	
GTWVERS	4	
GTWVERSN	134	4
GTWVORD	DA	
GTWWS	3B	
GTWWSCN	F0	F0
GTWWSPCT	D4	
GTWWSTAB	24	
GTWWTRCT	DC	
GTWX14RC	B8	
GTWX14TM	BC	
GTWX49SK	CC	
GTWX49TM	C4	
GTW1ALM	B9	2
GTW1CNT	B9	10
GTW1CYES	B9	8
GTW1HYES	B9	20
GTW1NET	B9	40
GTW1NSAF	B9	4
GTW1WS	B9	80
GTW2FAST	BA	80
GTW2JOEX	BA	4
GTW2JXOV	BA	2
GTW2NO	BA	20
GTW2SAFF	BA	1

Chapter 93. $HASB Information

$HASB Programming Interface Information

$HASB is a programming interface.

$HASB Heading Information

Common Name:	HASP Address Space Block
Macro ID:	$HASB
DSECT Name:	HASB
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	HASB Offset: HSBID Length: L'HSBID
Storage Attributes:	Subpool: 241 (ECSA) Key: 1 Residency: The HASB resides in ECSA. Virtual and real storage are 31-bit.
Size:	See HSBLEN
Created by:	$SSIBEGN
Pointed to by:	ASID*4 + HAVT (See below)
Serialization:	Shared by TCBs in the address space. One $HASB per address space. Local lock is required to increment use count in $HASXB. This ensures that the HASB/HASXB won't be FREEMAINed if it is considered to be temporary. After the use count has been incremented in the $HASXB control block to indicate that both the $HASB and $HASXB are in use, compare and swaps may be used to modify fields. $SSIBEGN increments the use count upon entry. The use count in the $HASXB is for both the $HASB and the $HASXB. Compare and swap is needed to update the HSBFLAG.
Function:	The HASB and HASXB are the main control blocks for an address space that invokes JES2 SSI functions. Address spaces that are started under JES2 (STCs, TSUs, batch initiators) have a "permanent" HASB and HASXB which exist for the life of the address space. Address spaces that request a job id from JES2 have a "system" HASB and HASXB which exist until the job id is returned. All other address spaces obtain a temporary HASB and HASXB which exist for the life of a SSI request.

$HASB mapping

Table 199. Structure HASB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HASB	BEGINNING OF $HASB DSECT
0	(0)	CHARACTER	4	HSBID	EYECATCHER OF $HASB
4	(4)	ADDRESS	1	HSBVRSN	VERSION NUMBER FIELD
4	(4)	X'2'	0	HSBVRNUM	"2" THE CURRENT VERSION NUMBER
5	(5)	BITSTRING	1	HSBFLAG	Flag byte, use CS to modify
		1...		HSBDJWEL	"B'10000000'" Dispose JWEL flag
		.1..		HSBSJBE	"B'01000000'" Dump for SJBFIND taken
		..1.		HSBUUSE	"B'00100000'" abend0E0 within SSI, the HXBUSECT is unreliable
6	(6)	SIGNED	2	HSBASID	ASID
8	(8)	SIGNED	4	HSBCRSYS	CROSS SYSTEM REQUEST COUNT
		This field, HSBCRSYS, must be zero for the HASB to be freed. However, it is not checked in the same way as the fields in the section below, so it is not there.			
12	(C)	ADDRESS	4	HSBHASXB	ADDR OF HASP ADDR SP EXT BLOCK
16	(10)	ADDRESS	4	HSBJESCB	Addr of PCL for NETSRV address spaces
		All fields encompassed by HSBCHECK must be zero for the $SSIEND routine to free the HASB at the end of the SSI call. (Unless it's an END-OF-MEMORY call).			
20	(14)	ADDRESS	4	HSBSJB	ADDRESS OF FIRST SJB
24	(18)	ADDRESS	4	HSBUSER1	RESERVED FOR USER
28	(1C)	ADDRESS	4	HSBINTRE	Address of 1st INTRDR element (IRE)
28	(1C)	X'14'	0	HSBCHECK	"HSBSJB,*-HSBSJB" BEFORE HASB IS FREED THIS MUST BE 0
		The following byte identifies the type of address space and the contents of HSBJESCB. HSBASNSV - PCL for NETSERV address space HSBASCI - CICB for JES2 C/I address space			
32	(20)	BITSTRING	1	HSBASTYP	JES2 address space type
32	(20)	X'1'	0	HSBASNSV	"1" NETSERV address space
32	(20)	X'2'	0	HSBASCI	"2" JES2 C/I address space
33	(21)	BITSTRING	7		Reserved
40	(28)	BITSTRING	8	HSBSTOKN	STOKEN OF ADDRESS SPACE
48	(30)	DBL WORD	8	HSBTRETM	Oldest time TRE made active
48	(30)	X'38'	0	HSBLEN	"*-HASB" LENGTH OF $HASB DSECT

Table 200. Cross Reference for $HASB

Name	Offset	Hex Tag
HASB	0	
HSBASCI	20	2
HSBASID	6	
HSBASNSV	20	1
HSBASTYP	20	
HSBCHECK	1C	14

Table 200. Cross Reference for $HASB (continued)

Name	Offset	Hex Tag
HSBCRSYS	8	
HSBDJWEL	5	80
HSBFLAG	5	
HSBHASXB	C	
HSBID	0	C8C1E2C2
HSBINTRE	1C	
HSBJESCB	10	
HSBLEN	30	38
HSBSJB	14	
HSBSJBE	5	40
HSBSTOKN	28	
HSBTRETM	30	
HSBUSER1	18	
HSBUUSE	5	20
HSBVRNUM	4	2
HSBVRSN	4	

Chapter 94. $HASPEQU Information

$HASPEQU Programming Interface Information

$HASPEQU is a programming interface.

$HASPEQU Heading Information

Common Name: Equates for JES2
Macro ID: $HASPEQU
DSECT Name: None
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: None
Storage Attributes:
```
Subpool:    N/A
Key:        N/A
Residency:  N/A
```

Size: N/A
Created by: N/A
Pointed to by: N/A
Serialization: N/A
Function:
```
The $HASPEQU macro is used to generate the register
and other equates required by JES2.  It also contains
some executable macro in-line parameter list equates.
```

$HASPEQU mapping

Table 201. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		

Table 202. Structure $HASPEQU

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	$HASPEQU	, HASP equates DSECT
Absolute register definitions					
0	(0)	X'0'	0	R0	"0"
0	(0)	X'1'	0	R1	"1"
0	(0)	X'2'	0	R2	"2"
0	(0)	X'3'	0	R3	"3"
0	(0)	X'4'	0	R4	"4"
0	(0)	X'5'	0	R5	"5"
0	(0)	X'6'	0	R6	"6"
0	(0)	X'7'	0	R7	"7"
0	(0)	X'8'	0	R8	"8"
0	(0)	X'9'	0	R9	"9"
0	(0)	X'A'	0	R10	"10"
0	(0)	X'B'	0	R11	"11"

Table 202. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'C'	0	R12	"12"
0	(0)	X'D'	0	R13	"13"
0	(0)	X'E'	0	R14	"14"
0	(0)	X'F'	0	R15	"15"
		Access register definitions			
0	(0)	X'0'	0	AR0	"0"
0	(0)	X'1'	0	AR1	"1"
0	(0)	X'2'	0	AR2	"2"
0	(0)	X'3'	0	AR3	"3"
0	(0)	X'4'	0	AR4	"4"
0	(0)	X'5'	0	AR5	"5"
0	(0)	X'6'	0	AR6	"6"
0	(0)	X'7'	0	AR7	"7"
0	(0)	X'8'	0	AR8	"8"
0	(0)	X'9'	0	AR9	"9"
0	(0)	X'A'	0	AR10	"10"
0	(0)	X'B'	0	AR11	"11"
0	(0)	X'C'	0	AR12	"12"
0	(0)	X'D'	0	AR13	"13"
0	(0)	X'E'	0	AR14	"14"
0	(0)	X'F'	0	AR15	"15"
		Floating point registers			
0	(0)	X'0'	0	FP0	"0"
0	(0)	X'2'	0	FP2	"2"
0	(0)	X'4'	0	FP4	"4"
0	(0)	X'6'	0	FP6	"6"
		Values fixed by the hardware			
0	(0)	X'1000'	0	$PGESIZE	"4096" PROCESSOR PAGE SIZE -- 4K
		Miscellaneous definitions			
0	(0)	X'0'	0	NONE	"0" NO BITS ON, NEVER BRANCH
0	(0)	X'FF'	0	FF	"255" ALL BITS ON, ALWAYS BRANCH
0	(0)	BITSTRING	0	FFFF	"X'FFFF'" All bits on for half word
0	(0)	BITSTRING	0	$MAXFSGN	"X'7FFFFFFF'" Max signed value
		Event control field flag definitions defining JES2 dispatcher events for $WAIT,INHIBIT=YES and $POSTS of specific PCEs for events			
		1...		$EWFPOST	"X'80'" INHIBIT SPECIFIC PCE $POST
		.1..		$EWFOPER	"X'40'" PROCESSOR DEACTIVATED
		..1.		$EWFIO	"X'20'" WAITING FOR I/O
		...1		$EWFWORK	"X'10'" WAITING FOR WORK
		.... 1...		$EWFHOLD	"X'08'" WAITING FOR $S COMMAND
		Dispatcher resource definitions JES2 values start at 0 and increase while user values start at 63 and decrease - See documentation in the $WAIT and $POST macros			

Table 202. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'0'	0	$DRMLLM	"0" 'Line manager resource $POSTS'
0	(0)	X'1'	0	$DRABIT	"1" 'Wait for one dispatcher cycle'
0	(0)	X'2'	0	$DRALOC	"2" 'HOSALLOC subtask serialization'
0	(0)	X'3'	0	$DRIMAGE	"3" 'Requested/executed image load'
0	(0)	X'4'	0	$DRBUF	"4" 'Need/freed JES2 buffer'
0	(0)	X'5'	0	$DRJOT	"5" 'Need/added selectable JOEs'
0	(0)	X'6'	0	$DRJOE	"6" 'Need/freed unused JOE'
0	(0)	X'7'	0	$DRTRACK	"7" 'Need/freed spool track group'
0	(0)	X'8'	0	$DRJOB	"8" 'Need job/changed a job's status'
0	(0)	X'9'	0	$DRUNIT	"9" 'Need/set device (DCT) undrained'
0	(0)	X'A'	0	$DRCKPT	"10" 'Need/--- CKPT WRITE cycle'
0	(0)	X'B'	0	$DRCKPTP	"11" '---/completed CKPT WRITE cycle'
0	(0)	X'C'	0	$DRCKPTL	"12" 'Lurking for CKPT READ'
0	(0)	X'D'	0	$DRCKPTW	"13" 'Need/completed CKPT WRITE cycle'
0	(0)	X'E'	0	$DRCMB	"14" 'Need/freed unused CMB'
0	(0)	X'F'	0	$DRSMF	"15" 'Need/freed unused SMF buffer'
0	(0)	X'10'	0	$DRLOCK	"16" 'Need/freed a job lock'
0	(0)	X'11'	0	$DRMAIN	"17" 'Need/freed main storage'
0	(0)	X'12'	0	$DRFSS	"18" 'FSS ORDER serialization'
0	(0)	X'13'	0	$DRPSO	"19" 'Want/added elements to PSO queue'
0	(0)	X'14'	0	$DRPURGE	"20" 'Want/added JQEs to PURGE queue'
0	(0)	X'15'	0	$DRTIPS	"21" 'PCE - update JOE BERT transaction information'
0	(0)	X'16'	0	$DRCNVT	"22" 'Want/added JQEs to CNVT queue'
0	(0)	X'17'	0	$DRHOPE	"23" 'Want/added JQEs to OUTPUT queue'
0	(0)	X'18'	0	$DRPCETM	"24" 'PCE waiting to be detached by resource manager'
0	(0)	X'19'	0	$DRRMWT	"25" 'PCE waiting to be $POSTed by resource manager'
0	(0)	X'1A'	0	$DRSTAC	"26" 'STATUS/CANCEL resource type'
0	(0)	X'1B'	0	$DRNEWS	"27" 'PCE waiting for a JNEW update (part of JESNEWS process)'
0	(0)	X'1C'	0	$DRGENL	"28" 'General resource - used by COMM/RDR for S INIT'
0	(0)	X'1D'	0	$DRSPIN	"29" 'Want/added: spin IOT on CCT or JQE on spin queue'
0	(0)	X'1E'	0	$DRJCMD	"30" 'PCE waiting for a JQE to restart or cancel'

Table 202. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'1F'	0	$DRWARM	"31" 'PCE waiting for a member to warm start'
0	(0)	X'20'	0	$DRARMS	"32" 'ARM support processor'
0	(0)	X'21'	0	$DRHOMOG	"33" 'PCEs waiting for JESplex version change'
0	(0)	X'22'	0	$DRPROCLIB	"34" 'PCEs waiting PROCLIB allocate/unallocate'
0	(0)	X'23'	0	$DRMFMT	"35" 'PCEs waiting for SPOOL mini-format completion'
0	(0)	X'24'	0	$DRCCAN	"36" 'Cancel JOB/TSU/STC in conversion'
0	(0)	X'25'	0	$DRSPI	"37" 'PCEs waiting for Sysout API requests'
0	(0)	X'26'	0	$DRBERTW	"38" 'Waiting for a free BERT'
0	(0)	X'27'	0	$DRBERTL	"39" 'Waiting for a BERT lock to free'
0	(0)	X'28'	0	$DRBREG	"40" 'PCES waiting for WLM registration requests'
0	(0)	X'29'	0	$DRDILBERT	"41" 'PCES waiting for $DILBERT requests'
0	(0)	X'2A'	0	$DRXMITJOB	"42" 'Waiting for NJE JOB activity'
0	(0)	X'2B'	0	$DRALICE	"43" 'PCEs waiting for incomplete warmstart'
0	(0)	X'2C'	0	$DREOM	"44" 'PCES waiting for an EOM to occur'
0	(0)	X'2D'	0	$DRIRCLEAN	"45" 'Internal Reader Cleanup needed'
0	(0)	X'2E'	0	$DRDAWN	"46" 'PCEs waiting for work notifications'
0	(0)	X'2F'	0	$DRJOEI	"47" 'PCEs waiting for JOEINDEX requests'
0	(0)	X'40'	0	$DRTOTAL	"64" TOTAL NUMBER OF RESOURCES
0	(0)	X'8'	0	$DRQUEL	"8" LENGTH OF A RESOURCE QUEUE ELMT CIRCULAR FORWARD/BACKWARD PTRS, PCEPCEA/PCEPCEB ARE CHAIN FLDS
$MSG prefix length EQU					
0	(0)	X'2'	0	$MSGPFXL	"2" TWO BYTE PACKED DEC. MSG NO.
DISPER= equates for messages in HASPMSG					
	1...			$M064IBE	"B'10000000'" IOBE is present
	.1..			$M064NIB	"B'01000000'" No IOBE is available
	..1.			$M064SNS	"B'00100000'" Sense data is available
	...1			$M064DAD	"B'00010000'" DASD I/O was issued
	.... 1...			$M064MIG	"B'00001000'" SPOOL Migration
	.... .1..			$M064RD	"B'00000100'" Read was being requested
	.... ..1.			$M064WRT	"B'00000010'" Write was being requested

Table 202. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		$M068DEV	"B'10000000'" PCE is a device
		.1..		$M068NDV	"B'01000000'" PCE is not a device
		..1.		$M068LDV	"B'00100000'" PCE is a sub-device
		1...		$M120OTH	"B'10000000'" Device is some other type
		.1..		$M120INR	"B'01000000'" Devide is an INTRDR
		1...		$M260CLD	"B'10000000'" Update COLD_START_MODE
		.1..		$M260NCL	"B'01000000'" COLD_START_MODE is OK
		1...		$M281ALL	"B'10000000'" ALL members have I/O errors
		.1..		$M281SOM	"B'01000000'" Some memb have no I/O error
		1...		$M416LNG	"B'10000000'" LONG FORM OF MESSAGE
		.1..		$M416SHR	"B'01000000'" SHORT FORM OF MESSAGE
		1...		$M443ATT	"B'10000000'" ATTACH failure form
		.1..		$M443NUM	"B'01000000'" SPOOLNUM exceeded form
		..1.		$M443LEV	"B'00100000'" DSN not supported at level
		1...		$M458CK1	"B'10000000'" CKPT1 FORM OF MESSAGE
		.1..		$M458CK2	"B'01000000'" CKPT2 FORM OF MESSAGE
		1...		$M478CK1	"B'10000000'" One data set in use
		.1..		$M478CK2	"B'01000000'" Two data sets in use
		1...		$M479IO	"B'10000000'" I/O ERROR
		.1..		$M479SID	"B'01000000'" SID=SYSID
		..1.		$M479INT	"B'00100000'" SID=INITIALIZATION
		...1		$M479VAL	"B'00010000'" Validation error
		1...		$M291CC1	"B'10000000'" CCW 1 address filled in
		.1..		$M291CC2	"B'01000000'" CCW 2 address filled in
		..1.		$M291NCW	"B'00100000'" No CCWs addresses available
		...1		$M291SNS	"B'00010000'" Sense data is available
		1...		$M530NOR	"B'10000000'" Non-transactional JOE
		.1..		$M530TRN	"B'01000000'" Display transaction name
		1...		$M539GRP	"B'10000000'" Not valid CLASS or GROUP
		.1..		$M539CLS	"B'01000000'" Not valid CLASS

Table 202. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		$M565LNE	"B'10000000'" Line request
		.1..		$M565CON	"B'01000000'" Connect request
		1...		$M568NIT	"B'10000000'" CBADDR is NIT
		.1..		$M568APT	"B'01000000'" CBADDR is APT
		..1.		$M568SCK	"B'00100000'" CBADDR ia SCK
		...1		$M568NSV	"B'00010000'" CBADDR is NETSRV DCT
		.... 1...		$M568LGN	"B'00001000'" CBADDR is LOGON DCT
		.... .1..		$M568LIN	"B'00000100'" CBADDR is Line DCT
		1...		$M745INT	"B'10000000'" Internal extend error
		.1..		$M745STD	"B'01000000'" Standard extend error
		1...		$M867NOR	"B'10000000'" Normal volume
		.1..		$M867GOO	"B'01000000'" Go is a valid option
		..1.		$M867MON	"B'00100000'" Mapped on volume
		...1		$M867MTR	"B'00010000'" Active migration target
		.... 1...		$M867MSR	"B'00001000'" Active migration source
		Other equates for messages in HASPMSG			
		M445DON EQU 4 Already unactivated (obs)			
0	(0) X'8'		0	$M445OTH	"8" Other MAS members active
0	(0) X'C'		0	$M445CKP	"12" All CKPTs not allocated
0	(0) X'10'		0	$M445ZOD	"16" Dep Netowrks (ZODs) exist
		HASP status bit definitions			
		1...		$QSONDA	"X'80'" SHARED QUEUES ARE ON DA
		.1..		$ALMSGSW	"X'40'" ALL AVAILABLE FUNCTIONS MSG ISSUED
		..1.		$DRAINED	"X'20'" THIS SYSTEM IS DRAINED, FLAG IS ON INITIALIALLY, OFF AFTER 'NOREQ' WARM START, SET BY $S/$P
		...1		$CKPTIOA	"X'10'" CKPT I/O is active
		.... 1...		$INDMODE	"X'08'" SYSTEM IS IN INDEPENDENT MODE
		.... .1..		$SYSEXIT	"X'04'" HASP SYSTEM IN TERMINATION PROCESS
		.... ..1.		$NPMDOWN	"X'02'" Network path manager has been disabled due to error
		1		$CKPTRSV	"X'01'" CHECKPOINT IS RESERVED
		$TKNLEN and $TKNVERN are the length and version of the security token that is defined for RACROUTE calls with RELEASE=1.9.			
0	(0) X'50'		0	$TKNLEN	"80" SAF SECURITY TOKEN LENGTH
		1		$TKNVERN	"X'01'" SAF SECURITY TOKEN VERSION
0	(0) X'27'		0	$ENTYLEN	"39" LENGTH OF SECURITY ENTITY STRING

Table 202. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Equates for the type of JES2 start, used in the $WARMTYP and X024COND flag bytes.			
		1...		$WARM	"X'80'" SINGLE-SYSTEM WARMSTART
		.1..		$HOT	"X'40'" HOT START INDICATOR
		..1.		$QUICK	"X'20'" QUICK START INDICATOR
		...1		$CONFIG	"X'10'" CONFIGURATION-WIDE WARMSTART
		.... 1...		$ESYS	"X'08'" '$E SYS' RESTART
		.... .1..		$COLD	"X'04'" COLD START
		.... ..1.		$MVSIPL	"X'02'" MVS WAS IPL'D
		1		$COLDFMT	"X'01'" COLD START WITH FORMAT
0	(0) X'1F4'		0	$WARMHD	"500" Minimum number of hundreths of seconds for minhold during warmstart
		HASP Subtask System Status Flag			
		1...		$SUBERR	"B'10000000'" UNRECOVERABLE SUBTASK ERROR
		.1..		$SUBMULT	"B'01000000'" MULTIPLE SUBTASK FAILURES
0	(0) X'8000'		0	$LRGSMFB	"32*1024" SIZE OF LARGE SMF BUFFER D/T4245/4248 SETPRT OPTION * BIT DEFINITION *
		...1		$PPVERIU	"X'10'" UCS VERIFY BIT SPPVERIU
		$RRTWA bit definitions			
		1...		$RRTJOB	"B'10000000'" JOB-LEVEL CHECKING REQ'D
		..1.		$RRTSQD	"B'00100000'" SQD passed for SUBIT call
		HASPRTAM definitions			
0	(0) X'120'		0	$MWORKSZ	"288" SIZE OF RTAM WORK AREA ADDRESSED VIA $MWORK -- MUST BE MULTIPLE OF 8 BYTES
		$EXTP option and parameter list definitions			
0	(0) X'0'		0	EXTPLCMD	"0,1" (CCW) COMMAND TO BE PERFORMED
0	(0) X'1'		0	EXTPLLEN	"1,3" LENGTH OF DATA (IF ANY) PASSED
0	(0) X'4'		0	EXTPLDAT	"4,4" STARTING ADDRESS OF DATA
0	(0) X'8'		0	EXTPLSIZ	"8" SIZE OF PARAMETER LIST
0	(0) X'0'		0	$EXTPOPE	"0" ENTRY LIST INDEX FOR OPEN
0	(0) X'1'		0	$EXTPGET	"1" ENTRY LIST INDEX FOR GET
0	(0) X'2'		0	$EXTPPUT	"2" ENTRY LIST INDEX FOR PUT
0	(0) X'3'		0	$EXTPCLO	"3" ENTRY LIST INDEX FOR CLOSE
0	(0) X'4'		0	$EXTPNCL	"4" ENTRY LIST INDEX FOR NCLOSE
0	(0) X'5'		0	$EXTPREA	"5" ENTRY LIST INDEX FOR READ
0	(0) X'6'		0	$EXTPWRI	"6" ENTRY LIST INDEX FOR WRITE
		CSA storage block prefix equates			
0	(0) X'0'		0	$CSBID	"0,4" CSA STOR BLK EYE CATCHER OFFSET

Table 202. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'4'	0	$CSBSPLN	"4,4" CSA STG BLK SUBP/LNG OFFSET
0	(0)	X'8'	0	$CSBPRFX	"8" CSA STOR BLOCK PREFIX LENGTH
CSA storage block prefix length for quad word alignment					
0	(0)	X'10'	0	$CS2PRFX	"16" CSA STOR BLOCK PREFIX LEN
HASP initialization limits					
0	(0)	X'A'	0	$MINBUF	"10" Minimum # of HASP buffers
0	(0)	X'7'	0	$MAXNJEQ	"7" Maximum member number for NJE tests
0	(0)	X'7D0'	0	$MAXBUF	"2000" MAXIMUM NUMBER OF HASP BUFFERS
0	(0)	X'4'	0	$MINCMB	"4" Minimum # of CMBs
0	(0)	X'270F'	0	$MAXCMB	"9999" Maximum number of CMBs
0	(0)	X'4'	0	$MINCMDB	"4" Minimum # of command CMBs
0	(0)	X'270F'	0	$MAXCMDB	"9999" Maximum # of command CMBs
0	(0)	X'A'	0	$MINBUFX	"10" Minimum # of CB buffers
0	(0)	X'270F'	0	$MAXBUFX	"9999" Maximum # of CB buffers
0	(0)	X'A'	0	$MINBSC	"10" Minimum # of BSC Buffers
0	(0)	X'270F'	0	$MAXBSC	"9999" Maximum # of BSC buffers
0	(0)	X'A'	0	$MINVTAM	"10" Minimum # of VTAM buffers
0	(0)	X'270F'	0	$MAXVTAM	"9999" Maximum # of VTAM buffers
0	(0)	X'A'	0	$MINNHB	"10" Minimum # of NHB buffers
0	(0)	X'270F'	0	$MAXNHB	"9999" Maximum # of NHB buffers
0	(0)	X'1F4'	0	$MAXPPBF	"500" Max # of PP cell in the $CPOOL primary extent
0	(0)	X'7FFF'	0	$MAXICES	"32767" Max number of sessions
0	(0)	X'C8'	0	$CPRIMXT	"200" NUMBER OF BUFFERS IN THE $CPOOL PRIMARY EXTENT
0	(0)	X'190'	0	$CPNHBMX	"400" Max number of NHB cells in the $CPOOL primary extent
0	(0)	X'FD'	0	$MAXDA	"253" MAXIMUM NUMBER OF SPOOL VOLUMES (($MAXDA+31)/32*4) IS USED TO DE- FINE THE NUMBER OF BYTES NEEDED IN DECLARES FOR SPOOL MASKS. EACH 32 VOLS NEEDS ONE WORD, TIMES 4, TO GET THE LENGTH IN BYTES
0	(0)	X'FF'	0	$MAXTGBE_Z11	"255" Z11 mode entries in BLOB
0	(0)	X'400'	0	$MAXTGBE	"1024" Number of entries in BLOB
0	(0)	X'1F4'	0	$MAXTINT	"500" MAX TIME (IN 100THS OF A SECOND) TO WAIT TO START A CKPT WRITE
0	(0)	X'F'	0	$MINTINT	"15" Min time (in 100th seconds) below which we will not do an intermediate write
0	(0)	X'20000'	0	$MAXTGV	"(X'0FFFFF'+7)/8" No. of bytes to represent MAXIMUM NO. OF TRK GROUPS per volume (1,048,575)

Table 202. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	BITSTRING	0	$MAXLTRV	"X'0FFFFF'" This represents the maximum number of tracks allowed for a spool volume with large data set support enabled - 1,048,575.
0	(0)	X'11111'	0	$MAXLCYL	"($MAXLTRV)/15" Given $MAXLTRV above - this number represents the maximun number of cylinders - this assumes 15 tracks per cylinder.
0	(0)	X'FFFF'	0	$MAXTRV	"65535" This represents the maximum number of tracks allowed for a spool volume with large data set support not enabled. 65,535.
0	(0)	X'1111'	0	$MAXCYL	"($MAXTRV)/15" Given $MAXTRV above - this number represents the maximun number of cylinders - this assumes 15 tracks per cylinder.
0	(0)	X'32'	0	$JMPREDO	"50" Rebuild JIX map after every 50 freed job numbers
0	(0)	X'61A80'	0	$MAXNJQE_Z11	"400000" Maximum number of JQEs for Z11 mode. Also MAX JQXs.
0	(0)	X'F4240'	0	$MAXNJQE	"1000000" Maximum number of JQEs for Z22 mode. Also MAX JQXs.
0	(0)	X'F423F'	0	$MAXJNUM	"999999" Maximum number of job nums
0	(0)	X'64'	0	$MINBERT	"100" Minimum number of BERTs
0	(0)	X'2625A0'	0	$MAXBERT	"$MAXNJQE*5/2" Maximum number of BERTs for Z22 mode. 1,250,000
0	(0)	X'F4240'	0	$MAXBERT_Z11	"$MAXNJQE_Z11*5/2" Maximum number of BERTs for Z11 mode. 1,000,000
0	(0)	X'7A120'	0	$MAXNZJC	"500000" Maximum number of Zone Job Container (ZJC) objects in the ZJC CTENT.
0	(0)	X'3E8'	0	$DEFNZJC	"1000" Default number of Zone Job Container (ZJC) objects in the ZJC CTENT.
0	(0)	BITSTRING	0	$MAXDSKY	"X'FFFFFFFF'" Max DS key in a job
0	(0)	X'4E20'	0	$MAXESIZ	"20000" Maximum JQE extensions
0	(0)	X'F5E0FF'	0	$MAXJOID	"99999999" MAXIMUM JOE ID NUMBER IN JQE
0	(0)	X'FFFF'	0	$MAXLNES	"65535" MAXIMUM NUMBER OF TP LINES
0	(0)	X'3E7'	0	$MAXLOGS	"999" MAXIMUM VTAM INTERFACES INTERFACES
0	(0)	X'3E7'	0	$MAXSRVS	"999" MAXIMUM NJE SERVERS
0	(0)	X'7FFF'	0	$MAXNODE	"32767" MAXIMUM NUMBER OF NJE NODES
0	(0)	X'8'	0	$MAXPATH	"8" Max nr of paths per node
0	(0)	X'7D0'	0	$MAXRST	"2000" MAXIMUM SPECIFIABLE RESISTANCE

Table 202. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'63'	0	$MAXCMPT	"99" MAXIMUM NUMBER OF CMPCTION TBLS
0	(0)	X'8'	0	$MAXOFFS	"8" MAXIMUM NUMBER OF OFFLOAD DEV
0	(0)	X'7FFF'	0	$MAXPRTS	"32767" MAX NUMBER OF LOCAL PRTs
0	(0)	X'63'	0	$MAXPUNS	"99" MAXIMUM NUMBER OF LOCAL PUNCHES
0	(0)	X'63'	0	$MAXRDRS	"99" MAXIMUM NUMBER OF LOCAL READERS
0	(0)	X'7FFF'	0	$MAXRJE	"32767" MAX NUMBER OF REMOTES
0	(0)	X'7FFF'	0	$MAXROUT	"32767" MAX ROUTE CODE
0	(0)	X'C8'	0	$MAXNMSG	"200" MAX NUMBER NOTIFY MSG BUFFS
0	(0)	X'1F4'	0	$MAXSJFR	"500" MAX NUM SJF SERVICE REQSTS
0	(0)	X'12'	0	$MAXRCLN	"18" Max symbolic routecde len
0	(0)	X'7F'	0	$MAXIPLN	"127" Max IP-format dest length
0	(0)	X'7FFF'	0	$MAXCPPG	"32767" MAXIMUM VALUE FOR CKPTPAGE
0	(0)	X'7FFF'	0	$MAXCPLN	"32767" MAXIMUM VALUE FOR CKPTLINE
0	(0)	X'7FFF'	0	$MAXCPTM	"32767" MAXIMUM VALUE FOR CKPTSEC
0	(0)	X'E10'	0	$MAXNPRO	"3600" MAXIMUM TIME BEFORE PRT NPRO
0	(0)	X'270F'	0	$MAXINIT	"9999" Maximum number, initiators
0	(0)	X'8'	0	$MAXWCLS	"8" Maximum number of class values for work selection
0	(0)	X'8'	0	$MAXFORM	"8" MAXIMUM NUMBER OF PRINTER FORMS FOR WORK SELECTION
0	(0)	X'FF'	0	$MAXPRMD	"255" MAXIMUM NUMBER OF PRMODES DEFINED FOR THIS SYSTEM
0	(0)	X'8'	0	$MAXPRDV	"8" DEFAULT NUMBER OF PROCESS MODES PER DEVICE
0	(0)	X'20'	0	$MAXSYSN	"32" Maximum number of members
0	(0)	X'20'	0	$MAXSYS	"(($MAXSYSN+7)/8)*8" Maximum # of members forced to multiple of 8
0	(0)	X'4'	0	$MXSYSBY	"($MAXSYS)/8" Number of bytes to hold affinity mask
0	(0)	X'4'	0	$MAXSNML	"4" MAX SYSTEM AFFINITY NAME LENGTH
0	(0)	X'80'	0	$MAXSAFL	"$MAXSYS*$MAXSNML" Max affinity list length
0	(0)	X'8'	0	$MAXLCK	"8" NUMBER OF LCK CKPT ELEMENTS
0	(0)	X'32'	0	$MAXVRSN	"50" MAX VERSIONS IN DATA SPACE
0	(0)	X'BB8'	0	$MAXTRC	"3000" Max trace table pages
0	(0)	BITSTRING	0	$MAXTLOG	"X'7FFFFFFF'" MAX TRACE LOG DATASET SIZE
0	(0)	X'1E'	0	$MAXSSZZ	"30" Max rest time for SJFR PCE
0	(0)	X'63'	0	$MXCKPCT	"99" Max allowable warning threshold %age for checkpointed resources

Table 202. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'98967F'	0	$MAXDISP	"9999999" Max allowable lines in command response
0	(0)	X'14'	0	$MAXJOEP	"20" Max number to JOEs to purge before processing a JQE
0	(0)	X'8'	0	$MAXCLSZ	"8" Maximum number of chars in a job class
0	(0)	X'200'	0	$MAXJCLS	"512" Maximum job classes
	Maximum counts for processes				
0	(0)	X'19'	0	$MAXCNVT	"25" Maximum CNVT PCEs
0	(0)	X'19'	0	$MAXPURG	"25" Maximum PURGE PCEs
0	(0)	X'A'	0	$MAXPSO	"10" Maximum PSO PCEs
0	(0)	X'19'	0	$MAXOUT	"25" Maximum OUTPUT PCEs
0	(0)	X'A'	0	$MAXSTAC	"10" Maximum STATUS/CANCEL PCEs
0	(0)	X'A'	0	$MAXSPIN	"10" Maximum SPIN PCEs
0	(0)	X'C8'	0	$MAXCONJ	"200" Maximum number of jobs that can be defined as running concurrent in a JOBGROUP in a single set
0	(0)	X'7D0'	0	$MAXJGJB	"2000" Maximum number of jobs that can be defined to a JOBGROUP
	SRVSETUP routine equates				
0	(0)	X'4'	0	$VOLMAX	"4" MAXIMUM NUMBER OF VOLUMES
0	(0)	X'6'	0	$VOLLEN	"6" LENGTH OF VOLUME NAME
0	(0)	X'18'	0	$VOLFLDL	"$VOLMAX*$VOLLEN" VOLUME FIELD LENGTH
0	(0)	X'20'	0	$VOLMSKL	"(($MAXDA+31)/32*4)" VOLUME MASK SIZE
	KCPYMSTR "Direction" Equates				
0	(0)	X'0'	0	$KCPMI2M	"0" Copy $MASTERI to $MASTER
0	(0)	X'1'	0	$KCPM2MI	"1" Copy $MASTER to $MASTERI
	HASP initialization defaults				
0	(0)	X'3E8'	0	$JQEDEF	"1000" DEFAULT NUMBER OF JQE'S
0	(0)	X'64'	0	$CMBDEF	"100" DEFAULT NUMBER OF CMB'S
0	(0)	X'270F'	0	$MAXJDEF	"9999" DEFAULT VALUE FOR MAX JOB#
0	(0)	X'1'	0	$MINJDEF	"1" DEFAULT VALUE FOR MIN JOB#
0	(0)	X'5'	0	$SMFDEF	"5" DEFAULT NUMBER OF SMF BUFFERS
0	(0)	X'12C'	0	$NPRODEF	"300" DEFAULT NPRO TIME
0	(0)	X'64'	0	$CKPGDEF	"100" DEFAULT CKPTPAGE VALUE
0	(0)	X'1'	0	$SSIRCVR	"1" NUMBER OF RECOVERABLE $ERRORS ALLOWED IN AN SSI FUNCTION
0	(0)	X'3E8'	0	$IOTRBGN	"1000" SPIN IOTS CREATED BEFORE REUSE
0	(0)	X'5'	0	$IOTRLMT	"5" MAX ATTEMPTS AT REUSE/ALLOC
0	(0)	X'3E8'	0	$PBUFLIM	"1000" MAX ADDITIONAL PBUFS/ASID
0	(0)	X'64'	0	$SEGLMDF	"100" DEFAULT SEGMENT LIMIT
0	(0)	X'100'	0	$QINDXL	"256" Length of QINDEX table

Table 202. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'100'	0	$SQINDXL	"63+C'A'" LENGTH OF $#INDEX TABLE
		HASP track group map rounding and max size values: $TGDEF=((4096-HDPLNGTH)/2) 8 $MAXTGS=(10000000/$TGDEF) $TGDEF Be sure to update the routines JCMDHIST and JCMDTAIL and the message structures for HASP9104 and HASP9131, all defined in HASJCMDS, if the number of digits in $MAXTGS increases.			
0	(0)	X'3FA0'	0	$TGDEF	"16288" DEFAULT NUMBER OF TRACK GROUPS AND RESULTS IN 2 TRACK GROUP MAPS IN PAGE OF CKPT STORAGE
0	(0)	X'E81200'	0	$MAXTGS	"132649472" Max number of track groups
		$CTENT version number values			
0	(0)	X'1'	0	TGMVRSN	"1" TGM CKPT VERSION NUMBER
0	(0)	X'1'	0	SCQVRSN	"1" SCQ CKPT version number
0	(0)	X'2'	0	JIXVRSN	"2" JIX CKPT version number
0	(0)	X'2'	0	PSTVRSN	"2" PST CKPT VERSION NUMBER
0	(0)	X'1'	0	RSOVRSN	"1" RSO CKPT VERSION NUMBER
		Establish MVS EQUs and globals			
		...1 1...		IECITMOD	"X'18'" HASP ATTENTION INDEX
		$MAXACCT represents the maximum number of characters allowed on an MVS JOB statement accounting string. In internal format, $MAXACCT+2 bytes are required to hold the string (a one byte counter of the number of subfields, and the one byte length of the first subfield. the length fields for the second and subsequent subfields do not require an extra byte as there was previously a one byte comma separating the subfields).			
0	(0)	X'8F'	0	$MAXACCT	"143" Max number of characters allowed for accounting on an MVS JOB statement
		$TRACE record formatting keys			
0	(0)	X'0'	0	$TRK000D	"0" UNLABELED DUMP FORMAT
		Checkpoint disposition			
		1...		$CKPAMWS	"X'80'" All member warm start in progress
		.1..		$CKPSPVL	"X'40'" Track group map rebuild in progress
		..1.		$CKPLOKB	"X'20'" OPERATOR BYPASSED LOCK
		EQU X'10' RESERVED FOR FUTURE USE			
		.... 1...		$CKPDAMG	"X'08'" CHECKPOINT READ WAS DAMAGED
		$CKPERRQ X'04' This bit used in 5.1 (cannot use in 5.2)			
		.... ..1.		$CKPBLDQ	"X'02'" JOB QUEUE REBUILT

Table 202. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
$CKPERRJ X'01' This bit used in 5.1 (cannot use in 5.2) Checkpoint recovery dialog flags					
	1...			$CKRTOP	"B'10000000'" THIS SYSTEM HAS HIGHEST CKP
	.1..			$CKRNTOP	"B'01000000'" THIS SYSTEM DOES NOT HAVE HIGHEST CHECKPOINT
	..1.			$CKRCKP1	"B'00100000'" CKPT1 FILE IS ACTIVE
	...1			$CKRNKP1	"B'00010000'" CKPT1 FILE IS NOT ACTIVE
	.... 1...			$CKRCKP2	"B'00001000'" CKPT2 FILE IS ACTIVE
	.... .1..			$CKRNKP2	"B'00000100'" CKPT2 FILE IS NOT ACTIVE
	.... ..1.			$CKRIOE	"B'00000010'" PROCESSING I/O ERROR
	1			$CKRNIOE	"B'00000001'" NOT PROCESSING I/O ERROR
THESE NEXT TWO BIT DEFINITIONS MUST NOT BE THE SAME AS $CKRIOE OR $CKRNIOE. (MAPPED OVER $CKRTOP AND $CKRNTOP FOR THE HASP273 MESSAGE)					
	1...			$CKRSTRT	"B'10000000'" CHECKPOINT FILE BEING PLACED BACK INTO SERVICE (OPTION 7 OR 8) RESPONSE TO HASP271/272
	.1..			$CKRNSTR	"B'01000000'" CHECKPOINT FILE BEING ASSIGNED TO NEWCKPTN
THESE NEXT TWO BIT DEFINITIONS MUST BE MAPPED OVER $CKRTOP AND $CKRNTOP FOR THE HASP282 AND HASP278 MESSAGES					
	1...			$CKRDEL	"B'10000000'" DELETE OPTION VALID
	.1..			$CKRNDEL	"B'01000000'" DELETE OPTION IS NOT VALID
Extension area mapping					
0	(0) X'0'		0	$JEXTTGN	"0,2,C'H'" TRACK GROUP NUMBER, MUST BE 1ST
0	(0) X'2'		0	$JEXTLEN	"L'$JEXTTGN" LENGTH OF EXTENSION AREA
	1...			$JEXTFRE	"X'80'" Extension area is free if high order bit is on
0	(0) BITSTRING		0	$JEXTMAX	"X'7FFF'" Maximum TG count in JQT or in JQETGNUM
Equates used to mark the extra control bytes to reflect how the page was last updated. Algorithms in JES2 depend on the first four equates residing in the low nibble of the control byte					
	1			CKPCLCKP	"B'00000001'" $CKPT ROUTINE MARKED PAGE
	.... ..1.			CKPCLRDC	"B'00000010'" IN KAFTRD2, CHLOG ON OTHER

Table 202. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		CKPCLRDP	"B'00000100'" IN KAFTRD2, 4K PG ON OTHER
		.... 1...		CKPCLBCL	"B'00001000'" IN KBLDCHLG, IN OUR CHLOG
		 1111		CKPCLMRK	"B'00001111'" MARKED BY HASPCKAP SUBTASK (ALSO USED TO TEST LOW NIBBLE)
		1...		CKPCLCRW	"B'10000000'" PAGE UPDATED FOR CURRENT I/O
		.1..		CKPCLCMW	"B'01000000'" PAGE UPDATED SINCE LAST PRIMARY WRITE IN THIS CYCLE
		Requests types for the CKPT DASD/CF subtask (Must be the same as those in $HASPEQP)			
0	(0)	X'1'	0	CKREQ_T1IO	"1" ID for track 1 I/O
0	(0)	X'2'	0	CKREQ_READ2	"2" ID for READ2 request
0	(0)	X'3'	0	CKREQ_WRITE	"3" ID for WRITE request
0	(0)	X'4'	0	CKREQ_LOCK	"4" ID for lock/RESERVE req
0	(0)	X'5'	0	CKREQ_UNLCK	"5" ID for unlock/RELEASE req
0	(0)	X'6'	0	CKREQ_FMT	"6" ID for FORMAT request
0	(0)	X'7'	0	CKREQ_EXTND	"7" ID for extend request (DASD CKPT only)
		JES processing subpools			
0	(0)	X'0'	0	$SP0	"0" General purpose subpool
0	(0)	X'4'	0	CKPTPOOL	"4" Subpool for CKC/CKB
0	(0)	X'5'	0	BATPOOL	"5" Subpool for BAT
0	(0)	X'6'	0	BSCPOOL	"6" Subpool for BSC
0	(0)	X'7'	0	CBPOOL	"7" Subpool for Control Blocks
0	(0)	X'8'	0	HASPPOOL	"8" Subpool for HASP Buffers
0	(0)	X'9'	0	NATPOOL	"9" Subpool for NAT
0	(0)	X'A'	0	B32KPOOL	"10" Subpool for 32K buffers
0	(0)	X'B'	0	NMAPPOOL	"11" Subpool for NMAP
0	(0)	X'C'	0	NSAPOOL	"12" Subpool for NSA
0	(0)	X'D'	0	NTQPOOL	"13" Subpool for NTQ
0	(0)	X'E'	0	PAGEPOOL	"14" Subpool for PAGE Buffers
0	(0)	X'F'	0	PPPOOL	"15" Subpool for PP Buffers
0	(0)	X'10'	0	VTAMPOOL	"16" Subpool for VTAM Buffers
0	(0)	X'11'	0	XRQPOOL	"17" Subpool for XCF requests
0	(0)	X'12'	0	SMFPOOL	"18" Subpool for SMF requests
0	(0)	X'13'	0	CFPOOL	"19" Subpool for CF data
0	(0)	X'14'	0	CMBPOOL	"20" Subpool for CMBs
0	(0)	X'15'	0	PLXPOOL	"21" Subpool for PLX dyn areas
0	(0)	X'16'	0	HEDRPOOL	"22" Subpool for NJE hdr/trlr buffers
0	(0)	X'17'	0	TINTPOOL	"23" Subpool for temporary CBs used during initialization
0	(0)	X'18'	0	PERFPOOL	"24" Subpool for performance tracking related storage
0	(0)	X'19'	0	PCEPOOL	"25" Subpool for PCEs
0	(0)	X'1A'	0	ICEPOOL	"26" Subpool for ICEs
0	(0)	X'1B'	0	PSOPOOL	"27" Subpool for PSOs
0	(0)	X'1C'	0	RNTPOOL	"28" Subpool for RNTs

Table 202. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'1D'	0	CIDPOOL	"29" Subpool for CIDs
0	(0)	X'1E'	0	SQDPOOL	"30" Subpool for SQDs
0	(0)	X'1F'	0	GPQPOOL	"31" Subpool for GPQs
0	(0)	X'20'	0	SCWAPOOL	"32" Subpool for Normal SCWAs
0	(0)	X'21'	0	SCWDPOOL	"33" Subpool for Display SCWAs
0	(0)	X'22'	0	WAVEPOOL	"34" Subpool for WAVE/Entity
0	(0)	X'84'	0	$SP132	"132" Non-fetch protected private
0	(0)	X'E5'	0	$STSUBP	"229" SUBPOOL FOR SECURITY TOKENS FETCH PROTECTED, USER KEY
0	(0)	X'E7'	0	$SPCSAF	"231" CSA, fetch protected, user key
0	(0)	X'E9'	0	$SP233	"233" Fixed non-fetch protected private
0	(0)	X'F1'	0	$ENFPPOL	"241" Subpool for ENF parm lists; ENF parm lists must be in CSA
		Event trace formatting EQUs			
		.... 1..1		TRCCWSP1	"X'09'" WRITE-THEN-SPACE-1 CC
		...1 ...1		TRCCWSP2	"X'11'" WRITE-THEN-SPACE-2 CC
		...1 1..1		TRCCWSP3	"X'19'" WRITE-THEN-SPACE-3 CC
0	(0)	X'79'	0	TRCLRECL	"121" MAX LOGICAL RECORD LENGTH
		Printer log area lengths			
0	(0)	X'23A'	0	DYNL3211	"570" SIZE OF 3211 LOG AREA
0	(0)	X'10E'	0	DYNL3800	"270" SIZE OF 3800 MDR AREA
0	(0)	X'250'	0	DYNL3203	"592" SIZE OF 3203 LOG AREA
0	(0)	X'250'	0	DYNL4245	"592" SIZE OF 4245 LOG AREA
0	(0)	X'100'	0	DYNL4248	"256" SIZE OF 4248 LOG AREA
		OUTPUT GROUP DISPOSITION COMMON EQUATES			
		...1		$ODPURGE	"B'00010000'" OUTDISP=PURGE
		.... 1...		$ODWRITE	"B'00001000'" OUTDISP=WRITE
		.... .1..		$ODHOLD	"B'00000100'" OUTDISP=HOLD
		.... ..1.		$ODKEEP	"B'00000010'" OUTDISP=KEEP
		1		$ODLEAVE	"B'00000001'" OUTDISP=LEAVE
0	(0)	X'F'	0	$ODANY	"$ODWRITE+$ODHOLD+$ODKEEP+$ODLEAVE" TEST FOR OUTDISP W/O PURGE
0	(0)	X'1F'	0	$ODANYWP	"$ODWRITE+$ODHOLD+$ODKEEP+$ODLEAVE+$ODPURGE" TEST FOR OUTDISP WITH PURGE
		Mapping of catastrophic error user entry			
0	(0)	X'0'	0	$ERRCDE	"0,4" POSITION/LENGTH OF CATA ERR CODE IN TABLE
0	(0)	X'4'	0	$ERRTEXT	"4,42" POSITION/LENGTH OF CATA ERR TEXT IN TABLE
0	(0)	X'2E'	0	$ERRENTY	"L'$ERRCDE+L'$ERRTEXT" LENGTH OF AN ENTRY IN TABLE
		HASP $SCAN caller id flags Users should use ids from 255 down, if needed			
0	(0)	X'1'	0	$SCOPTS	"1" IROPTS HASP OPTIONS
0	(0)	X'2'	0	$SCIRPL	"2" IRPL NONE-CONSOLE STMTS

Table 202. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'3'	0	$SCIRPLC	"3" IRPL CONSOLE STMTS
0	(0)	X'4'	0	$SCDCMDS	"4" DISPLAY COMMANDS
0	(0)	X'5'	0	$SCSCMDS	"5" SET COMMANDS
0	(0)	X'6'	0	$SCDOCMD	"6" SHORT DISPLAY FORM
0	(0)	X'7'	0	$SCSTCMD	"7" START COMMANDS
0	(0)	X'8'	0	$SCPCMDS	"8" STOP COMMANDS
0	(0)	X'9'	0	$SCDDIAL	"9" DIALOG DISPLAY FORM
0	(0)	X'A'	0	$SCSDIAL	"10" DIALOG SET FORM
0	(0)	X'B'	0	$SCECMDS	"11" RESET COMMANDS (list)
0	(0)	X'C'	0	$SCACMDS	"12" ADD COMMANDS
0	(0)	X'D'	0	$SCRCMDS	"13" DELETE COMMANDS
0	(0)	X'E'	0	$SCIDIAL	"14" DIALOG (INITIALIZATION)
0	(0)	X'F'	0	$SCLTCMD	"15" Output long display
0	(0)	X'10'	0	$SCECMDA	"16" RESET COMMANDS (single)
0	(0)	X'11'	0	$SCZCMDS	"17" HALT commands
0	(0)	X'12'	0	$SCHCMDS	"18" HOLD commands
0	(0)	X'13'	0	$SCRLCMD	"19" RELEASE commands
0	(0)	X'14'	0	$SCCCMDS	"20" CANCEL commands
0	(0)	X'15'	0	$SCTOCMD	"21" $TO commands
0	(0)	X'16'	0	$SCCOCMD	"22" $CO commands
0	(0)	X'17'	0	$SCPOCMD	"23" $PO commands
0	(0)	X'18'	0	$SCOCMDS	"24" $O command
0	(0)	X'19'	0	$SCLOCMD	"25" Output short display
0	(0)	X'1A'	0	$SCLCMDS	"26" $L command
0	(0)	X'1B'	0	$SCACTCM	"27" $ACTIVATE command
0	(0)	X'1C'	0	$SCZAPCM	"28" $ZAP command
0	(0)	X'1D'	0	$SCMGCMD	"29" $MIGRATE command
HASP $SCAN PRE/POST scan call types Passed into PRE/POST scans in R2					
0	(0)	X'0'	0	$SCNPRE	"0" PRE-SCAN routine call
0	(0)	X'4'	0	$SCNPOST	"4" Post SCAN routine call
0	(0)	X'8'	0	$SCNCLN	"8" Cleanup routine call
HASP $SCAN warning mask equates					
		1...		$SCWOBS	"B'10000000'" WARN FOR OBSOLETE PARAMETERS
		.1..		$SCWHOTS	"B'01000000'" WARN FOR HOT START
		..11 11..		$SCWIBM	"B'00111100'" RESERVED FOR FUTURE USE
		11		$SCWINST	"B'00000011'" RESERVED FOR INSTALLATION
HASP command PCE id/seq equates					
0	(0)	X'0'	0	$CMDNORM	"0" Normal command processor
0	(0)	X'1'	0	$CMDDYNA	"1" Dynamic LOADMOD/exit PCE
0	(0)	X'2'	0	$CMDNUM	"2" Number of command PCEs
HASP $SCAN diagnostic level table equate values					
0	(0)	X'0'	0	SDLTBADD	"0,4,C'A'" ADDR OF THE KEYWORD BACKUP AREA
0	(0)	X'4'	0	SDLTLEN	"4" LEN OF DIAG LVL TABLE ENTRY

Table 202. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'A'	0	SDLTNUM	"10" Number of SDLT entries (one is reserved to end the table and will never point to a backup area
		Equates for $GETABLE/$RETABLE/$PUTABLE to process table type tables in HTABTAB			
0	(0)	X'0'	0	HTABTEL	"0,2" TABLE ENTRY LENGTH
0	(0)	X'2'	0	HTABTMCT	"2,2" OFFSET OF MCT ADDR PAIR
0	(0)	X'4'	0	HTABTUFB	"4,2" OFFSET OF ENTRY FLAG BYTE IN WHICH X'80' INDICATES USER ENTRY
0	(0)	X'6'	0	HTABTIDF	"6,2" OFFSET OF ENTRY ID FIELD
0	(0)	X'8'	0	HTABTIDL	"8,1" ENTRY ID LENGTH INDICATION (ID LENGTH in bytes)
0	(0)	X'9'	0	HTABFLGB	"9,1" Flag byte
		1...		HTABFTRQ	"B'10000000'" Table pair offset must be passed in
		.1..		HTABFOFF	"B'01000000'" HTABTEL contains offset of halfword field containing length of the entry (aka offset to next entry)
		..1.		HTABFADD	"B'00100000'" HTABTEL contains offset of field containing address of next entry in the table
		...1		HTABF0TB	"B'00010000'" Load next pointer from 1st table entry in table
		.... 1...		HTABFNCK	"B'00001000'" Don't check for zeroes in last table=end entry
0	(0)	X'A'	0	HTABTABL	"10" LENGTH OF HTABTAB ENTRY
		HASP $SCAN equates for indexing into the dynamic diagnostic error messages			
0	(0)	X'0'	0	DIAGADDR	"0,4" ADDRESS OF THE DIAGNOSTIC TEMPLATE
0	(0)	X'4'	0	DIAGKLOC	"4,1" LEN INTO THE PHRASE WHERE OPERAND IS TO BE PLACED
0	(0)	X'5'	0	DIAGKLEN	"5,1" MAX LEN OF OPERAND TO BE PLACED
		Equates for dynamic tables			
0	(0)	X'0'	0	PAIRUSER	"0,4" User table
0	(0)	X'4'	0	PAIRHASP	"4,4" HASP table
0	(0)	X'8'	0	PAIRDYN	"8,4" Dynamic table (pointer to cell)
0	(0)	X'C'	0	PAIRLEN	"12" Table pair length
		Dynamic cell mapping			
0	(0)	X'0'	0	DYNTEYE	"0,4,C'C'" Eyecatcher
0	(0)	X'4'	0	DYNTNEXT	"4,4" Pointer to next cell
0	(0)	X'8'	0	DYNTTAB	"8,4" Pointer to table
0	(0)	X'C'	0	DYNTLMT	"12,4" Pointer to containing LMT
0	(0)	X'10'	0	DYNTTYPE	"16,1" Table type (see MTETBTYP)

Table 202. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'18'	0	DYNTLEN	"24" Length of dynamic table cell
		HASP $SCAN equates for index into the diagnostic msg table base on the reason codes			
0	(0)	X'4'	0	SCNDR01	"4,4" PTR TO DIAGINV MESSAGE ADDR
0	(0)	X'8'	0	SCNDR03	"SCNDR01+4,4" PTR TO DIAGNSP MESSAGE ADDR
0	(0)	X'C'	0	SCNDR04	"SCNDR03+4,4" PTR TO DIAGSSER MESSAGE ADDR
0	(0)	X'10'	0	SCNDR05	"SCNDR04+4,4" PTR TO DIAGVERR MESSAGE ADDR
0	(0)	X'14'	0	SCNDR06	"SCNDR05+4,4" PTR TO DIAGIVAL MESSAGE ADDR
0	(0)	X'18'	0	SCNDR07	"SCNDR06+4,4" PTR TO DIAGRTYP MESSAGE ADDR
0	(0)	X'1C'	0	SCNDR08	"SCNDR07+4,4" PTR TO DIAGBRAN MSG ADDR
0	(0)	X'20'	0	SCNDR09	"SCNDR08+4,4" PTR TO DIAGSRNG MESSAGE ADDR
0	(0)	X'24'	0	SCNDR10	"SCNDR09+4,4" PTR TO DIAGLRNG MESSAGE ADDR
0	(0)	X'28'	0	SCNDR11	"SCNDR10+4,4" PTR TO DIAGDCOR MESSAGE ADDR
0	(0)	X'2C'	0	SCNDR12	"SCNDR11+4,4" PTR TO DIAGROM MESSAGE ADDR
0	(0)	X'30'	0	SCNDR13	"SCNDR12+4,4" PTR TO DIAGVND MESSAGE ADDR
0	(0)	X'34'	0	SCNDR14	"SCNDR13+4,4" PTR TO DIAGMLDX MESSAGE ADDR
0	(0)	X'38'	0	SCNDR17	"SCNDR14+4,4" PTR TO DIAGIRTE MESSAGE ADDR
0	(0)	X'3C'	0	SCNDR18	"SCNDR17+4,4" PTR TO DIAGIRC MESSAGE ADDR
0	(0)	X'40'	0	SCNDR19	"SCNDR18+4,4" PTR TO DIAGIACT MESSAGE ADDR
0	(0)	X'44'	0	SCNDR21	"SCNDR19+4,4" PTR TO DIAGIRDV MESSAGE ADDR
0	(0)	X'48'	0	SCNDR22	"SCNDR21+4,4" PTR TO DIAGNULI MESSAGE ADDR
0	(0)	X'4C'	0	SCNDR23	"SCNDR22+4,4" PTR TO DIAGCMT MESSAGE ADDR
0	(0)	X'50'	0	SCNDR24	"SCNDR23+4,4" PTR TO DIAGGMER MESSAGE ADDR
0	(0)	X'54'	0	SCNDR25	"SCNDR24+4,4" PTR TO DIAGDERR MESSAGE ADDR
0	(0)	X'58'	0	SCNDR26	"SCNDR25+4,4" PTR TO DIAGABND MESSAGE ADDR
0	(0)	X'5C'	0	SCNDR27	"SCNDR26+4,4" PTR TO DIAGINTR MESSAGE ADDR
0	(0)	X'60'	0	SCNDR28	"SCNDR27+4,4" PTR TO DIAGCBRD MESSAGE ADDR
IDS 31 - 38, 42, 47 - 51 AND 60 - 61 RESERVED FOR $MODCHK					

Table 202. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'64'	0	SCNDR39	"SCNDR28+4,4" PTR TO DIAGINCM MESSAGE ADDR
0	(0)	X'68'	0	SCNDR40	"SCNDR39+4,4" PTR TO DIAGMWTO MESSAGE ADDR
0	(0)	X'6C'	0	SCNDR41	"SCNDR40+4,4" PTR TO DIAGSPIN MESSAGE ADDR
THIS SPACE IS RESERVED FOR REASON CODE 42 FOR $MODCHK					
0	(0)	X'70'	0	SCNDR43	"SCNDR41+4,4" PTR TO DIAGMTTB MESSAGE ADDR
0	(0)	X'74'	0	SCNDR44	"SCNDR43+4,4" PTR TO DIAGOBS MESSAGE ADDR
0	(0)	X'78'	0	SCNDR45	"SCNDR44+4,4" PTR TO DIAGHOT MESSAGE ADDR
0	(0)	X'7C'	0	SCNDR46	"SCNDR45+4,4" PTR TO DIAGWARN MESSAGE ADDR
0	(0)	X'80'	0	SCNDR52	"SCNDR46+4,4" PTR TO DIAGNFL MESSAGE ADDR
0	(0)	X'84'	0	SCNDR54	"SCNDR52+4,4" PTR TO DIAGINOD MESSAGE ADDR
0	(0)	X'88'	0	SCNDR55	"SCNDR54+4,4" PTR TO DIAGACTE MESSAGE ADDR
0	(0)	X'8C'	0	SCNDR56	"SCNDR55+4,4" PTR TO DIAGNFLC MESSAGE ADDR
0	(0)	X'90'	0	SCNDR57	"SCNDR56+4,4" PTR TO DIAGTMO MESSAGE ADDR
0	(0)	X'94'	0	SCNDR58	"SCNDR57+4,4" PTR TO DIAGGENE MESSAGE ADDR
0	(0)	X'98'	0	SCNDR59	"SCNDR58+4,4" PTR TO DIAGIAER MESSAGE ADDR
THIS SPACE IS RESERVED FOR REASON CODE 60 FOR $MODCHK THIS SPACE IS RESERVED FOR REASON CODE 61 FOR $MODCHK					
0	(0)	X'9C'	0	SCNDR62	"SCNDR59+4,4" PTR TO DIAGCONV MSG ADDR
0	(0)	X'A0'	0	SCNDR63	"SCNDR62+4,4" PTR TO DIAGFCST MSG ADDR
0	(0)	X'A4'	0	SCNDR64	"SCNDR63+4,4" PTR TO DIAGNOPM MSG ADDR
0	(0)	X'A8'	0	SCNDR65	"SCNDR64+4,4" PTR TO DIAGUNSD MSG ADDR
0	(0)	X'AC'	0	SCNDR66	"SCNDR65+4,4" PTR TO DIAGNXST MSG ADDR
0	(0)	X'B0'	0	SCNDR67	"SCNDR66+4,4" PTR TO DIAGFUDF MSG ADDR
0	(0)	X'B4'	0	SCNDR68	"SCNDR67+4,4" PTR TO DIAGSSEL MSG ADDR
0	(0)	X'B8'	0	SCNDR69	"SCNDR68+4,4" PTR TO DIAGDUAL MSG ADDR
0	(0)	X'BC'	0	SCNDR70	"SCNDR69+4,4" PTR TO DIAGVVAL MSG ADDR
0	(0)	X'C0'	0	SCNDR71	"SCNDR70+4,4" PTR TO DIAGLNSH MSG ADDR
0	(0)	X'C4'	0	SCNDR72	"SCNDR71+4,4" PTR TO DIAGRJER MSG ADDR

Table 202. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'C8'	0	SCNDR73	"SCNDR72+4,4" PTR TO DIAGLVL MSG ADDR
0	(0)	X'CC'	0	SCNDR74	"SCNDR73+4,4" Ptr to DIAGCKPT msg addr
0	(0)	X'D0'	0	SCNDR75	"SCNDR74+4,4" Ptr to DIAGDPLX msg addr
0	(0)	X'D4'	0	SCNDR76	"SCNDR75+4,4" PTR TO DIAGFLST MSG ADDR
0	(0)	X'D8'	0	SCNDR77	"SCNDR76+4,4" PTR TO DIAGFLRQ MSG ADDR
0	(0)	X'DC'	0	SCNDR78	"SCNDR77+4,4" PTR TO DIAGMULJ MSG ADDR
0	(0)	X'E0'	0	SCNDR79	"SCNDR78+4,4" PTR TO DIAGPSCN MSG ADDR
0	(0)	X'E4'	0	SCNDR80	"SCNDR79+4,4" PTR TO DIAGPSC2 MSG ADDR
0	(0)	X'E8'	0	SCNDR81	"SCNDR80+4,4" PTR TO DIAGCAUT MSG ADDR
0	(0)	X'EC'	0	SCNDR82	"SCNDR81+4,4" PTR TO DIAGFIKY MSG ADDR
0	(0)	X'F0'	0	SCNDR83	"SCNDR82+4,4" PTR TO DIAGFIDL MSG ADDR
0	(0)	X'F4'	0	SCNDR84	"SCNDR83+4,4" PTR TO DIAGBUSY MSG ADDR
0	(0)	X'F8'	0	SCNDR85	"SCNDR84+4,4" PTR TO DIAGPROT MSG ADDR
0	(0)	X'FC'	0	SCNDR86	"SCNDR85+4,4" PTR TO DIAGNOSP MSG ADDR
0	(0)	X'100'	0	SCNDR87	"SCNDR86+4,4" PTR TO DIAGGTLT MSG ADDR
0	(0)	X'104'	0	SCNDR88	"SCNDR87+4,4" PTR TO DIAGRCRG MSG ADDR
0	(0)	X'108'	0	SCNDR89	"SCNDR88+4,4" PTR TO DIAGNOCN MSG ADDR
0	(0)	X'10C'	0	SCNDR90	"SCNDR89+4,4" PTR TO DIAGSCH MSG ADDR
0	(0)	X'110'	0	SCNDR91	"SCNDR90+4,4" PTR TO DIAGSERV MSG ADDR
0	(0)	X'114'	0	SCNDR92	"SCNDR91+4,4" PTR TO DIAGDMND MSG ADDR
0	(0)	X'118'	0	SCNDR93	"SCNDR92+4,4" PTR TO DIAGNXEQ MSG ADDR
0	(0)	X'11C'	0	SCNDR94	"SCNDR93+4,4" Ptr to DIAGQERR msg addr
0	(0)	X'120'	0	SCNDR95	"SCNDR94+4,4" Ptr to DIAGNBRT msg addr
0	(0)	X'124'	0	SCNDR96	"SCNDR95+4,4" Ptr to DIAGNTSN msg addr
0	(0)	X'128'	0	SCNDR97	"SCNDR96+4,4" Ptr to DIAGLPRM msg addr
0	(0)	X'12C'	0	SCNDR98	"SCNDR97+4,4" Ptr to DIAGINCL msg addr
0	(0)	X'130'	0	SCNDR99	"SCNDR98+4,4" Ptr to DIAGPSTX msg addr

Table 202. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'134'	0	SCNDR100	"SCNDR99+4,4" Ptr to DIAGDPRL msg addr
0	(0)	X'138'	0	SCNDR101	"SCNDR100+4,4" Ptr to DIAGSSIN msg addr
0	(0)	X'13C'	0	SCNDR102	"SCNDR101+4,4" Ptr to DIAGFXCL msg addr
0	(0)	X'140'	0	SCNDR103	"SCNDR102+4,4" Ptr to DIAGPS11 msg addr
0	(0)	X'144'	0	SCNDR104	"SCNDR103+4,4" Ptr to DIAGISCK msg addr
0	(0)	X'148'	0	SCNDR105	"SCNDR104+4,4" Ptr to DIAGDEDR msg addr
0	(0)	X'14C'	0	SCNDR106	"SCNDR105+4,4" Ptr to DIAGSRTY msg addr
0	(0)	X'150'	0	SCNDR107	"SCNDR106+4,4" Ptr to DIAGWLMY msg addr
0	(0)	X'154'	0	SCNDR108	"SCNDR107+4,4" Ptr to DIAGOQFL msg addr
0	(0)	X'158'	0	SCNDR109	"SCNDR108+4,4" Ptr to DIAGNFLS msg addr
0	(0)	X'15C'	0	SCNDR110	"SCNDR109+4,4" Ptr to DIAGNSLF msg addr
0	(0)	X'160'	0	SCNDR111	"SCNDR110+4,4" Ptr to DIAGNXIT msg addr
0	(0)	X'164'	0	SCNDR112	"SCNDR111+4,4" Ptr to DIAGNXCR msg addr
0	(0)	X'168'	0	SCNDR113	"SCNDR112+4,4" Ptr to DIAGINSP msg addr
0	(0)	X'16C'	0	SCNDR114	"SCNDR113+4,4" Ptr to DIAGINTC msg addr
0	(0)	X'170'	0	SCNDR115	"SCNDR114+4,4" Ptr to DIAGCYTR msg addr
0	(0)	X'174'	0	SCNDR116	"SCNDR115+4,4" Ptr to DIAGCKLN msg addr
0	(0)	X'178'	0	SCNDR117	"SCNDR116+4,4" Ptr to DIAGBRNM msg addr
0	(0)	X'17C'	0	SCNDR118	"SCNDR117+4,4" Ptr to DIAGLGAC msg addr
0	(0)	X'180'	0	SCNDR119	"SCNDR118+4,4" Ptr to DIAGLGCY msg addr
0	(0)	X'184'	0	SCNDR120	"SCNDR119+4,4" Ptr to DIAGLGTR msg addr
0	(0)	X'188'	0	SCNDR121	"SCNDR120+4,4" Ptr to DIAGSMCY msg addr
0	(0)	X'18C'	0	SCNDR122	"SCNDR121+4,4" Ptr to DIAGSMTR msg addr
0	(0)	X'190'	0	SCNDR123	"SCNDR122+4,4" Ptr to DIAGBRTR msg addr
0	(0)	X'194'	0	SCNDR124	"SCNDR123+4,4" Ptr to DIAGNOFR msg addr
0	(0)	X'198'	0	SCNDR125	"SCNDR124+4,4" Ptr to DIAGCYLG msg addr
0	(0)	X'19C'	0	SCNDR126	"SCNDR125+4,4" Ptr to DIAGCYPA msg addr

Table 202. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'1A0'	0	SCNDR127	"SCNDR126+4,4" Ptr to DIAGSPLR msg addr
0	(0)	X'1A4'	0	SCNDR128	"SCNDR127+4,4" Ptr to DIAGMMOA msg addr
0	(0)	X'1A8'	0	SCNDR130	"SCNDR128+4,4" Ptr to DIAGMMIA msg addr
0	(0)	X'1AC'	0	SCNDR131	"SCNDR130+4,4" Ptr to DIAGM22A msg addr
0	(0)	X'1B0'	0	SCNDR132	"SCNDR131+4,4" Ptr to DIAGDMIA msg addr
0	(0)	X'1B4'	0	SCNDR133	"SCNDR132+4,4" Ptr to DIAGDMIA msg addr
0	(0)	X'1B8'	0	SCNDR134	"SCNDR133+4,4" Ptr to DIAGMGEA msg addr
0	(0)	X'1BC'	0	SCNDR135	"SCNDR134+4,4" Ptr to DIAGNOCA msg addr
0	(0)	X'1C0'	0	SCNDR136	"SCNDR135+4,4" Ptr to DIAGNOCC msg addr
0	(0)	X'1C4'	0	SCNDR137	"SCNDR136+4,4" Ptr to DIAGSTUC msg addr
0	(0)	X'1C8'	0	SCNDR138	"SCNDR137+4,4" Ptr to DIAGVOLA msg addr
0	(0)	X'1CC'	0	SCNDR139	"SCNDR138+4,4" Ptr to DIAGRECC msg addr
0	(0)	X'1D0'	0	SCNDR140	"SCNDR139+4,4" Ptr to DIAGINAC msg addr
0	(0)	X'1D4'	0	SCNDR141	"SCNDR140+4,4" Ptr to DIAGABSC msg addr
0	(0)	X'1D8'	0	SCNDR142	"SCNDR141+4,4" Ptr to DIAGREST msg addr
0	(0)	X'1DC'	0	SCNDR143	"SCNDR142+4,4" Ptr to DIAGXTNC msg addr
0	(0)	X'1E0'	0	SCNDR144	"SCNDR143+4,4" Ptr to DIAGACMC msg addr
0	(0)	X'1E4'	0	SCNDR145	"SCNDR144+4,4" Ptr to DIAGCMDC msg addr
0	(0)	X'1E8'	0	SCNDR146	"SCNDR145+4,4" Ptr to DIAGABAC msg addr
0	(0)	X'1EC'	0	SCNDR147	"SCNDR146+4,4" Ptr to DIAGSPAC msg addr
0	(0)	X'1F0'	0	SCNDR148	"SCNDR147+4,4" Ptr to DIAGJAUT msg addr
0	(0)	X'1F4'	0	SCNDR149	"SCNDR148+4,4" Ptr to DIAGPREC msg addr
0	(0)	X'1F8'	0	SCNDR150	"SCNDR149+4,4" Ptr to DIAGNDEF msg addr
0	(0)	X'1FC'	0	SCNDR151	"SCNDR150+4,4" Ptr to DIAGNVJC msg addr
0	(0)	X'200'	0	SCNDR152	"SCNDR151+4,4" Ptr to DIAGACTI msg addr
0	(0)	X'204'	0	SCNDR153	"SCNDR152+4,4" Ptr to DIAGALR msg addr
0	(0)	X'208'	0	SCNDR154	"SCNDR153+4,4" Ptr to DIAGINT msg addr

Table 202. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'20C'	0	SCNDR155	"SCNDR154+4,4" Ptr to DIAGTMF msg addr
0	(0)	X'210'	0	SCNDR156	"SCNDR155+4,4" Ptr to DIAGTMV msg addr
0	(0)	X'214'	0	SCNDR157	"SCNDR156+4,4" Ptr to DIAGNVD msg addr
0	(0)	X'218'	0	SCNDR158	"SCNDR157+4,4" Ptr to DIAGNFP msg addr
0	(0)	X'21C'	0	SCNDR159	"SCNDR158+4,4" Ptr to DIAGUNF msg addr
0	(0)	X'220'	0	SCNDR160	"SCNDR159+4,4" Ptr to DIAGFDM msg addr
0	(0)	X'224'	0	SCNDR161	"SCNDR160+4,4" Ptr to DIAGVTL msg addr
0	(0)	X'228'	0	SCNDR162	"SCNDR161+4,4" Ptr to DIAGKTL msg addr
0	(0)	X'22C'	0	SCNDR163	"SCNDR162+4,4" Ptr to DIAGVDT msg addr
0	(0)	X'230'	0	SCNDR164	"SCNDR163+4,4" Ptr to DIAGBTE msg addr
0	(0)	X'234'	0	SCNDR165	"SCNDR164+4,4" Ptr to DIAGJSH msg addr
0	(0)	X'238'	0	SCNDR166	"SCNDR165+4,4" Ptr to DIAGJXP msg addr
0	(0)	X'23C'	0	SCNDR167	"SCNDR166+4,4" Ptr to DIAGCLA msg addr
0	(0)	X'240'	0	SCNDR168	"SCNDR167+4,4" Ptr to DIAGAUTO msg addr
0	(0)	X'244'	0	SCNDR169	"SCNDR168+4,4" Ptr to DIAGMJG msg addr
Parameter list for call to $HNOTIFY and OPMAILMG Output from $HNOTIFY and input to OPMAILMG					
0	(0)	X'0'	0	$NTPARML	"0,32" Length of entire parm list
0	(0)	X'0'	0	$NTNNODE	"0,8" Notify Node from JCT
0	(0)	X'8'	0	$NTNOTUS	"8,8" Notify Userid from JCT
0	(0)	X'10'	0	$NTNONDE	"16,8" Xmitting Node from JCT
0	(0)	X'18'	0	$NTNOUSR	"24,8" Xmitting userid from JCT
0	(0)	X'9'	0	$446MVER	"9,1" Checkpoint master version
0	(0)	X'A'	0	$446CVER	"10,8" Checkpoint cold start vsn.
JOE/Writer Exclude List mapping. Be sure to update HASMJWEL if this mapping changes.					
0	(0)	X'0'	0	$JWEPTR	"0,4,C'A'" ADDRESS OF NEXT ELEMENT
0	(0)	X'4'	0	$JWENUM	"4,8,C'F'" NUMBER OF WRITER EXCLUDED
0	(0)	X'C'	0	$JWEDVID	"12,3,C'C'" DEVICE ID VALUE
0	(0)	X'F'	0	$JWEFLAG	"15,1,C'B'" Flag byte
		1...		$JWELONG	"B'10000000'" $JWENUM 8 bytes (only first 4 bytes valid if $JWELONG is off)

Table 202. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		$JWEBULK	"B'01000000'" JOE has been processed by current SAPI bulk modify request
0	(0)	X'10'	0	$JWELEN	"16" LEN OF JWEL TABLE ELEMENT
		JWELTBL Anchor Equates Offset 0 ($JWEPTR) is the address of the first JWEL for the corresponding JOE Offset 4 ($JWECRTM) is the time stamp of the JOE creation. If this time stamp and the JOECRTME do not match, then it is known that the JWEL chain is obsolete. EQU 0,4,C'A' ADDRESS OF THE FIRST ELEMENT			
0	(0)	X'0'	0	$JWEFLG1	"0,1,C'B'" Flag bit in JWELTBL
0	(0)	X'4'	0	$JWECRTM	"4,4,C'X'" JOE creation time
0	(0)	X'8'	0	$JWETBLL	"8" Length of JWEL table anchor
					$JWEFLG1 EQUATES
		1...		$JW1NCLR	"B'10000000'" DO NOT CLEAR JWEL ELEMENTS
		EQU B'01111111' Do not attempt to use other			
		Constants used to process the performace data table in HASPTABS (used for the $D PERFDATA command)			
0	(0)	X'0'	0	PRFDNAME	"0,8,C'C'" Subscript type name
0	(0)	X'8'	0	PRFDIND	"8,1,C'X'" Indicator for subscript
0	(0)	X'1'	0	PRFDINTS	"1" INITSTAT subscript
0	(0)	X'2'	0	PRFDQSUS	"2" QSUSE subscript
0	(0)	X'3'	0	PRFDPCES	"3" PCESTAT subscript
0	(0)	X'4'	0	PRFDSAMP	"4" SAMPDATA subscript
0	(0)	X'5'	0	PRFDCPUS	"5" CPUSTAT subscript
0	(0)	X'6'	0	PRFDEVNT	"6" EVENTS subscript
0	(0)	X'7'	0	PRFDCKPT	"7" CKPTSTAT subscript
0	(0)	X'8'	0	PRFDSUBT	"8" SUBTSTAT subscript
0	(0)	X'9'	0	PRFDDEVG	"9" DEVGSTAT subscript
0	(0)	X'A'	0	PRFDMIGR	"10" MIGRSTAT subscript
0	(0)	X'B'	0	PRFDWS	"11" WSSTAT subscript
0	(0)	X'C'	0	PRFDLEN	"12" Length of table entry
		The following fields define the data area returned from XCFMSTAT. This data area is always 4096 in size. The first 2 words are the count of active 'NOT OUR MAS' members and the second is the number of active 'IN OUR MAS' members. For the 'NOT OUR MAS' members, an array of member names and reason they are not thought to be our MAS is provided.			
0	(0)	X'1000'	0	XCFMSIZE	"4096" Size of the data area
0	(0)	X'0'	0	XCFMTHEM	"0,4,C'F'" Number of active members in our group and not in our MAS
0	(0)	X'4'	0	XCFMUS	"4,4,C'F'" Number of active members in our group and our MAS
0	(0)	X'8'	0	XCFMLIST	"8,19,C'X'" First 'NOT US' member data
0	(0)	X'0'	0	XCFMMEMN	"0,16,C'C'" XCF member name

Table 202. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'10'	0	XCFMMEMR	"16,1,C'X'" Reason 'NOT US'
0	(0)	X'11'	0	XCFMMEMF	"17,1,C'X'" Copy of XMAUSFLG
0	(0)	X'12'	0	XCFMMEMC	"18,1,C'X'" Copy of XMAUCRF1
0	(0)	X'4'	0	XCFMRSJ2	"4" Not JES2
0	(0)	X'8'	0	XCFMRSNM	"8" Incorrect member name
0	(0)	X'C'	0	XCFMRSCS	"12" Different cold start
		The following fields define the data area passed to $BLDMSG to build the HASP565 message.			
0	(0)	X'0'	0	M565RSN	"0,1,C'X'" Reason code
0	(0)	X'1'	0	M565RND1	"1" No dedicated line (1)
0	(0)	X'2'	0	M565RND2	"2" No dedicated line (2)
0	(0)	X'3'	0	M565RNIL	"3" No idle line
0	(0)	X'4'	0	M565RNSK	"4" No socket
0	(0)	X'5'	0	M565RNDE	"5" Node name unrecognized
0	(0)	X'6'	0	M565RNPM	"6" NPM not available
0	(0)	X'7'	0	M565RBUF	"7" Buffer shortage
0	(0)	X'8'	0	M565RBUS	"8" Line busy
0	(0)	X'9'	0	M565RNET	"9" NETLNES shortage
0	(0)	X'A'	0	M565RINT	"10" Internal error
0	(0)	X'B'	0	M565RAPP	"11" APPCLU class inactive
0	(0)	X'1'	0	M565NDEN	"1,8,C'C'" Node name
0	(0)	X'9'	0	M565NSVN	"9,8,C'C'" NETSRV name
0	(0)	X'11'	0	M565LNEN	"17,8,C'C'" LINE name (optional)
		The following fields define the data area passed to $BLDMSG to build the HASP599 message.			
0	(0)	X'0'	0	$599PIT	"0,4" PIT address
0	(0)	X'4'	0	$599SQD	"4,4" SQD Return Code
0	(0)	X'8'	0	$599XINI	"8,4" XINITST return code
0	(0)	X'C'	0	$599LEN	"12" Length of work area
		The following fields define the data area passed to $BLDMSG to build the HASP791 message.			
0	(0)	X'0'	0	M791NAME	"0,4" Member name
0	(0)	X'4'	0	M791GRP	"4,8" XCF GROUP name
0	(0)	X'C'	0	M791PLX	"12,8" XCF SYSPLEX name
0	(0)	X'14'	0	M791PXID	"20,8" XCF SYSPLEX id
0	(0)	X'1C'	0	M791LEN	"28" Entry length
		The following fields define the data area passed to $BLDMSG to build the HASP710 message.			
0	(0)	X'0'	0	M710ENT	"0,5,C'X'" Table entry (1 per member)
0	(0)	X'0'	0	M710MEM	"0,4,C'C'" Member name
0	(0)	X'4'	0	M710RSN	"4,1,C'X'" Reason code
0	(0)	X'1'	0	M710UP	"1" Member is up level
0	(0)	X'2'	0	M710DOWN	"2" Member is down level
		The following fields define the data area passed to $BLDMSG to build the HASP474 message.			
0	(0)	X'0'	0	M474ENT1	"0,12" Data area 1
0	(0)	X'C'	0	M474ENT2	"M474ENT1+L'M474ENT1,12" Data area 2

Table 202. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'18'	0	M474BTRN	"M474ENT2+L'M474ENT2,4" CBTYPE BRTRANS
0	(0)	X'1C'	0	M474PRML	"M474BTRN+L'M474BTRN" Total length
		Each of the 12-byte areas above is further mapped as follows:			
0	(0)	X'0'	0	M474ENBT	"0,4" BRTRANS address
0	(0)	X'4'	0	M474ENLO	"4,4" Low offset
0	(0)	X'8'	0	M474ENHI	"8,4" High offset
		Define individual fields in each of the 2 areas			
0	(0)	X'0'	0	M474E1BT	"M474ENT1+M474ENBT,L'M474ENBT" BRTRANS addr 1
0	(0)	X'4'	0	M474E1LO	"M474ENT1+M474ENLO,L'M474ENLO" Low offset 1
0	(0)	X'8'	0	M474E1HI	"M474ENT1+M474ENHI,L'M474ENHI" High offset 1
0	(0)	X'C'	0	M474E2BT	"M474ENT2+M474ENBT,L'M474ENBT" BRTRANS addr 2
0	(0)	X'10'	0	M474E2LO	"M474ENT2+M474ENLO,L'M474ENLO" Low offset 2
0	(0)	X'14'	0	M474E2HI	"M474ENT2+M474ENHI,L'M474ENHI" High offset 2
		HASP module directory entry			
0	(0)	X'0'	0	MAPNAME	"0,8" MODULE NAME
0	(0)	X'8'	0	MAPADDR	"8,4" MODULE ADDRESS
0	(0)	X'8'	0	MAPMITA	"8,4" MIT ADDRESS
0	(0)	X'C'	0	MAPBASE	"12,4" ALT MOD BASE FOR REP FACILITY
0	(0)	X'10'	0	MAPENTL	"16" MODMAP ENTRY LENGTH
0	(0)	X'10'	0	TMAPLMOD	"16,8" Load module name, in $SCAN temporary MODMAP only
0	(0)	X'18'	0	TMAPADDC	"24,4" Address check value for dup name/addr in temp MODMAP
0	(0)	X'1C'	0	TMAPENTL	"28" Temporary MODMAP entry len
		Tape label equates for offloads			
		1		$LABNL	"X'01'" NL - NON-LABELED
		.... ..1.		$LABSL	"X'02'" SL - STANDARD LABEL
		.... .1..		$LABNSL	"X'04'" NSL - NON-STANDARD LABEL
		.... 1.1.		$LABSUL	"X'0A'" SUL - STANDARD USER LABEL
		...1		$LABBLP	"X'10'" BLP - BYPASS LABEL PROCESS
		.1..		$LABAL	"X'40'" AL - AMERICAN NATIONAL STD
		.1.. 1...		$LABAUL	"X'48'" AUL - AMERICAL NATIONAL STD USER LABEL
		Miscellaneous DYNALLOC equates			
0	(0)	BITSTRING	0	$DYNLOCF	"X'1708'" LOCATE FAILURE REASON CODE
		.... .1..		$DYNNEW	"X'04'" DISP=NEW TEXT VALUE

Table 202. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Miscellaneous WLM Equates			
0	(0)	X'E4C'	0	$HOURPLUS	"61*60" One hour plus (61 minutes)
		Equates for $XMPOST parameter list mapping.			
0	(0)	X'0'	0	$XMPERET	"0,4" ERRET address
0	(0)	X'4'	0	$XMPECBP	"4,4" Address of ECB to POST
0	(0)	X'8'	0	$XMPASCB	"8,4" Address of associated ASCB
0	(0)	X'C'	0	$XMPECB	"12,4" ECB to POST
		1...		$XMLOSTP	"X'80'" JES2 main task has finished processing the request. This is turned on in the high order byte of the ASCB address.
		HAVT high bit definition.			
		1...		HAVTNLOG	"B'10000000'" High bit on in HAVT entry ==> no job log
		$GETWORK table element mapping			
0	(0)	X'0'	0	GTWKTSIZ	"0,2,C'H'" Size of work area
0	(0)	X'2'	0	GTWKTMSZ	"2,2,C'H'" Minimum pool user size
0	(0)	X'4'	0	GTWKTPID	"4,1,C'X'" Pool id
0	(0)	X'5'	0	GTWKTFLG	"5,1,C'B'" Storage location flag
0	(0)	X'20'	0	GTWKTANY	"$GTWKLOC" Pool LOC=ANY
0	(0)	X'10'	0	GTWKRO	"$GTWKRO" Pool is read only
0	(0)	X'30'	0	GTWKDIS	"GTWKTANY+GTWKRO" Pool discriminates
		EQU 6,2 Reserved			
0	(0)	X'8'	0	GTWKTNAM	"8,4,C'C'" Normal use for pool
0	(0)	X'C'	0	GTWKTNXT	"12,4,C'A'" Address of next available work area
0	(0)	X'10'	0	GTWKTCEL	"16,4,C'F'" Number of cells obtained
0	(0)	X'14'	0	GTWKTUSE	"20,4,C'F'" Number of cells in use
0	(0)	X'18'	0	GTWKTESZ	"24" Size of table entry
0	(0)	X'2000'	0	GTWKMAX	"8192" Max size of GETWORKed area
		INLINE PARMLIST EQUATES Generalized inline parameter list EQUs			
0	(0)	X'0'	0	$ILPSIZE	"0,1" OFFSET TO SIZE OF INLINE PARAMETER LIST (1 BYTE)
0	(0)	X'1'	0	$ILPFLG1	"1,1" OFFSET TO GENERAL FLAG BYTE 1
0	(0)	X'2'	0	$ILPFLG2	"2,1" OFFSET TO GENERAL FLAG BYTE 2
0	(0)	X'3'	0	$ILPFLG3	"3,1" OFFSET TO GENERAL FLAG BYTE 3
		SPECIFIC INLINE PARMLIST EQUATES $#GET macro option flags			

Table 202. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		$GTHAVNO	"B'10000000'" NO JOE RETURNED
		.1..		$GTCHNNO	"B'01000000'" NO CHAINING REQUIRED
		..1.		$GTIOTYS	"B'00100000'" RETURN THE IOT TO CALLER
		...1		$GTNET	"B'00010000'" NETWORK QUEUE
		.... 1...		$GTWRKSL	"B'00001000'" USE WORK SELECTION
		.... .1..		$GTWSP	"B'00000100'" WSP in R1, not DCT
		.... ..1.		$GTNOSAF	"B'00000010'" No SAF call
		1		$GTCOUNT	"B'00000001'" Count lines/pages/bytes
	$#GET macro more option flags (flag2)				
		1...		$GTOPTIM	"B'10000000'" Optimized $#GET
		.1..		$GTBESTJ	"B'01000000'" Optimized $#GET to be run BEST JOE criteria evaluation
0	(0) X'4'		0	$GTPARML	"4" $#GET Parameter list length
	GTSCREEN work selection options (hi-R1 on entry to GTSCREEN)				
		1		$GTSKWSR	"B'00000001'" Skip a call to WSSERV
		.... ..1.		$GTSKJPS	"B'00000010'" Skip JOE prescreening
		.... .1..		$GTSKJPP	"B'00000100'" Skip JOE postscreening
		.... 1...		$GTJHNSE	"B'00001000'" Treat job held as not selectable any device
	$#POST macro option flags				
		1...		$PSTMASP	"B'10000000'" RESET JOE'S JOTPOST FLAG
		.1..		$PSTKEPJ	"B'01000000'" Keep JWELs
		..1.		$PSTNSPN	"B'00100000'" Do not post spin JOEs
0	(0) X'0'		0	$PSTJOE	"0" TYPE=JOE $#POST CALL
0	(0) X'4'		0	$PSTJQE	"4" TYPE=JQE $#POST CALL
0	(0) X'8'		0	$PSTXMIT	"8" TYPE=XMIT $#POST CALL
0	(0) X'C'		0	$PSTMSG	"12" TYPE=MSG $#POST CALL
	$#REM MACRO OPTION FLAGS				
		1...		$REMPURG	"B'10000000'" PURGE THE SPIN IOT TRACKS
REMWAIT EQU B'01000000' Not available for use due to coexistence with SP510					
		..1.		$REMLOCK	"B'00100000'" Caller has job lock
		...1		$REMKPJQ	"B'00010000'" JQE must not be purged even if last JOE is being REMed
		.... 1...		$REMLFRE	"B'00001000'" LOCK=(YES,FREE) specified $#REM should free the lock

Table 202. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		$SJIOBIT macro option flags			
		1...		$SJITEMP	"B'10000000'" TEMPORARY SJIOB REQUESTED
		.1..		$SJIFREE	"B'01000000'" FREE SJIOB REQUESTED
		..1.		$SJINSJB	"B'00100000'" NO SJB REQUIRED
		...1		$SJIINIT	"B'00010000'" INIT SJIOB REQUESTED
		.... 1...		$SJIGNYC	"B'00001000'" UNCONDITIONAL GET SJIOB
		$QJIX macro action flags			
		1...		$JIXGET	"B'10000000'" FLAG FOR ALLOCATE JOB#
		.1..		$JIXFREE	"B'01000000'" FLAG FOR DEALLOCATE JOB#
		..1.		$JIXSWAP	"B'00100000'" FLAG FOR SWAP JOB NUMBER
		...1		$JIXFOMT	"B'00010000'" FLAG FOR INITIALIZE JIX
		.... 1...		$JIXVERI	"B'00001000'" FLAG FOR VERIFY JIX
		1		$JIXWYES	"B'00000001'" $WAIT IS REQUESTED FOR NEW JOB#
		....		$JIXWNO	"B'00000000'" NO $WAIT REQUESTED FOR NEW JOB#
		$CHECK macro option flags			
		1...		$CHECINH	"B'10000000'" INHIBIT=YES WAS SPECIFIED
		.1..		$CHECNWA	"B'01000000'" WAIT=NO was specified
		..1.		$CHECPST	"B'00100000'" POST=YES was specified
		$DCBDYN macro option flags			
		1...		$BDYNATT	"B'10000000'" DCB ATTACH REQUEST
		.1..		$BDYNDET	"B'01000000'" DCB DETACH REQUEST
		$DCTDYN macro option flags			
		1...		$DDYNATT	"B'10000000'" DCT ATTACH REQUEST
		.1..		$DDYNFND	"B'01000000'" DCT FIND REQUEST
		$DTEDYN macro option flags			
		1...		$DTEPARM	"B'10000000'" PARM PARMETER SPECIFIED
		.1..		$DTEPECB	"B'01000000'" ECB TYPE WAIT SPECIFIED
		..1.		$DTEPXCB	"B'00100000'" XECB TYPE WAIT SPECIFIED
		$ENTRY macro eyecatcher fields Normal $ENTRY work area EQU 0,4 Initial jump instruction EQU 4,4 Fill characters ($$$$)			

Table 202. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'8'	0	$ENTNAME	"8,8,C'C'" Routine name
0	(0)	X'10'	0	$ENTCADR	"16,4,C'X'" Offset into $xADDR
		SSI $ENTRY work area EQU 0,4 Initial jump instruction EQU 4,4 Secondary jump or ($$$$)			
0	(0)	X'8'	0	$ENTSNAM	"8,8,C'C'" Routine name
0	(0)	X'10'	0	$ENTSDSC	"16,40,C'C'" SSI description
0	(0)	X'38'	0	$ENTSNUM	"56,1,C'X'" SSI number
0	(0)	X'39'	0	$ENTSFG1	"57,1,C'B'" SSI option flags
		1...		$ENTS1AU	"B'10000000'" Authorized callers only
0	(0)	X'3A'	0	$ENTSEXL	"58,2,C'H'" SSOB extension len offset
		$EXCP macro option flags			
		1...		$EXCPVR	"B'10000000'" I/O VIA EXCPVR INDICATOR
		.1..		$EXCPWT	"B'01000000'" $WAIT FOR I/O TO COMPLETE
		..1.		$EXCPMT	"B'00100000'" Validate MTTR
		...1		$EXCPCBI	"B'00010000'" $EXCP called from $CBIO
		$FRECMB macro option flags			
		1...		$FCMBCNT	"B'10000000'" BUMP CMB COUNT
		$FREEBUF macro option flags			
		1...		$FBUFMLT	"B'10000000'" FREE MULTIPLE BUFFERS
		$GETBUF macro option flags			
		1...		$GBUFWT	"B'10000000'" INDICATE $WAIT ALLOWED
		$GETHP macro option flags			
		1...		$GHPFIX	"B'10000000'" Area should be page fixed
0	(0)	X'8'	0	$GHPPRFX	"8" $GETHP prefix length
		$GETSMFB macro options flags			
		1...		$GSMFBWT	"B'10000000'" INDICATE $WAIT ALLOWED
		.1..		$GSMFBLG	"B'01000000'" INDICATE LARGE SMF BUFFER SPECIFIED
		$GETWORK macro option flags			
		1...		$GTWKCND	"B'10000000'" ERRET=, CONDITIONAL ENTRY
		.1..		$GTWKWAT	"B'01000000'" WAIT=YES, $WAIT FOR MAIN
		Ensure that chacterizing bits (ones that differentiate otherwise equal pools in the getwork table) are defined in the same way here as they in the GETPOOL equates in the $GETWORK routine.			

Table 202. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		$GTWKLOC	"B'00100000'" LOC=ANY was specified
		...1		$GTWKRO	"B'00010000'" Pool is read only
		End of pool discriminates $JCTXnnn Macro option flags			
0	(0)	BITSTRING	0	$JCXLOCL	"B'1000000000000000'" LOC=LOCAL specified
		$JQESERV Macro option flags When a flag bit is added, place a '0' in the corresponding bit position in $JSRFLGS EQU.			
0	(0)	BITSTRING	0	$JSRBERT	"B'1000000000000000'" BERTLOCK=YES specified
0	(0)	BITSTRING	0	$JSRGSPL	"B'0100000000000000'" GETSPOOL=YES specified
0	(0)	BITSTRING	0	$JSRRWAT	"B'0010000000000000'" RESWAIT=YES specified
0	(0)	BITSTRING	0	$JSRWAIT	"B'0001000000000000'" Post when request completes
0	(0)	BITSTRING	0	$JSRJQA	"B'0000100000000000'" A JQA was passed
0	(0)	BITSTRING	0	$JSRFREE	"B'0000010000000000'" FREE=YES specified
0	(0)	BITSTRING	0	$JSRTSU	"B'0000001000000000'" JQETYPE=TSU specified
0	(0)	BITSTRING	0	$JSRSTC	"B'0000000100000000'" JQETYPE=STC specified
		1...		$JSRMJPL	"B'0000000010000000'" MODJOB parms passed
		.111 1111		$JSRFLGS	"B'0000000001111111'" EQU for all flag bits. Place a '0' in bit positions used as flags. Place a '1' in unused flag bit positions.
		1		$JSRTADD	"B'0000000000000001'" REQUEST=ADD
		.... ..1.		$JSRTCKP	"B'0000000000000010'" REQUEST=CKPT
		11		$JSRTMOD	"B'0000000000000011'" REQUEST=MOD
		.... .1..		$JSRTREM	"B'0000000000000100'" REQUEST=REM
		.... .1.1		$JSRTOBT	"B'0000000000000101'" REQUEST=OBTAIN
		.... .11.		$JSRTFRE	"B'0000000000000110'" REQUEST=FREE
		.... .111		$JSRTCAN	"B'0000000000000111'" REQUEST=CANCEL
		.... 1...		$JSRTQRY	"B'0000000000001000'" REQUEST=QUERY
		.... 1..1		$JSRTMDJ	"B'0000000000001001'" REQUEST=MODJOB
		$MODLOAD macro option flags			

Table 202. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		$MLMSGY	"B'10000000'" ISSUE DIAGNOSTIC MESSAGE
		.1..		$MLJ2MOD	"B'01000000'" LOAD A JES2 LOAD MODULE
		..1.		$MLDIRL	"B'00100000'" DIRECTED LOAD REQUEST
		...1		$MLDLPA	"B'00010000'" SEARCH FOR LPA MODULE
		.... 1...		$MLMSGI	"B'00001000'" Issue diagnostic message if the module is found but has other errors
		.... .1..		$MLMSGS	"B'00000100'" Suppress all message processing
		.... ..1.		$MLREPL	"B'00000010'" Replace existing load module
		1		$MLREPLC	"B'00000001'" Replace/load module
	$PBLOCK macro options flags				
		1...		$PBLKSLT	"B'10000000'" SLANT WAS SPECIFIED
		.1..		$PBLKCTR	"B'01000000'" CENTER WAS SPECIFIED
	$PCEDYN macro option flags				
		1...		$PDYNAT	"B'10000000'" PCE ATTACH REQUEST
		.1..		$PDYNDT	"B'01000000'" PCE DETACH REQUEST
		..1.		$PDYNDTT	"B'00100000'" PCE DETACH TEST REQUEST
		...1		$PDYNALT	"B'00010000'" Alter PCEs defined
		.... 1...		$PDYNPCE	"B'00001000'" R1 INPUT IS A PCE ADDR
		.... .1..		$PDYNTAB	"B'00000100'" R1 INPUT IS A PTAB ADDR
		.... ..1.		$PDYNDCT	"B'00000010'" R1 INPUT IS A DCT ADDR
0	(0) X'10'		0	$PCEGARD	"16" Number of PCE guard bytes
	PSOFRELK Service routine EQUs COMFRELK Service routine EQUs				
0	(0) X'0'		0	LEAVE_JOES_BUSY	"0" Don't unbusy any JOEs
0	(0) X'1'		0	UNBUSY_JOES	"1" Unbusy JOEs
	$QGET macro option flags				
		1...		$QGTLSTC	"B'10000000'" $OJTWSC SPECIFIED ON $QGET ... RUN $XEQ AND CLASS LIST QUEUES
		.1..		$QGTLST	"B'01000000'" $OJTWS SPECIFIED ON $QGET RUN CLASS LIST QUEUES
		..1.		$QGTINWS	"B'00100000'" $INWS SPECIFIED ON $QGET RUN CLASS LIST QUEUES
		...1		$QGTWLMQ	"B'00010000'" $INWLM SPECIFIED ON $QGET RUN WLM QUEUES
0	(0) X'1A4'		0	$QWALEN	"420" Length of the $QGET wrkarea

Table 202. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		$QMOD/$QADD macro option flags			
		1...		$LVALONE	"B'10000000'" Don't reset job busy bits
		.1..		$QSNPCHG	"B'01000000'" Disallow phase change
		..1.		$NPRICHG	"B'00100000'" Do not change priority
		...1		$QMDKEEP	"B'00010000'" Keep artificial JQE
		.... 1...		$QADJQA	"B'00001000'" Prototype JQA passed (QADD)
		.... .1..		$QMDNX51	"B'00000100'" Bypass exit 51 call (QMOD)
		.... ..1.		$QMDHJCT	"B'00000010'" JCT address passed (QMOD)
		1		$QMDOVAL	"B'00000001'" Old values for class and/or service class passed (QMOD)
		Reason code for TIMERROR $DISTERRs (R9 setting)			
0	(0) X'1'		0	$TIMECLOC_JQECAT_1	"1" Error found at JQECAT entry
0	(0) X'2'		0	$TIMECLOC_JQECAT_2	"2" Error found after JQECAT machinations
0	(0) X'3'		0	$TIMECLOC_XIDJOB	"3" Error found in XIDJOB
0	(0) X'4'		0	$TIMECLOC_TIMECLOC	"4" Error found in TIMECLOC
		RACROUTE reason codes			
		..1. .1..		RACDSECL	"X'24'" SECLABEL NOT ACCESSIBLE
		RJOBONMG options equates			
0	(0) X'0'		0	RJOBNOFF	"0" Msg not allowed for Offload
0	(0) X'1'		0	RJOBOFFL	"1" Msg allowed for Offload
		$SEAS macro FUNCODE values SEATABL (HASPNUC) entries			
0	(0) X'0'		0	$SEANJES	"0" NOT VALID FOR CODER=JES2
0	(0) X'1'		0	$SEAINIT	"$SEANJES+1" INITIALIZE SECURITY ENVIRON
0	(0) X'2'		0	$SEAVERC	"$SEAINIT+1" SECURITY ENVIRON CREATE
0	(0) X'3'		0	$SEAVERD	"$SEAVERC+1" SECURITY ENVIRON DELETE
0	(0) X'4'		0	$SEAXTRT	"$SEAVERD+1" ENVIRON EXTRACT
0	(0) X'5'		0	$SEASIC	"$SEAXTRT+1" SYSIN DATA SET CREATE
0	(0) X'6'		0	$SEASOC	"$SEASIC+1" SYSOUT DATA SET CREATE
0	(0) X'7'		0	$SEASIP	"$SEASOC+1" SYSIN DATA SET OPEN
0	(0) X'8'		0	$SEASOP	"$SEASIP+1" SYSOUT DATA SET OPEN
0	(0) X'9'		0	$SEAPSO	"$SEASOP+1" PSO DATA SET OPEN
0	(0) X'A'		0	$SEAPSS	"$SEAPSO+1" PSO DATA SET SELECT
0	(0) X'B'		0	$SEATCAN	"$SEAPSS+1" TSO CANCEL
0	(0) X'C'		0	$SEACMD	"$SEATCAN+1" COMMAND AUTHORIZATION

Table 202. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'D'	0	$SEAPRT	"$SEACMD+1" PRINTER DATA SET SELECT
0	(0)	X'E'	0	$SEADEL	"$SEAPRT+1" DATA SET PURGE
0	(0)	X'F'	0	$SEANUSE	"$SEADEL+1" NOTIFY USER TOKEN EXTRACT
0	(0)	X'10'	0	$SEATBLD	"$SEANUSE+1" TOKEN BUILD
0	(0)	X'11'	0	$SEARJES	"$SEATBLD+1" RJE SIGNON
0	(0)	X'12'	0	$SEADEVA	"$SEARJES+1" DEVICE AUTHORIZATION
0	(0)	X'13'	0	$SEANJEA	"$SEADEVA+1" NJE SYSOUT DS AUTHORIZATION
0	(0)	X'14'	0	$SEAREXT	"$SEANJEA+1" REVERIFY TOKEN EXTRACT
0	(0)	X'15'	0	$SEARRT	"$SEAREXT+1" RESERVED
0	(0)	X'16'	0	$SEANEWS	"$SEARRT+1" JESNEWS UPDATE AUTH CALL
0	(0)	X'17'	0	$SEANWBL	"$SEANEWS+1" JESNEWS TOKEN BUILD CALL
0	(0)	X'18'	0	$SEAVERS	"$SEANWBL+1" Subtask VERIFY (build ACEE)
0	(0)	X'19'	0	$SEAAUD	"$SEAVERS+1" Audit for job in error
0	(0)	X'1A'	0	$SEADCHK	"$SEAAUD+1" $DESTCHK AUTH call
0	(0)	X'1B'	0	$SEATSOC	"$SEADCHK+1" TRACE SYSOUT DS CREATE
0	(0)	X'1C'	0	$SEASSOC	"$SEATSOC+1" SYSTEM SYSOUT DS CREATE
0	(0)	X'1D'	0	$SEANSOC	"$SEASSOC+1" NEWS SYSOUT DS CREATE
0	(0)	X'1E'	0	$SEASOX	"$SEANSOC+1" SYSOUT XMIT/OFFLOAD
0	(0)	X'1F'	0	$SEANJEV	"$SEASOX+1" NJE/OFFLOAD SYSOUT VERIFYX
0	(0)	X'20'	0	$SEAJOX	"$SEANJEV+1" JOB XMIT/OFFLOAD
0	(0)	X'21'	0	$SEASPBC	"$SEAJOX+1" RESERVED
0	(0)	X'22'	0	$SEASPBO	"$SEASPBC+1" SPOOL BROWSE DATA SET OPEN
0	(0)	X'23'	0	$SEASFS	"$SEASPBO+1" Scheduler Service TOKNXTR
0	(0)	X'24'	0	$SEASSWM	"$SEASFS+1" SWM Modify ALTER AUTH
0	(0)	X'25'	0	$SEASAPI	"$SEASSWM+1" Sysout API
0	(0)	X'26'	0	$SEASCLA	"$SEASAPI+1" SECLABEL affinity extract
0	(0)	X'27'	0	$SEASCLE	"$SEASCLA+1" DCT SECLABEL extract
0	(0)	X'28'	0	$SEANSON	"$SEASCLE+1" NJE signon pw extract
0	(0)	X'29'	0	$SEADIRA	"$SEANSON+1" Seclabel dominance
0	(0)	X'2A'	0	$SEASPLR	"$SEADIRA+1" SPOOL I/O AUTH check
0	(0)	X'2B'	0	$SEAJCLS	"$SEASPLR+1" Job class AUTH check

Table 202. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		If you add a new FUNCODE here then be sure to update the following line accordingly. (and also update the SEATABL in HASPNUC and the 'Security Function Table' documentation for exits 36 and 37 in the JES2 Exits book)			
0	(0)	X'2B'	0	$SEAUSED	"$SEAJCLS" Highest FUNCODE used
0	(0)	X'FF'	0	$SEAMAX	"255" MAXIMUM SEAS FUNCODE
		$SEAS return code values			
0	(0)	X'0'	0	$SEAOK	"0" $SEAS RC=0
0	(0)	X'4'	0	$SEAND	"4" $SEAS RC=4
0	(0)	X'8'	0	$SEAFAIL	"8" $SEAS RC=8
0	(0)	X'C'	0	$SEANSTO	"12" $SEAS RC=12
		$STMTLOG macro option flags			
		1...		$STMT	"B'10000000'" STATEMENT SHOULD BE LOGGED
		.1..		$STMTCOM	"B'01000000'" DIAGNOSTIC IS A COMMENT
		..1.		$STMTWAR	"B'00100000'" DIAGNOSTIC IS A WARNING
		...1		$STMTERR	"B'00010000'" DIAGNOSTIC IS AN ERROR MESSAGE
		$TTIMER macro option flags			
		1...		$TIMETST	"B'10000000'" TEST TIME INTERVAL
		$WSSCAN device type indicator			
		1...		$WSFRJE	"B'10000000'" WS PROCESSING FOR REMOTE
		.1..		$WSJSREC	"B'01000000'" WS PROCESSING FOR RECEIVERS
		High order bit on			
		1...		$EQUHBIT	"B'10000000'" TURN ON HIGH ORDER BIT
		AUDSAF LOGST indicator			
0	(0)	X'4'	0	$AUDIO	"4" I/O error during purge
0	(0)	X'8'	0	$AUDLOST	"8" Lost output during restart
0	(0)	X'C'	0	$AUDDEL	"12" Job deleted during restart
0	(0)	X'10'	0	$AUDMOVE	"16" Job lost during spool move
0	(0)	X'14'	0	$AUDINER	"20" Job had error in input
0	(0)	X'18'	0	$AUDSUB	"24" Subtask error during purge
		Reason Code Equates for Main Task $ERROR calls			
0	(0)	X'4'	0	$L01R004	"4" Message too long for command area.
		Reason code equates for $ERROR (0F7 ABENDs) in the user environment			
0	(0)	X'0'	0	$ERRC000	"0" UNABLE TO CANCEL ESTAE
0	(0)	X'4'	0	$ERRC004	"4" ATTEMPT MADE TO LOCK TWO SJBS AT ONCE

Table 202. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'8'	0	$ERRC008	"8" INVALID/UNCLAIMED CELL ADDRESS
0	(0)	X'C'	0	$ERRC012	"12" DISCONNECT DENIED - GETMAIN FAILURE
0	(0)	X'10'	0	$ERRC016	"16" UNABLE TO WRITE FINAL IOT CHAIN
0	(0)	X'1C'	0	$ERRC028	"28" ASXBJSVT DOES NOT CONTAIN FSVT ADDRES
0	(0)	X'20'	0	$ERRC032	"32" UNABLE TO WRITE JCT
0	(0)	X'24'	0	$ERRC036	"36" $SVJ LOCK REQUEST FAILED
0	(0)	X'28'	0	$ERRC040	"40" UNABLE TO OBTAIN SJB LOCK
0	(0)	X'4C'	0	$ERRC076	"76" HASCTP SELECT/TERMINATE FAILURE
0	(0)	X'50'	0	$ERRC080	"80" CALLER ADDRESS ARRAY FILLED UP
0	(0)	X'54'	0	$ERRC084	"84" NO ENTRY IN CALLER ADDRESS ARRAY
0	(0)	X'58'	0	$ERRC088	"88" $RETURN - SAVE AREA HAS IMPROPER FORM
0	(0)	X'5C'	0	$ERRC092	"92" ENTERED $SSIEND WITH AN OUTSTANDING $SAVE
0	(0)	X'60'	0	$ERRC096	"96" SJF SCANSWB FAILED IN ALLOC
0	(0)	X'64'	0	$ERRC100	"100" INVALID GROUPING STRINGS OBJECT
0	(0)	X'68'	0	$ERRC104	"104" SWBTUREQ RETRIEVE SERVICE FAILED IN $GASSIGN SERVICE
0	(0)	X'6C'	0	$ERRC108	"108" INVALID STORAGE BLOCK POINTER IN GROUPING STRINGS OBJECT
0	(0)	X'70'	0	$ERRC112	"112" SJF KEYLIST SERVICE FAILED IN GROUPING KEYS SERVICE
0	(0)	X'74'	0	$ERRC116	"116" UNEXPECTED NUMBER OF SWBIT BUFFERS PASSED TO GRPASGN ROUTINE
0	(0)	X'78'	0	$ERRC120	"120" ENTERED $SSIEND WITH $ESTAEs OUTSTANDING
0	(0)	X'7C'	0	$ERRC124	"124" SJB UNLOCK NOT BY LOCKHOLDER
0	(0)	X'80'	0	$ERRC128	"128" NOT ALL PROTECTED BUFFERS HAVE BEEN $FREEBUFed
0	(0)	X'84'	0	$ERRC132	"132" ATTEMPTED TO FREE A TRE IN THE $GETHP SERVICE
0	(0)	X'88'	0	$ERRC136	"136" LOOP IN THE CPOOL CHAIN IN THE $CRETSAV SERVICE
0	(0)	X'8C'	0	$ERRC140	"140" TRIED TO INITIALIZE TRE WHEN CELL IS NOT A TRE IN GETTRE
0	(0)	X'90'	0	$ERRC144	"144" ERROR RETURN FROM MVS ENQ DURING TRACE PROCESSING
0	(0)	X'94'	0	$ERRC148	"148" Truncate protected buffer failed in HFCLTRNC
0	(0)	X'98'	0	$ERRC152	"152" ERROR DETECTED BY HASCRQUE
0	(0)	X'9C'	0	$ERRC156	"156" INCORRECT $$POST RESOURCE
0	(0)	X'A0'	0	$ERRC160	"160" Reserved

Table 202. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'A4'	0	$ERRC164	"164" An attempt was made to ENQ on the SVJ lock, but an unexpected RC was received
0	(0)	X'A8'	0	$ERRC168	"168" The SJB queue in the field SJBQUEUE does not point to a valid queue.
0	(0)	X'AC'	0	$ERRC172	"172" The SJB queue in the field SJBQUEUE does not point to a valid queue.
0	(0)	X'B0'	0	$ERRC176	"176" The SJB is not on the queue pointed to by SJBQUEUE.
0	(0)	X'B4'	0	$ERRC180	"180" The SJB is not on the queue
0	(0)	X'B8'	0	$ERRC184	"184" Channel end appendage requested re-drive after an unrecoverable error
0	(0)	X'BC'	0	$ERRC188	"188" An error was found during SJB rebuild processing.
0	(0)	X'C0'	0	$ERRC192	"192" A caller of $SJBRQ did not hold the SVJ lock.
0	(0)	X'C4'	0	$ERRC196	"196" SAPI CPOOL query failed
0	(0)	X'C8'	0	$ERRC200	"200" Fields that should be zeros in the SSS2 SSOB extension are not
0	(0)	X'CC'	0	$ERRC204	"204" SJF Request error on GETDS/SAPI request
0	(0)	X'D4'	0	$ERRC212	"212" $CPOOL ACTION=GET failed to get specified cell
0	(0)	X'D8'	0	$ERRC216	"216" $CPOOL ACTION=FREE failed to free specified cell
0	(0)	X'E0'	0	$ERRC224	"224" $XMPOST parm list not valid
0	(0)	X'E4'	0	$ERRC228	"228" FIFOENQ circular queue
0	(0)	X'E8'	0	$ERRC232	"232" SJB memory not available
0	(0)	X'EC'	0	$ERRC236	"236" $SUBIT called in incorrect address space
0	(0)	X'F0'	0	$ERRC240	"240" Unrecognized buffer type queued to NJE server
0	(0)	X'F4'	0	$ERRC244	"244" CALLRTM of NETSRV main task by JES2 subtask
0	(0)	X'F8'	0	$ERRC248	"248" Incorrect caller of $GETTBUF/$FRETBUF services
0	(0)	X'FC'	0	$ERRC252	"252" $GETABLE Internal error
0	(0)	X'100'	0	$ERRC256	"256" NJEX early init routine entered multiple times
0	(0)	X'104'	0	$ERRC260	"260" Notify message length error
0	(0)	X'108'	0	$ERRC264	"264" Unauthorized ECB detected
0	(0)	X'10C'	0	$ERRC268	"268" JOBVALM Parm list error
0	(0)	X'110'	0	$ERRC272	"272" JOBVALM TOKEN type error
0	(0)	X'114'	0	$ERRC276	"276" CJOBVFY NJE header error
0	(0)	X'118'	0	$ERRC280	"280" SPOOL offload section
0	(0)	X'11C'	0	$ERRC284	"284" TBLOB ENQ error
0	(0)	X'120'	0	$ERRC288	"288" CPOOL ENQ error

Table 202. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'124'	0	$ERRC292	"292" CPOOL - Storage Debug check failed
0	(0)	X'128'	0	$ERRC296	"296" CPOOL - Storage overlay detected
0	(0)	X'12C'	0	$ERRC300	"300" $NSSTLOK environ error
0	(0)	X'130'	0	$ERRC304	"304" Attempt to free subpool 0
0	(0)	X'134'	0	$ERRC308	"308" Unexpected length of 0
0	(0)	X'13C'	0	$ERRC316	"316" Multi system data retrieval JESXCF failure
0	(0)	X'140'	0	$ERRC320	"320" Recursive call in SSI 80
0	(0)	X'144'	0	$ERRC324	"324" Unexpected Error in Remote Health Checker Task
0	(0)	X'148'	0	$ERRC328	"328" NDH pointer is null
0	(0)	X'14C'	0	$ERRC332	"332" Invalid PDDB size
0	(0)	X'150'	0	$ERRC336	"336" $DSERV bad DSERV pointer
0	(0)	X'154'	0	$ERRC340	"340" $SCAN error detected
0	(0)	X'158'	0	$ERRC344	"344" Invalid CDCT device type
0	(0)	X'15C'	0	$ERRC348	"348" Reserved
0	(0)	X'160'	0	$ERRC352	"352" SJB lock not held for SPIN
0	(0)	X'164'	0	$ERRC356	"356" $MGIOMSG - Incorrect channel command.
0	(0)	X'168'	0	$ERRC360	"360" Bitmap problem during SIGIOU processing.
0	(0)	X'16C'	0	$ERRC364	"364" $BITMAP - boundary error.
0	(0)	X'170'	0	$ERRC368	"368" CATREAD - Expected group CAT not found.
0	(0)	X'174'	0	$ERRC372	"372" CATTREE - Rotate right - incorrect balance factor
0	(0)	X'178'	0	$ERRC376	"376" DSNMSRV - bad character in dataset name
0	(0)	X'17C'	0	$ERRC380	"380" $SSIBEGN HASB SJB Q error
0	(0)	X'180'	0	$ERRC384	"384" $SJBFIND HASB SJB Q error
0	(0)	X'184'	0	$ERRC388	"388" CATREAD - unexpected TYPE or CLASS value.
0	(0)	X'188'	0	$ERRC392	"392" CATREAD - Unexpected CAT Cache element.
0	(0)	X'18C'	0	$ERRC396	"396" CATREAD - Group name mismatch.
0	(0)	X'190'	0	$ERRC400	"400" CATREAD - Unexpected Pseudo CAT.
0	(0)	X'194'	0	$ERRC404	"404" CATREAD - Error during CAT cache build.
0	(0)	X'198'	0	$ERRC408	"408" CATREAD - Cache expected but not present.
0	(0)	X'19C'	0	$ERRC412	"412" CATTREE - Rotate DBL right - incorrect balance factor
0	(0)	X'1A0'	0	$ERRC416	"416" CATTREE - Rotate left - incorrect balance factor
0	(0)	X'1A4'	0	$ERRC420	"420" CATTREE - Rotate DBL left - incorrect balance factor
0	(0)	X'1A8'	0	$ERRC424	"424" SJMPRJ2 - $JQESERV request count mismatch
0	(0)	X'1AC'	0	$ERRC428	"428" FRETRE - attempt to free TRE not for current TCB

Table 202. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'1B0'	0	$ERRC432	"432" CIMAIN - CICB address not valid
0	(0)	X'1B4'	0	$ERRC436	"436" SSI CLOSE - SDB lock not available
0	(0)	X'1B8'	0	$ERRC440	"440" PROCJZDN - Incorrect Operation type.
0	(0)	X'1BC'	0	$ERRC444	"444" PROCJZDN - ZJC free chain error. Free chain does not match free count.
0	(0)	X'1C0'	0	$ERRC448	"448" PROCJZDN - Checkpoint queues not owned.
0	(0)	X'1C4'	0	$ERRC452	"452" PROCJZDN - checkpointed ZOD not valid.
0	(0)	X'1C8'	0	$ERRC456	"456" PROCJZDN - Input object is not a ZOD.
0	(0)	X'1CC'	0	$ERRC460	"460" PROCJZDN - Incorrect operation code.
0	(0)	X'1D0'	0	$ERRC464	"464" PROCJZDN - Unaccounted character code.
0	(0)	X'1D4'	0	$ERRC468	"468" $PGSRVC - Attempt to issue $PGSRVC to address 0
0	(0)	X'1D8'	0	$ERRC472	"472" Jobgroup logging subtask JESXCF failure
0	(0)	X'1DC'	0	$ERRC476	"476" CATREAD - Zero DSERV address passed
Reason code equates for S1E0 abends.					
0	(0)	X'4'	0	$1E0C004	"4" Unauthorized caller for authorized only SSI
0	(0)	X'8'	0	$1E0C008	"8" Caller cannot access passed data area
0	(0)	X'C'	0	$1E0C012	"12" Improper SSI call setup
0	(0)	X'10'	0	$1E0C016	"16" Invalid input
Error type equates for S1E0 abends (located in R9)					
0	(0)	X'1'	0	$1E0ET01	"1" Invalid SSCT ($1E0C012)
0	(0)	X'2'	0	$1E0ET02	"2" Invalid function code ($1E0C012)
0	(0)	X'3'	0	$1E0ET03	"3" Function code unsupported ($1E0C012)
0	(0)	X'4'	0	$1E0ET04	"4" No routine address ($1E0C012)
0	(0)	X'5'	0	$1E0ET05	"5" Authorized only allowed ($1E0C004)
0	(0)	X'6'	0	$1E0ET06	"6" Authorized subfunction only allowed (SSI 71) ($1E0C004)
SAPI specific error types.					
0	(0)	X'7'	0	$1E0ET07	"7" CPOOL QCELL failed ($1E0C016)
0	(0)	X'8'	0	$1E0ET08	"8" Non-zero MVS CPOOL ret code ($1E0C016)
0	(0)	X'9'	0	$1E0ET09	"9" Cell not allocated ($1E0C016)

Table 202. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'A'	0	$1E0ET10	"10" SAPID for different address space ($1E0C016)
0	(0)	X'B'	0	$1E0ET11	"11" Terminated SAPID ($1E0C016)
0	(0)	X'C'	0	$1E0ET12	"12" Owning thread not us ($1E0C016)
0	(0)	X'D'	0	$1E0ET13	"13" Owning TCB not us ($1E0C016)
		Equates for Debug option Flags ($DEBGOPS and $DEBGOP2) in the HCT. These equates are moved here because of the need of Storage Debug Flag in CPOOL.			
		1...		$DBGBERT	"B'10000000'" BERT debug support
		.1..		$DBGCKPT	"B'01000000'" CKPT debug support
		..1.		$DBGVERS	"B'00100000'" VERSION debug support
		...1		$DBGVERB	"B'00010000'" Verbose messaging requested
		.... 1...		$DBGSTRG	"B'00001000'" STORAGE debug support
		.... .1..		$DBGMISC	"B'00000100'" MISC debug support (Miscellaneous)
		.... ..1.		$DBGSYMR	"B'00000010'" SYMREC debug option
		1		$DBGSAF	"B'00000001'" SECURITY debug option
		111. 1111		$DGB1ONF	"B'11101111'" Flag 1 all mask
		$DEBGOP2 flags (not shadowed in HCCT)			
		1...		$DBGXCFS	"B'10000000'" XCF member status debug
		.1..		$DBGTIME	"B'01000000'" TIMECLOCK Debug option
		..1.		$DGBCKPV	"B'00100000'" CKPT queue verification
		.11.		$DGB2ONF	"B'01100000'" Flag 2 all mask
		Reason Codes for $CF1 Abends detected by assembler code. Note that the reason codes detected by PLX code are defined in $HASPEQP.			
0	(0)	X'4'	0	$CF1R004	"4" Could not read track 1
0	(0)	X'8'	0	$CF1R008	"8" Could not format ckpt
0	(0)	X'C'	0	$CF1R012	"12" Could not release lock
		Reason codes 16-32 are defined in $HASPEQP			
0	(0)	X'24'	0	$CF1R036	"36" Could not write track 1
		Reason Code Equates for CONVCON check of out-of-line area			
0	(0)	X'0'	0	$AIDOK	"0" Area ID is syntactically valid
0	(0)	X'4'	0	$AIDUSED	"4" Not possible
0	(0)	X'8'	0	$AIDUTRK	"8" Not possible
0	(0)	X'C'	0	$AIDNDEF	"12" Area ID not syntactically valid

Table 202. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'10'	0	$AIDNVAL	"16" Area ID not specified correctly
		ABEND 068 reason codes CKPT versions subtask ABEND codes (see HASPCKVR)			
0	(0)	BITSTRING	0	AB68R104	"X'104'" Data integrity error
0	(0)	BITSTRING	0	AB68R108	"X'108'" DEBUG option detected error
		General purpose subtask ABEND codes			
0	(0)	BITSTRING	0	AB68R200	"X'200'" Invalid SQD queued
		NPM subtask ABEND codes			
0	(0)	BITSTRING	0	AB68R300	"X'300'" Error processing NATGET
0	(0)	BITSTRING	0	AB68R304	"X'304'" Bad work queue detected
		SMF subtask ABEND codes			
0	(0)	BITSTRING	0	AB68R400	"X'400'" $SMFBUSY queue corrupted
		CKPT on DASD subtask ABEND codes			
0	(0)	BITSTRING	0	AB68R500	"X'500'" Unable to find UCB
		CKPT on CF subtask ABEND codes (See $CFCON)			
0	(0)	BITSTRING	0	AB68R600	"X'600'" HASPCFE eyecatcher error
0	(0)	BITSTRING	0	AB68R604	"X'604'" HASPCFFC CF write timeout
0	(0)	BITSTRING	0	AB68R608	"X'608'" HASPCFRD CFRDONE unexp RC
0	(0)	BITSTRING	0	AB68R60C	"X'60C'" HASPCFWR unexpected RC
0	(0)	BITSTRING	0	AB68R610	"X'610'" HASPCFLE bad LEID value
0	(0)	BITSTRING	0	AB68R614	"X'614'" HASPCFR2 unexpected RC
0	(0)	BITSTRING	0	AB68R618	"X'618'" HASPCFT1 unexpected RC
0	(0)	BITSTRING	0	AB68R61C	"X'61C'" HASPCFT1 unexpected RC
0	(0)	BITSTRING	0	AB68R620	"X'620'" HASPCFFC Unexpected RC
		SPOOL migration subtask ABEND codes			
0	(0)	BITSTRING	0	AB68R700	"X'700'" Bad migrator request
0	(0)	BITSTRING	0	AB68R704	"X'704'" Bad migrator req phase 1
0	(0)	BITSTRING	0	AB68R708	"X'708'" Bad migrator req phase 2
0	(0)	BITSTRING	0	AB68R70C	"X'70C'" Unexpected RC from IXZXIXMC
0	(0)	BITSTRING	0	AB68R710	"X'710'" Bad migrator req phase can
0	(0)	BITSTRING	0	AB68R714	"X'714'" Unexpected RC from IXZXIXRM
0	(0)	BITSTRING	0	AB68R718	"X'718'" Unexpected RC from IXZXIXRM
0	(0)	BITSTRING	0	AB68R71C	"X'71C'" Unexpected RC from IXZXIXAC
0	(0)	BITSTRING	0	AB68R720	"X'720'" Unexpected RC from IXZXIXAC

Table 202. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Converter subtask ABEND codes			
0	(0)	BITSTRING	0	AB68R800	"X'800'" Error reading JSMT
0	(0)	BITSTRING	0	AB68R801	"X'801'" Error writing JSMT
		JOBVALM ABEND codes			
0	(0)	BITSTRING	0	AB68R900	"X'900'" Cannot locate security tkn
		ABEND 02A reason codes			
		.... .1..		AB02AR04	"X'04'" Control block error
		.... 1...		AB02AR08	"X'08'" Bad UBF or HAMSVC
		.... 11..		AB02AR0C	"X'0C'" Logic error
		...1		AB02AR10	"X'10'" SETPRT error
		...1 .1..		AB02AR14	"X'14'" Bad BFDLOC value
		...1 1...		AB02AR18	"X'18'" Reserved
		...1 11..		AB02AR1C	"X'1C'" INTRDR CB validation error
		..1.		AB02AR20	"X'20'" Serialization failure for int. reader PUT/ENDREQ
		..1. .1..		AB02AR24	"X'24'" Internal logic error for SVCIRD
		..1. 1...		AB02AR28	"X'28'" Non-valid M detected
		..1. 11..		AB02AR2C	"X'2C'" Invalid SCR passed on PUT
		..11		AB02AR30	"X'30'" Looping condition detected in HPUTFULL
		..11 .1..		AB02AR34	"X'34'" Looping condition detected in HAMFIX
		..11 1...		AB02AR38	"X'38'" Loop detected in HAMSIO
		..11 11..		AB02AR3C	"X'3C'" HCPBUFND detected error condition
		.1..		AB02AR40	"X'40'" Unauthorized use of authorized RPL option
		.1.. .1..		AB02AR44	"X'44'" Internal error in HAMFIX
		.1.. 1...		AB02AR48	"X'48'" Internal error in HCEPUT
		.1.. 11..		AB02AR4C	"X'4C'" Reserved
		.1.1		AB02AR50	"X'50'" Active I/O after cleanup
		.1.1 .1..		AB02AR54	"X'54'" BAT chain corrupted
		.1.1 1...		AB02AR58	"X'58'" Reserved
		.1.1 11..		AB02AR5C	"X'5C'" Corrupted Job Symbol Table
		.11.		AB02AR60	"X'60'" Symbol substitution error
		.11. .1..		AB02AR64	"X'64'" Substitution logging error
		.11. 1...		AB02AR68	"X'68'" No storage for BATs
		Reason code equates for $ERROR $MG0 abends. Migration specific - Migrator DTE was not found.			
0	(0)	X'1'	0	$MG0C001	"1" DADMSET2 subroutine
0	(0)	X'2'	0	$MG0C002	"2" DADMCLU2 subroutine
0	(0)	X'3'	0	$MG0C003	"3" DADMSET3 subroutine
0	(0)	X'4'	0	$MG0C004	"4" DADMCLU3 subroutine

Table 202. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'5'	0	$MG0C005	"5" DADMPHA1 subroutine
0	(0)	X'6'	0	$MG0C006	"6" DADMPHA2 subroutine
0	(0)	X'7'	0	$MG0C007	"7" DADMCLUM subroutine
0	(0)	X'8'	0	$MG0C008	"8" SETEINFO subroutine
0	(0)	X'9'	0	$MG0C009	"9" DADMCLU1 subroutine
0	(0)	X'A'	0	$MG0C010	"10" DADDEB subroutine
		Reason code equates for $ERROR $MG1 abends. Migration specific - Migrator assistant DTE not found.			
0	(0)	X'B'	0	$MG1C011	"11" DADMSET3 subroutine
0	(0)	X'C'	0	$MG1C012	"12" DADDEB subr - location #1
		JOB TRANSMITTER MISCELLANEOUS EQUATES			
		11..		SRCBJH	"X'C0'" JOB HEADER SRCB
		111.		SRCBDSH	"X'E0'" DATA SET HEADER SRCB
		11.1		SRCBJT	"X'D0'" JOB TRAILER SRCB
		Reason code equates for HASP896 message issued on failures during DAS verification in NGVWORKQ routine.			
		1		WORKQ01	"X'01'" DASVOLID zero
		.... ..1.		WORKQ02	"X'02'" DASVOLID, RCDVOLID mismatch
		11		WORKQ03	"X'03'" Volume wrongly on workq?
		.... .1..		WORKQ04	"X'04'" DASFLAG, transltd. mismatch
		.... .1.1		WORKQ05	"X'05'" TRT ok, DASFLAG2 drn/hlt
		...1 ...1		WORKQ11	"X'11'" DAS, RECY flag1 mismatch
		...1 ..1.		WORKQ12	"X'12'" DAS, RECY flag2 mismatch
		...1 ..11		WORKQ13	"X'13'" DAS, RECY flag3 mismatch
		...1 .1..		WORKQ14	"X'14'" DAS, RECY flag4 mismatch
		...1 .1.1		WORKQ15	"X'15'" DAS, RECY flag5 mismatch
		...1 .11.		WORKQ16	"X'16'" DAS, RECY flag6 mismatch
		...1 .111		WORKQ17	"X'17'" DAS, RECY flag7 mismatch
		...1 1...		WORKQ18	"X'18'" DAS, RECY flag8 mismatch
		...1 1.1.		WORKQ1A	"X'1A'" DAS, RECY flagA mismatch
		..1. ...1		WORKQ21	"X'21'" DASALOCS, RCDALOCS not equ
		..1. ..1.		WORKQ22	"X'22'" DONE mask not correct on a starting volume
		..1. ..11		WORKQ23	"X'23'" DONE mask not correct on a draining/halting volume
		..1. .1..		WORKQ24	"X'24'" DASERCDE>0,DASERROR=0 mismt
		..1. .1.1		WORKQ25	"X'25'" DASERCDE=0,DASERROR>0 mismt
		..1. .11.		WORKQ26	"X'26'" DASERCDE for member = 0
		..1. .111		WORKQ27	"X'27'" DASERCDE for member > max
		..1. 1...		WORKQ28	"X'28'" DASERCDE for member > 0
		Reason code equates for HASP896 message issued on failures during DAS verification in NGVTRAKQ routine.			

Table 202. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1.. ...1		TRAKQ41	"X'41'" DASVOLID zero
		.1.. ..1.		TRAKQ42	"X'42'" DASVOLID, RCDVOLID mismatch
		.1.. ..11		TRAKQ43	"X'43'" DAS not marked as in TGM
		.1.. .1..		TRAKQ44	"X'44'" DASALOCS, RCDALOCS mismatch
		.1.. .1.1		TRAKQ45	"X'45'" Mapped vol, membr allocated
		.1.. .11.		TRAKQ46	"X'46'" Unallocated membr not inact
		.1.. .111		TRAKQ47	"X'47'" DASFLAG, transltd. mismatch
		.1.. 1...		TRAKQ48	"X'48'" No status flags set on active volume
		.1.. 1..1		TRAKQ49	"X'49'" No status flags set on inactive volume
		.1.. 1.1.		TRAKQ4A	"X'4A'" Draining and halting volume
		.1.1 ...1		TRAKQ51	"X'51'" DAS, RECY flag1 mismatch
		.1.1 ..1.		TRAKQ52	"X'52'" DAS, RECY flag2 mismatch
		.1.1 ..11		TRAKQ53	"X'53'" DAS, RECY flag3 mismatch
		.1.1 .1..		TRAKQ54	"X'54'" DAS, RECY flag4 mismatch
		.1.1 .1.1		TRAKQ55	"X'55'" DAS, RECY flag5 mismatch
		.1.1 .11.		TRAKQ56	"X'56'" DAS, RECY flag6 mismatch
		.1.1 .111		TRAKQ57	"X'57'" DAS, RECY flag7 mismatch
		.1.1 1...		TRAKQ58	"X'58'" DAS, RECY flag8 mismatch
		.1.1 1.1.		TRAKQ5A	"X'5A'" DAS, RECY flagA mismatch
		.11. ...1		TRAKQ61	"X'61'" DASERCDE>0,DASERROR=0 mismt
		.11. ..1.		TRAKQ62	"X'62'" DASERCDE=0,DASERROR>0 mismt
		.11. ..11		TRAKQ63	"X'63'" DASERCDE for member = 0
		.11. .1..		TRAKQ64	"X'64'" DASERCDE for member > max
		.11. .1.1		TRAKQ65	"X'65'" DASERCDE for member > 0
		Reason code equates for HASP896 message issued on failures during DAS verification in NGVEXTD routine.			
		1... ...1		EXTDQ81	"X'81'" Recs/track mismatch
		1... ..1.		EXTDQ82	"X'82'" Min tcelsiz mismatch
		1... ..11		EXTDQ83	"X'83'" TG size mismatch
		1... .1..		EXTDQ84	"X'84'" Trk/cyl value mismatch
		1... .1.1		EXTDQ85	"X'85'" Trk/grp value mismatch
		1... .11.		EXTDQ86	"X'86'" TGM offset mismatch
		1... .111		EXTDQ87	"X'87'" First track mismatch
		1... 1...		EXTDQ88	"X'88'" Low track mismatch
		1... 1..1		EXTDQ89	"X'89'" High track mismatch
		1... 1.1.		EXTDQ8A	"X'8A'" TG value mismatch
		1... 1.11		EXTDQ8B	"X'8B'" DASMPSZ value mismatch
		1... 11..		EXTDQ8C	"X'8C'" Large DS TG value
		1... 11.1		EXTDQ8D	"X'8D'" Lrg ds DASMPSZ val mismatch
		1..1 ...1		EXTDQ91	"X'91'" Offline volume error

Table 202. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		MISCELLANEOUS EQUATES			
0	(0)	X'7FFF'	0	MAXLRECL	"32767" Max logical record length
		1...		SRCBFLAG	"B'10000000'" FLAG BIT ALWAYS ON IN SRCB'S
		..11		SRCBCCTL	"B'00110000'" CARRIAGE CONTROL FLAGS
		..11		SRCBPAGE	"B'00110000'" PAGE CARRIAGR CONTROL FLAG
		..1.		SRCBANSI	"B'00100000'" ANSI CARRIAGE CONTROL
		...1		SRCBMCH	"B'00010000'" MACHINE CARRIAGE CONTROL
0	(0)	X'A0'	0	REGANSI	"SRCBFLAG+SRCBANSI" ANSI CARRIAGE CONTROL SRCB
		.... 11..		SRCBSPAN	"B'00001100'" SPANNED RECORD
		.... 1...		SRCB1ST	"B'00001000'" SPANNED FIRST SEGMENT
		.... .1..		SRCBMID	"B'00000100'" SPANNED MIDDLE SEGMENT
		.... 11..		SRCBLAST	"B'00001100'" SPANNED LAST SEGMENT
0	(0)	X'88'	0	SPAN1ST	"SRCBFLAG+SRCB1ST" SPANNED FIRST SEGMENT SRCB
0	(0)	X'84'	0	SPANMID	"SRCBFLAG+SRCBMID" SPANNED MIDDLE SEGMENT SRCB
0	(0)	X'8C'	0	SPANLAST	"SRCBFLAG+SRCBLAST" SPANNED LAST SEGMENT SRCB
0	(0)	X'3C'	0	XEQPHFWT	"60,4" Time that $PJES2 will wait until 1st HASP714 issued
0	(0)	X'1E'	0	XEQPHIWT	"30,4" Time that $PJES2 will wait between HASP714s
0	(0)	X'78'	0	XEQPHDWT	"120,4" Time that $PJES2 will wait before taking dump if no progress in AS termination
		DILBERT Settings			
		1		$DILINDR	"X'0001'" Dilbert routine called indirectly i.e. DWA processed "later"
		Equates for the system affinity token			
0	(0)	X'0'	0	$AFTMASK	"0,1" One byte portion of entire system affinity mask
0	(0)	X'1'	0	$AFTOFF	"1,2" Offset within complete mask of the one byte portion
0	(0)	X'3'	0	$AFTOKEN	"L'$AFTMASK+L'$AFTOFF" Length of a sysaff token
		Equates for IXLCONN error processing These equates are referenced in CFALOC (where they are set when the error conditions are detected) and in PRE536 (to convert the bit setting into more meaningful text).			

Table 202. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	BITSTRING	0	$CONER01	"B'10000000000000000000000'"
0	(0)	BITSTRING	0	$CONER02	"B'01000000000000000000000'"
0	(0)	BITSTRING	0	$CONER03	"B'00100000000000000000000'"
0	(0)	BITSTRING	0	$CONER04	"B'00010000000000000000000'"
0	(0)	BITSTRING	0	$CONER05	"B'00001000000000000000000'"
0	(0)	BITSTRING	0	$CONER06	"B'00000100000000000000000'"
0	(0)	BITSTRING	0	$CONER07	"B'00000010000000000000000'"
0	(0)	BITSTRING	0	$CONER08	"B'00000001000000000000000'"
0	(0)	BITSTRING	0	$CONER09	"B'00000000100000000000000'"
0	(0)	BITSTRING	0	$CONER10	"B'00000000010000000000000'"
0	(0)	BITSTRING	0	$CONER11	"B'00000000001000000000000'"
0	(0)	BITSTRING	0	$CONER12	"B'00000000000100000000000'"
0	(0)	BITSTRING	0	$CONER13	"B'00000000000010000000000'"
0	(0)	BITSTRING	0	$CONER14	"B'00000000000001000000000'"
		Equates for $SPIN reasons			
0	(0)	X'0'	0	$SPIN_OPERATOR	"0" Operator requested SPIN
0	(0)	X'4'	0	$SPIN_TIME	"4" Time threshold reached
0	(0)	X'8'	0	$SPIN_LINES	"8" Line threshold reached
0	(0)	X'C'	0	$SPIN_SEGMENT	"12" SEGMENT= reached
		NJE defaults			
0	(0)	X'AF'	0	$NJETCP_PORT	"175" Well-known port for VMNET
0	(0)	X'8CC'	0	$NJETCP_PORT_SSL	"2252" Well-known port for NJENET-SSL with secure sockets
		Equates for PLX Dynamic area CPOOLs			
0	(0)	X'14'	0	$PLXPCEL	"20" Primary cell count
0	(0)	X'14'	0	$PLXSCEL	"20" Secondary cell count
		General equates			
0	(0)	X'4'	0	$MTTRLEN	"4" Size of an MTTR
0	(0)	X'6'	0	$MQTRLEN	"6" Size of an MQTR
		JECL validity Equates. Each JECL verb (e.g. OUTPUT, JOBPARM, ROUTE) and a subset of the operands for some of the verbs will have equates here. The value of each equate will be 0-255. These equates will be used to index into a $JECMAX byte vector. The values at the point in the vector will be used to determine if the verb (or operand) is valid in its context. The name of each equate will be in the form: $JECvvoo where vv is the verb (see examples below) and oo is the operand for that verb Make sure that $JECMAX is always at least one greater than the highest index defined.			
0	(0)	X'0'	0	$JECDE	"0" DEL
0	(0)	X'1'	0	$JECEO	"1" EOF
0	(0)	X'2'	0	$JECPU	"2" PURGE
0	(0)	X'3'	0	$JECJP	"3" JOBPARM
0	(0)	X'4'	0	$JECMS	"4" MESSAGE
0	(0)	X'5'	0	$JECNA	"5" NETACCT

Table 202. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'6'	0	$JECNO	"6" NOTIFY
0	(0)	X'7'	0	$JECOU	"7" OUTPUT
0	(0)	X'8'	0	$JECPR	"8" PRIORITY
0	(0)	X'9'	0	$JECRO	"9" ROUTE
0	(0)	X'A'	0	$JECSC	"10" SCAN
0	(0)	X'B'	0	$JECSE	"11" SETUP
0	(0)	X'C'	0	$JECXQ	"12" XEQ
0	(0)	X'D'	0	$JECXM	"13" XMIT
0	(0)	X'E'	0	$JECNV	"14" Invalid JECL Statement
0	(0)	X'F'	0	$JECOC	"15" $ (operator command)
	JOBPARM operands				
0	(0)	X'1E'	0	$JECJPSA	"30" SYSAFF
0	(0)	X'1F'	0	$JECJPRE	"31" RESTART
	ROUTE operands				
0	(0)	X'C'	0	$JECROXQ	"$JECXQ" ROUTE XEQ equiv to XEQ
	JES3 JECL statement				
0	(0)	X'20'	0	$JEC3DS	"32" / DATASET
0	(0)	X'21'	0	$JEC3ES	"33" / ENDDATASET
0	(0)	X'22'	0	$JEC3EP	"34" / ENDPROCESS
0	(0)	X'23'	0	$JEC3FM	"35" / FORMAT
0	(0)	X'24'	0	$JEC3MN	"36" / MAIN
0	(0)	X'25'	0	$JEC3NT	"37" / NET
0	(0)	X'26'	0	$JEC3NA	"38" / NETACCT
0	(0)	X'27'	0	$JEC3OP	"39" / OPERATOR
0	(0)	X'28'	0	$JEC3PA	"40" / PAUSE
0	(0)	X'29'	0	$JEC3PR	"41" / PROCESS
0	(0)	X'2A'	0	$JEC3RT	"42" / ROUTE
	Update $JECMAX if the maximum index value changes. $JECMAX is one greater than the maximum index.				
0	(0)	X'2B'	0	$JECMAX	"43" Maximum index value
	Use the following equates in the vector elements to indicate whether a particular verb or operand is allowed (i.e. is "OK").				
0	(0)	X'0'	0	$JECOK	"0" Verb or Operand is OK
0	(0)	X'4'	0	$JECNOK	"4" Verb or Operand is not OK
	The following equates define offsets into the header area of the parameter list for the IPADDR processing routine HASJIDST in HASCSJFS.				
0	(0)	X'0'	0	IPOUTLEN	"0,2" Offset of output area len
0	(0)	X'2'	0	IPCALLER	"2,2" Offset of caller type
0	(0)	X'4'	0	IPWJOA	"4,4" Offset of JOA address
0	(0)	X'4'	0	IPNODE	"IPWJOA,8" Offset of input node name
0	(0)	X'4'	0	IPRETC	"IPWJOA,4" Offset of return code
0	(0)	X'C'	0	$IPUSER	"12,8" Offset of input userid
0	(0)	X'14'	0	IPEYE	"20,4" Offset of eye-catcher
0	(0)	X'18'	0	IPTUOUT	"24" Offset of TU output area

Table 202. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Checkpoint-related equates. $PRWTHSH and $PRWRATE are used by the KPRIMW routine in HASPCKPT to determine when a primary write is needed. The lower value ($PRWTHSH) is used after the READ2 phase, while the higher value ($PRWRATE) is used at all other times. The intent of the lower limit is to force a primary write at the beginning of the checkpoint cycle if we are getting close to the actual write limit, rather than waiting until we are in the middle of the checkpoint cycle.			
0	(0)	X'4'	0	$PRWTHSH	"4" READ2 primary write threshold
0	(0)	X'A'	0	$PRWRATE	"10" Primary write limit
		$MAX_MSTR_SIZE defines max size of a checkpoint master record for this release. (Actual size is a bit over 185 pages, but 192 pages is a nice round number - x'C0' hex.) See PL/X constant $MAX_MSTR_SIZE in $HASPEQP and Ckpt_MAX_LIST0_Pages in $CFCON. To determine max size of master record, cold start JES2 with SPOOLDEF SPOOLNUM=253. Then take ((CKWMAXRC $CTLBLEN) + ($CTLB-$MASTER) +4095)/ 4096 The result is the number of 4K pages to hold the max size master record.			
0	(0)	X'C0000'	0	$MAX_MSTR_SIZE	"(192*4096)" Max master record size
0	(0)	X'A'	0	$KITFUDG	"10" Max unknown KIT that IRDA can handle
		Job Correlator length equate			
0	(0)	X'40'	0	$JCORLEN	"64" Length of Job Correlator
		Standard pain unit used by the automatic checkpoint tuning			
0	(0)	X'64'	0	$PAINUNT	"100" Pain unit
		JES2 release management Equates In order to manage the Homogeneity/Heterogeneity of a JESplex, it is required that each JES2 deliverable (beginning with SP 5.1.0) have a non-zero monotonic increasing association. Each new combination of VRM (Version Release Modification) will have an equated value here.			
0	(0)	X'5'	0	$JES2510	"5" JES2 SP 5.1.0
0	(0)	X'A'	0	$JES2520	"10" JES2 SP 5.2.0
0	(0)	X'F'	0	$JES2110	"15" JES2 OS/390 release 1
0	(0)	X'14'	0	$JES2130	"20" JES2 OS/390 release 3
0	(0)	X'19'	0	$JES2240	"25" JES2 OS/390 release 4
0	(0)	X'1E'	0	$JES2250	"30" JES2 OS/390 release 5
0	(0)	X'23'	0	$JES2270	"35" JES2 OS/390 release 7
0	(0)	X'28'	0	$JES2280	"40" JES2 OS/390 release 8
0	(0)	X'2D'	0	$JES2210	"45" JES2 OS/390 release 10
0	(0)	X'32'	0	$JES2Z102	"50" JES2 z/OS 1.2
0	(0)	X'37'	0	$JES2Z104	"55" JES2 z/OS 1.4
0	(0)	X'3C'	0	$JES2Z105	"60" JES2 z/OS 1.5

Table 202. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'41'	0	$JES2Z107	"65" JES2 z/OS 1.7
0	(0)	X'46'	0	$JES2Z108	"70" JES2 z/OS 1.8
0	(0)	X'49'	0	$JES2Z109	"73" JES2 z/OS 1.9
0	(0)	X'4C'	0	$JES2Z110	"76" JES2 z/OS 1.10
0	(0)	X'4F'	0	$JES2Z111	"79" JES2 z/OS 1.11
0	(0)	X'52'	0	$JES2Z112	"82" JES2 z/OS 1.12
0	(0)	X'55'	0	$JES2Z113	"85" JES2 z/OS 1.13
0	(0)	X'58'	0	$JES2Z201	"88" JES2 z/OS 2.1
0	(0)	X'5B'	0	$JES2Z202	"91" JES2 z/OS 2.2
0	(0)	X'5E'	0	$JES2Z203	"94" JES2 z/OS 2.3
0	(0)	X'5E'	0	$JES2HI	"$JES2Z203" The highest compatible JES2 version

```
        JES2 product level / service level equates
        All product levels supported in multi-access spool
        with this release MUST have a $J2Pxxx equate
        defined. When a release is no longer supported
        in a MAS, its $J2Pxxx equate should be deleted
        so that obsolete $LEVEL invocations can be
        identified.
        These equates must be equal to the &J2PLVL
        global variable at that release level as defined
        in $MODULE/$HASPGBL.
        Releases that can not live with the current level
        in a MAS
          Dropped as of OS/390 Release 10
J2P510 EQU 24 JES2 SP 5.1.0
J2P520 EQU 25 JES2 SP 5.2.0
J2P110 EQU 26 JES2 OS/390 release 1
J2P130 EQU 27 JES2 OS/390 release 3
          Dropped as of z/OS 1.2
J2P240 EQU 28 JES2 OS/390 release 4
```

0	(0)	X'1D'	0	$J2P250	"29" JES2 OS/390 release 5

```
          Dropped as of z/OS 1.4
J2P270 EQU 30 JES2 OS/390 release 7
          Dropped as of z/OS 1.5
J2P280 EQU 31 JES2 OS/390 release 8
          Dropped as of z/OS 1.7
J2P210 EQU 32 JES2 OS/390 release 10
          Dropped as of z/OS 1.8
J2PZ102 EQU 33 JES2 z/OS 1.2
          Dropped as of z/OS 1.9
J2PZ104 EQU 34 JES2 z/OS 1.4
          Dropped as of z/OS 1.11
J2PZ105 EQU 35 JES2 z/OS 1.5
J2PZ107 EQU 36 JES2 z/OS 1.7
J2PZ108 EQU 37 JES2 z/OS 1.8
          Dropped as of z/OS 1.12
J2PZ109 EQU 38 JES2 z/OS 1.9
          Dropped as of z/OS 2.2
J2PZ110 EQU 39 JES2 z/OS 1.10
```

0	(0)	X'28'	0	$J2PZ111	"40" JES2 z/OS 1.11
0	(0)	X'29'	0	$J2PZ112	"41" JES2 z/OS 1.12

```
          Dropped as of z/OS 2.3
J2PZ113 EQU 42 JES2 z/OS 1.13
```

0	(0)	X'2B'	0	$J2PZ201	"43" JES2 z/OS 2.1
0	(0)	X'2C'	0	$J2PZ202	"44" JES2 z/OS 2.2

Table 202. Structure $HASPEQU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'2D'	0	$J2PZ203	"45" JES2 z/OS 2.3

Table 203. Cross Reference for $HASPEQU

Name	Offset	Hex Tag
$AFTMASK	0	0
$AFTOFF	0	1
$AFTOKEN	0	3
$AIDNDEF	0	C
$AIDNVAL	0	10
$AIDOK	0	0
$AIDUSED	0	4
$AIDUTRK	0	8
$ALMSGSW	0	40
$AUDDEL	0	C
$AUDINER	0	14
$AUDIO	0	4
$AUDLOST	0	8
$AUDMOVE	0	10
$AUDSUB	0	18
$BDYNATT	0	80
$BDYNDET	0	40
$CF1R004	0	4
$CF1R008	0	8
$CF1R012	0	C
$CF1R036	0	24
$CHECINH	0	80
$CHECNWA	0	40
$CHECPST	0	20
$CKPAMWS	0	80
$CKPBLDQ	0	2
$CKPDAMG	0	8
$CKPGDEF	0	64
$CKPLOKB	0	20
$CKPSPVL	0	40
$CKPTIOA	0	10
$CKPTRSV	0	1
$CKRCKP1	0	20
$CKRCKP2	0	8
$CKRDEL	0	80
$CKRIOE	0	2
$CKRNDEL	0	40
$CKRNIOE	0	1
$CKRNKP1	0	10
$CKRNKP2	0	4
$CKRNSTR	0	40
$CKRNTOP	0	40
$CKRSTRT	0	80

Table 203. Cross Reference for $HASPEQU (continued)

Name	Offset	Hex Tag
$CKRTOP	0	80
$CMBDEF	0	64
$CMDDYNA	0	1
$CMDNORM	0	0
$CMDNUM	0	2
$COLD	0	4
$COLDFMT	0	1
$CONER01	0	800000
$CONER02	0	400000
$CONER03	0	200000
$CONER04	0	100000
$CONER05	0	80000
$CONER06	0	40000
$CONER07	0	20000
$CONER08	0	10000
$CONER09	0	8000
$CONER10	0	4000
$CONER11	0	2000
$CONER12	0	1000
$CONER13	0	800
$CONER14	0	400
$CONFIG	0	10
$CPNHBMX	0	190
$CPRIMXT	0	C8
$CSBID	0	0
$CSBPRFX	0	8
$CSBSPLN	0	4
$CS2PRFX	0	10
$DBGBERT	0	80
$DBGCKPT	0	40
$DBGMISC	0	4
$DBGSAF	0	1
$DBGSTRG	0	8
$DBGSYMR	0	2
$DBGTIME	0	40
$DBGVERB	0	10
$DBGVERS	0	20
$DBGXCFS	0	80
$DDYNATT	0	80
$DDYNFND	0	40
$DEFNZJC	0	3E8
$DGBCKPV	0	20
$DGB1ONF	0	EF
$DGB2ONF	0	60
$DILINDR	0	1
$DRABIT	0	1
$DRAINED	0	20
$DRALICE	0	2B
$DRALOC	0	2

Table 203. Cross Reference for $HASPEQU (continued)

Name	Offset	Hex Tag
$DRARMS	0	20
$DRBERTL	0	27
$DRBERTW	0	26
$DRBREG	0	28
$DRBUF	0	4
$DRCCAN	0	24
$DRCKPT	0	A
$DRCKPTL	0	C
$DRCKPTP	0	B
$DRCKPTW	0	D
$DRCMB	0	E
$DRCNVT	0	16
$DRDAWN	0	2E
$DRDILBERT	0	29
$DREOM	0	2C
$DRFSS	0	12
$DRGENL	0	1C
$DRHOMOG	0	21
$DRHOPE	0	17
$DRIMAGE	0	3
$DRIRCLEAN	0	2D
$DRJCMD	0	1E
$DRJOB	0	8
$DRJOE	0	6
$DRJOEI	0	2F
$DRJOT	0	5
$DRLOCK	0	10
$DRMAIN	0	11
$DRMFMT	0	23
$DRMLLM	0	0
$DRNEWS	0	1B
$DRPCETM	0	18
$DRPROCLIB	0	22
$DRPSO	0	13
$DRPURGE	0	14
$DRQUEL	0	8
$DRRMWT	0	19
$DRSMF	0	F
$DRSPI	0	25
$DRSPIN	0	1D
$DRSTAC	0	1A
$DRTIPS	0	15
$DRTOTAL	0	40
$DRTRACK	0	7
$DRUNIT	0	9
$DRWARM	0	1F
$DRXMITJOB	0	2A
$DTEPARM	0	80
$DTEPECB	0	40

Table 203. Cross Reference for $HASPEQU (continued)

Name	Offset	Hex Tag
$DTEPXCB	0	20
$DYNLOCF	0	1708
$DYNNEW	0	4
$ENFPPOL	0	F1
$ENTCADR	0	10
$ENTNAME	0	8
$ENTSDSC	0	10
$ENTSEXL	0	3A
$ENTSFG1	0	39
$ENTSNAM	0	8
$ENTSNUM	0	38
$ENTS1AU	0	80
$ENTYLEN	0	27
$EQUHBIT	0	80
$ERRCDE	0	0
$ERRC000	0	0
$ERRC004	0	4
$ERRC008	0	8
$ERRC012	0	C
$ERRC016	0	10
$ERRC028	0	1C
$ERRC032	0	20
$ERRC036	0	24
$ERRC040	0	28
$ERRC076	0	4C
$ERRC080	0	50
$ERRC084	0	54
$ERRC088	0	58
$ERRC092	0	5C
$ERRC096	0	60
$ERRC100	0	64
$ERRC104	0	68
$ERRC108	0	6C
$ERRC112	0	70
$ERRC116	0	74
$ERRC120	0	78
$ERRC124	0	7C
$ERRC128	0	80
$ERRC132	0	84
$ERRC136	0	88
$ERRC140	0	8C
$ERRC144	0	90
$ERRC148	0	94
$ERRC152	0	98
$ERRC156	0	9C
$ERRC160	0	A0
$ERRC164	0	A4
$ERRC168	0	A8
$ERRC172	0	AC

Table 203. Cross Reference for $HASPEQU (continued)

Name	Offset	Hex Tag
$ERRC176	0	B0
$ERRC180	0	B4
$ERRC184	0	B8
$ERRC188	0	BC
$ERRC192	0	C0
$ERRC196	0	C4
$ERRC200	0	C8
$ERRC204	0	CC
$ERRC212	0	D4
$ERRC216	0	D8
$ERRC224	0	E0
$ERRC228	0	E4
$ERRC232	0	E8
$ERRC236	0	EC
$ERRC240	0	F0
$ERRC244	0	F4
$ERRC248	0	F8
$ERRC252	0	FC
$ERRC256	0	100
$ERRC260	0	104
$ERRC264	0	108
$ERRC268	0	10C
$ERRC272	0	110
$ERRC276	0	114
$ERRC280	0	118
$ERRC284	0	11C
$ERRC288	0	120
$ERRC292	0	124
$ERRC296	0	128
$ERRC300	0	12C
$ERRC304	0	130
$ERRC308	0	134
$ERRC316	0	13C
$ERRC320	0	140
$ERRC324	0	144
$ERRC328	0	148
$ERRC332	0	14C
$ERRC336	0	150
$ERRC340	0	154
$ERRC344	0	158
$ERRC348	0	15C
$ERRC352	0	160
$ERRC356	0	164
$ERRC360	0	168
$ERRC364	0	16C
$ERRC368	0	170
$ERRC372	0	174
$ERRC376	0	178
$ERRC380	0	17C

Table 203. Cross Reference for $HASPEQU (continued)

Name	Offset	Hex Tag
$ERRC384	0	180
$ERRC388	0	184
$ERRC392	0	188
$ERRC396	0	18C
$ERRC400	0	190
$ERRC404	0	194
$ERRC408	0	198
$ERRC412	0	19C
$ERRC416	0	1A0
$ERRC420	0	1A4
$ERRC424	0	1A8
$ERRC428	0	1AC
$ERRC432	0	1B0
$ERRC436	0	1B4
$ERRC440	0	1B8
$ERRC444	0	1BC
$ERRC448	0	1C0
$ERRC452	0	1C4
$ERRC456	0	1C8
$ERRC460	0	1CC
$ERRC464	0	1D0
$ERRC468	0	1D4
$ERRC472	0	1D8
$ERRC476	0	1DC
$ERRENTY	0	2E
$ERRTEXT	0	4
$ESYS	0	8
$EWFHOLD	0	8
$EWFIO	0	20
$EWFOPER	0	40
$EWFPOST	0	80
$EWFWORK	0	10
$EXCPCBI	0	10
$EXCPMT	0	20
$EXCPVR	0	80
$EXCPWT	0	40
$EXTPCLO	0	3
$EXTPGET	0	1
$EXTPNCL	0	4
$EXTPOPE	0	0
$EXTPPUT	0	2
$EXTPREA	0	5
$EXTPWRI	0	6
$FBUFMLT	0	80
$FCMBCNT	0	80
$GBUFWT	0	80
$GHPFIX	0	80
$GHPPRFX	0	8
$GSMFBLG	0	40

Table 203. Cross Reference for $HASPEQU (continued)

Name	Offset	Hex Tag
$GSMFBWT	0	80
$GTBESTJ	0	40
$GTCHNNO	0	40
$GTCOUNT	0	1
$GTHAVNO	0	80
$GTIOTYS	0	20
$GTJHNSE	0	8
$GTNET	0	10
$GTNOSAF	0	2
$GTOPTIM	0	80
$GTPARML	0	4
$GTSKJPP	0	4
$GTSKJPS	0	2
$GTSKWSR	0	1
$GTWKCND	0	80
$GTWKLOC	0	20
$GTWKRO	0	10
$GTWKWAT	0	40
$GTWRKSL	0	8
$GTWSP	0	4
$HASPEQU	0	
$HOT	0	40
$HOURPLUS	0	E4C
$ILPFLG1	0	1
$ILPFLG2	0	2
$ILPFLG3	0	3
$ILPSIZE	0	0
$INDMODE	0	8
$IOTRBGN	0	3E8
$IOTRLMT	0	5
$IPUSER	0	C
$JCORLEN	0	40
$JCXLOCL	0	8000
$JECDE	0	0
$JECEO	0	1
$JECJP	0	3
$JECJPRE	0	1F
$JECJPSA	0	1E
$JECMAX	0	2B
$JECMS	0	4
$JECNA	0	5
$JECNO	0	6
$JECNOK	0	4
$JECNV	0	E
$JECOC	0	F
$JECOK	0	0
$JECOU	0	7
$JECPR	0	8
$JECPU	0	2

Table 203. Cross Reference for $HASPEQU (continued)

Name	Offset	Hex Tag
$JECRO	0	9
$JECROXQ	0	C
$JECSC	0	A
$JECSE	0	B
$JECXM	0	D
$JECXQ	0	C
$JEC3DS	0	20
$JEC3EP	0	22
$JEC3ES	0	21
$JEC3FM	0	23
$JEC3MN	0	24
$JEC3NA	0	26
$JEC3NT	0	25
$JEC3OP	0	27
$JEC3PA	0	28
$JEC3PR	0	29
$JEC3RT	0	2A
$JES2HI	0	5E
$JES2Z102	0	32
$JES2Z104	0	37
$JES2Z105	0	3C
$JES2Z107	0	41
$JES2Z108	0	46
$JES2Z109	0	49
$JES2Z110	0	4C
$JES2Z111	0	4F
$JES2Z112	0	52
$JES2Z113	0	55
$JES2Z201	0	58
$JES2Z202	0	5B
$JES2Z203	0	5E
$JES2110	0	F
$JES2130	0	14
$JES2210	0	2D
$JES2240	0	19
$JES2250	0	1E
$JES2270	0	23
$JES2280	0	28
$JES2510	0	5
$JES2520	0	A
$JEXTFRE	0	80
$JEXTLEN	0	2
$JEXTMAX	0	7FFF
$JEXTTGN	0	0
$JIXFOMT	0	10
$JIXFREE	0	40
$JIXGET	0	80
$JIXSWAP	0	20
$JIXVERI	0	8

Table 203. Cross Reference for $HASPEQU (continued)

Name	Offset	Hex Tag
$JIXWNO	0	0
$JIXWYES	0	1
$JMPREDO	0	32
$JQEDEF	0	3E8
$JSRBERT	0	8000
$JSRFLGS	0	7F
$JSRFREE	0	400
$JSRGSPL	0	4000
$JSRJQA	0	800
$JSRMJPL	0	80
$JSRRWAT	0	2000
$JSRSTC	0	100
$JSRTADD	0	1
$JSRTCAN	0	7
$JSRTCKP	0	2
$JSRTFRE	0	6
$JSRTMDJ	0	9
$JSRTMOD	0	3
$JSRTOBT	0	5
$JSRTQRY	0	8
$JSRTREM	0	4
$JSRTSU	0	200
$JSRWAIT	0	1000
$JWEBULK	0	40
$JWECRTM	0	4
$JWEDVID	0	C
$JWEFLAG	0	F
$JWEFLG1	0	0
$JWELEN	0	10
$JWELONG	0	80
$JWENUM	0	4
$JWEPTR	0	0
$JWETBLL	0	8
$JW1NCLR	0	80
$J2PZ111	0	28
$J2PZ112	0	29
$J2PZ201	0	2B
$J2PZ202	0	2C
$J2PZ203	0	2D
$J2P250	0	1D
$KCPMI2M	0	0
$KCPM2MI	0	1
$KITFUDG	0	A
$LABAL	0	40
$LABAUL	0	48
$LABBLP	0	10
$LABNL	0	1
$LABNSL	0	4
$LABSL	0	2

Table 203. Cross Reference for $HASPEQU (continued)

Name	Offset	Hex Tag
$LABSUL	0	A
$LRGSMFB	0	8000
$LVALONE	0	80
$L01R004	0	4
$MAX_MSTR_SIZE	0	C0000
$MAXACCT	0	8F
$MAXBERT	0	2625A0
$MAXBERT_Z11	0	F4240
$MAXBSC	0	270F
$MAXBUF	0	7D0
$MAXBUFX	0	270F
$MAXCLSZ	0	8
$MAXCMB	0	270F
$MAXCMDB	0	270F
$MAXCMPT	0	63
$MAXCNVT	0	19
$MAXCONJ	0	C8
$MAXCPLN	0	7FFF
$MAXCPPG	0	7FFF
$MAXCPTM	0	7FFF
$MAXCYL	0	1111
$MAXDA	0	FD
$MAXDISP	0	98967F
$MAXDSKY	0	FFFFFF
$MAXESIZ	0	4E20
$MAXFORM	0	8
$MAXFSGN	0	FFFFFF
$MAXICES	0	7FFF
$MAXINIT	0	270F
$MAXIPLN	0	7F
$MAXJCLS	0	200
$MAXJDEF	0	270F
$MAXJGJB	0	7D0
$MAXJNUM	0	F423F
$MAXJOEP	0	14
$MAXJOID	0	F5E0FF
$MAXLCK	0	8
$MAXLCYL	0	11111
$MAXLNES	0	FFFF
$MAXLOGS	0	3E7
$MAXLTRV	0	FFFFF
$MAXNHB	0	270F
$MAXNJEQ	0	7
$MAXNJQE	0	F4240
$MAXNJQE_Z11	0	61A80
$MAXNMSG	0	C8
$MAXNODE	0	7FFF
$MAXNPRO	0	E10
$MAXNZJC	0	7A120

Table 203. Cross Reference for $HASPEQU (continued)

Name	Offset	Hex Tag
$MAXOFFS	0	8
$MAXOUT	0	19
$MAXPATH	0	8
$MAXPPBF	0	1F4
$MAXPRDV	0	8
$MAXPRMD	0	FF
$MAXPRTS	0	7FFF
$MAXPSO	0	A
$MAXPUNS	0	63
$MAXPURG	0	19
$MAXRCLN	0	12
$MAXRDRS	0	63
$MAXRJE	0	7FFF
$MAXROUT	0	7FFF
$MAXRST	0	7D0
$MAXSAFL	0	80
$MAXSJFR	0	1F4
$MAXSNML	0	4
$MAXSPIN	0	A
$MAXSRVS	0	3E7
$MAXSSZZ	0	1E
$MAXSTAC	0	A
$MAXSYS	0	20
$MAXSYSN	0	20
$MAXTGBE	0	400
$MAXTGBE_Z11	0	FF
$MAXTGS	0	E81200
$MAXTGV	0	20000
$MAXTINT	0	1F4
$MAXTLOG	0	FFFFFF
$MAXTRC	0	BB8
$MAXTRV	0	FFFF
$MAXVRSN	0	32
$MAXVTAM	0	270F
$MAXWCLS	0	8
$MG0C001	0	1
$MG0C002	0	2
$MG0C003	0	3
$MG0C004	0	4
$MG0C005	0	5
$MG0C006	0	6
$MG0C007	0	7
$MG0C008	0	8
$MG0C009	0	9
$MG0C010	0	A
$MG1C011	0	B
$MG1C012	0	C
$MINBERT	0	64
$MINBSC	0	A

Table 203. Cross Reference for $HASPEQU (continued)

Name	Offset	Hex Tag
$MINBUF	0	A
$MINBUFX	0	A
$MINCMB	0	4
$MINCMDB	0	4
$MINJDEF	0	1
$MINNHB	0	A
$MINTINT	0	F
$MINVTAM	0	A
$MLDIRL	0	20
$MLDLPA	0	10
$MLJ2MOD	0	40
$MLMSGI	0	8
$MLMSGS	0	4
$MLMSGY	0	80
$MLREPL	0	2
$MLREPLC	0	1
$MQTRLEN	0	6
$MSGPFXL	0	2
$MTTRLEN	0	4
$MVSIPL	0	2
$MWORKSZ	0	120
$MXCKPCT	0	63
$MXSYSBY	0	4
$M064DAD	0	10
$M064IBE	0	80
$M064MIG	0	8
$M064NIB	0	40
$M064RD	0	4
$M064SNS	0	20
$M064WRT	0	2
$M068DEV	0	80
$M068LDV	0	20
$M068NDV	0	40
$M120INR	0	40
$M120OTH	0	80
$M260CLD	0	80
$M260NCL	0	40
$M281ALL	0	80
$M281SOM	0	40
$M291CC1	0	80
$M291CC2	0	40
$M291NCW	0	20
$M291SNS	0	10
$M416LNG	0	80
$M416SHR	0	40
$M443ATT	0	80
$M443LEV	0	20
$M443NUM	0	40
$M445CKP	0	C

Table 203. Cross Reference for $HASPEQU (continued)

Name	Offset	Hex Tag
$M445OTH	0	8
$M445ZOD	0	10
$M458CK1	0	80
$M458CK2	0	40
$M478CK1	0	80
$M478CK2	0	40
$M479INT	0	20
$M479IO	0	80
$M479SID	0	40
$M479VAL	0	10
$M530NOR	0	80
$M530TRN	0	40
$M539CLS	0	40
$M539GRP	0	80
$M565CON	0	40
$M565LNE	0	80
$M568APT	0	40
$M568LGN	0	8
$M568LIN	0	4
$M568NIT	0	80
$M568NSV	0	10
$M568SCK	0	20
$M745INT	0	80
$M745STD	0	40
$M867GOO	0	40
$M867MON	0	20
$M867MSR	0	8
$M867MTR	0	10
$M867NOR	0	80
$NJETCP_PORT	0	AF
$NJETCP_PORT_SSL	0	8CC
$NPMDOWN	0	2
$NPRICHG	0	20
$NPRODEF	0	12C
$NTNNODE	0	0
$NTNONDE	0	10
$NTNOTUS	0	8
$NTNOUSR	0	18
$NTPARML	0	0
$ODANY	0	F
$ODANYWP	0	1F
$ODHOLD	0	4
$ODKEEP	0	2
$ODLEAVE	0	1
$ODPURGE	0	10
$ODWRITE	0	8
$PAINUNT	0	64
$PBLKCTR	0	40
$PBLKSLT	0	80

Table 203. Cross Reference for $HASPEQU (continued)

Name	Offset	Hex Tag
$PBUFLIM	0	3E8
$PCEGARD	0	10
$PDYNALT	0	10
$PDYNAT	0	80
$PDYNDCT	0	2
$PDYNDT	0	40
$PDYNDTT	0	20
$PDYNPCE	0	8
$PDYNTAB	0	4
$PGESIZE	0	1000
$PLXPCEL	0	14
$PLXSCEL	0	14
$PPVERIU	0	10
$PRWRATE	0	A
$PRWTHSH	0	4
$PSTJOE	0	0
$PSTJQE	0	4
$PSTKEPJ	0	40
$PSTMASP	0	80
$PSTMSG	0	C
$PSTNSPN	0	20
$PSTXMIT	0	8
$QADJQA	0	8
$QGTINWS	0	20
$QGTLST	0	40
$QGTLSTC	0	80
$QGTWLMQ	0	10
$QINDXL	0	100
$QMDHJCT	0	2
$QMDKEEP	0	10
$QMDNX51	0	4
$QMDOVAL	0	1
$QSNPCHG	0	40
$QSONDA	0	80
$QUICK	0	20
$QWALEN	0	1A4
$REMKPJQ	0	10
$REMLFRE	0	8
$REMLOCK	0	20
$REMPURG	0	80
$RRTJOB	0	80
$RRTSQD	0	20
$SCACMDS	0	C
$SCACTCM	0	1B
$SCCCMDS	0	14
$SCCOCMD	0	16
$SCDCMDS	0	4
$SCDDIAL	0	9
$SCDOCMD	0	6

Table 203. Cross Reference for $HASPEQU (continued)

Name	Offset	Hex Tag
$SCECMDA	0	10
$SCECMDS	0	B
$SCHCMDS	0	12
$SCIDIAL	0	E
$SCIRPL	0	2
$SCIRPLC	0	3
$SCLCMDS	0	1A
$SCLOCMD	0	19
$SCLTCMD	0	F
$SCMGCMD	0	1D
$SCNCLN	0	8
$SCNPOST	0	4
$SCNPRE	0	0
$SCOCMDS	0	18
$SCOPTS	0	1
$SCPCMDS	0	8
$SCPOCMD	0	17
$SCRCMDS	0	D
$SCRLCMD	0	13
$SCSCMDS	0	5
$SCSDIAL	0	A
$SCSTCMD	0	7
$SCTOCMD	0	15
$SCWHOTS	0	40
$SCWIBM	0	3C
$SCWINST	0	3
$SCWOBS	0	80
$SCZAPCM	0	1C
$SCZCMDS	0	11
$SEAAUD	0	19
$SEACMD	0	C
$SEADCHK	0	1A
$SEADEL	0	E
$SEADEVA	0	12
$SEADIRA	0	29
$SEAFAIL	0	8
$SEAINIT	0	1
$SEAJCLS	0	2B
$SEAJOX	0	20
$SEAMAX	0	FF
$SEAND	0	4
$SEANEWS	0	16
$SEANJEA	0	13
$SEANJES	0	0
$SEANJEV	0	1F
$SEANSOC	0	1D
$SEANSON	0	28
$SEANSTO	0	C
$SEANUSE	0	F

Table 203. Cross Reference for $HASPEQU (continued)

Name	Offset	Hex Tag
$SEANWBL	0	17
$SEAOK	0	0
$SEAPRT	0	D
$SEAPSO	0	9
$SEAPSS	0	A
$SEAREXT	0	14
$SEARJES	0	11
$SEARRT	0	15
$SEASAPI	0	25
$SEASCLA	0	26
$SEASCLE	0	27
$SEASFS	0	23
$SEASIC	0	5
$SEASIP	0	7
$SEASOC	0	6
$SEASOP	0	8
$SEASOX	0	1E
$SEASPBC	0	21
$SEASPBO	0	22
$SEASPLR	0	2A
$SEASSOC	0	1C
$SEASSWM	0	24
$SEATBLD	0	10
$SEATCAN	0	B
$SEATSOC	0	1B
$SEAUSED	0	2B
$SEAVERC	0	2
$SEAVERD	0	3
$SEAVERS	0	18
$SEAXTRT	0	4
$SEGLMDF	0	64
$SJIFREE	0	40
$SJIGNYC	0	8
$SJIINIT	0	10
$SJINSJB	0	20
$SJITEMP	0	80
$SMFDEF	0	5
$SPCSAF	0	E7
$SPIN_LINES	0	8
$SPIN_OPERATOR	0	0
$SPIN_SEGMENT	0	C
$SPIN_TIME	0	4
$SP0	0	0
$SP132	0	84
$SP233	0	E9
$SQINDXL	0	100
$SSIRCVR	0	1
$STMT	0	80
$STMTCOM	0	40

Table 203. Cross Reference for $HASPEQU (continued)

Name	Offset	Hex Tag
$STMTERR	0	10
$STMTWAR	0	20
$STSUBP	0	E5
$SUBERR	0	80
$SUBMULT	0	40
$SYSEXIT	0	4
$TGDEF	0	3FA0
$TIMECLOC_JQECAT_1	0	1
$TIMECLOC_JQECAT_2	0	2
$TIMECLOC_TIMECLOC	0	4
$TIMECLOC_XIDJOB	0	3
$TIMETST	0	80
$TKNLEN	0	50
$TKNVERN	0	1
$TRK000D	0	0
$VOLFLDL	0	18
$VOLLEN	0	6
$VOLMAX	0	4
$VOLMSKL	0	20
$WARM	0	80
$WARMHD	0	1F4
$WSFRJE	0	80
$WSJSREC	0	40
$XMLOSTP	0	80
$XMPASCB	0	8
$XMPECB	0	C
$XMPECBP	0	4
$XMPERET	0	0
$1E0C004	0	4
$1E0C008	0	8
$1E0C012	0	C
$1E0C016	0	10
$1E0ET01	0	1
$1E0ET02	0	2
$1E0ET03	0	3
$1E0ET04	0	4
$1E0ET05	0	5
$1E0ET06	0	6
$1E0ET07	0	7
$1E0ET08	0	8
$1E0ET09	0	9
$1E0ET10	0	A
$1E0ET11	0	B
$1E0ET12	0	C
$1E0ET13	0	D
$446CVER	0	A
$446MVER	0	9
$599LEN	0	C
$599PIT	0	0

Table 203. Cross Reference for $HASPEQU (continued)

Name	Offset	Hex Tag
$599SQD	0	4
$599XINI	0	8
AB02AR0C	0	C
AB02AR04	0	4
AB02AR08	0	8
AB02AR1C	0	1C
AB02AR10	0	10
AB02AR14	0	14
AB02AR18	0	18
AB02AR2C	0	2C
AB02AR20	0	20
AB02AR24	0	24
AB02AR28	0	28
AB02AR3C	0	3C
AB02AR30	0	30
AB02AR34	0	34
AB02AR38	0	38
AB02AR4C	0	4C
AB02AR40	0	40
AB02AR44	0	44
AB02AR48	0	48
AB02AR5C	0	5C
AB02AR50	0	50
AB02AR54	0	54
AB02AR58	0	58
AB02AR60	0	60
AB02AR64	0	64
AB02AR68	0	68
AB68R104	0	104
AB68R108	0	108
AB68R200	0	200
AB68R300	0	300
AB68R304	0	304
AB68R400	0	400
AB68R500	0	500
AB68R60C	0	60C
AB68R600	0	600
AB68R604	0	604
AB68R608	0	608
AB68R61C	0	61C
AB68R610	0	610
AB68R614	0	614
AB68R618	0	618
AB68R620	0	620
AB68R70C	0	70C
AB68R700	0	700
AB68R704	0	704
AB68R708	0	708
AB68R71C	0	71C

Table 203. Cross Reference for $HASPEQU (continued)

Name	Offset	Hex Tag
AB68R710	0	710
AB68R714	0	714
AB68R718	0	718
AB68R720	0	720
AB68R800	0	800
AB68R801	0	801
AB68R900	0	900
AR0	0	0
AR1	0	1
AR10	0	A
AR11	0	B
AR12	0	C
AR13	0	D
AR14	0	E
AR15	0	F
AR2	0	2
AR3	0	3
AR4	0	4
AR5	0	5
AR6	0	6
AR7	0	7
AR8	0	8
AR9	0	9
BATPOOL	0	5
BSCPOOL	0	6
B32KPOOL	0	A
CBPOOL	0	7
CFPOOL	0	13
CIDPOOL	0	1D
CKPCLBCL	0	8
CKPCLCKP	0	1
CKPCLCMW	0	40
CKPCLCRW	0	80
CKPCLMRK	0	F
CKPCLRDC	0	2
CKPCLRDP	0	4
CKPTPOOL	0	4
CKREQ_EXTND	0	7
CKREQ_FMT	0	6
CKREQ_LOCK	0	4
CKREQ_READ2	0	2
CKREQ_T1IO	0	1
CKREQ_UNLCK	0	5
CKREQ_WRITE	0	3
CMBPOOL	0	14
DIAGADDR	0	0
DIAGKLEN	0	5
DIAGKLOC	0	4
DYNL3203	0	250

Table 203. Cross Reference for $HASPEQU (continued)

Name	Offset	Hex Tag
DYNL3211	0	23A
DYNL3800	0	10E
DYNL4245	0	250
DYNL4248	0	100
DYNTEYE	0	0
DYNTLEN	0	18
DYNTLMT	0	C
DYNTNEXT	0	4
DYNTTAB	0	8
DYNTTYPE	0	10
EXTDQ8A	0	8A
EXTDQ8B	0	8B
EXTDQ8C	0	8C
EXTDQ8D	0	8D
EXTDQ81	0	81
EXTDQ82	0	82
EXTDQ83	0	83
EXTDQ84	0	84
EXTDQ85	0	85
EXTDQ86	0	86
EXTDQ87	0	87
EXTDQ88	0	88
EXTDQ89	0	89
EXTDQ91	0	91
EXTPLCMD	0	0
EXTPLDAT	0	4
EXTPLLEN	0	1
EXTPLSIZ	0	8
FF	0	FF
FFFF	0	FFFF
FP0	0	0
FP2	0	2
FP4	0	4
FP6	0	6
GPQPOOL	0	1F
GTWKDIS	0	30
GTWKMAX	0	2000
GTWKRO	0	10
GTWKTANY	0	20
GTWKTCEL	0	10
GTWKTESZ	0	18
GTWKTFLG	0	5
GTWKTMSZ	0	2
GTWKTNAM	0	8
GTWKTNXT	0	C
GTWKTPID	0	4
GTWKTSIZ	0	0
GTWKTUSE	0	14
HASPPOOL	0	8

Table 203. Cross Reference for $HASPEQU (continued)

Name	Offset	Hex Tag
HAVTNLOG	0	80
HEDRPOOL	0	16
HTABFADD	0	20
HTABFLGB	0	9
HTABFNCK	0	8
HTABFOFF	0	40
HTABFTRQ	0	80
HTABF0TB	0	10
HTABTABL	0	A
HTABTEL	0	0
HTABTIDF	0	6
HTABTIDL	0	8
HTABTMCT	0	2
HTABTUFB	0	4
ICEPOOL	0	1A
IECITMOD	0	18
IPCALLER	0	2
IPEYE	0	14
IPNODE	0	4
IPOUTLEN	0	0
IPRETC	0	4
IPTUOUT	0	18
IPWJOA	0	4
JIXVRSN	0	2
LEAVE_JOES_BUSY	0	0
MAPADDR	0	8
MAPBASE	0	C
MAPENTL	0	10
MAPMITA	0	8
MAPNAME	0	0
MAXLRECL	0	7FFF
M474BTRN	0	18
M474ENBT	0	0
M474ENHI	0	8
M474ENLO	0	4
M474ENT1	0	0
M474ENT2	0	C
M474E1BT	0	0
M474E1HI	0	8
M474E1LO	0	4
M474E2BT	0	C
M474E2HI	0	14
M474E2LO	0	10
M474PRML	0	1C
M565LNEN	0	11
M565NDEN	0	1
M565NSVN	0	9
M565RAPP	0	B
M565RBUF	0	7

Table 203. Cross Reference for $HASPEQU (continued)

Name	Offset	Hex Tag
M565RBUS	0	8
M565RINT	0	A
M565RNDE	0	5
M565RND1	0	1
M565RND2	0	2
M565RNET	0	9
M565RNIL	0	3
M565RNPM	0	6
M565RNSK	0	4
M565RSN	0	0
M710DOWN	0	2
M710ENT	0	0
M710MEM	0	0
M710RSN	0	4
M710UP	0	1
M791GRP	0	4
M791LEN	0	1C
M791NAME	0	0
M791PLX	0	C
M791PXID	0	14
NATPOOL	0	9
NMAPPOOL	0	B
NONE	0	0
NSAPOOL	0	C
NTQPOOL	0	D
PAGEPOOL	0	E
PAIRDYN	0	8
PAIRHASP	0	4
PAIRLEN	0	C
PAIRUSER	0	0
PCEPOOL	0	19
PERFPOOL	0	18
PLXPOOL	0	15
PPPOOL	0	F
PRFDCKPT	0	7
PRFDCPUS	0	5
PRFDDEVG	0	9
PRFDEVNT	0	6
PRFDIND	0	8
PRFDINTS	0	1
PRFDLEN	0	C
PRFDMIGR	0	A
PRFDNAME	0	0
PRFDPCES	0	3
PRFDQSUS	0	2
PRFDSAMP	0	4
PRFDSUBT	0	8
PRFDWS	0	B
PSOPOOL	0	1B

Table 203. Cross Reference for $HASPEQU (continued)

Name	Offset	Hex Tag
PSTVRSN	0	2
RACDSECL	0	24
REGANSI	0	A0
RJOBNOFF	0	0
RJOBOFFL	0	1
RNTPOOL	0	1C
RSOVRSN	0	1
R0	0	0
R1	0	1
R10	0	A
R11	0	B
R12	0	C
R13	0	D
R14	0	E
R15	0	F
R2	0	2
R3	0	3
R4	0	4
R5	0	5
R6	0	6
R7	0	7
R8	0	8
R9	0	9
SCNDR01	0	4
SCNDR03	0	8
SCNDR04	0	C
SCNDR05	0	10
SCNDR06	0	14
SCNDR07	0	18
SCNDR08	0	1C
SCNDR09	0	20
SCNDR10	0	24
SCNDR100	0	134
SCNDR101	0	138
SCNDR102	0	13C
SCNDR103	0	140
SCNDR104	0	144
SCNDR105	0	148
SCNDR106	0	14C
SCNDR107	0	150
SCNDR108	0	154
SCNDR109	0	158
SCNDR11	0	28
SCNDR110	0	15C
SCNDR111	0	160
SCNDR112	0	164
SCNDR113	0	168
SCNDR114	0	16C
SCNDR115	0	170

Table 203. Cross Reference for $HASPEQU (continued)

Name	Offset	Hex Tag
SCNDR116	0	174
SCNDR117	0	178
SCNDR118	0	17C
SCNDR119	0	180
SCNDR12	0	2C
SCNDR120	0	184
SCNDR121	0	188
SCNDR122	0	18C
SCNDR123	0	190
SCNDR124	0	194
SCNDR125	0	198
SCNDR126	0	19C
SCNDR127	0	1A0
SCNDR128	0	1A4
SCNDR13	0	30
SCNDR130	0	1A8
SCNDR131	0	1AC
SCNDR132	0	1B0
SCNDR133	0	1B4
SCNDR134	0	1B8
SCNDR135	0	1BC
SCNDR136	0	1C0
SCNDR137	0	1C4
SCNDR138	0	1C8
SCNDR139	0	1CC
SCNDR14	0	34
SCNDR140	0	1D0
SCNDR141	0	1D4
SCNDR142	0	1D8
SCNDR143	0	1DC
SCNDR144	0	1E0
SCNDR145	0	1E4
SCNDR146	0	1E8
SCNDR147	0	1EC
SCNDR148	0	1F0
SCNDR149	0	1F4
SCNDR150	0	1F8
SCNDR151	0	1FC
SCNDR152	0	200
SCNDR153	0	204
SCNDR154	0	208
SCNDR155	0	20C
SCNDR156	0	210
SCNDR157	0	214
SCNDR158	0	218
SCNDR159	0	21C
SCNDR160	0	220
SCNDR161	0	224
SCNDR162	0	228

Table 203. Cross Reference for $HASPEQU (continued)

Name	Offset	Hex Tag
SCNDR163	0	22C
SCNDR164	0	230
SCNDR165	0	234
SCNDR166	0	238
SCNDR167	0	23C
SCNDR168	0	240
SCNDR169	0	244
SCNDR17	0	38
SCNDR18	0	3C
SCNDR19	0	40
SCNDR21	0	44
SCNDR22	0	48
SCNDR23	0	4C
SCNDR24	0	50
SCNDR25	0	54
SCNDR26	0	58
SCNDR27	0	5C
SCNDR28	0	60
SCNDR39	0	64
SCNDR40	0	68
SCNDR41	0	6C
SCNDR43	0	70
SCNDR44	0	74
SCNDR45	0	78
SCNDR46	0	7C
SCNDR52	0	80
SCNDR54	0	84
SCNDR55	0	88
SCNDR56	0	8C
SCNDR57	0	90
SCNDR58	0	94
SCNDR59	0	98
SCNDR62	0	9C
SCNDR63	0	A0
SCNDR64	0	A4
SCNDR65	0	A8
SCNDR66	0	AC
SCNDR67	0	B0
SCNDR68	0	B4
SCNDR69	0	B8
SCNDR70	0	BC
SCNDR71	0	C0
SCNDR72	0	C4
SCNDR73	0	C8
SCNDR74	0	CC
SCNDR75	0	D0
SCNDR76	0	D4
SCNDR77	0	D8
SCNDR78	0	DC

Table 203. Cross Reference for $HASPEQU (continued)

Name	Offset	Hex Tag
SCNDR79	0	E0
SCNDR80	0	E4
SCNDR81	0	E8
SCNDR82	0	EC
SCNDR83	0	F0
SCNDR84	0	F4
SCNDR85	0	F8
SCNDR86	0	FC
SCNDR87	0	100
SCNDR88	0	104
SCNDR89	0	108
SCNDR90	0	10C
SCNDR91	0	110
SCNDR92	0	114
SCNDR93	0	118
SCNDR94	0	11C
SCNDR95	0	120
SCNDR96	0	124
SCNDR97	0	128
SCNDR98	0	12C
SCNDR99	0	130
SCQVRSN	0	1
SCWAPOOL	0	20
SCWDPOOL	0	21
SDLTBADD	0	0
SDLTLEN	0	4
SDLTNUM	0	A
SMFPOOL	0	12
SPANLAST	0	8C
SPANMID	0	84
SPAN1ST	0	88
SQDPOOL	0	1E
SRCBANSI	0	20
SRCBCCTL	0	30
SRCBDSH	0	E0
SRCBFLAG	0	80
SRCBJH	0	C0
SRCBJT	0	D0
SRCBLAST	0	C
SRCBMCH	0	10
SRCBMID	0	4
SRCBPAGE	0	30
SRCBSPAN	0	C
SRCB1ST	0	8
TGMVRSN	0	1
TINTPOOL	0	17
TMAPADDC	0	18
TMAPENTL	0	1C
TMAPLMOD	0	10

Table 203. Cross Reference for $HASPEQU (continued)

Name	Offset	Hex Tag
TRAKQ4A	0	4A
TRAKQ41	0	41
TRAKQ42	0	42
TRAKQ43	0	43
TRAKQ44	0	44
TRAKQ45	0	45
TRAKQ46	0	46
TRAKQ47	0	47
TRAKQ48	0	48
TRAKQ49	0	49
TRAKQ5A	0	5A
TRAKQ51	0	51
TRAKQ52	0	52
TRAKQ53	0	53
TRAKQ54	0	54
TRAKQ55	0	55
TRAKQ56	0	56
TRAKQ57	0	57
TRAKQ58	0	58
TRAKQ61	0	61
TRAKQ62	0	62
TRAKQ63	0	63
TRAKQ64	0	64
TRAKQ65	0	65
TRCCWSP1	0	9
TRCCWSP2	0	11
TRCCWSP3	0	19
TRCLRECL	0	79
UNBUSY_JOES	0	1
VTAMPOOL	0	10
WAVEPOOL	0	22
WORKQ01	0	1
WORKQ02	0	2
WORKQ03	0	3
WORKQ04	0	4
WORKQ05	0	5
WORKQ1A	0	1A
WORKQ11	0	11
WORKQ12	0	12
WORKQ13	0	13
WORKQ14	0	14
WORKQ15	0	15
WORKQ16	0	16
WORKQ17	0	17
WORKQ18	0	18
WORKQ21	0	21
WORKQ22	0	22
WORKQ23	0	23
WORKQ24	0	24

Table 203. Cross Reference for $HASPEQU (continued)

Name	Offset	Hex Tag
WORKQ25	0	25
WORKQ26	0	26
WORKQ27	0	27
WORKQ28	0	28
XCFMLIST	0	8
XCFMMEMC	0	12
XCFMMEMF	0	11
XCFMMEMN	0	0
XCFMMEMR	0	10
XCFMRSCS	0	C
XCFMRSJ2	0	4
XCFMRSNM	0	8
XCFMSIZE	0	1000
XCFMTHEM	0	0
XCFMUS	0	4
XEQPHDWT	0	78
XEQPHFWT	0	3C
XEQPHIWT	0	1E
XRQPOOL	0	11

Chapter 95. $HASXB Information

$HASXB Programming Interface Information

The following fields are **NOT** programming interface information:

- HXBDSB
- HXBSAPID
- HXBWRKSP

$HASXB Heading Information

Common Name:	HASP address space extension block
Macro ID:	$HASXB
DSECT Name:	HASXB
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	HSXB Offset: HXBID-HASXB Length: L'HXBID
Storage Attributes:	Subpool: 230 Key: 1 Residency: Virtual and real storage are anywhere (above or below 16M) in the private address space represented by the $HASXB.
Size:	See HXBLEN
Created by:	$SSIBEGN routine
Pointed to by:	HSBHASXB field of the $HASB data area
Serialization:	Shared by TCBs in the address space. The local lock is required to increment the use count in the $HASXB. This ensures that the control block won't be freed if it is considered to be temporary. After the use count has been incremented in the $HASXB control block to indicate that both the $HASB and $HASXB are in use, compare and swaps may be used to modify fields. $SSIBEGN increments the use count upon entry. The use count in the $HASXB is for both the $HASB and the $HASXB. Compare and swap is still needed to update the use count even with the local lock because the local lock is not obtained when decrementing the use count in $SSIEND for permanent HASB/HASXBs. The use of compare and swap is not needed for the system HASB/HASXB count because it is never updated without the local lock.

$HASXB Heading Information

Function: The HASB and HASXB are the main control blocks for an address space that invokes JES2 SSI functions. Address spaces that are started under JES2 (STCs, TSUs, batch initiators) have a "permanent" HASB and HASXB which exist until the job is terminated. Address spaces that request a job id from JES2 have a "system" HASB and HASXB which exist until the job id is returned. All other address spaces obtain a temporary HASB and HASXB which exist for the life of a SSI request.
The HASXB contains the information that is needed only in the user address space. The HASB contains the information that needs to be shared between the user and the subsystem address spaces.

$HASXB mapping

Table 204. Structure HASXB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HASXB	BEGINNING OF HASXB DSECT
0	(0)	CHARACTER	4	HXBID	EYECATCHER OF HASXB
4	(4)	ADDRESS	1	HXBVRSN	VERSION NUMBER FIELD
4	(4)	X'3'	0	HXBVRNUM	"3" Current version of HASXB
5	(5)	BITSTRING	1	HXBFLAG1	STATUS FLAG 1
		For more information about the PERM and SYS bits see the prolog for $SSIBEGN in HASCLINK.			
		1...		HXB1PERM	"B'10000000'" PERMANENT HASB/HASXB CHAIN
		.1..		HXB1SYS	"B'01000000'" SYSTEM HASB/HASXB CHAIN
		..1.		HXB1REQ	"B'00100000'" A Request JobId call was made from this addr space
		...1		HXB1B32K	"B'00010000'" B32K cell pool created
		.... 1...		HXB1E40I	"B'00001000'" ENF 40 INIT call seen
6	(6)	BITSTRING	1	HXBRSVRD(2)	RESERVED FOR FUTURE USE
8	(8)	SIGNED	4	HXBUSECT	COUNT OF USERS OF THIS HSXB
12	(C)	SIGNED	4	HXBINTRD	COUNT OF BCP-ALLOCATED INTERNAL READERS
16	(10)	ADDRESS	4	HXBTRE	ADDRESS OF FIRST TRE ON CHAIN
20	(14)	ADDRESS	4	HXBWRKSP	ADDRESS OF WORK SPACE
24	(18)	ADDRESS	4	HXBUSER1	RESERVED FOR USER
28	(1C)	SIGNED	4	HXBSPLWT	Count of tasks AWAITING SPOOL SPACE tasks (PLO serialization)
32	(20)	ADDRESS	4	HXBCPTCB	TCB address to use with STORAGE OBTAIN
36	(24)	ADDRESS	4	HXBCPIDX	Address of CPINDEX table
40	(28)	ADDRESS	4	HXBALIDX	Address of ALINDEX table
44	(2C)	ADDRESS	4	HXBDSB	Chain of LOCAL DSBs
48	(30)	SIGNED	4	HXBSAPIA	ALET of SAPID queue for this address space

Table 204. Structure HASXB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
52	(34)	SIGNED	4	HXBSTACA	ALET of STAC data space for this address space
56	(38)	SIGNED	4	HXBPSOA	ALET of PSO data space for this address space
60	(3C)	ADDRESS	4	HXBSJIOB	Permanent SJIOB used for $SIGIO processing
64	(40)	ADDRESS	4	HXBASOK	Address of first ASOK
68	(44)	ADDRESS	4	HXBDSERV	Address of live DSERV
72	(48)	ADDRESS	4	HXBESWRK	Address of extended status work area
		SPOOL I/O vector This vector achors the BAT control blocks for this address space. There is one entry for every possible SPOOL volume.			
76	(4C)	ADDRESS	4	HXBBATV(0)	SPOOL I/O vector
1088	(440)	DBL WORD	8	(0)	Alignment
1088	(440)	X'440'	0	HXBLEN	"*-HASXB" LENGTH OF HASXB DSECT

Table 205. Cross Reference for $HASXB

Name	Offset	Hex Tag
HASXB	0	
HXBALIDX	28	
HXBASOK	40	
HXBBATV	4C	
HXBCPIDX	24	
HXBCPTCB	20	
HXBDSB	2C	
HXBDSERV	44	
HXBESWRK	48	
HXBFLAG1	5	
HXBID	0	C8E2E7C2
HXBINTRD	C	
HXBLEN	440	440
HXBPSOA	38	
HXBRSVRD	6	
HXBSAPIA	30	
HXBSJIOB	3C	
HXBSPLWT	1C	
HXBSTACA	34	
HXBTRE	10	
HXBUSECT	8	
HXBUSER1	18	
HXBVRNUM	4	3
HXBVRSN	4	
HXBWRKSP	14	
HXB1B32K	5	10
HXB1E40I	5	8
HXB1PERM	5	80
HXB1REQ	5	20

Table 205. Cross Reference for $HASXB (continued)

Name	Offset	Hex Tag
HXB1SYS	5	40

Chapter 96. $HCCT Information

$HCCT Programming Interface Information

The following fields are **NOT** programming interface information:

- CCTASYNC
- CCTAUXCB
- CCTBMAP
- CCTCBRT
- CCTCKPTP
- CCTCOMM
- CCTCSHED
- CCTCSTAI
- CCTDSB
- CCTECF
- CCTHTCBA
- CCTJOB
- CCTMLLM
- CCTMONCB
- CCTOFFM
- CCTPCEPE
- CCTPJCLQ
- CCTPSOQ
- CCTRCP
- CCTRCPCQ
- CCTSAPIQ
- CCTSAWST
- CCTSAWXN
- CCTSAWXO
- CCTSCIDS
- CCTSJWEL
- CCTSLKST
- CCTSLKUS
- CCTSPOOL
- CCTTIMER
- CCTTRPCE
- CCTXESEV
- CCTXSTIM
- CCT1SAP
- CCT1SAPC

$HCCT Heading Information

Common Name: HASP Common-storage Communication Table

$HCCT Heading Information

Macro ID:	$HCCT
DSECT Name:	HCCT
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'HCCT' Offset: -8 (in the JES2 CSA storage prefix) Length: 4
Storage Attributes:	Subpool: 228 Key: 1 Residency: Virtual and real storage are below 16M, in CSA. The storage is fixed in memory. Below 16M because it contains an extended ECB.
Size:	See the CCTLEN equate (plus an 8 byte prefix)
Created by:	Initialization of a JES2 subsystem address space, except for a 'hot start' initialization (the HCCT in CSA is just re-located in that case).
Pointed to by:	- The SSCTSUS2 field of the MVS SSCVT control block for the defined JES2 subsystem. - General register 11 when executing code in the 'USER' execution environment. - The $HCCT field of the JES2 $HCT control block. - The HFCTHCCT field of each JES2 $HFCT control block. - The SDBHCCT field of each JES2 $SDB control block. - The RIDHCCT field of each JES2 internal reader $DCT control block. - The address word in the module entry labeled MAPHCCT in the JES2 $MODMAP control block.
Serialization:	- Serialization depends on the field in question. - Fields might be serialized via Compare-and-swap. - Fields might be serialized via the JES2 Job Communications Queues (JCQ) logical lock. - Fields might be serialized implicitly, by being changeable only by the JES2 main task. - Fields might be serialized by MVS resource ENQ. - Fields might be serialized by the LOCAL/CMS locks.
Function:	The HCCT is the central common storage control block for a JES2 subsystem. It can be located from the MVS control blocks defining the subsystems. It, in turn, points to the major control block in the JES2 address space ($HCT), those for application address spaces ($HAVT, $HASBs), those for FSS address spaces ($FSSCBs), etc. The HCCT also contains or points to most data used for communication between address spaces, whether for direct support of application requests for subsystem service (e.g. executing jobs, creating and writing to SYSOUT datasets), for JES2 subsystem utilities (e.g. its $TRACE facility), or for other purposes. It also is the central location for any information that must be useable when JES2 experiences an outage, or that must be preserved across such an outage until a 'hot start' is performed. The HCCT is used most importantly by the JES2 subsystem interface (SSI) function routines, which include all of the MVS/JES2 interactions in support of job execution and SYSOUT/SYSIN datasets.

$HCCT mapping

Table 206. Structure HCCT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HCCT	
0	(0)	X'E'	0	CCTVRNUM	"14" HCCT version equate
0	(0)	ADDRESS	1	CCTVRSN	CONTROL BLOCK VERSION
1	(1)	BITSTRING	6		RESERVED FOR FUTURE USE
7	(7)	BITSTRING	1	CCTILVL	Service level
8	(8)	ADDRESS	4	CCTOFSTB	Address of offset table, at HCCT offset +8
12	(C)	ADDRESS	4	CCTLMT1	Address of first CSA LMT, if any
16	(10)	CHARACTER	8	CCTPVRSN	Copy of HCT $VERSION. Permanently set to 'SP 5.3.0' (Do not remove)
		DEFINE CONSTANTS. MOVED FROM THE $HCT IN HASPIRMA.			
24	(18)	CHARACTER	32	CCTBLNKS	32 CHARACTERS OF BLANKS
56	(38)	BITSTRING	64	CCTZEROS	64 CHARACTERS OF HEX ZERO
56	(38)	X'38'	0	CCTZERO	"CCTZEROS" Alternate name for CCTZEROS
120	(78)	ADDRESS	4	CCTFFS(16)	16 words of FF's
120	(78)	X'78'	0	CCTNEG1	"CCTFFS,4,C'F'" Fullword of X'FF's
120	(78)	X'78'	0	CCTALLFF	"CCTNEG1" ALTERNATE NAME FOR CCTNEG1
184	(B8)	SIGNED	4	CCTF1	FULLWORD CONSTANT 1
184	(B8)	X'BA'	0	CCTH1	"CCTF1+2,2,C'H'" HALFWORD CONSTANT 1
188	(BC)	SIGNED	4	CCTF2	FULLWORD CONSTANT 2
188	(BC)	X'BE'	0	CCTH2	"CCTF2+2,2,C'H'" HALFWORD CONSTANT 2
192	(C0)	SIGNED	4	CCTF4	FULLWORD CONSTANT 4
192	(C0)	X'C2'	0	CCTH4	"CCTF4+2,2,C'H'" HALFWORD CONSTANT 4
196	(C4)	SIGNED	4	CCTF6	FULLWORD CONSTANT 6
196	(C4)	X'C6'	0	CCTH6	"CCTF6+2,2,C'H'" HALFWORD CONSTANT 6
200	(C8)	SIGNED	4	CCTF8	FULLWORD CONSTANT 8
200	(C8)	X'CA'	0	CCTH8	"CCTF8+2,2,C'H'" HALFWORD CONSTANT 8
204	(CC)	SIGNED	4	CCTF12	FULLWORD CONSTANT 12
204	(CC)	X'CE'	0	CCTH12	"CCTF12+2,2,C'H'" HALFWORD CONSTANT 12
208	(D0)	SIGNED	4	CCTF16	FULLWORD CONSTANT 16
208	(D0)	X'D2'	0	CCTH16	"CCTF16+2,2,C'H'" HALFWORD CONSTANT 16
212	(D4)	SIGNED	4	CCTF255	FULLWORD CONSTANT 255
212	(D4)	X'D6'	0	CCTH255	"CCTF255+2,2,C'H'" HALFWORD CONSTANT 255
212	(D4)	X'D4'	0	CCT000F	"CCTF255" Fullword X'000000FF'
216	(D8)	SIGNED	4	CCTF4096	FULLWORD CONSTANT 4096
216	(D8)	X'DA'	0	CCTH4096	"CCTF4096+2,2,C'H'" HALFWORD CONSTANT 4096
220	(DC)	BITSTRING	4	CCT0FFF	FULLWORD THREE BYTE MASK

Table 206. Structure HCCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
224	(E0)	BITSTRING	4	CCT7FFF	FULLWORD HIGH BIT OFF MASK
224	(E0)	X'E0'	0	CCTFMAX	"CCT7FFF" Fullword largest + number
224	(E0)	X'E0'	0	CCTHMAX	"CCT7FFF,2,C'H'" Halfword largest + number
228	(E4)	ADDRESS	4	CCTHIBIT(0)	Fullword high bit on
232	(E8)	ADDRESS	4	CCTBADA(16)	BAD value
		SAF CLASS Value. Reference in RACROUTEs should be to name on the EQUate.			
296	(128)	ADDRESS	1	CCTJSPLL	Length of JESSPOOL class
297	(129)	CHARACTER	8	CCTJSPLV	JESSPOOL class
297	(129)	X'128'	0	CCTJSPL	"CCTJSPLL,*-CCTJSPLL,C'X'" JESSPOOL SAF class
305	(131)	CHARACTER	1	CCTBDJNC	Bad job name character
306	(132)	BITSTRING	2		Reserved for future use
		HEX translate table			
306	(132)	X'44'	0	CCTXTRAN	"*-C'0',256,C'C'" Hexadecimal-to-EBCDIC
308	(134)	CHARACTER	16		translate table
		COMMUNICATION CONTROL FIELDS			
324	(144)	ADDRESS	4	CCTSSVT	SUBSYSTEM VECTOR TABLE ADDRESS
328	(148)	ADDRESS	4	CCTCADDR	ADDR OF COMMON STORAGE ADDR TBL
332	(14C)	ADDRESS	4	CCTCTABS	Addr of CPOOL tables
336	(150)	ADDRESS	4	CCTCPIDX	Addr of CSA CPOOL index
340	(154)	ADDRESS	4	CCTHCT	ADDRESS OF HASP HCT
344	(158)	ADDRESS	4	CCTHTCBA	JES2 MAIN-TASK TCB ADDRESS
348	(15C)	BITSTRING	8	CCTJSTKN	STOKEN of the JES2 addrspc, unique for this MVS IPL, see CCTASCB for ASCB addr
356	(164)	BITSTRING	8	CCTJXTKN	STOKEN of the JES2AUX AS see CCTXASCB for ASCB addr
364	(16C)	ADDRESS	4	CCTAMVEC	VECTOR TABLE FOR
368	(170)	ADDRESS	4		SVC111 INTERFACE
372	(174)	ADDRESS	4	CCTSSCT	ADDRESS OF SSCT
376	(178)	ADDRESS	4	CCTKAC	ADDRESS OF KAC CONTROL BLOCK
380	(17C)	ADDRESS	4	CCTSCIDS	ADDR CKPT SCID CONTROL BLCK
384	(180)	ADDRESS	4	CCTHAVT	JES2 ADR SPACE VECTOR TABLE
388	(184)	ADDRESS	4	CCTAUXCB	Addr of AUX AS Work area
392	(188)	ADDRESS	4	CCTXASCB	AUX address space ASCB
396	(18C)	ADDRESS	4	CCTBMAPS	BERT translation maps
400	(190)	ADDRESS	4	CCTCBRT	$CATBERT pointer
404	(194)	ADDRESS	4	CCTDAS1	ADDRESS OF FIRST DAS
408	(198)	ADDRESS	4	CCTETDEF	Common PC routines ETDEFs
412	(19C)	SIGNED	4	CCTSYSLX	JES2's system LX
416	(1A0)	ADDRESS	4	CCTIINFO	Addr of installation info for version SSI call
420	(1A4)	ADDRESS	4	CCTSINFO	Addr of system information for version SSI call
424	(1A8)	ADDRESS	4	CCTMONCB	Addr of monitor AS workarea
428	(1AC)	ADDRESS	4	CCTMASCB	Monitor address space ASCB
432	(1B0)	ADDRESS	4	CCTNITBL	NIT addr in data space

Table 206. Structure HCCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
436	(1B4)	SIGNED	2	CCTNITSZ	NIT element size
438	(1B6)	SIGNED	2	CCTJQELN	Total length of a JQE
440	(1B8)	ADDRESS	4	CCTPIT	Addr of first initiator PIT
444	(1BC)	ADDRESS	2	CCTPITNM	Number of pits in CSA
446	(1BE)	ADDRESS	2		Reserved
448	(1C0)	ADDRESS	4	CCTSCATP	Pointer to SCAT
452	(1C4)	ADDRESS	4	CCTTED	Addr of Trace enablement descriptor
456	(1C8)	ADDRESS	4	CCTTOKA	Address of JES2 token
460	(1CC)	CHARACTER	1	CCTRCOMC	JES2 Reader command char
461	(1CD)	CHARACTER	1	CCTCOMCH	JES2 Command character (OS/390 command input)
462	(1CE)	BITSTRING	1	CCTDSTFL	USERDEST flags - see HCT field $DESTFLG
463	(1CF)	BITSTRING	1	CCTFLAG0	FLAG BYTE 0
		1...		CCT0EASS	"B'10000000'" Extended addressing space (EAS) has been activated. Once activated - never deactivated. Mirror of $HCT field $SPLEASS.
		.1..		CCTSTDSI	"B'01000000'" JES2 started without the NODSI PPT/SCHEDxx option
464	(1D0)	CHARACTER	4	CCTSID	Alphanumeric member name
468	(1D4)	CHARACTER	8	CCTMVSNM	MVS system name
476	(1DC)	ADDRESS	4	CCTRBGN	IOT REUSE START THRESHOLD
480	(1E0)	ADDRESS	4	CCTRLMT	SPIN IOT REUSE FAILURE LIMIT
484	(1E4)	ADDRESS	4	CCTEXTBL	ADDRESS OF REASON TEXTABLE
488	(1E8)	ADDRESS	4	CCTINXTB	ADDRESS OF REASON INDEXTBLE
492	(1EC)	ADDRESS	4	CCTQINDX	Address of Que Index table
496	(1F0)	ADDRESS	4	CCT#INDX	Address of copy of sysout class queue index
500	(1F4)	ADDRESS	4	CCTXMAQ	Address of XMAQENTs (XCF member status table)
504	(1F8)	ADDRESS	4	CCTJACCT	Addr of JES2-NET acct table
508	(1FC)	ADDRESS	4	CCTNACCT	Addr of NET-JES2 acct table
512	(200)	SIGNED	4	CCTIPDDB	IOTPDDB offset for primary allocation IOT
516	(204)	ADDRESS	4	CCTASDS	ASDS data space-ptr to 1st ASDS entry
520	(208)	SIGNED	4	CCTEVTA	EVT ALET
524	(20C)	ADDRESS	4	CCTENFST	ENF stub routines
528	(210)	ADDRESS	8	CCTCDCTQ	Address of local CDCTQHDS
Data space control block (DSB) anchors					
536	(218)	ADDRESS	4	CCTDSB	Anchor for all JES2 DSBs
SPOOL constants					
540	(21C)	ADDRESS	2	CCTBFSIZ	Spool buffer size
542	(21E)	SIGNED	2	CCTNSPL	Max number of spool volumes
542	(21E)	X'21F'	0	CCTNSPB	"CCTNSPL+1,1" allowed (one byte version)
544	(220)	ADDRESS	1		Reserved for future use
545	(221)	ADDRESS	1	CCTTKCEL	TRAKCELL size in buffers

Table 206. Structure HCCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
546	(222)	SIGNED	2	CCTSPLNM	Copy of $SPOLNUM from HCT (can update via command)
		THE ESTIMATED COUNT FIELDS MUST BE KEPT TOGETHER AND ARE MAPPED BY THE EST DSECT GENERATED BY THE $EST MACRO. EACH ELEMENT IS CURRENTLY 8 BYTES LONG. SIMILIAR FIELDS ALSO EXIST IN THE $HCT AND THE $SJXB. DO NOT USE THE RESERVED FIELDS FOR ANYTHING OTHER THAN ESTIMATED COUNT TYPE OF INFORMATION AND VERIFY THAT THE $HCT AND $SJXB ARE ALSO UPDATED. DO NOT DELETE ANY RESERVED FIELDS IN HERE EITHER.			
548	(224)	ADDRESS	4	CCTEST1(0)	FIRST ESTIMATED COUNT TABLE
548	(224)	BITSTRING	12	(0)	Keep next 12 bytes together
548	(224)	ADDRESS	4	CCTPGINT	EST PAGE MSG INTERVAL
552	(228)	ADDRESS	1		EXECUTION PAGE OPTION
553	(229)	ADDRESS	3		RESERVED
556	(22C)	SIGNED	4		PAGE default estimate
560	(230)	BITSTRING	12	(0)	Keep next 12 bytes together
560	(230)	ADDRESS	4	CCTOTINT	EST BYTE MSG INTERVAL
564	(234)	ADDRESS	1		EXECUTION BYTE OPTION
565	(235)	ADDRESS	3		RESERVED
568	(238)	SIGNED	4		BYTE default estimate
572	(23C)	BITSTRING	12	(0)	Keep next 12 bytes together
572	(23C)	ADDRESS	4	CCTLNINT	EST LINE MSG INTERVAL
576	(240)	ADDRESS	1		EXECUTION LINE OPTION
577	(241)	ADDRESS	3		RESERVED
580	(244)	SIGNED	4		LINE default estimate
584	(248)	BITSTRING	12	(0)	Keep next 12 bytes together
584	(248)	ADDRESS	4	CCTPUINT	EST CARD MSG INTERVAL
588	(24C)	ADDRESS	1		EXECUTION PUNCHED CARD OPTION
589	(24D)	ADDRESS	3		RESERVED
592	(250)	SIGNED	4		PUNCH default estimate
596	(254)	BITSTRING	12	(0)	Keep next 12 bytes together
596	(254)	ADDRESS	4	CCTTMINT	XEQ TIME MSG INTERVAL
600	(258)	ADDRESS	1	CCTTIMOP	EXECUTION TIME OPTION
601	(259)	ADDRESS	3		RESERVED
604	(25C)	SIGNED	4		TIME default estimate
		END OF THE ESTIMATED COUNT FIELDS DEFAULT PRIORITY TABLE FOR ESTIMATED ELASPED TIME. EACH TABLE ENTRY CONSISTS OF TWO FIELDS. THE FIRST FIELD IS THE PRIORITY FOR THE INTERVAL AND THE SECOND FIELD DEFINES THE SIZE OF THE INTERVAL.			
608	(260)	BITSTRING	40	CCTIMETB(0)	ESTIMATED TIME PRIORITY TABLE
608	(260)	ADDRESS	1		FIRST INTERVAL
612	(264)	ADDRESS	1		SECOND INTERVAL
616	(268)	ADDRESS	1		THIRD INTERVAL
620	(26C)	ADDRESS	1		FOURTH INTERVAL
624	(270)	ADDRESS	1		FIFTH INTERVAL
628	(274)	ADDRESS	1		SIXTH INTERVAL
632	(278)	ADDRESS	1		SEVENTH INTERVAL
636	(27C)	ADDRESS	1		EIGHTH INTERVAL
640	(280)	ADDRESS	1		NINTH INTERVAL
644	(284)	ADDRESS	4		
		Copies of HCT fields needed for input processing			

Table 206. Structure HCCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
648	(288)	BITSTRING	1	CCTROPTS	JES2 run options ($RUNOPTS)
649	(289)	BITSTRING	1	CCTJOPTS	Job card options ($RJOBOPT)
650	(28A)	ADDRESS	1	CCTLINCT	Max line per page ($LINECT)
651	(28B)	BITSTRING	1	CCTJOPT2	Conversion opt ($RJOBOP2)
652	(28C)	CHARACTER	8	CCTSTFRM	Standard forms ($STDFORM)
660	(294)	ADDRESS	3	CCTTO(0)	OWN NODE INFORMATION
660	(294)	ADDRESS	2	CCTTONOD	OWN NODE ID (BINARY)
662	(296)	ADDRESS	1	CCTTOQUL	Own node system ID (binary)
663	(297)	CHARACTER	9	CCTNDE(0)	Node name and length
663	(297)	BITSTRING	1	CCTNDENL	Actual length of node name
664	(298)	CHARACTER	8	CCTNDENM	NODE NAME
672	(2A0)	ADDRESS	2	CCTNONOD	MAXIMUM NODE NUMBER
674	(2A2)	ADDRESS	2	CCTROUT	HIGHEST DEFINED RJE
676	(2A4)	ADDRESS	4	CCTPCT	PCT address
680	(2A8)	ADDRESS	4	CCTRRT	ADDR OF RMT ROUTING EQUIV TABLE
684	(2AC)	ADDRESS	4	CCTRDT	ADDRESS OF REMOTE DESTINATION TABLE
688	(2B0)	ADDRESS	4	CCTRDTA	ALET for RDT data space
692	(2B4)	ADDRESS	4	CCTNITA	ALET for NIT data space
696	(2B8)	ADDRESS	4	CCTIRSMD	Storage for IR IRIS models
700	(2BC)	ADDRESS	4	CCTBATMD	Address of the BATCH internal reader model IRIS
704	(2C0)	ADDRESS	4	CCTSTCMD	Address of the STC internal reader model IRIS
708	(2C4)	ADDRESS	4	CCTTSOMD	Address of the TSO internal reader model IRIS
712	(2C8)	ADDRESS	4	CCTREQJI	Request jobid specification
716	(2CC)	ADDRESS	4	CCTXITA	ADDRESS OF XIT TABLE
720	(2D0)	ADDRESS	4	CCTTPHZ	Address of Job Phase text table
724	(2D4)	ADDRESS	4	CCTTDLY	Address of job delay text table
		EVENTLOG Record Type suppression flags. If ON a bit indicates that record type will not be written to the EVENTLOG data set. CCTFLAG6 must be kept in sync with: $FLAG6 in the HCT PDBEVTLS in the PDDB NJH2FLG2 in the NJE job header			
728	(2D8)	BITSTRING	1	CCTFLAG6	FLAG BYTE 6 ($FLAG6)
		1...		CCT6ESMF	"B'10000000'" Suppress EVENTLOG SMF rec
		.1..		CCT6ESTP	"B'01000000'" Suppress EVENTLOG STEP rc
		..1.		CCT6ERST	"B'00100000'" Suppress EVENTLOG RESTART
		...1		CCT6ETRC	"B'00010000'" Suppress EVENTLOG TRACE r
		.... 1...		CCT6EUSR	"B'00001000'" Suppress EVENTLOG USER rc
729	(2D9)	BITSTRING	1	CCTKFCF7	FLAG BYTE 7 ($KFCFLG7)
		1...		CCT7EVTW	"B'10000000'" Suppress EVENTLOG writes
		.1..		CCT7NNJE	"B'01000000'" Suppress non-printable data sets on NJE

Table 206. Structure HCCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
730	(2DA)	BITSTRING	2		Reserved
JECL validity vectors					
732	(2DC)	ADDRESS	4	CCTJVSTC	Addr STC JECL validity tbl
736	(2E0)	ADDRESS	4	CCTJVTSU	Addr TSU JECL validity tbl
740	(2E4)	ADDRESS	4	CCTJVJOB	Addr JOB JECL validity tbl
744	(2E8)	SIGNED	4	CCTSEGLM	SEGMENT LIMIT FOR A GIVEN SYSOUT DATA SET
748	(2EC)	SIGNED	4	CCTSPLCL	MAX SPECIAL LOCAL ROUTE
752	(2F0)	SIGNED	4	(0)	Align HFAME's
752	(2F0)	CHARACTER	72	CCTCKPT1	CKPT1 HFAME
824	(338)	CHARACTER	1	CCTCKPT2	CKPT2 HFAME
MAIN TASK AUTHORIZATION INDEX FOR CROSS MEMORY					
896	(380)	SIGNED	4	CCTAXL(0)	AUTHORIZATION INDEX (AX) LIST
896	(380)	SIGNED	2	CCTAXN	NUMBER OF AXS REQUESTED
898	(382)	SIGNED	2	CCTAXV	VALUE (AX) RETURNED BY AXRES
DATA BLOCKS					
860	(35C)	X'35C'	0	CCTDCB	"*" SYS1.HASPACE DCB
900	(384)	ADDRESS	4	(3)	12-BYTE MEAT OF DCB
912	(390)	ADDRESS	4	CCTDEBFX	Ptr to JES2 CSA DA DEB prefix template
SWB MANAGEMENT					
916	(394)	ADDRESS	4	CCTKEYTB	ADDRESS OF KEYLIST TABLE
920	(398)	DBL WORD	8	CCTJDVT	SJF JDVT NAME
XCF Group token					
928	(3A0)	ADDRESS	4	CCTIXVT	XCF Group token
932	(3A4)	CHARACTER	8	CCTGPNM	XCF group name
ECB extensions (HAM and general processing)					
940	(3AC)	ADDRESS	4	CCTSDADR(0)	Address of ECB extension with bits on indicating initialized
944	(3B0)	SIGNED	4	CCTSDECX(0)	ECB Extension for $EXCP <-- issued in USER environ. | that uses a $SDB |
948	(3B4)	ADDRESS	4	CCTSDPEX	"V(HAMPSTER)" EXCP Post Exit address in | USER environment <--
952	(3B8)	ADDRESS	4	CCTGRADR(0)	Address of ECB extension with bits on indicating initialized
956	(3BC)	SIGNED	4	CCTGRECX(0)	ECB Extension used to <-- invoke routines when | the ECB is posted |
960	(3C0)	ADDRESS	4	CCTGRPEX	"V($ECBEXIT)" ECB Posting validation | and processing routine <--
Keep the EBCDIC level and binary product/service levels together. The field SSCTSUSE points to the field CCTSUSE.					
964	(3C4)	BITSTRING	10	CCTJES2_LEVEL(0)	<-+ Level information

Table 206. Structure HCCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
964	(3C4)	CHARACTER	8	CCTLEVEL	| OS V.R.M, product version | of JES2, copy of $LEVEL, | pointed to by SSCTSUSE
972	(3CC)	ADDRESS	1	CCTPLVL	| Binary product level
973	(3CD)	ADDRESS	1	CCTSLVL	<-+ Binary service level
974	(3CE)	BITSTRING	2		Reserved for future use
976	(3D0)	ADDRESS	4	(5)	Reserved for future use
	GENERIC GROUPING KEY LISTS.				
996	(3E4)	SIGNED	2	CCTGGDKN	NUMBER OF GROUPING KEYS FOR SYSTEM-DEFAULT JDVT
998	(3E6)	CHARACTER	2	CCTGGRSV	RESERVED FOR FUTURE USE
1000	(3E8)	ADDRESS	4	CCTGGDKL	ADDRESS OF KEY LIST FOR SYSTEM-DEFAULT JDVT
1004	(3EC)	ADDRESS	4	CCTGGDKB	ADDRESS OF KEY LIST BLOCK FOR SYSTEM-DEFAULT JDVT
1008	(3F0)	ADDRESS	4	CCTGGFKB	ADDRESS OF KEY LIST BLOCK FOR FIRST NON-DEFAULT JDVT
	Declare the major name and field to hold this subsystem's name for ENQ/DEQ use of the CSA cell fields. Next five fields must be kept together (CCTQNAM to CCTSSVS)				
1012	(3F4)	CHARACTER	8	CCTQNAM(0)	QNAME FOR ALL HASP ENQS
1012	(3F4)	CHARACTER	4		'SYSZ'
1016	(3F8)	CHARACTER	8	CCTSNV(0)	Jes name and version
1016	(3F8)	CHARACTER	4	CCTSSNM	Name of subsystem
1020	(3FC)	CHARACTER	4	CCTSSVS	Version, release, mod
1024	(400)	BITSTRING	1	CCTSSNML	Holds actual length of subsystem name in CCTSSNM field
1025	(401)	BITSTRING	3		Reserved
1028	(404)	BITSTRING	8	CCTCOLDT	Cold start time (used as a unique JESPLEX identifier)
	MINOR RESOURCE NAME FOR INTERNAL READER RESOURCE				
1036	(40C)	CHARACTER	8	CCTRDRSC	Minor name for internal reader resource
	Minor resource name for ENQ/DEQ of SVJ Lock				
1044	(414)	CHARACTER	8	CCTSVJLK	RNAME name for SVJ lock resource
	Minor resource name for ENQ/DEQ of SAPID lock				
1052	(41C)	CHARACTER	8	CCTSAPLK	RNAME name for SAPID lock resource
	Table pair for user environment $BLDMSG calls Note: There is no JES2 table pair for this; the HASP TABLEs are implemented as DYNAMIC tables so both the main task and user environment tables can be pointed to by the main MCT table pair.				
1060	(424)	ADDRESS	4	CCTMGTP(0)	USER ENVIRONMENT $BLDMSG
1060	(424)	ADDRESS	4	CCTMGTU	"V(USERMGT)" User table
1064	(428)	ADDRESS	4		HASP table
1068	(42C)	ADDRESS	4	CCTMGTD	Dynamic table array
	RETURN CONTROL ELEMENTS				

Table 206. Structure HCCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1074	(432)	ADDRESS	2		RESERVED FOR FUTURE USE
	Routines for $XMPOSTX service. These stubs save the caller's registers, sets up the HCCT address in R11, and links to the appropriate service.				
	LARL R11,HCCT Get HCCT address				
1080	(438)	BITSTRING	20		
1094	(446)	X'14'	0	CCTXMSRL	"*-CCTXMSRB" Length of area
	LARL R11,HCCT Get HCCT address				
1100	(44C)	BITSTRING	20		
1114	(45A)	X'14'	0	CCTXMRML	"*-CCTXMRMT" Length of area
1116	(45C)	ADDRESS	4	CCTSTUBA	CCTSTUB pointer (more stub routines
1120	(460)	ADDRESS	4	CCTXCBF	Cross system data retrieval work area
1124	(464)	CHARACTER	8	CCTXNODE	Nodename when JESXCF attach was done (in our member name)
1132	(46C)	BITSTRING	28	CCTJXCFD	JESXCF diagnostic area
1160	(488)	BITSTRING	1	CCTXSTS1	JES2AUX services flags (Use OIL/NIL to update)
		1...		CCTX1AVL	"B'10000000'" Cross-system data task was available at least once since JES2 start
		.1..		CCTX1INI	"B'01000000'" Cross-system data task is ready for use
		..1.		CCTX1GLA	"B'00100000'" Jobgroup logging task was available at least once since JES2 start
		...1		CCTX1GLI	"B'00010000'" Jobgroup logging task is ready for use
1161	(489)	BITSTRING	3		Reserved
1164	(48C)	CHARACTER	8	CCTFMID	JES2 FMID
1172	(494)	SIGNED	4	CCTJQENM	Copy of $JQENUM (# of JQEs)
1176	(498)	ADDRESS	4	CCTZGLA	Jobgroup logging task work area
1180	(49C)	BITSTRING	4	CCTJ2CL	JES2 JECL options (copy of $J2CLOPT)
1184	(4A0)	BITSTRING	4	CCTJ3CL	JES2 JECL options (copy of $J3CLOPT)
1192	(4A8)	ADDRESS	8	CCTCK64	4K pages 64 bit area
1200	(4B0)	SIGNED	8	CCTCK64L	Segments for 4K page area
1208	(4B8)	DBL WORD	8	CCTCKSTK	Token for 4K memory object
1216	(4C0)	SIGNED	4	CCTGCNUM	Copy of $CONJNUM (maximum number of jobs allowed to be defined in a JOBGROUP to run concurrently in one set).
1220	(4C4)	SIGNED	4	CCTGJNUM	Copy of $ZODJNUM (maximum number of jobs allowed to be defined in a JOBGROUP)

Table 206. Structure HCCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		End of Read only (or rarely updated) fields ORG to the next 256 byte memory cache line. This keeps read only fields on a separate cache line from frequently updated fields. NOTE: The ORG to the next 256 byte memory cache line also creates reserved bytes that can be used by the service team to maintain JES2. NOTE: Since the HCCT is obtained on a 256 byte boundary and it starts with a CSA prefix that is not in the HCCT, we need to account for the CSA prefix when rounding.			
		Start of often updated HCCT fields USER COMMON STORAGE FIELDS.			
1272	(4F8)	ADDRESS	4	CCTCUCT	Common user communication table
1276	(4FC)	ADDRESS	4	CCTUCADD	Addr of user common addr table
1280	(500)	ADDRESS	4	CCTUSER1	User field one
1284	(504)	ADDRESS	4	CCTUSER2	User field two
1288	(508)	ADDRESS	4	CCTUSER3	User field three
1292	(50C)	ADDRESS	4	CCTUSER4	User field four
1296	(510)	ADDRESS	4	CCTHASP	HASP condition = 0 - Still up = -1 - ABENDed or ABENDing = +1 - $PJES2 accepted
1296	(510)	X'1'	0	CCTPJES2	"1" $PJES2 accepted
		1...		CCTHOTST	"X'80'" Hot Start Indicated
1296	(510)	BITSTRING	0	CCTABEND	"X'FFFFFFFF'" JES2 has abended
1300	(514)	BITSTRING	1	CCTSTUS	Subsystem status byte
		1...		CCTSTUSP	"X'80'" This is the primary subsystem
		.1..		CCTSTUST	"X'40'" HASP termination complete
		..1.		CCTSTUSR	"X'20'" HASP is restarting
		...1		CCTSMVFN	"X'10'" SPOOL fencing active
		.... 1...		CCTSTIRV	"X'08'" CHKPT device reserved by INIT
		.... .1..		CCTSTPJF	"X'04'" $PJES2,ABEND,FORCE issued
		.... ..1.		CCTSLGDS	"X'02'" Large SPOOL DS support act
		1		CCTSTRPL	"X'01'" A re-IPL is required
1301	(515)	BITSTRING	1		Reserved
1302	(516)	SIGNED	2	CCTMASVR(0)	Versions active in JESplex (copy of $MASVER)
1302	(516)	SIGNED	1	CCTHIGHV	Highest active JES2
1303	(517)	SIGNED	1	CCTLOWV	Lowest active JES2
1304	(518)	DBL WORD	8	(0)	Doubleword align next
1304	(518)	BITSTRING	16	CCTJ2WAT	Time of last main task wait
1320	(528)	BITSTRING	16	CCTJ2DSP	Time of last main task post
1336	(538)	BITSTRING	4	CCTMEMUP	Copy of XMAMEMUP (members that HASPXCF considers up)
1340	(53C)	ADDRESS	4	CCTRCPCQ	Remote Console Processor FIFO CSA CMB queue
1344	(540)	ADDRESS	4	CCTINTRE	Address of first INTRDR element (IRE)

Table 206. Structure HCCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1348	(544)	ADDRESS	1	CCTMVER	Checkpoint level ($MSTRVER)
1349	(545)	BITSTRING	1	CCTFLAG1	FLAG BYTE
		1...		CCT1PJ2T	"B'10000000'" $PJES2,TERM processing has started
		.1..		CCT1PRDF	"B'01000000'" PREFIX DEFINED
		..1.		CCT1SSYS	"B'00100000'" CONDEF SCOPE=SYSTEM
		...1		CCT1SSYP	"B'00010000'" CONDEF SCOPE=SYSPLEX
		.... 1...		CCT1CKWI	"B'00001000'" Checkpoint write is in progress
		.... .1..		CCT1PJSA	"B'00000100'" $PJES2,ABEND issued
		.... ..1.		CCT1PJAC	"B'00000010'" $PJES2,ABEND seen
		1		CCT1E58D	"B'00000001'" ENF 58 debug option (internal)
1350	(546)	BITSTRING	1	CCTFLAG2	Flag byte #2 For proper serialization updates to this field should be done via an OIL/NIL.
		1...		CCT2IRDR	"B'10000000'" Internal readers can be allocated
		.1..		CCT2BATR	"B'01000000'" Internal readers can be used to submit BATCH jobs
		..1.		CCT2PITC	"B'00100000'" PIT(s) with no SJB need to be cleaned up
		...1		CCT2CRCF	"B'00010000'" CKPT RECONFIG is pending or is in progress
		.... 1...		CCT2OPRQ	"B'00001000'" Operator requested CKPT reconfiguration
		.... .1..		CCT2SAPI	"B'00000100'" SAPID scan needed
		.... ..1.		CCT2USJB	"B'00000010'" One or more SJBs have unspun IOTs to be processed
		1		CCT2PSO	"B'00000001'" PSO scan needed
1351	(547)	BITSTRING	1	CCTDEBUG	Debug options ($DEBGOPS)
1352	(548)	BITSTRING	1	CCTFLAG3	Flag byte #3 For proper serialization updates to this field should be done via an OIL/NIL.
		1...		CCT3CONI	"B'10000000'" CONSOLE address space environment initialized
		.1..		CCT3CONT	"B'01000000'" CONSOLE address space environment termination requested
		..1.		CCT3INDM	"B'00100000'" System is in independent mode
		...1		CCT3NHSB	"B'00010000'" An SJB has been newly removed from the HASB
		.... 1...		CCT3NEOM	"B'00001000'" An SJB has been newly placed on the EOM queue
		.... .1..		CCT3PJ2T	"B'00000100'" $P JES2,TERM has begun
		.... ..1.		CCT3MCJC	"B'00000010'" At least 1 multi char batch jobclass exists

Table 206. Structure HCCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1		CCT3AUTO	"B'00000001'" CYCLEMGT=AUTO
1353	(549)	BITSTRING	1	CCTFLAG4	Flag byte #4 JES2 health check indicators
		1...		CCT422OK	"B'10000000'" 2.2 CKPT Mode activation already occurred
		.1..		CCT4REC1	"B'01000000'" CKPT1 needs additional 4K records = see CCTHCRC1
		..1.		CCT4REC2	"B'00100000'" CKPT2 needs additional 4K records - see CCTHCRC2
		...1		CCT4BERT	"B'00010000'" Additional BERTS needed - see CTTHCBRT
		.... 1...		CCT4CYLM	"B'00001000'" CYL_MANAGED support needs to be active
		.... .1..		CCT4MBR	"B'00000100'" One or more MAS members not at z/OS 2.2
		.... ..1.		CCT4JOBQ	"B'00000010'" JOB/OUTPUT queue error prevents both Z11 and Z22 activation.
		1		CCT4CRBR	"B'00000001'" Critical BERT shortage prevents both Z11 and Z22 activation.
1354	(54A)	BITSTRING	1	CCTFLAG5	Flag byte #5 For proper serialization updates to this field should be done via an OIL/NIL.
		1...		CCT5DSRG	"B'10000000'" Large dataset name range enabled
		.1..		CCT5PSTV	"B'01000000'" New CKPT version needed
		..1.		CCT5ENFJ	"B'00100000'" Send ENF 58/70/78 to JESplex only
1355	(54B)	BITSTRING	1	CCTTEST	Reserved for IBM testing
1356	(54C)	BITSTRING	1		Reserved
		1...		CCTTENF	"B'10000000'" Simulate ENF failure
		CONSOLE SERVICE ELEMENTS			
1357	(54D)	BITSTRING	4	CCTCKCON	Console ID for operator requested CKPT reconfig.
1364	(554)	SIGNED	4	CCTDOM86	DOM ID for HASP086
1368	(558)	ADDRESS	4	CCTCOMMQ	COMMAND PROCESSOR QUEUE
1372	(55C)	SIGNED	4	CCTCOMCT	In use count for commands
1376	(560)	SIGNED	4	CCTCMDMX	Maximum number of commands (CMDNUM on CONDEF)
1380	(564)	SIGNED	4	CCTNMCUR	Current number notify CMBs
1384	(568)	SIGNED	4	CCTNMMAX	Maximum no.of notify CMBs
1388	(56C)	SIGNED	4	CCTNMFAL	No. of NOTIFY failures
1392	(570)	ADDRESS	4	CCTCMQTP	Command processing queue from JECL (INTRDRs)
1396	(574)	BITSTRING	4	CCTMEMAT	Copy of XMAMEMAT
1400	(578)	ADDRESS	4	(2)	Reserved for future use

Table 206. Structure HCCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		CROSS-SYSTEM REQUESTS CONTROL INFORMATION. THIS MUST BE MAINTAINED WITH COMPARE AND SWAP. NEW CROSS-SYSTEM REQUESTS ACCEPTED INDICATOR AND COUNT OF CROSS SYSTEM SERVICE REQUESTS (SPOOL DATA SET BROWSE AND JOB INFORMATION SERVICES). INITIALIZED BY HASPIRMA.			
1408	(580)	DBL WORD	8	CCTXSYS(0)	DOUBLE WORD FOR CDS
1408	(580)	BITSTRING	3		RESERVED FOR IBM USE
1411	(583)	BITSTRING	1	CCTXSYSF	CROSS-SYSTEM REQUESTS ACCEPTED FLAG
		1		CCTNXSYS	"X'01'" NO NEW CROSS-SYSTEM REQUESTS ARE TO BE ACCEPTED
1412	(584)	SIGNED	4	CCTXSYSN	COUNT OF CROSS-SYSTEM REQ'S
		$$POST ELEMENTS -- REQUESTS FOR PCE SERVICE These post elements match order of PCEs listen in HCT. Any change made here must also be reflected in HCT.			
1416	(588)	DBL WORD	8	CCTECF(0)	ECF FIELD FOR $$POST, IF BIT IS 1 PCES WAITING FOR CORRESPONDING RESOURCE SHOULD BE $POSTED
1424	(590)	ADDRESS	4	CCTPCEPE(0)	START OF PCE $$POST ELEMENTS
1424	(590)	BITSTRING	5	CCTCOMM	$COMMPCE - commands
1428	(594)	BITSTRING	5	CCTJOB	$EXECPCE - XEQ services
		1...		CCTJOBPF	"X'80'" Job post flag
1432	(598)	BITSTRING	5	CCTASYNC	$ASYNPCE - asynch I/O
1436	(59C)	BITSTRING	5	CCTXSTIM	$XTIMPCE - time excession
1440	(5A0)	BITSTRING	5	CCTTIMER	$TIMEPCE - STIMER
1444	(5A4)	BITSTRING	5	CCTTRPCE	$TRCPCE - event trace log
1448	(5A8)	BITSTRING	5	CCTSPOOL	$SPOLPCE - SPOOL
1452	(5AC)	BITSTRING	5	CCTMLLM	$MLLMPCE - line manager
1456	(5B0)	BITSTRING	5	CCTOFFM	$SOMPCE - SPOOL offload
1460	(5B4)	BITSTRING	5	CCTCKPTP	$CKPTPCE - checkpoint
1464	(5B8)	BITSTRING	5	CCTRCP	$MCONPCE - Remote Console
1468	(5BC)	BITSTRING	5	CCTSSPCE	$SFSPCE -Schedulr Service
1472	(5C0)	BITSTRING	5	CCTENFP	$ENFPCE - ENF listen PCE
1476	(5C4)	BITSTRING	5	CCTJQRP	$JQRPCE - JQE request PCE
1480	(5C8)	BITSTRING	5	CCTMISC	$MISCPCE - Miscellaneous
1480	(5C8)	X'F'	0	CCTPCENO	"(*-CCTPCEPE)/4" Number of PCE $$POST elmts
1484	(5CC)	BITSTRING	5	CCTPCEFL	Reserved
1488	(5D0)	BITSTRING	5		Reserved
		CHAINING FIELD FOR THE CSA CELL SERVICES. $GETCEL AND $FRECEL IN HASCLINK. ALSO, THE CELL STORAGE ALLOCATED AND CELL STORAGE ALLOCATED BUT NOT IN USE FIELDS.			
1492	(5D4)	ADDRESS	4	CCTCSACH	CSA CELL CHAIN HEADER
1496	(5D8)	SIGNED	4	CCTCALLC	CSA ALLOCATED CELL STORAGE
1500	(5DC)	SIGNED	4	CCTCFREE	CSA FREE CELL STORAGE

Table 206. Structure HCCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Communication queues and WAIT/POST elements for main task communication with user address spaces. Cross-memory POST parameter list for use by $$POST. The ECB address actually points to a piece of fixed CSA containing the ECB, CCTPOSTW, and CCTBLANKs.			
		CTPOSTE POST - , POST word 1 = main task ECB addr			
		ASCB= - , POST word 2 = JES2 ASCB addr			
		ERRET=CCTBR14 POST word 3 = CCTBR14			
		ECBKEY=YES POST word 4 = Key of ECB			
		MACDATE 12/25/13			
1504	(5E0)	ADDRESS	4	CCTPOSTE	. 1ST WORD - ECB ADDRESS
1508	(5E4)	ADDRESS	4		. 2ND WORD - ASCB ADDRESS
1512	(5E8)	ADDRESS	4		. 3RD WORD - ERRET ADDRESS
1516	(5EC)	ADDRESS	4		. 4TH WORD - BYTE0,ECBKEY
1516	(5EC)	X'5E0'	0	CCTHECBA	"CCTPOSTE" ADDRESS OF MAIN HASP ECB
1516	(5EC)	X'5E4'	0	CCTASCB	"CCTPOSTE+4,4,C'A'" ADDRESS OF HASP ASCB
1516	(5EC)	X'5EC'	0	CCTHECBK	"CCTPOSTE+12,1" Storage key of HASP ECB
1516	(5EC)	X'4'	0	CCTPOSTW	"4" OFFSET TO $$POST WORK INDICATOR
1516	(5EC)	X'8'	0	CCTBLANK	"8" 48 FIXED BLANKS
1516	(5EC)	X'38'	0	CCTFIXL	"4+1+3+48" LENGTH OF FIXED CSA SPACE
1520	(5F0)	SIGNED	4	(0)	Align CCTCGECB
1520	(5F0)	BITSTRING	1	CCTCGECB	CSA general ECB/XECB
		The SJB job communication queues. HASCSRJB is dependent on any SJB queue that could be a valid value for the SJBQUEUE field in the SJB to be between CCTSJBB and CCTSJBE.			
1544	(608)	ADDRESS	4	CCTSJBB(0)	Beginning of SJB queues <----
1544	(608)	ADDRESS	4	CCTJPCLS	SJBS PENDING JOB-BY-CLASS |
1548	(60C)	ADDRESS	4	CCTJPWLM	SJBS PENDING WLM init |
1552	(610)	ADDRESS	4	CCTJPNUM	SJBS PENDING JOB-BY-NUMBER |
1556	(614)	ADDRESS	4	CCTJXCLS	SJBS EXECUTING JOB-BY-CLASS |
1560	(618)	ADDRESS	4	CCTJXNUM	SJBS EXECUTING JOB-BY-NUMBER|
1564	(61C)	ADDRESS	4	CCTJTERM	SJBS WITH JOBS TO TERMINATE |
1568	(620)	ADDRESS	4	CCTJRENQ	SJBS WITH JOBS TO RE-ENQUEUE|
1572	(624)	ADDRESS	4	CCTSJBE(0)	End of SJB queues <----
1572	(624)	ADDRESS	4	CCTJTEOM(2)	Address of first and last SJB on EOM queue
		CCTMSMPC is the current sampling buffer being used by the monitor. CCTMSMPS is a frozen sampling buffer captured for dump processing. Under normal processing CCTMSMPC and CCTMSMPS point to the same buffer. To freeze a buffer, clear CCTMSMPC. The monitor will get another buffer for processing. To release a frozen buffer, clear CCTMSMPS. The next sample will reset CCTMSMPS.			
1580	(62C)	ADDRESS	4	CCTMSMPC	Cur monitor sampling buffer
1584	(630)	ADDRESS	4	CCTMSMPS	Frozen sampling buffer

Table 206. Structure HCCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1588	(634)	SIGNED	4	CCTJLMAX	Local maximum job number (from $JNT)
1592	(638)	SIGNED	4	CCTSLKST	Number of times $SJBLOCK was stolen - update using CS logic
1596	(63C)	SIGNED	4	CCTSLKUS	Number of times $SJBLOCK was usurped - update using CS logic
1600	(640)	SIGNED	4	CCTDGBRT	Number of times BERTREAD (DGBMVBRT) gives up retry. Update using CS logic
1604	(644)	SIGNED	4	CCTBEGN	Number of times $SSIBEGN removed stale HASBs - update using CS logic
1608	(648)	ADDRESS	4	CCTCSHED	Head of STAC FIFO queue
1612	(64C)	ADDRESS	4	CCTCSTAI	Tail of STAC FIFO queue
1616	(650)	ADDRESS	4	CCTPSO	Head of PSO LIFO queue
1620	(654)	ADDRESS	4	CCTPSOQ	Addr of MTQH for PSO
1624	(658)	ADDRESS	4	CCTSPIOT	CHAIN OF IOTS AWAITING SPIN
1628	(65C)	ADDRESS	4	CCTFIFOQ	FIFO REORDERED SPIN/HOLD REQUESTS
1632	(660)	SIGNED	4	CCTFIFON	Nr of entries in CCTFIFOQ
1636	(664)	SIGNED	4	CCTSPINC	COUNT OF SPIN IOTS SPUN
1640	(668)	DBL WORD	8	(0)	Ensure CCT1SAP aligned <---
1640	(668)	ADDRESS	4	CCT1SAP	Address of first SAPID in | the SAPID data space |
1644	(66C)	SIGNED	4	CCT1SAPC	Counter used in CDS <---
1648	(670)	SIGNED	4	CCTSJWEL	Last unique JWEL key assigned to a SAPID
1652	(674)	ADDRESS	4	CCTSAPIQ	Address of MTQH for SAPI requests
1656	(678)	ADDRESS	4	CCTTINA	Address of TINA (WTO D S)
1660	(67C)	SIGNED	4	CCTTINAA	ALET for TINA (WTO D S)
1664	(680)	ADDRESS	4	CCTIOERR	SPOOL PROCESSOR I/O ERROR QUEUE
1668	(684)	ADDRESS	4	CCTNOUSQ	Notify User Request Queue
1672	(688)	ADDRESS	4	CCTPAD	Head of PROCLIB PAD queue
1676	(68C)	ADDRESS	4	CCTCIP	Head of CIPARM area queue
1680	(690)	ADDRESS	4	CCTCICB	Head of CICB queue
1684	(694)	SIGNED	4	(3)	Reserved
		Following fields contain the queue heads and counts for resource management of Scheduler Facility Service SFRBs acquired in ECSA. The CCTSFREQ/CCTSSRCT fields are serialized using CDS and must be kept in a doubleword.			
1696	(6A0)	DBL WORD	8	CCTSFREQ(0)	Scheduler Facilty Request Q
1696	(6A0)	ADDRESS	4		Request queue header
1700	(6A4)	SIGNED	4	CCTSSRCT	Count of SFRBs on Request Q
1704	(6A8)	ADDRESS	4	CCTSFPNQ	Scheduler Facilty Pending Q
1708	(6AC)	SIGNED	4	CCTSSNCT	Count of SFRBs on Pending Q
1712	(6B0)	ADDRESS	4	CCTSFPRQ	Scheduler Facilty Process Q
1716	(6B4)	SIGNED	4	CCTSSPCT	Count of SFRBs on Process Q
1720	(6B8)	SIGNED	4	CCTSSMAX	Maximum no.of SFRBs
1724	(6BC)	BITSTRING	1	CCTSSTAT	Status flag for Sched.Serv
		1...		CCTSSDWN	"B'10000000'" Scheduler PCE disabled

Table 206. Structure HCCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		CCTSSDIS	"B'01000000'" Scheduler PCE disabling
1725	(6BD)	BITSTRING	1	CCTFLAG8	Flag byte #8 For proper serialization updates to this field should be done via an OIL/NIL.
		1		CCT8ENFD	"B'00000001'" An ENF RC=8 dump has been taken
1726	(6BE)	ADDRESS	2		Reserved for future IBM use
1728	(6C0)	ADDRESS	4	CCTFSSCB	ADDR OF FIRST FSSCB IN CHAIN
SPOOL DATA MANAGEMENT					
1732	(6C4)	ADDRESS	4	CCTSRCH	TGB ENTRY TO BEGIN TG SEARCH FROM FOR $STRAK AND $TRACK
1736	(6C8)	ADDRESS	4	CCTPDDB1	OFFSET WITHIN IOT OF 1ST PDDB
1740	(6CC)	ADDRESS	4	CCTTGAEL	TGAE AREA LENGTH FOR A NON-SPIN PRIMARY ALLOCATION IOT
1744	(6D0)	SIGNED	2	CCTNBUFX	Copy of $NUMBUFX from HCT (can update via command)
1746	(6D2)	BITSTRING	6		Reserved
1752	(6D8)	DBL WORD	8	(0)	Doubleword alignment to force optimum MVC performance
1752	(6D8)	BITSTRING	32	CCTMTSPL	SPOOLS WHICH HAVE SPACE
1784	(6F8)	BITSTRING	32	CCTSPLAF	Spools with affinity for this member
1816	(718)	BITSTRING	32	CCTVBLOB	Spools with space in the BLOB
1848	(738)	BITSTRING	12	CCTTGBA(0)	TGB VALUES FOR BLOB
1848	(738)	ADDRESS	4	CCTTGBF	FIRST TGB ENTRY ADDRESS
1852	(73C)	ADDRESS	4	CCTTGBS	TGB ENTRY SIZE
1856	(740)	ADDRESS	4	CCTTGBL	Last TGB entry
1860	(744)		4	CCTBYTS	Bytes of spool (FP value)
1864	(748)	BITSTRING	1	CCTNQCNT	SPOOL ENQ COUNTER
1865	(749)	BITSTRING	1	CCTFNCNT	Number of volumes to fence a job to
1866	(74A)	BITSTRING	2		Reserved for future use
1868	(74C)	SIGNED	4	CCTTGDEF	Number of defined TGs ($TGDEFND)
1872	(750)	DBL WORD	8	(0)	FORCE DOUBLEWORD ALIGNMENT
1872	(750)	ADDRESS	4	CCTTGASC	TGB REQUEST ASCB
1876	(754)	ADDRESS	4	CCTTGECB	TGB REQUEST ECB
1880	(758)	ADDRESS	4	CCTELCMB	Addr of first CMB for reset ckpt lock command. Use CS logic to update.
1884	(75C)	ADDRESS	4	CCTPJCLQ	Address of main task queue header for PJCL requests

Table 206. Structure HCCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description

		The following 2 fields can be used in conjunction with the QSESITIM field on a HOT start to determine if a CKPT write has completed. CCTCKTAC is a copy of $CKPTOAC and represents the active CKPT write. CCTCKTNX is a copy of $CKPTONX and represents the next checkpoint write. CCTSITIM is a copy of QSESITIM and represents when the current write started.
		Assuming this is a hot start and you have a CKPT token from before JES2 went down, then the following logic will tell you if the write actually completed.
		- If TOKEN ¬= CCTCKTAC and TOKEN ¬= CCTCKTNX then the write has completed
		- If TOKEN = CCTCKTNX then the write never started and the CKPT did not happen
		- If TOKEN = CCTCKTAC then the write started. To determine if it actually completed, check QSESITIM (in the $QSE in $INIWARM)
		  - If CCTSITIM = QSESITIM then the write completed
		  - If CCTSITIM ¬= QSESITIM then the write never happened.			

1888	(760)	SIGNED	4	CCTCKTAC	Active CKPT I/O token
1892	(764)	SIGNED	4	CCTCKTNX	Next CKPT I/O token
1896	(768)	BITSTRING	8	CCTSITIM	TOD of last CKPT write
		Queue heads for ENF LISTEN Event processor.			
1904	(770)	DBL WORD	8	CCTENFQ(0)	EVT queue
1904	(770)	ADDRESS	4	CCTENFQH	EVT head
1908	(774)	ADDRESS	4	CCTENFQT	EVT tail
		Queue heads for JQE Request processor			
1912	(778)	DBL WORD	8	CCTJQRBQ(0)	JQE Request block queue
1912	(778)	ADDRESS	4	CCTJQRBH	JQRB head
1916	(77C)	ADDRESS	4	CCTJQRBT	JQRB tail
1920	(780)	SIGNED	4	CCTJQRBN	Nr of entries in CCTJQRBQ (can go negative!)
1924	(784)	SIGNED	4		Reserved
		Each time a structure available ENF is received, the JES2 listen exit increments this count. This is used to determine when structures become available for processing.			
1928	(788)	SIGNED	4	CCTXESEV	Structure avail ENF count
1932	(78C)	CHARACTER	4	CCTDFCB	Default printer FCB (see $PRTFCB in HCT)
		Data needed by Health Checker for messages about 1.11 Checkpoint mode activation.			
1936	(790)	SIGNED	4	CCTHCRC1	Number of 4K records needed by CKPT1
1940	(794)	SIGNED	4	CCTHCRC2	Number of 4K records needed by CKPT2
1944	(798)	SIGNED	4	CCTHCBRT	Number of BERTs needed
		SAPI WSP chains. These chains are used by JES2 main task only. ALET for these pointers is in $SAPTOK.			

Table 206. Structure HCCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1948	(79C)	ADDRESS	4	CCTSAWST	1st postable SAPI WSP with selection on token
1952	(7A0)	ADDRESS	4	CCTSAWXO	Oldest postable SAPI WSP with selection expression
1956	(7A4)	ADDRESS	4	CCTSAWXN	Newest postable SAPI WSP with selection expression
		CKPT versions ENQ minor names Managed by the CKPT PCE and used delay processes that require a specific checkpoint version. To delay for the next version of a specific type, get a shared ENQ on the appropriate minor name (major name is SYSZjesx). The ENQ should be released after it is obtained.			
1960	(7A8)	CHARACTER	16	CCTMASMN	Latest MAS level info
1976	(7B8)	CHARACTER	16	CCTMBRMN	Latest member info
		Ultimate default JOBCLASS used when we need a default job class that we know is valid.			
1992	(7C8)	CHARACTER	8	CCTDEFCL	Default job class
		Values used for controlling the issuance of HASP790. HASP790 is used to notify the operator that ENF signals have been lost, i.e. not delivered by ENF. Use PLO to update these two fields.			
2000	(7D0)	SIGNED	4	CCT790TM	High 4 bytes of STCK last time HASP790 issued
2004	(7D4)	SIGNED	4	CCTENFR8	Number of RC=8 ENFs since last HASP790 message
		Patch space for code that uses R11 addressability to the HCCT, and the SYSOUT Class Attribute Table (SCAT). These should be the last HCCT fields.			
2008	(7D8)	DBL WORD	8	(0)	
2008	(7D8)	BITSTRING	256	CCTPATCH(2)	Patch spc for R11-HCCT code
		Use the address in CCTSCATP to reference the SCAT rather than doing a LA of CCTSCAT. This helps to prevents massive reassemblies of modules if the length of $HCCT is changed in an APAR.			
2520	(9D8)	SIGNED	2	CCTSCAT(0)	SYSOUT CLASS ATTRIBUTE TABLE
2520	(9D8)	BITSTRING	1	(0)	SYSOUT CLASSES A-Z, 0-9
2520	(9D8)	X'C0'	0	CCTSTLEN	"*-CCTSCAT" LENGTH OF SCAT TABLE
2712	(A98)	ADDRESS	2	(0)	Force asmbly error if SCAT not last
2712	(A98)	DBL WORD	8	(0)	Ensure alignment
2712	(A98)	X'A98'	0	CCTLEN	"*-HCCT" LENGTH OF HCCT

Table 207. Structure CCTSTUB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CCTSTUB	, CSA stub routines
0	(0)	CHARACTER	8	STBID	Eyecatcher
		Stub routine for $MSDDUMP dynamic exit			

Table 207. Structure CCTSTUB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
8	(8)	DBL WORD	8	(0)	Ensure alignment
22	(16)	SIGNED	2		Reserved
24	(18)	CHARACTER	8		Routine eyecatcher
32	(20)	DBL WORD	8	(0)	Round up
32	(20)	X'18'	0	STBMSDLN	"*-STBMDDMP" $MSDDUMP stub routine
	Stub routine for $DYNLPA dynamic exit				
32	(20)	DBL WORD	8	(0)	Ensure alignment
46	(2E)	SIGNED	2		Reserved
48	(30)	CHARACTER	8		Routine eyecatcher
56	(38)	DBL WORD	8	(0)	Round up
56	(38)	X'18'	0	STBDYLLN	"*-STBDYLPA" $DYNLPA stub routine
	Stub routine for $ECBEXIT ECB POST exit				
56	(38)	DBL WORD	8	(0)	Ensure alignment
72	(48)	CHARACTER	8		Routine eyecatcher
80	(50)	DBL WORD	8	(0)	Round up
80	(50)	X'18'	0	STBECXLN	"*-STBECBEX" $ECBEXIT stub routine
	Stub routine for HAMPSTER ECB POST exit				
80	(50)	DBL WORD	8	(0)	Ensure alignment
96	(60)	CHARACTER	8		Routine eyecatcher
104	(68)	DBL WORD	8	(0)	Round up
104	(68)	X'18'	0	STBECSLN	"*-STBECBSD" $ECBEXIT stub routine
	Stub routine for SWAREAD service routine Entered in 24 bit mode and switched to AMODE 31				
104	(68)	DBL WORD	8	(0)	Ensure alignment
	SAM31 , Get into AMODE 31				
108	(6C)	BITSTRING	2		(DC for IPCS expansions)
	LLILF R11,HCCT-HCCT Get HCCT address				
110	(6E)	BITSTRING	6		(DC for IPCS expansions)
110	(6E)	X'70'	0	STBSWRCT	"*-4,4" Where to store HCCT address
126	(7E)	CHARACTER	8		Routine eyecatcher
136	(88)	DBL WORD	8	(0)	Round up
136	(88)	X'20'	0	STBSWRLN	"*-STBSWARD" SWAREAD stub routine
136	(88)	BITSTRING	20		Reserved
160	(A0)	DBL WORD	8	(0)	Ensure alignment
160	(A0)	X'A0'	0	STBLEN	"*-CCTSTUB" Length of stub area

Table 208. Cross Reference for $HCCT

Name	Offset	Hex Tag
CCT#INDX	1F0	
CCTABEND	510	FFFFFF
CCTALLFF	78	78

Table 208. Cross Reference for $HCCT (continued)

Name	Offset	Hex Tag
CCTAMVEC	16C	
CCTASCB	5EC	5E4
CCTASDS	204	
CCTASYNC	598	0
CCTAUXCB	184	
CCTAXL	380	
CCTAXN	380	
CCTAXV	382	
CCTBADA	E8	
CCTBATMD	2BC	
CCTBDJNC	131	
CCTBEGN	644	0
CCTBFSIZ	21C	
CCTBLANK	5EC	8
CCTBLNKS	18	40404040
CCTBMAPS	18C	
CCTBYTS	744	0
CCTCADDR	148	
CCTCALLC	5D8	0
CCTCBRT	190	
CCTCDCTQ	210	
CCTCFREE	5DC	0
CCTCGECB	5F0	0
CCTCICB	690	
CCTCIP	68C	
CCTCKCON	54D	
CCTCKPTP	5B4	0
CCTCKPT1	2F0	40404040
CCTCKPT2	338	40404040
CCTCKSTK	4B8	
CCTCKTAC	760	
CCTCKTNX	764	
CCTCK64	4A8	
CCTCK64L	4B0	
CCTCMDMX	560	
CCTCMQTP	570	
CCTCOLDT	404	
CCTCOMCH	1CD	40
CCTCOMCT	55C	
CCTCOMM	590	0
CCTCOMMQ	558	
CCTCPIDX	150	
CCTCSACH	5D4	
CCTCSHED	648	
CCTCSTAI	64C	
CCTCTABS	14C	
CCTCUCT	4F8	
CCTDAS1	194	
CCTDCB	35C	35C

Table 208. Cross Reference for $HCCT (continued)

Name	Offset	Hex Tag
CCTDEBFX	390	
CCTDEBUG	547	
CCTDEFCL	7C8	40404040
CCTDFCB	78C	
CCTDGBRT	640	0
CCTDOM86	554	
CCTDSB	218	
CCTDSTFL	1CE	0
CCTECF	588	0
CCTELCMB	758	
CCTENFP	5C0	0
CCTENFQ	770	
CCTENFQH	770	
CCTENFQT	774	
CCTENFR8	7D4	0
CCTENFST	20C	
CCTEST1	224	
CCTETDEF	198	
CCTEVTA	208	
CCTEXTBL	1E4	
CCTFFS	78	
CCTFIFON	660	
CCTFIFOQ	65C	
CCTFIXL	5EC	38
CCTFLAG0	1CF	0
CCTFLAG1	545	0
CCTFLAG2	546	0
CCTFLAG3	548	
CCTFLAG4	549	
CCTFLAG5	54A	
CCTFLAG6	2D8	0
CCTFLAG8	6BD	
CCTFMAX	E0	E0
CCTFMID	48C	
CCTFNCNT	749	0
CCTFSSCB	6C0	
CCTF1	B8	1
CCTF12	CC	C
CCTF16	D0	10
CCTF2	BC	2
CCTF255	D4	FF
CCTF4	C0	4
CCTF4096	D8	1000
CCTF6	C4	6
CCTF8	C8	8
CCTGCNUM	4C0	
CCTGGDKB	3EC	
CCTGGDKL	3E8	
CCTGGDKN	3E4	

Table 208. Cross Reference for $HCCT (continued)

Name	Offset	Hex Tag
CCTGGFKB	3F0	
CCTGGRSV	3E6	
CCTGJNUM	4C4	
CCTGPNM	3A4	
CCTGRADR	3B8	
CCTGRECX	3BC	
CCTGRPEX	3C0	
CCTHASP	510	
CCTHAVT	180	
CCTHCBRT	798	
CCTHCRC1	790	
CCTHCRC2	794	
CCTHCT	154	
CCTHECBA	5EC	5E0
CCTHECBK	5EC	5EC
CCTHIBIT	E4	
CCTHIGHV	516	
CCTHMAX	E0	E0
CCTHOTST	510	80
CCTHTCBA	158	
CCTH1	B8	BA
CCTH12	CC	CE
CCTH16	D0	D2
CCTH2	BC	BE
CCTH255	D4	D6
CCTH4	C0	C2
CCTH4096	D8	DA
CCTH6	C4	C6
CCTH8	C8	CA
CCTIINFO	1A0	
CCTILVL	7	
CCTIMETB	260	
CCTINTRE	540	
CCTINXTB	1E8	
CCTIOERR	680	
CCTIPDDB	200	
CCTIRSMD	2B8	
CCTIXVT	3A0	
CCTJACCT	1F8	
CCTJDVT	398	
CCTJES2_LEVEL	3C4	
CCTJLMAX	634	0
CCTJOB	594	0
CCTJOBPF	594	80
CCTJOPTS	289	0
CCTJOPT2	28B	0
CCTJPCLS	608	
CCTJPNUM	610	
CCTJPWLM	60C	

Table 208. Cross Reference for $HCCT (continued)

Name	Offset	Hex Tag
CCTJQELN	1B6	0
CCTJQENM	494	
CCTJQRBH	778	
CCTJQRBN	780	
CCTJQRBQ	778	
CCTJQRBT	77C	
CCTJQRP	5C4	0
CCTJRENQ	620	
CCTJSPL	129	128
CCTJSPLL	128	
CCTJSPLV	129	D1C5E2E2
CCTJSTKN	15C	0
CCTJTEOM	624	
CCTJTERM	61C	
CCTJVJOB	2E4	
CCTJVSTC	2DC	
CCTJVTSU	2E0	
CCTJXCFD	46C	
CCTJXCLS	614	
CCTJXNUM	618	
CCTJXTKN	164	0
CCTJ2CL	49C	
CCTJ2DSP	528	0
CCTJ2WAT	518	0
CCTJ3CL	4A0	
CCTKAC	178	
CCTKEYTB	394	
CCTKFCF7	2D9	0
CCTLEN	A98	A98
CCTLEVEL	3C4	
CCTLINCT	28A	
CCTLMT1	C	
CCTLNINT	23C	
CCTLOWV	517	
CCTMASCB	1AC	
CCTMASMN	7A8	E5C5D9E2
CCTMASVR	516	
CCTMBRMN	7B8	E5C5D9E2
CCTMEMAT	574	
CCTMEMUP	538	
CCTMGTD	42C	
CCTMGTP	424	
CCTMGTU	424	
CCTMISC	5C8	0
CCTMLLM	5AC	0
CCTMONCB	1A8	
CCTMSMPC	62C	
CCTMSMPS	630	
CCTMTSPL	6D8	0

Table 208. Cross Reference for $HCCT (continued)

Name	Offset	Hex Tag
CCTMVER	544	
CCTMVSNM	1D4	40404040
CCTNACCT	1FC	
CCTNBUFX	6D0	0
CCTNDE	297	
CCTNDENL	297	0
CCTNDENM	298	
CCTNEG1	78	78
CCTNITA	2B4	
CCTNITBL	1B0	
CCTNITSZ	1B4	0
CCTNMCUR	564	
CCTNMFAL	56C	
CCTNMMAX	568	
CCTNONOD	2A0	0
CCTNOUSQ	684	
CCTNQCNT	748	0
CCTNSPB	21E	21F
CCTNSPL	21E	0
CCTNXSYS	583	1
CCTOFFM	5B0	0
CCTOFSTB	8	
CCTOTINT	230	
CCTPAD	688	
CCTPATCH	7D8	0
CCTPCEFL	5CC	0
CCTPCENO	5C8	F
CCTPCEPE	590	
CCTPCT	2A4	
CCTPDDB1	6C8	
CCTPGINT	224	
CCTPIT	1B8	
CCTPITNM	1BC	0
CCTPJCLQ	75C	
CCTPJES2	510	1
CCTPLVL	3CC	
CCTPOSTE	5E0	
CCTPOSTW	5EC	4
CCTPSO	650	
CCTPSOQ	654	
CCTPUINT	248	
CCTPVRSN	10	
CCTQINDX	1EC	
CCTQNAM	3F4	
CCTRBGN	1DC	
CCTRCOMC	1CC	40
CCTRCP	5B8	0
CCTRCPCQ	53C	
CCTRDRSC	40C	C9D5E3D9

Table 208. Cross Reference for $HCCT (continued)

Name	Offset	Hex Tag
CCTRDT	2AC	
CCTRDTA	2B0	
CCTREQJI	2C8	
CCTRLMT	1E0	
CCTROPTS	288	0
CCTROUT	2A2	0
CCTRRT	2A8	
CCTSAPIQ	674	
CCTSAPLK	41C	E2C1D7C9
CCTSAWST	79C	
CCTSAWXN	7A4	
CCTSAWXO	7A0	
CCTSCAT	9D8	
CCTSCATP	1C0	
CCTSCIDS	17C	
CCTSDADR	3AC	
CCTSDECX	3B0	
CCTSDPEX	3B4	
CCTSEGLM	2E8	
CCTSFPNQ	6A8	
CCTSFPRQ	6B0	
CCTSFREQ	6A0	
CCTSID	1D0	40404040
CCTSINFO	1A4	
CCTSITIM	768	
CCTSJBB	608	
CCTSJBE	624	
CCTSJWEL	670	0
CCTSLGDS	514	2
CCTSLKST	638	0
CCTSLKUS	63C	0
CCTSLVL	3CD	
CCTSMVFN	514	10
CCTSNV	3F8	
CCTSPINC	664	0
CCTSPIOT	658	
CCTSPLAF	6F8	0
CCTSPLCL	2EC	
CCTSPLNM	222	0
CCTSPOOL	5A8	0
CCTSRCH	6C4	
CCTSSCT	174	
CCTSSDIS	6BC	40
CCTSSDWN	6BC	80
CCTSSMAX	6B8	
CCTSSNCT	6AC	
CCTSSNM	3F8	5C5C5C5C
CCTSSNML	400	0
CCTSSPCE	5BC	0

Table 208. Cross Reference for $HCCT (continued)

Name	Offset	Hex Tag
CCTSSPCT	6B4	
CCTSSRCT	6A4	
CCTSSTAT	6BC	0
CCTSSVS	3FC	5C5C5C5C
CCTSSVT	144	
CCTSTCMD	2C0	
CCTSTDSI	1CF	40
CCTSTFRM	28C	E2E3C440
CCTSTIRV	514	8
CCTSTLEN	9D8	C0
CCTSTPJF	514	4
CCTSTRPL	514	1
CCTSTUB	0	
CCTSTUBA	45C	
CCTSTUS	514	0
CCTSTUSP	514	80
CCTSTUSR	514	20
CCTSTUST	514	40
CCTSVJLK	414	E2E5D140
CCTSYSLX	19C	0
CCTTDLY	2D4	
CCTTED	1C4	
CCTTENF	54C	80
CCTTEST	54B	
CCTTGAEL	6CC	
CCTTGASC	750	
CCTTGBA	738	
CCTTGBF	738	
CCTTGBL	740	
CCTTGBS	73C	
CCTTGDEF	74C	0
CCTTGECB	754	
CCTTIMER	5A0	0
CCTTIMOP	258	
CCTTINA	678	
CCTTINAA	67C	0
CCTTKCEL	221	
CCTTMINT	254	
CCTTO	294	
CCTTOKA	1C8	
CCTTONOD	294	0
CCTTOQUL	296	
CCTTPHZ	2D0	
CCTTRPCE	5A4	0
CCTTSOMD	2C4	
CCTUCADD	4FC	
CCTUSER1	500	
CCTUSER2	504	
CCTUSER3	508	

Table 208. Cross Reference for $HCCT (continued)

Name	Offset	Hex Tag
CCTUSER4	50C	
CCTVBLOB	718	0
CCTVRNUM	0	E
CCTVRSN	0	
CCTXASCB	188	
CCTXCBF	460	
CCTXESEV	788	
CCTXITA	2CC	
CCTXMAQ	1F4	
CCTXMRML	45A	14
CCTXMSRL	446	14
CCTXNODE	464	
CCTXSTIM	59C	0
CCTXSTS1	488	0
CCTXSYS	580	
CCTXSYSF	583	0
CCTXSYSN	584	0
CCTXTRAN	132	44
CCTX1AVL	488	80
CCTX1GLA	488	20
CCTX1GLI	488	10
CCTX1INI	488	40
CCTZERO	38	38
CCTZEROS	38	0
CCTZGLA	498	
CCT0EASS	1CF	80
CCT0FFF	DC	FFFFFF
CCT000F	D4	D4
CCT1CKWI	545	8
CCT1E58D	545	1
CCT1PJAC	545	2
CCT1PJSA	545	4
CCT1PJ2T	545	80
CCT1PRDF	545	40
CCT1SAP	668	
CCT1SAPC	66C	0
CCT1SSYP	545	10
CCT1SSYS	545	20
CCT2BATR	546	40
CCT2CRCF	546	10
CCT2IRDR	546	80
CCT2OPRQ	546	8
CCT2PITC	546	20
CCT2PSO	546	1
CCT2SAPI	546	4
CCT2USJB	546	2
CCT3AUTO	548	1
CCT3CONI	548	80
CCT3CONT	548	40

Table 208. Cross Reference for $HCCT (continued)

Name	Offset	Hex Tag
CCT3INDM	548	20
CCT3MCJC	548	2
CCT3NEOM	548	8
CCT3NHSB	548	10
CCT3PJ2T	548	4
CCT4BERT	549	10
CCT4CRBR	549	1
CCT4CYLM	549	8
CCT4JOBQ	549	2
CCT4MBR	549	4
CCT4REC1	549	40
CCT4REC2	549	20
CCT422OK	549	80
CCT5DSRG	54A	80
CCT5ENFJ	54A	20
CCT5PSTV	54A	40
CCT6ERST	2D8	20
CCT6ESMF	2D8	80
CCT6ESTP	2D8	40
CCT6ETRC	2D8	10
CCT6EUSR	2D8	8
CCT7EVTW	2D9	80
CCT7FFF	E0	7FFFFFFF
CCT7NNJE	2D9	40
CCT790TM	7D0	0
CCT8ENFD	6BD	1
HCCT	0	
STBDYLLN	38	18
STBECSLN	68	18
STBECXLN	50	18
STBID	0	C3C3E3E2
STBLEN	A0	A0
STBMSDLN	20	18
STBSWRCT	6E	70
STBSWRLN	88	20

Chapter 97. $HCT Information

$HCT Programming Interface Information

The following fields are **NOT** programming interface information:

- $ALIPCE
- $BERTPTR
- $CHLOG
- $CHLOGLN
- $CKG1
- $CKG2
- $CKPTFG1
- $CKPTFG2
- $CKPTFG3
- $CKPTFG4
- $CKPTFG5
- $CKPTFLG
- $CKRECN
- $CKW
- $CLCB
- $CURPCE
- $DAWNPCE
- $DILHEAD
- $DILPCE
- $DILTAIL
- $DRQUES
- $DTECKCF
- $DTECKDA
- $DTEEOM
- $DWAHEAD
- $DWATAIL
- $ECBEXTN
- $EOMPCE
- $ERRTABA
- $EXTECBQ
- $HASCB
- $HASPDCB
- $HASPECB
- $HASPECF
- $HASPRB
- $IRCPCE
- $JOEIPCE
- $JOXPTR

- $JOXSIZE
- $JQRPCE
- $JQXPTR
- $KITPTR
- $LCKPTR
- $MASECF
- $MASTER
- $MASTERI
- $MASTERL
- $MISCPCE
- $MLLMECF
- $MSTRID
- $MSTRVER
- $MSTRVRN
- $MVSDISP
- $MVSWAIT
- $NWECB
- $PCELAST
- $PCEORG
- $RCDFRST
- $RCDSIZE
- $READY
- $READYF
- $READYL
- $SAPCACH
- $SCLPEND
- $SPIPCE
- $SPLCNT
- $TBLNUM
- $TGBAD
- $TGMADDR
- $TGMAP
- $TGMHEAD
- $VERSACT
- $VERSINI
- $VERSKPT
- $VERSSTT
- $WCHECK
- $XECBQ
- $XECBQF
- $XECBQL

$HCT Heading Information

Common Name: HASP Communication Table

Macro ID:	$HCT
DSECT Name:	HCT
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	MIT entry for HASPNUC ('MIT HASPNUC ') Offset: HASPCT-HCT Length: 12
Storage Attributes:	Subpool: The subpool of the HASJES20 load module. Key: 1 Residency: Virtual and real storage are below 16M, in the private storage of the JES2 address space. The storage is page fixed.
Size:	See HCTLEN
Created by:	The HCT is assembled into the front of the HASPNUC module and is loaded when the HASJES20 load module is loaded.
Pointed to by:	- As one of the key JES2 control blocks for processing from the JES2 address space, the HCT address is usually in general purpose register 11 in the assembly environments known as JES2 and SUBTASK. - The label HASPCT in HASPNUC, defined as an external symbol for code in the HASJES20 load module, is the address of the HCT. - The HCT is at the front of the HASJES20 load module so the module storage address in the MVS CDE for HASJES20 points to the HCT. - The CCTHCT field of the HCCT common storage control block points to the HCT. - The DTEHCT field in each JES2 subtask's DTE control block points to the HCT. - The CIRHCT field in the initialization PCE work area, the CIRWORK, points to the HCT.
Serialization:	- Serialization depends on the field in question. - Fields might be serialized via Compare-and-swap. - Fields might be serialized implicitly, by being changeable only by the JES2 main task. - Fields might be serialized by the LOCAL/CMS locks. - Fields might be implicitly serialized by being changeable only by a specific JES2 main task processor. - Fields might be implicitly serialized by being changeable only when the JES2 main task owns the checkpoint queues ($QSUSE). - Fields may be usable only for a short-term period (ie., serialization is lost as soon as the processor does a $WAIT).
Function:	The $HCT is the major JES2 control block when executing code which was generated in the JES2 or subtask assembly environment. Register 11 will normally point to this control block in those environments. The $HCT contains routine addresses. pointers to data structures, constants, work areas, fields which contain current values for various types of parameters, a checkpointed section, patch space, Etc..

$HCT mapping

Table 209. Structure HCT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HCT	, HASP Communications Table
0	(0)	BITSTRING	80		HASPNUC Module Info Table
80	(50)	CHARACTER	8	$VERSION	Obsolete. Permanently set to SP 5.3.0 (Do not remove)
88	(58)	CHARACTER	8	$UVERS	Installation version of the JES2 product defined when HASPNUC was assembled
96	(60)	CHARACTER	1	$MACVERS	SP version of MVS maclibs used to assemble HASPNUC
97	(61)	ADDRESS	1	$IPCSLVL	JES2 IPCS level number
98	(62)	ADDRESS	2	$SAVEBOF	Offset to $SAVEBEG (used by IPCS logic)
		Pointer to HASP module directory and LMT anchors			
100	(64)	ADDRESS	4	$HASPMAP	"V($REPTABL)" HASP MODULE DIRECTORY ADDRESS
104	(68)	ADDRESS	4	$LMT1	Addr of 1st Pvt LMT, if any
108	(6C)	ADDRESS	4	$LMT1C	Addr of 1st CSA LMT, if any
112	(70)	ADDRESS	4	$LMTPBOT	Addr of bot'm PVT LMT entry
		WAIT ELEMENTS, EACH SET MUST STAY TOGETHER			
116	(74)	ADDRESS	4	$HASPECB	ADDR OF HASP EVENT CONTROL BLK
120	(78)	SIGNED	4	$ECBEXTN(0)	ECB EXTENSION FOR POST
124	(7C)	ADDRESS	4	$DSPXITA	"V(HASPPXIT)" EXIT DISPATCHING
128	(80)	SIGNED	4	$XFRECBX(0)	ECB EXTENSION FOR SPOOL OFFLOAD
132	(84)	ADDRESS	4	$POSTEXA	"V($POSTEX)" DECB'S .. SPECIFIES POST EXIT
136	(88)	SIGNED	4	$XCPECBX(0)	ECB EXTENSION FOR $EXCP
140	(8C)	ADDRESS	4	$EXCPEXA	"V($IOPSTEX)" EXCP POST EXIT
144	(90)	ADDRESS	4	$NWECB	ECB FOR MISCELLANEOUS USES OF MVS ASYNCHRONOUS SERVICES BY PCES THAT WON'T WAIT ON IT (PAGEFIX)
		Addresses of Remote Work Lookup tables			
148	(94)	ADDRESS	4	$RWL	"V(HASPRWL)" Address of table
152	(98)	ADDRESS	4	$RWLRDRS	"V(HASPRWLR)" Remote reader sub-table
156	(9C)	ADDRESS	4	$RWLPRTS	"V(HASPRWLP)" Remote printer sub-table
160	(A0)	ADDRESS	4	$RWLPUNS	"V(HASPRWLU)" Remote punch sub-table
164	(A4)	ADDRESS	4	$RWLNJRS	"V(HASPRWJR)" Job receiver sub-table
168	(A8)	ADDRESS	4	$RWLNJTS	"V(HASPRWJT)" Job xmitter sub-table
172	(AC)	ADDRESS	4	$RWLNSRS	"V(HASPRWSR)" SYSOUT receiver sub-table
176	(B0)	ADDRESS	4	$RWLNSTS	"V(HASPRWST)" SYSOUT xmitter sub-table
180	(B4)	ADDRESS	4	$STABNDA	"V($STABEND)" ENTRY TO SUBTASK ESTAE RTN

Table 209. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
184	(B8)	ADDRESS	4	$DWAHEAD	Head/Tail of DWAs queued
188	(BC)	ADDRESS	4	$DWATAIL	by subtasks
192	(C0)	ADDRESS	4	$SAPCACH	Ptr to SAPI $#POST cache
196	(C4)	BITSTRING	1	$XCWFLAG	Cache control flags
		1...		$XCWSCEN	"B'10000000'" $#POST cache for SAPI enabled (see $SAPCACH)
		.1..		$XCWLCEN	"B'01000000'" $#POST cache for local devices enabled (see $LDVCACH)
197	(C5)	BITSTRING	3		Reserved for future use
200	(C8)	SIGNED	4	$STUBCNT	$DTEDYN stub counter
204	(CC)	ADDRESS	4	$STUBPTR	$DTEDYN stub routine list
208	(D0)	BITSTRING	4		Reserved
212	(D4)	ADDRESS	4	$SAPTOK	SAPID data space ALET
216	(D8)	ADDRESS	4	$STACTOK	STAC Data space ALET
220	(DC)	ADDRESS	4	$PSOTOK	PSO Data space ALET
224	(E0)	ADDRESS	4	$DILHEAD	Address of first queued DWA element
228	(E4)	ADDRESS	4	$DILTAIL	Address of last queued DWA element
232	(E8)	ADDRESS	4	$ACTRNUM	Number of entries in RSO
236	(EC)	ADDRESS	4	$FREEJOE	Address of free JOE array
	ENTRIES FOR INSTALLATION EXIT, TABLE EXTENSION SERVICES				
240	(F0)	ADDRESS	4	$PRPUSRV	"V(PRPUXSRV)" ADDRESS OF PRPU EXIT SERVICES
244	(F4)	ADDRESS	4	$MCT	"V($MCTABLE)" ADDR HASP MASTER CONTROL TABLE
248	(F8)	ADDRESS	4		Reserved for future use
252	(FC)	ADDRESS	4	$UCT	"V(USERCT)" ADDR USER COMMUNICATION TABLE
256	(100)	ADDRESS	4	$SXADDR	"V(SXADDR)" SXADDR address
260	(104)	ADDRESS	4	$DIAGTBL	ENTRY TO DIAGNOSTIC MSGS TABLE
	Entries for MVS Service Routines				
264	(108)	ADDRESS	4	$JAXPTR	Ptr to JOE index access control object (JAX)
268	(10C)	ADDRESS	4	$SYMBM	Symbol translation Service
	CHAIN HEADS (ORIGIN AND LAST) FOR ALL DTES				
272	(110)	ADDRESS	4	$DTEORG	ORIGIN DTE ADDR (DTENEXT CHAIN)
276	(114)	ADDRESS	4	$DTELAST	LAST DTE ADDR (DTEPREV CHAIN)
	SUBTASK 'TYPE' POINTERS INTO THE DTENEXT CHAIN. NOTE THAT THESE POINTERS ARE ZERO IF NO SUBTASK FOR THAT 'TYPE' IS CURRENTLY ATTACHED.				
280	(118)	ADDRESS	4	$DTEIMAG	IMAGE DTE(S) (HASPIMAG)
284	(11C)	ADDRESS	4	$DTEALOC	ALLOCATE DTE (HOSALLOC)
288	(120)	ADDRESS	4	$DTESPOL	SPOOL DTE(S) (HOSPOOL)
292	(124)	ADDRESS	4	$DTEMIG	SPOOL DTE(S) (HOSMIGR)
296	(128)	ADDRESS	4	$DTEASST	SPOOL DTE(S) (HOSASST)
300	(12C)	ADDRESS	4	$DTESMF	SMF DTE (HASPACCT)
304	(130)	ADDRESS	4	$DTEVTM	VTAM DTE (HASPVTAM)
308	(134)	ADDRESS	4	$DTEWTO	WTO DTE (HASPWTO)

Table 209. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
312	(138)	ADDRESS	4	$DTECNVT	CONVERT DTE(S) (HOSCNVT)
316	(13C)	ADDRESS	4	$DTEOFF	OFFLOAD DTE(S) (HASPOFF)
320	(140)	ADDRESS	4	$DTECKVR	VERSCOPY DTE (HASPCKVR)
324	(144)	ADDRESS	4	$DTECKCF	CKPTONCF DTE (HASPCKCF)
328	(148)	ADDRESS	4	$DTECKDA	CKPTONDA DTE (HASPCKDA)
332	(14C)	ADDRESS	4	$DTEGSUB	GENERAL DTE(S) (HASPSUBS)
336	(150)	ADDRESS	4	$DTEEOM	EOM DTE(S) (HASPEOM)
	SPECIAL DTE POINTERS				
340	(154)	ADDRESS	4	$IMAGE	IMAGE LIBRARY LOADER DTE ADDR
	ERROR STACK POINTERS FOR RECOVERY OPTIONS				
344	(158)	ADDRESS	4	$MAINSTK	"V(STKMAIN)" ADDR OF MAIN TASK ERROR STACK
348	(15C)	ADDRESS	4	$DSTRSTK	"V(STKDSTR)" ADDR OF $DISTERR ERROR STACK
352	(160)	ADDRESS	4	$STERSTK	"V(STKSUBT)" SUBTASK ERROR STACK ORIGIN, SUBTASK STACKS ARE CONTIGUOUS.
352	(160)	X'A'	0	$SPLIOER	"10" Number of SPOOL I/O errors allowed before operator prompted to end warmstart
	HASP CONTROL BLOCK DIRECTORY				
356	(164)	ADDRESS	4	$ACTABLE	ADDR OF AUTOMATIC COMMAND TABLE
360	(168)	ADDRESS	4	$APPLTBL	ADDRESS NJE/SNA APPLICATION TBL
364	(16C)	ADDRESS	4	$AQSE	Addr of this sys's QSE
368	(170)	ADDRESS	4	$ASYNCQ	ADDR ASYNC I/O COMPLETION QUEUE
372	(174)	ADDRESS	4	$ASYPCIQ	ADDRESS OF ASYNC PCIE EXEC QUE
376	(178)	ADDRESS	4	$BERTPTR	Address of BERT CTENT
380	(17C)	ADDRESS	4	$BITSONA	"V($BITSON)" ADDR OF TBLE BITS ON IN A BYTE
384	(180)	ADDRESS	4	$BUSYQUE	ADDRESS OF COMM TASK INPUT QUE
388	(184)	ADDRESS	4	$BUSYRQ	ADDR REMOTE CONSOLE BUSY QUEUE
392	(188)	ADDRESS	4	$CATQUE	Addr of private CATs (not valid past initialization)
396	(18C)	ADDRESS	4	$CHLOG	ADDRESS OF THE CHANGE LOG
400	(190)	ADDRESS	4	$CKG1	ADDRESS OF CKPT1 CKGPAR
404	(194)	ADDRESS	4	$CKG2	ADDRESS OF CKPT2 CKGPAR
408	(198)	ADDRESS	4	$CLCB	ADDRESS CH LOG CNTL BYTES
412	(19C)	ADDRESS	4	$CKPTQHD	CKPT work queue head
416	(1A0)	ADDRESS	4	$CKW	ADDRESS OF CKPT WORK AREA
420	(1A4)	ADDRESS	4	$COMEXTN	ADDR OF COMM EXTENDED AREA
424	(1A8)	ADDRESS	4	$COMMQUE	ADDR COMMAND PROCESSOR WORK Q
428	(1AC)	ADDRESS	4	$COMMQTP	Queue of CMBs from RDR/RTAM
432	(1B0)	BITSTRING	4		Reserved
440	(1B8)	DBL WORD	8	$MIGRQCD(0)	Field used by the CDS instruction when adding or removing an element from the migration I/O queue.
440	(1B8)	ADDRESS	4	$MIGRIOQ	Address of the first buffer in the ASYNC PCE migration I/O queue.

Table 209. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
444	(1BC)	ADDRESS	4	$MIGRQSQ	Migration I/O queue sequence number - ensures uniqueness.
448	(1C0)	ADDRESS	4	$CPTMAP	ADDR OF CPT QUICK INDEX
452	(1C4)	ADDRESS	4	$CPTPOOL	ADDRESS OF FIRST HASP CPT
456	(1C8)	ADDRESS	4	$DADEBAD	ADDRESS HASP DIRECT ACCESS DEB
460	(1CC)	ADDRESS	4	$DASAREA	Addr of DAS header
464	(1D0)	ADDRESS	4	$DASFRST	Addr of first DAS
468	(1D4)	ADDRESS	4	$DASEXT	ADDRESS OF DAS EXT AREA
472	(1D8)	ADDRESS	4	$DOMQUE	ADDRESS OF CMBS AWAITING ACTION
476	(1DC)	ADDRESS	4	$DOMQUEA	ADDR CMBS DESTINED FOR $DOMQUE
480	(1E0)	BITSTRING	4	$EMEMAFF	AFFINITY MASK FOR RESET
484	(1E4)	ADDRESS	4	$ERRTABA	Error table address
488	(1E8)	ADDRESS	4	$EZAADDR	EZASMI work areas
492	(1EC)	ADDRESS	4	$XMASADR	ADDR of Cross MAS XCF CB
496	(1F0)	ADDRESS	4	$GTWKTAB	"V(GTWKTABL)" ADDRESS OF GETWORK TABLE
500	(1F4)	ADDRESS	4	$GETWRKA	"V($GETWORK)" Addr of GETWORK routine
504	(1F8)	ADDRESS	4	$HASCB	ADDRESS OF HASP ASCB
508	(1FC)	ADDRESS	4	$HASPDCB	ADDR OF HASP DIRECT ACCESS DCB
512	(200)	ADDRESS	4	$HASPRB	ADDR OF HASP RB
516	(204)	ADDRESS	4	$HASPTCB	ADDR OF HASP TASK CONTROL BLOCK
520	(208)	ADDRESS	4	$HFAM	ADDR OF HASP FILE ALLOC MAP
524	(20C)	ADDRESS	4	$ICELOST	ADDR OF Frozen ICE queue
528	(210)	ADDRESS	4	$#INDEXA	"V($#INDEX)" ADDR OF SYSOUT CLS QUEUE INDEX
532	(214)	ADDRESS	4	$INIWARM	Addr of INIWARM passed from HASPIR* to HASPWARM
536	(218)	ADDRESS	4	$JESACCT	ADDR OF JES2-TO-NET ACCT TABLE
540	(21C)	ADDRESS	4	$JESTOKA	ADDR OF JES2 SECURITY TOKEN
544	(220)	CHARACTER	8	$JESUSER	User id from JES2 token
552	(228)	CHARACTER	8	$JESSECL	SECLABLE from JES2 token
560	(230)	ADDRESS	4	$JNEW	ADDR MOST RECENT JESNEWS CB
564	(234)	ADDRESS	4	$JNTPTR	ADDR OF HASP JOB NUMBER TABLE
568	(238)	ADDRESS	4	$ZJCPTR	Pointer to the Zone Job Container (ZJC) CTENT.
572	(23C)	ADDRESS	4	$JOBQPTR	ADDR OF HASP JOB QUEUE ORIGIN
576	(240)	ADDRESS	4	$JOTABLE	ADDRESS OF HASP JOT ORIGIN
580	(244)	ADDRESS	4	$JOTPOST	ADDRESS OF JOTPOST MAP
584	(248)	ADDRESS	4	$JQEEXT	ADDRESS OF EXTENSION AREA
588	(24C)	ADDRESS	4	$JQXPTR	Addr of HASP JQX CTENT
592	(250)	ADDRESS	4	$JOXPTR	Addr of HASP JOX CTENT
596	(254)	ADDRESS	4	$JWELTBL	ADDR OF JOE/WRITER EXCLUDE LIST TABLE
600	(258)	ADDRESS	4	$JWEHAVT	ADDR OF ADDRESS SPACE VECTOR TABLE TO CONTAIN WRITER ID NUM
604	(25C)	ADDRESS	4	$KITPTR	ADDRESS OF HASP KIT ORIGIN
608	(260)	ADDRESS	4	$LCKPTR	ADDRESS OF HASP LOAD CKPT TABLE
612	(264)	ADDRESS	4	$LSPTR	Pointer to main JES2 linkage stack for main task
616	(268)	ADDRESS	4	$MASTER	ADDRESS OF MASTER CKPT AREA
620	(26C)	ADDRESS	4	$MASTERI	ADDRESS OF MSTR CKP I/O AREA
624	(270)	ADDRESS	4	$MCONMSG	ADDR REMOTE CONSOLE MSG QUEUE

Table 209. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
628	(274)	ADDRESS	4	$MWORK	ADDR OF RTAM GENERAL WORK AREA
632	(278)	ADDRESS	4	$NETACCT	ADDR OF NET-TO-JES2 ACCT TABLE
636	(27C)	ADDRESS	4	$NITABLE	ADDR OF NODE INFORMATION TABLE
640	(280)	ADDRESS	4	$NITCPTR	Pointer to CKPTed NITs
644	(284)	SIGNED	4	$NITCSEQ	Current seq# of CKPTed NITs
648	(288)	ADDRESS	4	$NUCFIXD	"V($FIXEND)" ADDR OF NUC PAGEFIXED AREA END
652	(28C)	SIGNED	4	$PROCDDN	PROCLIB DD number to use
656	(290)	ADDRESS	4	$PADDR	"V(PADDR)" ADDR OF PRIVATE RTN LIST
660	(294)	ADDRESS	4	$PERFCB	Performance data anchor CB (holds TEWA address before PERFCB memory obtained)
664	(298)	ADDRESS	4	$PRFDATA	"V(PRFTABLE)" Addr of PERFDATA subscripts
668	(29C)	ADDRESS	4	$PITABLE	ADDR HASP PARTITION INFO TABLE
672	(2A0)	ADDRESS	4	$PRMDTBL	ADDRESS OF PRMODE TABLE
676	(2A4)	CHARACTER	8	$HASPPRM	INITIALIZATION PARMS DD NAME
684	(2AC)	CHARACTER	8	$PRMMEMB	DEFAULT PARM MEMBER NAME
692	(2B4)	ADDRESS	4	$QINDEXA	"V($QINDEX)" ADDR OF JOB CLASS QUEUE INDEX
696	(2B8)	ADDRESS	4	$QSE1	ADDRESS OF 1ST HASP QSE
700	(2BC)	ADDRESS	4	$RATABLE	ADDR OF REMOTE ATTRIBUTE TABLE
704	(2C0)	ADDRESS	4	$RCDFRST	Addr of first RECYDAS
708	(2C4)	ADDRESS	4	$RPLCOMQ	Addr of SNA/RPL compl queue
712	(2C8)	ADDRESS	4	$RMTSON	ADDRESS OF REMOTE SIGN-ON TABLE
716	(2CC)	ADDRESS	4	$RTIMTAB	"V($TIMETAB)" ADDR ESTIMATED TIME PRIO TABLE
720	(2D0)	ADDRESS	4	$SAVAREA	Addr next available general save area
724	(2D4)	ADDRESS	4	$SAVALST	Last available save area
728	(2D8)	ADDRESS	4	$SFWA	ADDR OF SWBTU FUNCTIONS WORK AREA ($SFW)
732	(2DC)	ADDRESS	4	$SCQADDR	Address SCQ CTENT
736	(2E0)	ADDRESS	4	$SCT	Address of Spin Comm Table
740	(2E4)	ADDRESS	4	$SMFBUSY	ADDR SMF BUFFER QUEUED FOR I/O
744	(2E8)	ADDRESS	4	$SPOOLQ	BAD TRACK GROUPS TO FORMAT QUES
748	(2EC)	ADDRESS	4	$SOCKTBL	TCP/IP SOCKET TABLE
752	(2F0)	ADDRESS	4	$STWORK	ADDR OF SUBTASK WORK AREA
756	(2F4)	ADDRESS	4	$HCCT	HASP COMMON COMMUNICATION TABLE
760	(2F8)	ADDRESS	4	$STQEACT	ADDR OF 1ST ACTIVE STQE
764	(2FC)	ADDRESS	4	$BADTRTG	Addr of TG map specified via BADTRACK statements
768	(300)	ADDRESS	4	$BSCCHEQ	ADDR of BSC channel end Q
772	(304)	ADDRESS	4	$TQEQUE	ADDR OF HASP TIMER Q ELEMENT Q
776	(308)	ADDRESS	4	$TRGENER	"V(TRGENER)" Generic translate table
780	(30C)	ADDRESS	4	$VLOGQUE	VTAM OPEN/CLOSE ACB SUBTASK QUE
784	(310)	ADDRESS	4	$WLMDATA	Addr of WLM data bundle
788	(314)	ADDRESS	4	$WSAPTR	ADDR OF WORK SELECTION AREA
792	(318)	ADDRESS	4	$XFRACTV	ADDRESS OF 1ST ACTIVE XFR DCT
796	(31C)	ADDRESS	4	$XFRBEND	ADDR OF XFR BUFFER COMPLETION Q
800	(320)	ADDRESS	4	$XFRDEND	ADDR OF XFR DCT SUBTASK COMP Q

Table 209. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
804	(324)	ADDRESS	4	$XITADDR	ADDR OF EXIT INFO TABLE (XIT)
808	(328)	SIGNED	4	$PLXDYNI	CPOOL ID for PLX dynamic areas
		Keep the EBCDIC level and binary product/service levels together.			
812	(32C)	BITSTRING	10	$JES2_LEVEL(0)	Level information
812	(32C)	CHARACTER	8	$LEVEL	Version of the JES2 macros used to assemble HASPNUC <--+
820	(334)	ADDRESS	1	$PLVL	Binary product level |
821	(335)	ADDRESS	1	$SLVL	Binary service level <--+
822	(336)	ADDRESS	2	(0)	Ensure product level is defined correctly
822	(336)	SIGNED	2	$JQEFUDG	Number of TIMECLOC fudges since the last JES2 start
		Track group map table $TGMADDR through $TGBAD must be kept together			
824	(338)	SIGNED	4	$TGMADDR(0)	ADDR HEADER OF TRACK GROUP
824	(338)	ADDRESS	4	$TGMHEAD	HEADER OF TGM GROUP
828	(33C)	ADDRESS	4	$TGMAP	ADDR OF MASTER TRACK GROUP MAP
832	(340)	ADDRESS	4	$TGBAD	ADDR OF BAD TRACK GROUP MAP
832	(340)	X'2'	0	$TBLNUM	"(*-$TGMAP)/4" CALCULATE NUMBER IN TGM TABLE
836	(344)	ADDRESS	4	$TGRADDR	Addr checkpointed BLOB
836	(344)	X'28'	0	$TGRHDR	"40" Length of BLOB header
		RESERVED AREA FOR USER FIELDS			
840	(348)	ADDRESS	4	$UPADDR	ADDR OR USER PRIVATE ADD TABLE
844	(34C)	ADDRESS	4	$USXADDR	USXADDR address
848	(350)	ADDRESS	4	$USER1	RESERVED FOR USER
852	(354)	ADDRESS	4	$USER2	RESERVED FOR USER
856	(358)	ADDRESS	4	$USER3	RESERVED FOR USER
860	(35C)	ADDRESS	2	$USER4	RESERVED FOR USER
862	(35E)	ADDRESS	2	$USER5	RESERVED FOR USER
		HASP OPERATING CONSTRAINTS			
864	(360)	SIGNED	2	$PPBSIZE	Size of the PCE Perf block
866	(362)	ADDRESS	2	$NUMCPTS	NUMBER OF CPTS
868	(364)	ADDRESS	4	$PRIOUT	"V($OUTTAB)" OUTPUT PRIORITY TABLE
872	(368)	ADDRESS	4	$SYNCTOL	TOD CLOCK SYNC ERROR TOLERANCE
880	(370)	DBL WORD	8	$CKPTLEV	LEVEL NUMBER OF CKPT DATA
880	(370)	X'370'	0	$CKPTLVP	"$CKPTLEV,8,C'C'" Define character version of field since PLX and the offset table don't handle doublewords well
880	(370)	X'374'	0	$CKLEVNM	"$CKPTLEV+4,4,C'F'" Fullword level for messages and CTLB comparisons
888	(378)	SIGNED	4	$CKOLDLV	Original checkpoint level # for JOTPOST comparison
892	(37C)	SIGNED	4	$TOTCKSZ	Size of the checkpoint data set in 4K pages
896	(380)	ADDRESS	4	$DELAYTM	MODEL 20 DELAY TIME

Table 209. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
900	(384)	SIGNED	2	$KITNUM	NUM KITS PRESENT IN SYSTEM
902	(386)	SIGNED	2	$WARMACT	Nr of active warmstart PCEs
904	(388)	SIGNED	4	$LOCKOUT	LOCKOUT WARN TIME, SECS/100
908	(38C)	SIGNED	4	$MINHOLD	MINIMUM HOLD TIME, SECS/100
912	(390)	SIGNED	4	$ORIGMHD	Original minhold (used to restore $MINHOLD after all warmstart PCEs have gone dormant)
916	(394)	ADDRESS	4	$MAXINT	MAX INT FOR CKPTW, SECS/100
920	(398)	SIGNED	4	$MINDORM	MINIMUM DORMANT TIME, SECS/100
924	(39C)	SIGNED	4	$MAXDORM	MAXIMUM DORMANT TIME, SECS/100
928	(3A0)	ADDRESS	4	$DDSEGLM	SEGLIM VALUE
932	(3A4)	ADDRESS	2	$MAXDELT	MAXIMUM MESSAGE DELAY TIME
934	(3A6)	ADDRESS	2	$MAXMSGQ	MAXIMUM MSGS TO QUEUE ON SPOOL
936	(3A8)	ADDRESS	2	$NUMPATH	NUMBER OF PATHS PER NIT
938	(3AA)	ADDRESS	2	$MAXHOP	MAXIMUM NJE HOP COUNT
940	(3AC)	ADDRESS	2	$AUTOINV	SNA AUTOLOGON SCAN INTERVAL
942	(3AE)	ADDRESS	2	$NUMAUTO	NUMBER OF AUTOLOGON REMOTES
944	(3B0)	SIGNED	4	$MVSPSEQ	MVS product level at IPL
948	(3B4)	BITSTRING	2		Reserved for future use
950	(3B6)	ADDRESS	1	$CIPERAS	C/I subtasks per addr space
951	(3B7)	BITSTRING	1	$OPTSTA2	More initialization options
		1...		$OP2COMP	"B'10000000'" Compat mode cold start
		.1..		$OP2FULF	"B'01000000'" Full function cold start
	$OPTSTAT INITIALIZATION OPTION DEFINITIONS $OPTSTAT IS PART OF SMF RECORD 43				
952	(3B8)	BITSTRING	1	$OPTSTAT(0)	HASP Init Options (Use BL1 so offset table will be satisfied, but you need AL1 to assign initial value to the byte)
		1...		$OPTFMT	"B'10000000'" FORMAT-- FORCE FORMAT OPTION (OPP IS NOFMT = DEFAULT)
		.1..		$OPTCOLD	"B'01000000'" COLD -- COLD START OPTION (OPP IS WARM = DEFAULT)
		..1.		$OPTREQ	"B'00100000'" REQ -- REQUEST OPTION = DEFAULT (OPPOSITE IS NOREQ)
		...1		$OPTLIST	"B'00010000'" LIST -- HASPPARM LIST = DEFAULT (OPPOSITE IS NOLIST)
		.... 1...		$OPTLOG	"B'00001000'" LOG -- HASPPARM LOG = DEFAULT (OPPOSITE IS NOLOG)
		.... ..1.		$OPTCONS	"B'00000010'" CONSOLE- CONSOLE OPTION
		1		$OPTQWIK	"B'00000001'" QUICK-- NON-ALL-SYSTEMS WARM START (FMT/COLD MUST BE OFF)

Table 209. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
952	(3B8)	X'38'	0	$OPTSTD	"$OPTREQ+$OPTLIST+$OPTLOG" DEFAULTS = NOFMT, WARM, REQ, LIST, LOG
		$OPTSTA1 MORE INITIALIZATION OPTION DEFINITIONS CKPTN OPTION SETS THE FOLLOWING BITS IN $OPTSTA1 $OP1SPEC $OP1CKPT DEFAULT 0 0 CKPT1 1 0 CKPT2 1 1			
953	(3B9)	BITSTRING	3	$OPTSTA1(0)	MORE INIT OPTIONS
		1...		$OP1SPEC	"B'10000000'" CKPTN -- READ FROM A SPECIFIC DATA SET
		.1..		$OP1CKPT	"B'01000000'" CKPTN -- WHICH CKPT TO READ FROM FIRST
		..1.		$OP1PJS2	"B'00100000'" $PJES2 - TERMINATE JES2 OPT
		...1		$OP1SVAL	"B'00010000'" Do spool validation
		.... 1...		$OP1SFCE	"B'00001000'" Whether spool validation done or not was a forced condition
		.... .1..		$OP1UNAC	"B'00000100'" UNACTIVATE system
		.... ..1.		$OP1SVLH	"B'00000010'" Spool validate attempted on last start
953	(3B9)	X'0'	0	$OPT1STD	"0" Default is no SPOOL validation
954	(3BA)	BITSTRING	3	$RUNOPTS(0)	JES2 RUN OPTIONS
		.... .1..		$PRTYOUT	"X'04'" OUTPUT card 'PRTY=' option
		.... ..1.		$PRIOOPT	"X'02'" PRIORITY card option
		1		$PRTYJOB	"X'01'" Job card 'PRTY=' option
955	(3BB)	ADDRESS	1	$PRTOPTS	PRINT OPTIONS
		1...		$PRTBOPT	"X'80'" Local print dbl-buffering option
		.1..		$PUNBOPT	"X'40'" Local punch dbl-buffering option
		..1.		$RPRBOPT	"X'20'" Remote print dbl-buffering option
		...1		$RPUBOPT	"X'10'" Remote punch dbl-buffering option
		.... 1...		$PRTRANS	"X'08'" Print translate option
		.... .1..		$DMNDSET	"X'04'" Specify demand setup option
		.... ..1.		$USERSET	"X'02'" Specify user setup option
		1		$CREATE	"X'01'" JOE create time updated only at create time
956	(3BC)	ADDRESS	1	$RJEOPTS	HASP REMOTE JOB ENTRY OPTIONS
		1...		$ADDSYNS	"X'80'" Additional synchronous idles option
957	(3BD)	ADDRESS	1	$RJOBOPT	Job scan flags:
		1...		$ACTIGN	"B'10000000'" Job account information is ignored

Table 209. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		$ACTREQ	"B'01000000'" Job account information is required
		...1		$OPTINTR	"B'00010000'" Back to back C/I
		.... 1...		$PRCJ3CL	"B'00001000'" Process JES3 JECL
		.... .1..		$SLSLEOF	"B'00000100'" Treat null JCL card // as EOF
958	(3BE)	ADDRESS	1	$LINECT	MAXIMUM LINES PER PAGE
959	(3BF)	ADDRESS	1	$NJEOPTS	HASP NJE options:
		1...		$MAILMSG	"B'10000000'" ISSUE MAIL NOTIFY MSG
		JECL processing options for JES2 and JES3. Each statement uses two bits: - 00 ignore the statement - 01 process and warn - 10 recognize and fail - 11 process the statement Each bit group in the four byte field is numbered left to right: - left-most two bits - number 0 - next two bits - number 1 - etc.			
960	(3C0)	BITSTRING	4	$J2CLOPT	JES2 JECL options: default - process all
960	(3C0)	X'3C0'	0	$J2CLOP1	"$J2CLOPT+0,1" first byte of $J2CLOPT
960	(3C0)	X'3C1'	0	$J2CLOP2	"$J2CLOPT+1,1" second byte of $J2CLOPT
960	(3C0)	X'3C2'	0	$J2CLOP3	"$J2CLOPT+2,1" third byte of $J2CLOPT
960	(3C0)	X'3C3'	0	$J2CLOP4	"$J2CLOPT+3,1" fourth byte of $J2CLOPT
960	(3C0)	X'0'	0	$J2CLJBP	"0" bit grp for JOBPARM
960	(3C0)	X'1'	0	$J2CLMSG	"1" bit grp for MESSAGE
960	(3C0)	X'2'	0	$J2CLNTA	"2" bit grp for NETACCT
960	(3C0)	X'3'	0	$J2CLNFY	"3" bit grp for NOTIFY
960	(3C0)	X'4'	0	$J2CLOUT	"4" bit grp for OUTPUT
960	(3C0)	X'5'	0	$J2CLPRY	"5" bit grp for PRIORITY
960	(3C0)	X'6'	0	$J2CLRTE	"6" bit grp for ROUTE
960	(3C0)	X'7'	0	$J2CLSET	"7" bit grp for SETUP
960	(3C0)	X'8'	0	$J2CLXEQ	"8" bit grp for XEQ
960	(3C0)	X'9'	0	$J2CLXMT	"9" bit grp for XMIT
964	(3C4)	BITSTRING	4	$J3CLOPT	JES2 JECL options: default - ignore all
964	(3C4)	X'3C4'	0	$J3CLOP1	"$J3CLOPT+0,1" first byte of $J3CLOPT
964	(3C4)	X'3C5'	0	$J3CLOP2	"$J3CLOPT+1,1" second byte of $J3CLOPT
964	(3C4)	X'3C6'	0	$J3CLOP3	"$J3CLOPT+2,1" third byte of $J3CLOPT
964	(3C4)	X'3C7'	0	$J3CLOP4	"$J3CLOPT+3,1" fourth byte of $J3CLOPT
964	(3C4)	X'0'	0	$J3CLMN	"0" bit grp for / MAIN
964	(3C4)	X'1'	0	$J3CLDS	"1" bit grp for / DATASET
964	(3C4)	X'2'	0	$J3CLEDS	"2" bit grp for / ENDDATASET

Table 209. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
964	(3C4)	X'3'	0	$J3CLFMT	"3" bit grp for / FORMAT
964	(3C4)	X'4'	0	$J3CLNET	"4" bit grp for / NET
964	(3C4)	X'5'	0	$J3CLNTA	"5" bit grp for / NETACCT
964	(3C4)	X'6'	0	$J3CLOPR	"6" bit grp for / OPERATOR
964	(3C4)	X'7'	0	$J3CLPAU	"7" bit grp for / PAUSE
964	(3C4)	X'8'	0	$J3CLPRC	"8" bit grp for / PROCESS
964	(3C4)	X'9'	0	$J3CLEPR	"9" bit grp for / ENDPROCESS
964	(3C4)	X'A'	0	$J3CLRTE	"10" bit grp for / ROUTE
		If there is a problem performing a job or output queue verify, the reason and related data are stored in the following fields.			
968	(3C8)	SIGNED	4	$QVERDAT	Queue verification data
972	(3CC)	BITSTRING	1	$QVERRSN	Queue verification reason
		JQE verification error indicator			
		1		$QVRNJTE	"X'01'" JNT validation error
		.... ..1.		$QVRNFRE	"X'02'" Job on free que not free
		11		$QVRNFRC	"X'03'" Free JQE count is bad
		.... .1..		$QVRNRQE	"X'04'" Error on rebuild queue
		.... .1.1		$QVRNBDQ	"X'05'" Bad queue in JQE
		.... .11.		$QVRNBDC	"X'06'" Wrong class from JQE
		.... .111		$QVRNBDF	"X'07'" Wrong flags in JQE's CAT
		.... 1...		$QVRNBDI	"X'08'" Wrong index in JQE's CAT
		.... 1..1		$QVRNMJN	"X'09'" Missing job number
		.... 1.1.		$QVRNJXE	"X'0A'" JIX error
		.... 1.11		$QVRNJXM	"X'0B'" JQE not in JIX
		.... 11..		$QVRNART	"X'0C'" Artificial bit on in JQE
		.... 11.1		$QVRNXTH	"X'0D'" JQE extension too high
		.... 111.		$QVRNXTO	"X'0E'" JQE extension is odd
		 1111		$QVRNXTF	"X'0F'" JQE extension is free
		...1		$QVRNWQE	"X'10'" JQE on WLM queue
		...1 ...1		$QVRNWQN	"X'11'" WLMQ bad next pointer
		...1 ..1.		$QVRNJQC	"X'12'" JQE in use count bad
		...1 ..11		$QVRNWQP	"X'13'" WLMQ bad prev pointer
		...1 .1..		$QVRNWQX	"X'14'" WLMQ JQE/JQX loop
		...1 .1.1		$QVRNJQO	"X'15'" Invalid JQE chain field
		...1 .11.		$QVRNJQL	"X'16'" JQE loop detected
		...1 .111		$QVRNWWQ	"X'17'" WLMQ on wrong srvclass q
		...1 1...		$QVRNDJN	"X'18'" DJB Q next pointer 2 big
		...1 1..1		$QVRNDJX	"X'19'" Loop in DJB queue
		...1 1.1.		$QVRNDJQ	"X'1A'" JQE not xeq on DJB queue
		...1 1.11		$QVRNDJZ	"X'1B'" DJB Q next pointer zero
		...1 11..		$QVRNDJE	"X'1C'" DJB name not = JQEJNAME
		...1 11.1		$QVRNDJA	"X'1D'" DJB executing job ^found
		...1 111.		$QVRNDJB	"X'1E'" DJB executing key/nr bad
		...1 1111		$QVRNDJC	"X'1F'" DJB executing key & nr do not match
		..1.		$QVRNDJF	"X'20'" DJB not found
		..1. ...1		$QVRNJBC	"X'21'" Invalid JQE back chain index in JQX
		Dependency network verification error indicator			

Table 209. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1. ..1.		$QVRNLDN	"X'22'" Dependency network associated with a 'logging job' is in error.
		..1. ..11		$QVRNSDN	"X'23'" A job scheduled to a dependency network does not correctly address the dependency network.
		..1. .1..		$QVRNZNF	"X'24'" Dependency network ZOD was not found
		..1. .1.1		$QVRNZFQ	"X'25'" In use control block found w/free queue indx
		..1. .11.		$QVRNZAI	"X'26'" ZJC address/index mismatch
		..1. .111		$QVRNNTZ	"X'27'" ZJC address passed in is not a ZOD
		..1. 1...		$QVRNRSV	"X'28'" ZJC reserved area not zeroes
		..1. 1..1		$QVRNZRS	"X'29'" ZOD reserved area not zeroes
		..1. 1.1.		$QVRNZNX	"X'2A'" ZJC on next ZOD chain is not a ZOD
		..1. 1.11		$QVRNNLG	"X'2B'" Logging job JQE for ZOD not found
		..1. 11..		$QVRNLJI	"X'2C'" Logging job JQE ZOD flds do not match ZOD values
		..1. 11.1		$QVRNNTJ	"X'2D'" ZJC address being proc is not a ZJI
		..1. 111.		$QVRNJNX	"X'2E'" ZJC on next ZJI chain is not a ZJI
		..1. 1111		$QVRNJZD	"X'2F'" ZJI ZOD address bad/does not match input ZOD
		..11		$QVRNJPF	"X'30'" ZJI Parent ZDB address bad or fields mismatch
		..11 ...1		$QVRNJDF	"X'31'" ZJI Dep ZDB address bad or fields mismatch
		..11 ..1.		$QVRNJCF	"X'32'" ZJI next concurrent job not a ZJI
		..11 ..11		$QVRNJSF	"X'33'" ZJI next jobset job not a ZJI
		..11 .1..		$QVRNJEF	"X'34'" ZJI next inerror job not a ZJI
		..11 .1.1		$QVRNJJQ	"X'35'" ZJI JQE not found, not initialization
		..11 .11.		$QVRNJJN	"X'36'" ZJI JQE job name does not match ZJI job name
		..11 .111		$QVRNJJK	"X'37'" ZJI JQE job key does not match ZJI job key
		..11 1...		$QVRNJJR	"X'38'" ZJI JQE not marked as registered
		..11 1..1		$QVRNJJI	"X'39'" ZJI JQE index does not match ZJI index
		..11 1.1.		$QVRNJIN	"X'3A'" ZJI next inerror not a ZJI

Table 209. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..11	1.11	$QVRNJI#	"X'3B'" ZOD inerror count does not match chain ent cnt
		..11	11..	$QVRNDFQ	"X'3C'" ZDB free queue index not zero
		..11	11.1	$QVRNDFI	"X'3D'" ZDB calculated ZJCdoes not match chain ent cnt
		..11	111.	$QVRNDFT	"X'3E'" ZDB ZJC does not have type "ZDB"
		..11	1111	$QVRNDNX	"X'3F'" ZDB next ZDB index does not point to a ZDB
		.1..	....	$QVRNDPI	"X'40'" ZDB parent index is 0
JQE extensions verification error indicator $QEXTVER					
		.1..	...1	$QVRNETH	"X'41'" JQE extension too high
		.1..	..1.	$QVRNETO	"X'42'" JQE extension is odd
		.1..	..11	$QVRNENF	"X'43'" JQE extension not free
BERT verification error found $BERTFIX					
		.1.1	...1	$QVRNBFR	"X'51'" BERT free queue error
		.1.1	..1.	$QVRNBIM	"X'52'" BERT internal map error
		.1.1	..11	$QVRNBDB	"X'53'" BERT dynamic queue error
		.1.1	.1..	$QVRNBNQ	"X'54'" BERT named int head error
		.1.1	.1.1	$QVRNBNI	"X'55'" BERT named int BERT error
		.1.1	.11.	$QVRNBQH	"X'56'" BERT named que head error
		.1.1	.111	$QVRNBQE	"X'57'" BERT named que element er
		.1.1	1...	$QVRNBQL	"X'58'" BERT named que loop error
		.1.1	1..1	$QVRNBQV	"X'59'" BERT named que validity e
		.1.1	1.1.	$QVRNBJF	"X'5A'" BERT JQE point to free
		.1.1	1.11	$QVRNBJH	"X'5B'" BERT JQE point range err
		.1.1	11..	$QVRNBJE	"X'5C'" BERT JQE element error
		.1.1	11.1	$QVRNBOH	"X'5D'" BERT JOE point range err
		.1.1	111.	$QVRNBOE	"X'5E'" BERT JOE element error
		.1.1	1111	$QVRNBOR	"X'5F'" BERT orphan found
CAT verification error found $CATINIT					
		.11.	...1	$QVRNCER	"X'61'" CAT error found
Dependency network verification error ind (continued)					
		.111	...1	$QVRNDPT	"X'71'" ZDB parent index points to a non-ZJI ZJC
		.111	..1.	$QVRNDPN	"X'72'" ZDB parent name does not match parent ZJI name
		.111	..11	$QVRNDNP	"X'73'" ZDB next parent index ZDB points to a non-ZDB
		.111	.1..	$QVRNDDI	"X'74'" ZDB dependent index is 0
		.111	.1.1	$QVRNDDT	"X'75'" ZDB dependent job index points to non-ZJI ZJC

Table 209. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.111 .11.		$QVRNDDN	"X'76'" ZDB dependent job name does not match ZJI jobn
		.111 .111		$QVRNDDX	"X'77'" ZDB dependent next index is not a ZDB
		JOE verification error indicator			
		1... ...1		$QVRNOTE	"X'81'" JOE type error
		1... ..1.		$QVRNOJE	"X'82'" JOE chain error
		1... ..11		$QVRNORQ	"X'83'" JOE rebuild queue error
		1... .1..		$QVRNORE	"X'84'" JOE rebuild chaining err
		1... .1.1		$QVRNOR2	"X'85'" JOE rebuild chaining err
		1... .11.		$QVRNOR3	"X'86'" JOE rebuild chaining err
		1... .111		$QVRNOR4	"X'87'" JOE rebuild chaining err
		1... 1...		$QVRNOR5	"X'88'" JOE rebuild chaining err
		1... 1..1		$QVRNOCE	"X'89'" Char JOE error
		1... 1.1.		$QVRNOCO	"X'8A'" Char JOE order error
		1... 1.11		$QVRNOCQ	"X'8B'" Char JOE queue error
		1... 11..		$QVRNOC1	"X'8C'" Char JOE queue error
		1... 11.1		$QVRNOCC	"X'8D'" Char JOE count error
		1... 111.		$QVRNOC2	"X'8E'" Char JOE queue error
		1... 1111		$QVRNOWE	"X'8F'" Work JOE error
		1..1		$QVRNOWQ	"X'90'" Work JOE queue error
		1..1 ...1		$QVRNOWC	"X'91'" Work JOE class error
		1..1 ..1.		$QVRNOW1	"X'92'" Work JOE queue error
		1..1 ..11		$QVRNOW2	"X'93'" Work JOE queue error
		1..1 .1..		$QVRNOW3	"X'94'" Work JOE queue error
		1..1 .1.1		$QVRNOW4	"X'95'" Work JOE queue error
		1..1 .11.		$QVRNOW5	"X'96'" Work JOE queue error
		1..1 .111		$QVRNOW6	"X'97'" Work JOE queue error
		1..1 1...		$QVRNOW7	"X'98'" Work JOE queue error
		1..1 1..1		$QVRNOW8	"X'99'" Work JOE queue error
		1..1 1.1.		$QVRNCQ1	"X'9A'" Work/char JOE queue error
		1..1 1.11		$QVRNCQ2	"X'9B'" Work/char JOE queue error
		1..1 11..		$QVRNCQ3	"X'9C'" Work/char JOE queue error
		1..1 11.1		$QVRNCQ4	"X'9D'" Work/char JOE queue error
		1..1 111.		$QVRNCQ5	"X'9E'" Work/char JOE queue error
		1..1 1111		$QVRNCQ6	"X'9F'" Work/char JOE queue error
		1.1.		$QVRNCQ7	"X'A0'" Work/char JOE queue error
		1.1. ...1		$QVRNCQ8	"X'A1'" Work/char JOE queue error
		1.1. ..1.		$QVRNTQE	"X'A2'" JOE queue error
		1.1. ..11		$QVRNTRE	"X'A3'" JOE route error
		1.1. .1..		$QVRNTR2	"X'A4'" JOE route error
		1.1. .1.1		$QVRNTUE	"X'A5'" JOE user error
		1.1. .11.		$QVRNTU2	"X'A6'" JOE user error
		1.1. .111		$QVRNTU3	"X'A7'" JOE user error

Table 209. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1.1. 1...		$QVRNTU4	"X'A8'" JOE user error
		1.1. 1..1		$QVRNTPE	"X'A9'" JOE priority error
		1.1. 1.1.		$QVRNTP2	"X'AA'" JOE priority error
		1.1. 1.11		$QVRNTP3	"X'AB'" JOE priority error
		1.1. 11..		$QVRNTCE	"X'AC'" JOE class error
		1.1. 11.1		$QVRNJAR	"X'AD'" Artificial bit on in JOE
		1.1. 111.		$QVRNJOE	"X'AE'" JOT validation error
	JOE verification error indicator				
		11.. ...1		$QVRZFRE	"X'C1'" ZJC on free queue is not free.
		11.. ..1.		$QVRZIDX	"X'C2'" ZJC on free queue does not have an ascending index.
		11.. ..11		$QVRZCOU	"X'C3'" Count of ZJCs in the free queue is incorrect.
973	(3CD)	ADDRESS	1	$SPVLRSN	Reason code for forced spool validation
973	(3CD)	X'1'	0	$SPV1QER	"1" Forced on, queue error
973	(3CD)	X'2'	0	$SPV1VAL	"2" Forced on, prior error
973	(3CD)	X'3'	0	$SPV1OPT	"3" Forced on, init option
973	(3CD)	X'4'	0	$SPV1SPL	"4" Forced off, missing spools
973	(3CD)	X'5'	0	$SPV1BRT	"5" Forced off, BERT shortage
	$DEBUG Option Definitions				
974	(3CE)	BITSTRING	1	$DEBGOPS(0)	DEBUG option flag
975	(3CF)	ADDRESS	1	$DEBGOP2	Second debug options $DEBGOPS bit definitions
	The $DEBGOPS bit definitions are moved to $HASPEQU because of the need of Storage Debug Flag in CPOOL				
975	(3CF)	X'FF'	0	$DBGALL	"FF"
	ESTIMATED COUNT FIELDS DEFAULTS, MAPPED BY THE $EST MACRO				
976	(3D0)	ADDRESS	4	$EST1(0)	FIRST ESTIMATED COUNT TABLE
976	(3D0)	X'5'	0	$ESTTCNT	"5" NUMBER OF ESTIMATED CNT TABLES
976	(3D0)	ADDRESS	4	$ESTPAGE	
976	(3D0)	X'8'	0	$ESTPG9L	"8" 9'S LIMIT FOR ESTNUM
988	(3DC)	ADDRESS	4	$ESTBYTE	
988	(3DC)	X'6'	0	$ESTMX9L	"6" 9'S LIMIT FOR ESTNUM
1000	(3E8)	ADDRESS	4	$ESTLNCT	
1000	(3E8)	X'6'	0	$ESTLN9L	"6" 9'S LIMIT FOR ESTNUM
1012	(3F4)	ADDRESS	4	$ESTPUN	
1012	(3F4)	X'8'	0	$ESTPN9L	"8" 9'S LIMIT FOR ESTNUM
1024	(400)	ADDRESS	4	$ESTIME	
1024	(400)	X'4'	0	$ESTIM9L	"4" 9'S LIMIT FOR ESTNUM
	Values for buffer management - limits, threshholds, free counts, wait counts, etc.				
1036	(40C)	SIGNED	2	$NUMBSC	HASP BSC BUFFER LIMIT
1038	(40E)	SIGNED	2	$BSCPRCT	BSC BUF THRESHOLD PERCENT
1040	(410)	SIGNED	2	$BSCLIM	Old BSC buffer limit used by $T to calc free count
1042	(412)	SIGNED	2	$BSCFREC	Free BSC buffer count

Table 209. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1044	(414)	SIGNED	2	$BSCWBF	Number of BSC buffers being $WAITed for
1046	(416)	SIGNED	2	$BSCNWBF	Number of non-wait requests for BSC buffers
1048	(418)	SIGNED	2	$BSCLGRQ	Largest unfulfilled request for BSC buffers
1050	(41A)	SIGNED	2	$NUMBUF	HASP BUFFER LIMIT
1052	(41C)	SIGNED	2	$BUFPRCT	BUFFER THRESHOLD PERCENTAGE
1054	(41E)	SIGNED	2	$BUFLIM	Old HASP buffer limit used by $T to calc free count
1056	(420)	SIGNED	2	$LBFREC	Free LBUF buffer count
1058	(422)	SIGNED	2	$BUFWBF	Number of HASP buffers being $WAITed for
1060	(424)	SIGNED	2	$BUFNWBF	Number of non-wait requests for HASP buffers
1062	(426)	SIGNED	2	$BUFLGRQ	Largest unfulfilled request for HASP buffers
1064	(428)	SIGNED	2	$NUMBUFX	Control Block buffer limit
1066	(42A)	SIGNED	2	$BFXPRCT	CB THRESHOLD PERCENTAGE
1068	(42C)	SIGNED	2	$BUFXLIM	Old CB buffer limit used by $T to calc free count
1070	(42E)	SIGNED	2	$LBXFREC	Free XBUF buffer count
1072	(430)	SIGNED	2	$BFXWBF	Number of CB buffers being $WAITed for
1074	(432)	SIGNED	2	$BFXNWBF	Number of non-wait requests for CB buffers
1076	(434)	SIGNED	2	$BFXLGRQ	Largest unfulfilled request for CB buffers
1078	(436)	SIGNED	2	$NUMVTAM	HASP VTAM BUFFER LIMIT
1080	(438)	SIGNED	2	$VTMPRCT	VTAM BUF THRESHOLD PERCENT
1082	(43A)	SIGNED	2	$VTMLIM	Old VTAM buffer limit used by $T to calc free count
1084	(43C)	SIGNED	2	$VTMFREC	Free VTAM buffer count
1086	(43E)	SIGNED	2	$VTMWBF	Number of VTAM buffers being $WAITed for
1088	(440)	SIGNED	2	$VTMNWBF	Number of non-wait requests for VTAM buffers
1090	(442)	SIGNED	2	$VTMLGRQ	Largest unfulfilled request for VTAM buffers
1092	(444)	SIGNED	2	$NUMNHB	HASP NHB buffer limit
1094	(446)	SIGNED	2	$NHBPRCT	NHB BUF threshold percent
1096	(448)	SIGNED	2	$NHBLIM	Old NHB buffer limit used by $T to calc free count
1098	(44A)	SIGNED	2	$NHBFREC	Free NHB count
1100	(44C)	SIGNED	2	$NHBWBF	Number of NHB buffers being $WAITed for
1102	(44E)	SIGNED	2	$NHBNWBF	Number of non-wait requests for NHB buffers
1104	(450)	SIGNED	2	$NHBLGRQ	Largest unfulfilled request for NHB buffers
1106	(452)	ADDRESS	2		Reserved
1108	(454)	SIGNED	2	$MAXSESS	MAXIMUM NUMBER OF SESSIONS
1110	(456)	ADDRESS	2	$ICEPRCT	Threshold of ICEs

Table 209. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		ICE free count must be in the second half of a fullword for use by compare and swap logic. $ICEFREC is defined in the second half of the word which also contains $ICELIM, which is the old (not actual) count of ICEs.			
1112	(458)	SIGNED	4	(0)	
1112	(458)	SIGNED	2	$ICELIM	(OLD) count of ICEs
1114	(45A)	SIGNED	2	$ICEFREC	Free count of ICES
1116	(45C)	SIGNED	2	$ICEFRZC	Number of frozen ICEs
1118	(45E)	SIGNED	2	$ABDNBUF	Number of times buffers were abandoned
1120	(460)	ADDRESS	2	$NUMCMDS	HASP CMBs for commands (default set in IRPL) Mirrored in CCTCMDMX
1122	(462)	ADDRESS	2	$CMDPRCT	CMD THRESHOLD PERCENTAGE
1124	(464)	ADDRESS	2	$NUMCMBS	HASP CONSOLE MESSAGE BUFFERS
1126	(466)	ADDRESS	2	$CMBPRCT	CMB THRESHOLD PERCENTAGE
1128	(468)	SIGNED	2	$CMBLIM	Old CMB limit used by $T to calculate free count
1130	(46A)	ADDRESS	2		Reserved
		CMB free count must be in the second half of a fullword for use by compare and swap logic. $CMBFRER is a fullword with the first half reserved, and $CMBFREC in the second half.			
1132	(46C)	SIGNED	4	(0)	Force fullword alignment
1132	(46C)	SIGNED	2		and reserve first half
1134	(46E)	ADDRESS	2	$CMBFREC	COUNT OF FREE CMBS
1136	(470)	ADDRESS	2	$NMSGPRC	Notify msg threshold perct
		$MG607F1 and $MG607F2 must be kept together			
1138	(472)	BITSTRING	2	$MG607FL(0)	HASP607 message flags
1138	(472)	BITSTRING	1	$MG607F1	HASP607 reason codes
		1...		$M607IO	"B'10000000'" Outstanding I/O
		.1..		$M607WTO	"B'01000000'" Outstanding WTO activity
		..1.		$M607ACT	"B'00100000'" Active processors (excluding execution and line manager PCEs)
		...1		$M607HLD	"B'00010000'" Outstanding held processors
		.... 1...		$M607LCK	"B'00001000'" STC/TSU intrdr locks held
		.... .1..		$M607CRS	"B'00000100'" Outstanding cross sys rqsts
		.... ..1.		$M607SPN	"B'00000010'" Outstanding spin activity
		1		$M607PCE	"B'00000001'" Clean withdrawal prohibited due to ended (disposed) processors
1139	(473)	BITSTRING	1	$MG607F2	More HASP607 reason codes
		1...		$M607ESP	"B'10000000'" Outstanding EOM, SAPI or PSO

Table 209. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		$M607AAS	"B'01000000'" Active address spaces (execution PCE)
		..1.		$M607NET	"B'00100000'" Active network devices (line manager PCE)
		...1		$M607DIL	"B'00010000'" DILBERT DWAs waiting to be processed
		.... 1...		$M607ACM	"B'00001000'" Alternate command processor processing commands
		.... .1..		$M607SPM	"B'00000100'" Active SPOOL migration
		.... ..1.		$M607CKR	"B'00000010'" CKPT reconfig in progress
1140	(474)	SIGNED	4	$MG607TM	Time of last 607 message
1144	(478)	SIGNED	4	$NMSGNUM	Current # of notify buffers
1148	(47C)	SIGNED	4	$NMSGFRE	Free Notify msg buf count
1152	(480)	ADDRESS	2	$DISPCNT	PASS NUMBER THROUGH DISPATCHER CODE W/O RUNNING OUT OF WORK
1154	(482)	ADDRESS	2	$DISPACE	PACING VALUE (EFFECTS HOW OFTEN CERTAIN DISPATCHER FUNCTIONS ARE DONE IN A BUSY SYSTEM.
1156	(484)	ADDRESS	2	$NUMSMFB	NUMBER OF HASP SMF BUFFERS
1158	(486)	ADDRESS	2	$SMFPRCT	SMF BUFFER THRESHOLD PERCENTAGE
1162	(48A)	ADDRESS	2	$SMFFREC	COUNT OF FREE SMF BUFFERS
1164	(48C)	ADDRESS	2		Reserved
1166	(48E)	ADDRESS	2	$TGSIZE	NO. OF BUFFERS PER TRACK GROUP
1168	(490)	SIGNED	4	$TGFREEB(0)	TGs free (set at end of KBLOB for JES2 monitor)
1172	(494)	ADDRESS	2	$TTBPRCT	TRACE TABLE THRESHOLD PERCENT (ONLY ACCURATE DURING THRESHOLD PROCESS, CCTTRCWP FIELD ALWAYS CORRECT
1174	(496)	ADDRESS	2		Reserved
1176	(498)	SIGNED	2	$VERSNUM	NUMBER OF CKPT VERSIONS
1178	(49A)	SIGNED	2	$VERSFRE	NUMBER CKPT VERS FREE
1180	(49C)	SIGNED	2	$VERSWRN	USAGE THRESHLD FOR WTO WRN
1182	(49E)	BITSTRING	3	$VERSSTT(0)	VERSIONING STATUS
		1...		$VERSACT	"B'10000000'" ACTIVE
		..1.		$VERSKPT	"B'00100000'" SUSPENDED
		...1		$VERSINI	"B'00010000'" INITIALIZING
1183	(49F)	ADDRESS	1	$SPINACT	Count of active SPIN PCEs
1184	(4A0)	SIGNED	4	$MAXVUSE	Max Number versions in use
1188	(4A4)	SIGNED	4	$MAXFAIL	SEQUENCE FAIL COUNT
1192	(4A8)	SIGNED	4	$NUMFAIL	TOTAL FAIL COUNT
1196	(4AC)	ADDRESS	1	$NOPRCCW	MAXIMUM CCW'S USED BY PRINT
1197	(4AD)	ADDRESS	1	$NOPUCCW	MAXIMUM CCW'S USED BY PUNCH
1198	(4AE)	ADDRESS	1	$SEPPAGE	Separator page options
		1...		$LSEPNON	"B'10000000'" Local sep size of NONE
		.1..		$LSEPHAF	"B'01000000'" Local sep size of HALF
		..1.		$LSEPFUL	"B'00100000'" Local sep size of FULL

Table 209. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		$LSEPDBL	"B'00010000'" Local sep size of DOUBLE
		.... 1...		$RSEPNON	"B'00001000'" Remote sep size of NONE
		.... .1..		$RSEPHAF	"B'00000100'" Remote sep size of HALF
		.... ..1.		$RSEPFUL	"B'00000010'" Remote sep size of FULL
		1		$RSEPDBL	"B'00000001'" Remote sep size of DOUBLE
1199	(4AF)	ADDRESS	1		Reserved
1200	(4B0)	ADDRESS	4	$RSRVCKG	CKG OF RESERVED CKPT DS
1204	(4B4)	ADDRESS	4	$SPOOLCB	SPOOL CB address
TABLE FOR HASP497 DOM ID					
1208	(4B8)	ADDRESS	4	$DOMID1(0)	DOMID TABLE HEADER
1208	(4B8)	ADDRESS	4	$ERDM497	DOMID MSG497 (ERROR CORRECTION)
1212	(4BC)	ADDRESS	4	$RBDM497	DOMID MSG497 (REBUILD)
1212	(4BC)	X'2'	0	$DOMIDN	"(*-$DOMID1)/4" NUMBER OF TABLE ENTRIES
1216	(4C0)	ADDRESS	4	$SCLPEND	Address of $SJ service classes pending dereg.
1220	(4C4)	BITSTRING	1	$PRTOPT2(0)	Additional Print Opts
		1...		$PRTCALL	"B'10000000'" All chnls are new pages
1221	(4C5)	CHARACTER	1	$CCOMCHR	HASP COMMAND ID CHAR (OS INPUT)
1222	(4C6)	CHARACTER	1	$RCOMCHR	HASP COMMAND ID CHAR (RDR/RMT)
1223	(4C7)	BITSTRING	1	$PRFXFLG	PREFIX FLAG
		..1.		$SCOPSYS	"B'00100000'" SCOPE=SYSTEM - DEFAULT
		...1		$SCOPSPL	"B'00010000'" SCOPE=SYSPLEX
1224	(4C8)	SIGNED	4	(0)	ALIGN FOR CL INSTRUCTIONS
1224	(4C8)	CHARACTER	8	$STDFORM	STANDARD FORMS ID
1232	(4D0)	CHARACTER	4	$PRTFCB	STANDARD FCB IMAGE ID
1236	(4D4)	CHARACTER	4	$PRTUCS	STANDARD UCS IMAGE ID
1240	(4D8)	CHARACTER	4	$NIPFCB	3800 INSTALLATION FCB DEFAULT
1244	(4DC)	CHARACTER	4	$NIPUCS	3800 INSTALLATION UCS DEFAULT
1248	(4E0)	CHARACTER	4	$NIPFLSH	3800 INSTALLATION FLASH FRAME DFT
1252	(4E4)	ADDRESS	2	$RMTNUM	Highest Allowed Remote
1254	(4E6)	ADDRESS	2		Reserved for future use
1256	(4E8)	ADDRESS	2	$MLBFSIZ	HASP MULTI-LEAVING BUFFER SIZE
1258	(4EA)	ADDRESS	2	$BFSZBSC	HASP BSC RJE Buffer Size
1260	(4EC)	ADDRESS	2	$BFSZSNA	HASP SNA RJE BUFFER SIZE
1262	(4EE)	ADDRESS	2	$BFSZPP	HASP Print/Punch buf size
1264	(4F0)	SIGNED	2		Reserved for future use
1266	(4F2)	ADDRESS	1	$STIMASK	SPOOL OFFLOAD I/O MGR SCAN MASK
		1...		$STIMBUF	"B'10000000'" $STIMASK BIT FOR BUFFER SCAN
		.1..		$STIMTIM	"B'01000000'" $STIMASK BIT FOR TIMER SCAN
		..1.		$STIMDCT	"B'00100000'" $STIMASK BIT FOR DCT SCAN

Table 209. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		$STIMSBT	"B'00010000'" $STIMASK BIT FOR SUB-TASK SCAN
1267	(4F3)	ADDRESS	1	$SPOLMSG	MAX SPOOL BUFFERS FOR MSGS/RMT
1268	(4F4)	ADDRESS	1	$BSPGCT	PAGES BETWEEN BSP TABLE ENTRIES
1269	(4F5)	ADDRESS	1	$BSPNTE	BSP TABLE ENTRIES
1270	(4F6)	ADDRESS	2	$BSPSIZ	BSP TABLE SIZE
1272	(4F8)	ADDRESS	1	$JCOPYLM	OUTPUT JOB COPY LIMIT
1273	(4F9)	CHARACTER	1	$CCOMCH	TEMP FOR $T PREFIX CHAR
1274	(4FA)	ADDRESS	2	$HTDIST	2770/2780 HORIZONTAL TAB SPACING
1276	(4FC)	ADDRESS	2	$NUMACE	NUMBER OF AUTOMATIC CMD ELEMENTS
1278	(4FE)	ADDRESS	2	$MAXPART	MAXIMUM ACTIVE BATCH INITIATORS
1280	(500)	ADDRESS	1	$SPOFERR	SPOOL OFFLOAD ERROR THRESHOLD
1281	(501)	CHARACTER	1	$RDRAREA	CMD REDIRECT AREA DEFAULT
1282	(502)	BITSTRING	2		Reserved
1284	(504)	ADDRESS	4	$TRTIME	TRACE TABLE TRUNCATION TIME
1288	(508)	ADDRESS	2	$LIRCT	CKPT LOST INTERRUPT RETRY CT
1290	(50A)	BITSTRING	2		Reserved
1292	(50C)	ADDRESS	2	$RETRYCT	CKPT I/O ERROR RETRY CTR
1294	(50E)	ADDRESS	2	$SCANPDL	LENGTH USED FOR $SCAN PARAMETER DISPLAYS (INIT, COMMANDS)
1296	(510)	SIGNED	4	$SCANMDL	MAXIMUM DISPLAY LINES FOR $SCAN CALLS FOR INIT AND CMDS FROM NJE, RJE, OR MCS WITHOUT L=CCA
1300	(514)	ADDRESS	4	$CTBADA(16)	BAD value
1364	(554)	ADDRESS	4	$ROLLSAV	$ROLL save area (PSV64 map)
1368	(558)	ADDRESS	8	$ROTJQE	Addr JQE Rolling Trace Tbl
1376	(560)	ADDRESS	8	$ROTJOE	Addr JOE Rolling Trace Tbl
1384	(568)	ADDRESS	8	$ROTDISP	Dispatcher rolling trace tb
1392	(570)	ADDRESS	8	$ROTSAPI	SAPI rolling trace table
1400	(578)	ADDRESS	8	$ROTCKPT	CKPT rolling trace table
1408	(580)	BITSTRING	16		Reserved
	GENERAL WORK AREA FOR USE BY MAIN TASK				
1424	(590)	DBL WORD	8	(0)	ALIGN $SCANXWA
1424	(590)	CHARACTER	12	$SCANXWA	WORK AREA FOR HASPSXIT, PASSING DATA BETWEEN PRE/POST EXITS, STABS
1424	(590)	CHARACTER	18		ASSURE SUFFICIENT $DEST LENGTH
	Remap $SCANXWA for use in HASP581 message				
1424	(590)	CHARACTER	8	$M581DVN	Logical device name
1432	(598)	SIGNED	4	$M581RC	DYNALLOC return code
1436	(59C)	BITSTRING	2	$M581ERR	DYNALLOC error code
1438	(59E)	BITSTRING	2	$M581INF	DYNALLOC info code
1440	(5A0)	BITSTRING	1	$M581FLG	Flags for HASP581 msg
		1...		$M581FGF	"B'10000000'" - $GETWORK failed for DAIRFAIL parm list
		.1..		$M581FL1	"B'01000000'" - DAIRFAIL formatted text (level 1) to display
		..1.		$M581FL2	"B'00100000'" - DAIRFAIL formatted text (level 2) to display

Table 209. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		$M581FNT	"B'00010000'" - No formatted text (needed to ensure a non-zero DISPER= byte)
		Remap $SCANXWA for us by $D/$T PCE command			
1424	(590)	SIGNED	2	$DPCEDEF	Number of PCEs defined
1426	(592)	SIGNED	2	$DPCEALC	Number of PCEs allocated
1428	(594)	SIGNED	2	$DPCEEND	Number of PCEs ENDed
1432	(598)	SIGNED	4	$DPCEACT	$ACTIVE count for PCEs
1436	(59C)	BITSTRING	1	$DPCEFLG	Flag byte
		1...		$DPCETON	"B'10000000'" Trace on flag
		.1..		$DPCETOF	"B'01000000'" Trace off flag
		..1.		$DPCETMD	"B'00100000'" Trace modified
1436	(59C)	X'C0'	0	$DPCETMX	"$DPCETON+$DPCETOF" Trace mixed
1436	(59C)	X'A0'	0	$DPCETSO	"$DPCETON+$DPCETMD" Trace set on
1436	(59C)	X'60'	0	$DPCETSF	"$DPCETOF+$DPCETMD" Trace set OFF
		...1		$DPCEDSY	"B'00010000'" Dispatchable flag on
		.... 1...		$DPCEDSN	"B'00001000'" Dispatchable flag off
		.... .1..		$DPCEDSM	"B'00000100'" Dispatchable modified
1436	(59C)	X'18'	0	$DPCEDSX	"$DPCEDSY+$DPCEDSN" Dispatchable mixed
1436	(59C)	X'14'	0	$DPCEDSO	"$DPCEDSY+$DPCEDSM" Dispatchable set on
1436	(59C)	X'C'	0	$DPCEDSF	"$DPCEDSN+$DPCEDSM" Dispatchable set off
1436	(59C)	X'D'	0	$DPCELEN	"*-$DPCEDEF" Length of work area
		$SCANXWA/$GENWORK guard bytes			
1444	(5A4)	SIGNED	4	(0)	Align guard byte
1444	(5A4)	BITSTRING	4	$SCNGRD	Guard bytes for $SCANXWA
1448	(5A8)	DBL WORD	8	$GENWORK(0)	GENERAL WORK AREA FOR MAIN TASK
		THIS AREA IS USED BY HASPSCAN AND HASPSXIT AS A WORK AREA			
1448	(5A8)	BITSTRING	24	$SCNDL24	WORK AREA FOR $SCAN SERVICE
1448	(5A8)	X'5A8'	0	$SCNDWKA	"$GENWORK+00,08,C'D'" WORK AREA FOR $SCAN SERVICE
1448	(5A8)	X'5B0'	0	$SCNDWKB	"$GENWORK+08,08,C'D'" WORK AREA FOR $SCAN SERVICE
1448	(5A8)	X'5B8'	0	$SCNDWKC	"$GENWORK+16,08,C'X'" WORK AREA FOR $SCAN SERVICE
1448	(5A8)	X'5A8'	0	$SCNDL16	"$GENWORK+00,16,C'X'" WORK AREA FOR $SCAN SERVICE
1472	(5C0)	SIGNED	4	$SCNLLIM	$SCAN lower limit work area
		THIS WORK AREA IS USED BY THE SRVPRSCN ROUTINE IN HASPSERV TO PROCESS A $TDEVN COMMAND OR A PRINT/PUNCH INITIALIZATION STATEMENT			
1448	(5A8)	BITSTRING	8	$PRMDSAV	SAVE AREA FOR PRMODE OPERAND
1456	(5B0)	BITSTRING	8	$PRMDINX	PRMODE INDEX LIST FROM DCT

Table 209. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1464	(5B8)	BITSTRING	1	$PRMDFLG	PRMODE FLAG BYTE
		1...		$PRMDEND	"B'10000000'" END OF OPERAND FOUND
1464	(5B8)	X'11'	0	$PRMDWKL	"*-$GENWORK" LENGTH OF PRMODE SCAN WORK AREA
		THIS WORK AREA IS USED BY THE $DTEDYN SERVICE ROUTINE FOR THE MVS ATTACH MACRO PARAMETER LIST			
		MACDATE 11/11/91			
1448	(5A8)	SIGNED	4	$DTELSTF(0)	
1448	(5A8)	ADDRESS	4		DE OR EPLOC ADDRESS
1452	(5AC)	ADDRESS	4		DCB ADDRESS
1456	(5B0)	ADDRESS	4		NEW FORMAT + ECB ADDR
1460	(5B4)	ADDRESS	4		GSPL OR GSPV
1464	(5B8)	ADDRESS	4		SHSPV OR SHSPL
1468	(5BC)	ADDRESS	4		EXIT ROUTINE ADDRESS
1472	(5C0)	ADDRESS	2		DPMOD VALUE
1474	(5C2)	ADDRESS	1		LPMOD VALUE
1475	(5C3)	ADDRESS	1		STATUS BYTE
1476	(5C4)	ADDRESS	4	(2)	EP NAME SPACE
1484	(5CC)	ADDRESS	4		ADDRESS OF JSCB
1488	(5D0)	ADDRESS	4		(E)STAI PARM LIST
1492	(5D4)	ADDRESS	4		EXIT ADDRESS
1496	(5D8)	ADDRESS	4		TASKLIB
1500	(5DC)	ADDRESS	1		FLAG BYTE
1501	(5DD)	ADDRESS	1		TASK ID
1502	(5DE)	ADDRESS	2		PARM LIST LENGTH
1504	(5E0)	ADDRESS	4		SUBPOOL LIST ADDRESS/VALUE
1508	(5E4)	ADDRESS	1		SET FLAGS
1509	(5E5)	ADDRESS	1		SET UP FORMAT NUMBER
1510	(5E6)	BITSTRING	10		RESERVED BYTES FOR FUTURE
1510	(5E6)	X'5A8'	0	$DTELIST	"$DTELSTF,*-$DTELSTF" EQUATE FOR BASE AND LENGTH
		THIS WORK AREA IS USED BY THE $DTEDYN SERVICE ROUTINE FOR THE MVS TCBTOKENmacro parameter list			
		MACDATE = 04/03/89			
1448	(5A8)	SIGNED	4	$DTELST2(0)	
1448	(5A8)	CHARACTER	16	(0)	TCB TOKEN (INPUT/OUTPUT)
1448	(5A8)	BITSTRING	8		
1456	(5B0)	SIGNED	4		
1460	(5B4)	ADDRESS	4		
1464	(5B8)	ADDRESS	4		ASCB ADDRESS (INPUT)
1468	(5BC)	SIGNED	4	(0)	FLAGS (INPUT)
1468	(5BC)	SIGNED	1		TYPE OF TCBTOKEN REQUEST
1469	(5BD)	SIGNED	3		RESERVED
1469	(5BD)	X'5A8'	0	$DTELIS2	"$DTELST2,*-$DTELST2" EQUATE FOR BASE AND LENGTH
		This work area is used by the $SCAN facility to build certain variations of the $HASP003 message			
1448	(5A8)	SIGNED	4	$SCANWKA(0)	

Table 209. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1448	(5A8)	BITSTRING	40		List of diagnostic levels
1488	(5D0)	CHARACTER	100		Work area
1588	(634)	X'8C'	0	$GENWRKL	"*-$GENWORK"
	This work area is used by anyone that might have to reference the entire system affinity mask				
1448	(5A8)	BITSTRING	4	$GENSYS	Sys affinity work area
1452	(5AC)	BITSTRING	4	$GENWTHT	Total member mask for WITH= processing
1456	(5B0)	BITSTRING	4	$GENWTHW	Work member mask for WITH= processing
1460	(5B4)	CHARACTER	8	$GENWTJN	Last reference job name
	$SCANXWA/$GENWORK guard bytes				
1588	(634)	BITSTRING	4	$GENGRD	Guard bytes for $GENWORK
	PROCESSOR DEPENDENT FLAG BYTES				
1592	(638)	BITSTRING	3	$PROCESS(0)	General process flg
1592	(638)	X'3'	0	$PROCDFT	"$RASSIGN+$ECKTRMJ" Flags on by default
		1...		$PRONEWS	"B'10000000'" JNEW CB being updated
		.1..		$SPINJQE	"B'01000000'" JQE added to $SPIN queue
		..1.		$PRSCNWB	"B'00100000'" Bypass $SCAN FILTER=WB optimization
		...1		$PRODISP	"B'00010000'" Processors have been ended (disposed)
		.... 1...		$ARMVR	"B'00001000'" Verification of ARM registrations required
		.... ..1.		$RASSIGN	"B'00000010'" Assign original job number, even if outside JOBDEF RANGE
		.... .1..		$INTRDCB	"B'00000100'" Use DCB attributes associated with INTRDR for SYSIN data sets. See comment for RID1UDCB in $DCT.
		1		$ECKTRMJ	"B'00000001'" Remote Member Jettison flag - $ECKPTLOCK done whenever a member fails
1593	(639)	BITSTRING	1	$MCONFG1	REMOTE CONSOLE PROCESSOR FLAG
		1...		$MCONACT	"X'80'" Remote console has output activity
		.1..		$MCONWAT	"X'40'" Remote console waiting for jobqueue
		..1.		$MCONNPM	"X'20'" Network path manager busy
		...1		$MCONWPM	"X'10'" Console waiting on path manager
1594	(63A)	BITSTRING	1	$COMMFG1	COMMAND PROCESSOR FLAG
		1...		$COMMDWN	"X'80'" XEQ/CKPT/SPIN Shutdown complete
		.1..		$COMMWAT	"X'40'" HASPCOMM waiting for checkpoint
		..1.		$COMMABT	"X'20'" Command being aborted

Table 209. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1595	(63B)	BITSTRING	1	$EXECFG1	EXECUTION PROCESSOR FLAG
		1...		$EXECDWN	"X'80'" XEQ shutdown complete
		.1..		$EXECSPN	"X'40'" XEQ is ready for SPIN to do its final processing
1596	(63C)	BITSTRING	1	$CKPTFG1(0)	Ckpt Processor flag
1596	(63C)	X'39'	0	$CK1DFLT	"$CKPTDPY+$CKPTLDP+$CKPTTMD+$CKPTDPS" CKPTDEF DEFAULT: MODE=DUPLEX,DUPLEX=ON
		1...		$CKPTDWN	"B'10000000'" XEQ,CKPT SHUTDOWN COMPLETE
		.1..		$CKPTMSG	"B'01000000'" Do not issue HASP479 msg
		..1.		$CKPTTMD	"B'00100000'" TELLS SCAN WE'RE IN DPLX MD
		...1		$CKPTDPS	"B'00010000'" INDICATES SET TO DUPLEX ON
		.... 1...		$CKPTDPY	"B'00001000'" INDICATES IN DUPLEX MODE
		.... .1..		$CKPTTEK	"B'00000100'" $T'D NEWCKPTN FIELD
		.... ..1.		$CKPTPRI	"B'00000010'" INDICATES PRIO AGING USED
		1		$CKPTLDP	"B'00000001'" INDICATES DUPLEXING LOCALLY
1597	(63D)	BITSTRING	1	$CKPTFG2	Checkpoint processor flag
		1...		$CK2DIAG	"B'10000000'" We're in the dialog
		.1..		$CK2INIT	"B'01000000'" Initialization operation
		..1.		$CK2EXTN	"B'00100000'" CKPT EXTEND pending
		...1		$CK2CKPW	"B'00010000'" CKPT write requested
1598	(63E)	BITSTRING	1	$CKPTFG3	CHECKPOINT PROCESSOR FLAG
		1...		$CK3KRD1	"B'10000000'" KREAD1 processing active
		.1..		$CK3BYLK	"B'01000000'" CKPT lock msg bypassed
		..1.		$CK3CHLG	"B'00100000'" BUILDING CH LOG PACKETS
		...1		$CK34KPG	"B'00010000'" BUILDING 4K PAGE PACKETS
		1		$CK3ACTV	"B'00000001'" CKPT PCE is active (has been dispatched)
1599	(63F)	BITSTRING	1	$CKPTFG4	CHECKPOINT PROCESSOR FLAG
		..1.		$CK4OPVY	"B'00100000'" Request to change OPVERIFY to YES
		...1		$CK4OPVN	"B'00010000'" Request to change OPVERIFY to NO
		.... 1...		$CK4OPRQ	"B'00001000'" Work bit for $SCAN to set operator request
		.... .1..		$CK4HRSV	"B'00000100'" Hardware reserve or CF lock

Table 209. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ..1.		$CK4CKPC	"B'00000010'" KFORMAT needed because CKPT size was changed via operator command or init has deferred format to end of warmstart
		1		$CK4CKAB	"B'00000001'" CKPT subtask ABENDed and cannot find CKG to post
1600	(640)	BITSTRING	1	$TRCFG1	TRACE LOG PROCESSOR FLAG
		1...		$TRCSYSX	"B'10000000'" Tell EVTL to shut down
		1		$TRCDWN	"B'00000001'" Tell XEQ of trace log shutdown
	$CKPTLOC is used in combination with $CKPTUPD to determine if the CKPT data set size (the size of a CTENT) has changed. Every time the size is altered $CKPTUPD is incremented. If $CKPTLOC is not the same as $CKPTUPD, then an update has occured and the CKPT control blocks need to be updated.				
1601	(641)	BITSTRING	1	$CKPTLOC	Local copy of $CKPTUPD
1602	(642)	BITSTRING	1	$CKPTFG5	Checkpoint flag
		1...		$CK5QSUS	"B'10000000'" PCE obtained the queues
		.1..		$CK5ACT	"B'01000000'" $ACTIVATE has occurred
1603	(643)	SIGNED	1	$BERTHRS	Minimum BERTs required for $QADD to be processed
	MISCELLANEOUS HASP CONTROL FIELDS				
1604	(644)	ADDRESS	4	$MSAVE(5)	RTAM NON-REENTRANT REG SAVE AREA
1624	(658)	BITSTRING	4		Reserved
1632	(660)	DBL WORD	8	$POSTSAV(4)	Save area for $POST et al
	Work area used very early during JES2 initialization. These fields are not used once HASPIRA (HASPINIT) gets control.				
1632	(660)	X'648'	0	$STARTTM	"$MSAVE+4,16" STCKE time at label HASP
1632	(660)	X'6D8'	0	$STARTCP	"$SPMSKWA,8" CPU time at label HASP
1664	(680)	SIGNED	4	$GETWKSV(10)	Save area for $GET/$RETWORK
1664	(680)	X'684'	0	$GETWKSF	"$GETWKSV+4,4" $GETWKSV R15 SLOT
1664	(680)	X'68C'	0	$GETWKS1	"$GETWKSV+12,4" $GETWKSV R1 SLOT
1664	(680)	X'690'	0	$GETWKS2	"$GETWKSV+16,4" $GETWKSV R2 SLOT
1704	(6A8)	DBL WORD	8	$DOUBLE	JES2 MAIN-TASK SCRATCH WORK AREA
1704	(6A8)	X'6A8'	0	$SINGLE	"$DOUBLE,4,C'X'" JES2 MAIN-TASK 4 byte area
1712	(6B0)	DBL WORD	8	$DWORK	JES2 MAIN-TASK SCRATCH WORK AREA
1720	(6B8)	DBL WORD	8	$DWORK2	JES2 MAIN-TASK SCRATCH WRK AREA
1720	(6B8)	X'6A8'	0	$WORK16	"$DOUBLE,16,C'X'" JES2 MAIN-TASK 16 BYTE AREA
1720	(6B8)	X'6A8'	0	$WORK24	"$DOUBLE,24,C'X'" JES2 MAIN-TASK 24 BYTE AREA
1728	(6C0)		1	$STKEWRK(0)	STCKE work area

Table 209. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1744	(6D0)	BITSTRING	1	$JOEWRKA	WORK A FOR ADDING JOES TO Q
1745	(6D1)	BITSTRING	3		Reserved for future use
1748	(6D4)	ADDRESS	4	$CATCACH	CAT cache pointer for this member.
1752	(6D8)	SIGNED	4	(0)	Ensure fullword allignment
1752	(6D8)	BITSTRING	32	$SPMSKWA	SPOOL MASK WORK AREA
1784	(6F8)	CHARACTER	32	$BLANKS	32 blank characters
1816	(718)	DBL WORD	8	(0)	Ensure doubleword alignment
1816	(718)	BITSTRING	64	$ZEROS	16 words of zeros
1816	(718)	X'718'	0	$ZEROES	"$ZEROS" ALTERNATE NAME FOR $ZEROS
1816	(718)	X'718'	0	$ZERO	"$ZEROS" Another name for $ZEROS
1880	(758)	BITSTRING	4	$ZEROFFF	QUEUE ELEMENT CHAIN MASK
1880	(758)	X'758'	0	$0FFF	"$ZEROFFF" ALTERNATE NAME FOR $ZEROFFF
1884	(75C)	BITSTRING	4	$000F	INDEX ELEMENT MASK
1888	(760)	BITSTRING	4	$ALLFFS	FULLWORD OF X'FF'S
1888	(760)	X'760'	0	$MINUS1	"$ALLFFS" ALTERNATE NAME FOR $ALLFFS
1892	(764)	BITSTRING	4	$MINUS2	CONSTANT -2
		1...		$WSUSER	"X'80'" WS USER CRITERION INDICATION
1896	(768)	BITSTRING	4	$WSBITOF	USED TO TURN USER ID BIT OFF
1900	(76C)	BITSTRING	8	$MAXDBLE	MAX POSITIVE NUMBER IN DOUBLEWORD
1900	(76C)	X'76C'	0	$MAXFULL	"$MAXDBLE,4" MAX POSITIVE NUMBER IN FULLWORD
1900	(76C)	X'76C'	0	$MAXHALF	"$MAXDBLE,2" MAX POSITIVE NUMBER IN HALFWORD
1900	(76C)	X'76C'	0	$7FFF	"$MAXDBLE,2" HIGH BIT OFF MASK
1900	(76C)	X'76C'	0	$HIBITOF	"$MAXDBLE,4" FULL WORD HI-ORDER BIT MASK
1908	(774)	SIGNED	4	$F0	FULLWORD CONSTANT 0
1908	(774)	X'776'	0	$H0	"$F0+2,2,C'H'" HALFWORD CONSTANT 0
1912	(778)	SIGNED	4	$F1	FULLWORD CONSTANT 1
1912	(778)	X'77A'	0	$H1	"$F1+2,2,C'H'" HALFWORD CONSTANT 1
1916	(77C)	SIGNED	4	$F2	FULLWORD CONSTANT 2
1916	(77C)	X'77E'	0	$H2	"$F2+2,2,C'H'" HALFWORD CONSTANT 2
1920	(780)	SIGNED	4	$F3	FULLWORD CONSTANT 3
1920	(780)	X'77F'	0	$H3	"$F2+3,3,C'H'" HALFWORD CONSTANT 3
1924	(784)	SIGNED	4	$F4	FULLWORD CONSTANT 4
1924	(784)	X'786'	0	$H4	"$F4+2,2,C'H'" HALFWORD CONSTANT 4
1928	(788)	SIGNED	4	$F5	FULLWORD CONSTANT 5
1928	(788)	X'78A'	0	$H5	"$F5+2,2,C'H'" HALFWORD CONSTANT 5
1932	(78C)	SIGNED	4	$F6	FULLWORD CONSTANT 6
1932	(78C)	X'78E'	0	$H6	"$F6+2,2,C'H'" HALFWORD CONSTANT 6

Table 209. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1936	(790)	SIGNED	4	$F7	FULLWORD CONSTANT 7
1936	(790)	X'792'	0	$H7	"$F7+2,2,C'H'" HALFWORD CONSTANT 7
1940	(794)	SIGNED	4	$F8	FULLWORD CONSTANT 8
1940	(794)	X'796'	0	$H8	"$F8+2,2,C'H'" HALFWORD CONSTANT 8
1944	(798)	SIGNED	4	$F15	FULLWORD CONSTANT 15
1948	(79C)	SIGNED	4	$F255	FULLWORD CONSTANT 255
1948	(79C)	X'79E'	0	$H255	"$F255+2,2,C'H'" HALFWORD CONSTANT 255
1952	(7A0)	SIGNED	4	$F4096	FULLWORD CONSTANT 4096
1952	(7A0)	X'7A2'	0	$H4096	"$F4096+2,2,C'H'" HALFWORD CONSTANT 4096
1956	(7A4)	SIGNED	4	$F65535	FULLWORD CONSTANT 65535
1960	(7A8)	SIGNED	4	$HIBITON(0)	FULL WORD HI-ORDER BIT MASK
1960	(7A8)	X'6BC'	0	$HEXTRAN	"*-C'0'" HEXADECIMAL-TO-EBCDIC
1964	(7AC)	CHARACTER	16		TRANSLATE TABLE
1980	(7BC)	BITSTRING	1	$CTLBFFS(0)	X'FF's to test cntl bytes
	SAF CLASS Value. Reference in RACROUTEs should be to name on the EQUate.				
1985	(7C1)	ADDRESS	1	$JSPLL	Length of JESSPOOL class
1986	(7C2)	CHARACTER	8	$JSPLV	JESSPOOL class
1986	(7C2)	X'7C1'	0	$JSPL	"$JSPLL,*-$JSPLL,C'X'" JESSPOOL SAF class
1994	(7CA)	BITSTRING	6		Reserved
2000	(7D0)	DBL WORD	8	(0)	Ensure alignment
2000	(7D0)	DBL WORD	8	$CLOCK	LAST INTERVAL TIMER CLOCK VALUE
2008	(7D8)	BITSTRING	16	$MVSWAIT	STCK Time of MVS WAIT
2024	(7E8)	BITSTRING	16	$MVSDISP	STCK Time when JES2 is dispatched from MVS WAIT
2040	(7F8)	ADDRESS	4	$REGSAVC(18)	NON-REENTRANT REG. SAVE AREA
2040	(7F8)	X'800'	0	$REGSAVE	"$REGSAVC+2*4,4" NON-REENTRANT REG SAVE AREA (16 WORDS-NOTE OVERLAY DEFINITION)
2112	(840)	ADDRESS	1	$PSWSAVE	NON-REENTRANT PSW CC SAVE BYTE
2113	(841)	ADDRESS	1	$PSWMODE	Non-reentrant PSW ASC save byte (copied from PSVMODE)
2114	(842)	ADDRESS	1	$PSWAMOD	Non-reentrant PSW AMODE save byte (copied from PSVAMODE)
2124	(84C)	BITSTRING	8		Reserved

Table 209. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		The $XCFFLG1 and $XCFFLG2 flags indicate the states of the automatic restart function. $XCFFLG1 can only be modified in the main task. $XCFFLG1 is manipulated by SCAN which can return the field to a previous state. This is done via the method SCAN uses to backup the storage that it is modifying (see $SCANB macro). $XCFFLG2 is modified when JESXCF has failed. The $XCF1STR flag indicates a request to start the automatic restart function (AUTOESYS=ON by the operator). The $XCF1STP flag indicates a request to stop the automatic restart function (AUTOESYS=OFF by the operator). The $XCF1NXC in the off state indicates that the automatic restart function is active (ON). The $XCF1NXC in the on state indicates that the automatic restart function is inactive (OFF). The $XCF1ERR flag on indicates that the main task XCF function or the group exit has had an error. With the $XCF1ERR flag set, the display for MASDEF will show AUTOESYS=FAILED. The $XCF2ERR flag on indicates that the group exit has had an error. The $XCF1NRS indicates that RESTART=NO was selected on the MASDEF statement. The $XCF1NRS flag off will indicate that RESTART=YES was chosen.			
2132	(854)	ADDRESS	1	$XCFFLG1	XCF status flags
		1...		$XCF1NAR	"B'10000000'" Request no auto restart
		.1..		$XCF1NRS	"B'01000000'" No XCF restart from this member
		..1.		$XCF1ERR	"B'00100000'" XCF environment failed
		...1		$XCF1STR	"B'00010000'" Request to set AUTOESYS on
		.... 1...		$XCF1STP	"B'00001000'" Request to set AUTOESYS off
		.... .1..		$XCF1SGO	"B'00000100'" An MVS has left the Sysplex
		.... ..1.		$XCF1MUD	"B'00000010'" A member has changed state
2133	(855)	ADDRESS	1	$XCFFLG2	JESXCF status flag
		1...		$XCF2ERR	"B'10000000'" JESXCF environment failed
2136	(858)	ADDRESS	4	$XCFIXVT	JESXCF Group token this is a copy of the $HCCT field CCTIXVT
2140	(85C)	SIGNED	4	$TOTCKRN	Total number of 4K records in the checkpoint (this includes the checkpoint records, master record and change log)
2144	(860)	ADDRESS	4	$DISPSVA	"V($DISPSAV)" Dispatcher PCE save area
2148	(864)	SIGNED	4	$CKPTOAC	TOKEN CURRENT CKPT I/O
2152	(868)	SIGNED	4	$CKPTONX	TOKEN NEXT SCHED CKPT I/O
2160	(870)	DBL WORD	8	$SIDTIME	TOD OF LAST CKPT FOR THIS SYSTEM
2168	(878)	CHARACTER	4	$SID	Member name (SMF) for this member

Table 209. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2172	(87C)	ADDRESS	4	$OWNNIT	ADDR OF THIS SYSTEM'S NIT ENTRY
2176	(880)	CHARACTER	8	$SNV(0)	JES NAME AND VERSION
2176	(880)	CHARACTER	4	$SSNM	NAME OF SUBSYSTEM
2180	(884)	CHARACTER	4	$SSVS	VERSION, RELEASE, MOD
2184	(888)	ADDRESS	3	$SYSID(0)	SYSTEM IDENTIFICATION
2184	(888)	ADDRESS	2	$OWNNODE	NUMBER OF THIS NODE
2186	(88A)	ADDRESS	1	$SIDBUSY	System ID of this member
2187	(88B)	ADDRESS	1		Reserved for future use
2188	(88C)	SIGNED	2	$SIDINDX	System ID index (4 * ($SIDBUSY-1))
2190	(88E)	ADDRESS	1	$SUBTASK	HASP SUBTASK SYSTEM STATUS
2191	(88F)	ADDRESS	1	$STATUS	HASP SYSTEM STATUS
2192	(890)	ADDRESS	4	$IOTPDDB	OFFSET WITHIN IOT OF 1ST PDDB
2196	(894)	ADDRESS	4	$CYLMAPL	Direct access allocation map len ($NUMTG/8)
2200	(898)	SIGNED	2	$TGAELEN	TRACK GROUP ALLOC AREA LENGTH FOR NON-SPIN PRIMARY ALLOC IOT'S
2202	(89A)	SIGNED	2	$TGAENUM	NUMBER OF TGAE'S IN PRIMARY ALLOC IOT (MIN 50) - RESET TO ACTUAL VALUE DURING INITIALIZATION
2204	(89C)	ADDRESS	4	$AFFLEN	Number of bytes needed to hold system affinity bits
2204	(89C)	X'89E'	0	$AFFLENH	"$AFFLEN+2,2" Halfword of SYSAFF bytes
2204	(89C)	X'4'	0	$CTLBLEN	"L'$CKLEVNM" Size of the control byte entries CTLB's and CLCB's
2208	(8A0)	BITSTRING	1	$STATUS1(0)	More HASP status flags
		If a $PJES2,ABEND is issued and a coupling facility checkpoint write is still active, COMM will issue the HASP552 message and wait for a post from CKPT to indicate the write is done. This bit will be set by COMM when CKPT is NOT to wait for XEQ processing to finish before posting COMM that checkpoint processing is complete.			
		1...		$SDWNFST	"B'10000000'" Shut down fast. CKPT don't wait for XEQ
		.1..		$JINITIP	"B'01000000'" JES2 initialization is in progress
		..1.		$ST1PJTM	"B'00100000'" $PJES2,TERM issued
		...1		$WRMDONE	"B'00010000'" Warm start completed
		.... 1...		$STOPXEQ	"B'00001000'" $P XEQ issued
		.... .1..		$CATMAX	"B'00000100'" CAT max JOBs has been newly reached or has been $T'ed
		.... ..1.		$WLMDIFF	"B'00000010'" This member at WLM Service definition different from JESplex level
		1		$WLMRGOK	"B'00000001'" Force registration of all queues successful
2209	(8A1)	BITSTRING	1	$STATUS2(0)	More status
		1...		$BRTCLN	"B'10000000'" PREBERTs owned by ABENDed PCEs exist

Table 209. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		$XEQINT	"B'01000000'" Call $CATJCNT to initialize CATCURJ (xeq) class cnt
		..1.		$PDYNDET	"B'00100000'" At least one ENDED PCE has been dynamically detached
		...1		$AUTONJE	"B'00010000'" Automatic connect of NJE devices is allowed (NJEDEF CONNECT=YES)
		.... 1...		$AUTORST	"B'00001000'" Automatic restart of NJE devices is allowed
		.... .1..		$MODREFR	"B'00000100'" Refresh of JES2 load modules allowed
		.... ..1.		$BERTNNM	"B'00000010'" BERT shortage inhibits normal processing
		1		$STRTDSI	"B'00000001'" JES2 started without the NODSI PPT/SCHEDxx option
2210	(8A2)	SIGNED	2	$CTLBLNH(0)	Size of cntl bytes
2212	(8A4)	BITSTRING	1		Reserved for future IBM use
2213	(8A5)	BITSTRING	3	$AFFINTY	Our system affinity token
2216	(8A8)	BITSTRING	4	$XCFXEQP	Members $POSTed via XCF for new jobs to execute
2220	(8AC)	ADDRESS	4	$MAXREST	Max resistance of a path
2224	(8B0)	ADDRESS	2	$NODREST	RESISTANCE OF THIS NODE
2226	(8B2)	ADDRESS	2	$NODETOL	PATH RESISTANCE TOLERANCE
2228	(8B4)	ADDRESS	2	$NITESIZ	SIZE OF NIT ELEMENT
2230	(8B6)	BITSTRING	1	$MASPOST	CROSS-SYSTEM POST FLAG BYTES
2231	(8B7)	BITSTRING	1	$PCEPOST	$$POST FLAG BYTE
		1...		$PCEASYN	"B'10000000'" ASYNCH POST FLAG BIT
		.1..		$PCEPRIX	"B'01000000'" Priority PCE's XECB post
2232	(8B8)	ADDRESS	2	$BUFLENG	HASP IN-CORE BUFFER SIZE
2234	(8BA)	ADDRESS	2	$SONWORK	SIGN-ON WORK SPACE
2236	(8BC)	ADDRESS	4	$ACTIVE	COUNT OF ACTIVE FUNCTIONS
2240	(8C0)	ADDRESS	4	$ACTVFSS	COUNT OF ACTIVE FSS'S
2244	(8C4)	BITSTRING	8	$SJFJDVT	DEFAULT JDVT NAME
2252	(8CC)	BITSTRING	8	$MSKNODE	MASK NODE NUMBER (MDCTNODE)
2260	(8D4)	ADDRESS	4	$ERRTRCA	"V(HASPTRCA)" TERM/RECOVERY CONTROL AREA
2264	(8D8)	SIGNED	4	$HETOKEN	HASP MAIN TASK ESTAE TOKEN
2268	(8DC)	SIGNED	2	$CHLOGSZ	Change log size this member
2270	(8DE)	SIGNED	2	$RECVCNT	NUMBER OF PCES IN RECOVERY
2272	(8E0)	ADDRESS	4	$ERRERPL	ADDR OF ERPL IF $ERROR, ELSE 0
2276	(8E4)	ADDRESS	4	$ERRAFF	ADDR of affinity field or token for dump
2280	(8E8)	SIGNED	4	$ERRREGS(3)	REGS 15, 0, 1 BEFORE $ERROR
2280	(8E8)	X'8EC'	0	$ERRREG0	"$ERRREGS+4,4" REG 0 SLOT IN $ERRREGS
2292	(8F4)	SIGNED	4	$ERRCODE	CATASTROPHIC ERROR REASON CODE
2296	(8F8)	ADDRESS	4	$ERRJQE	Related JQE addr ($ERROR)
2300	(8FC)	ADDRESS	4	$ERREOPT	RECVOPTS name addr ($ERROR)

Table 209. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2304	(900)	ADDRESS	2	$EXCPCT	ACTIVE HASP I/O COUNT
2306	(902)	ADDRESS	1	$XWTRFLG	EXTERNAL WRITERS FLAG
		1...		$XWTRACT	"B'10000000'" POST XWTR ACTIVE
2307	(903)	ADDRESS	1	$MAXCMCT	MAXIMUM CONSOLE MESSAGE COUNT
2308	(904)	ADDRESS	4	$FSSETIM	TIME INTERVAL FOR ERROR ASSUMED FOR FSS/FSA/ORDERS (5 MINUTES)
2312	(908)	ADDRESS	4	$RBFADDR	ADDR FOR TERM AS FAILING ADDR AT OUR RB LEVEL, IF NON-ZERO REGS ARE $REGSAVE/$CURPCE (NOT SDWA)
2316	(90C)	BITSTRING	1	$WARMTYP	Warmstart type descriptor FLAG.
WARM EQU X'80' Single-member warmstart HOT EQU X'40' Hot start indicator QUICK EQU X'20' Quick start indicator CONFIG EQU X'10' All-member warmstart ESYS EQU X'08' $E MEMBER(x) warmstart COLD EQU X'04' Cold start MVSIPL EQU X'02' MVS was IPLed COLDFMT EQU X'01' Cold start with format					
2317	(90D)	BITSTRING	1	$BRTDTYP	$DOGBERT working value for BERT type
2318	(90E)	ADDRESS	2		Reserved for future use
2320	(910)	SIGNED	4	$WRMINIT(0)	# OF USER REQUESTED WARM PCES
2320	(910)	SIGNED	2	$WRMREG	# OF PCES FOR REGULAR WARMSTART
2322	(912)	SIGNED	2	$WRMESYS	# OF PCES FOR $E SYS RESTART
2324	(914)	ADDRESS	4	$ERDOMID	DOM id for $HASP400 message
2328	(918)	ADDRESS	4	$ACCMBAD	CMB ADDRESS FOR HASP601 MESSAGE
2332	(91C)	ADDRESS	4	$NDDOMID	MESSAGE ID FOR HASP607 MSG
2336	(920)	ADDRESS	4	$SDCMBAD	CMB ADDRESS FOR HASP623 MESSAGE
2340	(924)	SIGNED	4	$HASP051	HASP051 DOM ID
2344	(928)	ADDRESS	4	$PBELST	List of PREBERTs
2348	(92C)	ADDRESS	2	$PITNUM	NUMBER OF PITS FOR SCANTAB ($MAXINIT, LATER $MAXPART)
2350	(92E)	ADDRESS	2	$NITECNT	COUNT OF NIT ENTRIES FOR SCANTAB, ($MAXNODE, LATER $NUMNODE)
2352	(930)	ADDRESS	4	$BRTFREC	Free BERT count (accurate only during thrshld proc)
HASP DEVICE CONTROL TABLE CHAIN POINTERS AND RELATED FIELDS. LOCAL/LINE/LOGON DCTS ARE CHAINED IN $DCTPOOL USING THE DCTCHAIN FIELD. ALL OTHER DCTS ARE CHAINED IN $DCTPOL2 USING DCTCHAIN. OTHER DCT CHAINING IS AS COMMENTED BELOW AND IN THE $DCT MACRO PROLOG.					
2356	(934)	ADDRESS	4	$DCTPOOL	FIRST HASP DCT IN LOCAL DEVICE, LINE, AND LOGON CHAIN
2360	(938)	ADDRESS	4	$DCTPOL2	FIRST HASP DCT IN CHAIN OF ALL OTHER DCTS
2364	(93C)	ADDRESS	4	$RDRDCT	FIRST LOCAL READER DCT ADDR
2368	(940)	ADDRESS	4	$PRTDCT	FIRST LOCAL PRINTER DCT ADDR
2372	(944)	ADDRESS	4	$PUNDCT	FIRST LOCAL PUNCH DCT ADDR
2376	(948)	ADDRESS	4	$ROUTDCT	FIRST NJE ROUTE DCT ADDR
2380	(94C)	ADDRESS	4	$LNEDCT	FIRST LINE DCT ADDR
2384	(950)	ADDRESS	4	$MLNEDCT	FIRST MAS LINE DCT ADDR
2388	(954)	ADDRESS	4	$LOGNDCT	FIRST LOGON DCT ADDR

Table 209. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2392	(958)	ADDRESS	4	$SRVDCT	FIRST SERVER DCT
2396	(95C)	ADDRESS	4	$XEQDCT	First Request-Job-ID/internal job DCT
2400	(960)	ADDRESS	4	$NETLDCT	First network xmitter/ receiver DCT
2404	(964)	ADDRESS	4	$NETDCTS	FIRST FREE NETWORK DCT GROUP ADDR, GROUP CHAIN PTR = DCTDCB, IN-GROUP CHAIN = MDCTDCT
2408	(968)	ADDRESS	4	$RMTDCTS	RMT RDR/PRPU DCTS, DCTCHAIN CONNCTS ALL (R1 RDRS/PRTS/PUNS, R2, ETC), IN-RMT VIA RATRDCT/MDCTDCT
2412	(96C)	ADDRESS	4	$OLDDCTS	Chain of unused DCTs that are eligible for reuse (these are not in any other chain of DCTs)
2416	(970)	ADDRESS	4	$OFFDCT	FIRST OFFLOAD DCT ADDRESS, TRANSMITTERS/RECEIVERS ARE CHAINED OFF THESE DCTS WITH XDCTDCT
2420	(974)	ADDRESS	4	$OJRDCT	FIRST OFF.JR DCT ADDRESS
2424	(978)	ADDRESS	4	$OSRDCT	FIRST OFF.SR DCT ADDRESS
2428	(97C)	ADDRESS	4	$OJTDCT	FIRST OFF.JT DCT ADDRESS
2432	(980)	ADDRESS	4	$OSTDCT	FIRST OFF.ST DCT ADDRESS
2436	(984)	ADDRESS	4	$LDVCACH	Ptr to $#POST cache for local devices (PRT/PUN)
		Pointers to active (not drained) DCTs. Pointers are pairs, heads and tails. Queue is FIFO			
2440	(988)	ADDRESS	4	$NJEADCT(2)	Network SYSOUT xmitter DCTs
2448	(990)	ADDRESS	4	$OFFADCT(2)	Spl offload xmitter DCTs
2456	(998)	ADDRESS	4	$LCLADCT(2)	Local printer/punch DCTs
		DCT COUNT FIELDS FOR DEVICES THAT DO NOT CORRESPOND WITH PROCESSORS (PCES) ON A ONE-FOR-ONE BASIS.			
2464	(9A0)	SIGNED	2	$NUMLNES	NUMBER OF NJE/RJE LINES
2466	(9A2)	SIGNED	2	$NUMMLNE	NUMBER OF MAS LINES
2468	(9A4)	SIGNED	2	$NETLNES	NUMBER OF NETWORK LINES
2470	(9A6)	SIGNED	2	$NUMLOGS	NUMBER OF LOGON DCTS
2472	(9A8)	SIGNED	2	$NUMSRVS	NUMBER OF SERVER DCTS
2474	(9AA)	SIGNED	2	$NUMOFFS	NUMBER OF OFFLOAD DEVICE DCTS
2476	(9AC)	SIGNED	2		Reserved
2478	(9AE)	ADDRESS	4	$NUMLDEV(0)	Sub-device counts
2478	(9AE)	ADDRESS	1	$NUMNJT	JOB XMITTERS PER NETLNE
2479	(9AF)	ADDRESS	1	$NUMNJR	JOB RECEIVERS PER NETLNE
2480	(9B0)	ADDRESS	1	$NUMNST	SYSOUT XMITTERS PER NETLNE
2481	(9B1)	ADDRESS	1	$NUMNSR	SYSOUT RECEIVERS PER NETLNE
2482	(9B2)	BITSTRING	2		Reserved

Table 209. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		THE HASP PROCESSOR CONTROL ELEMENT (PCE) CHAIN POINTERS AND COUNT FIELDS. EACH SUBSECTION IS MAPPED USING THE OFFSETS PROVIDED BELOW. THE PCE TABLE ($PCETAB) ENTRIES IN HASPTABS CONTAIN HCT OFFSETS TO THESE FIELDS. EACH PCE CHAIN POINTER POINTS TO THE FIRST PCE OF THAT PCE TYPE IN THE HASP PCE CHAIN, OR IS ZERO TO INDICATE NO PCES. EACH PAIR OF PCE COUNTS REPRESENTS THE NUMBER OF PCES OF THAT TYPE THAT IS 'DEFINED', E.G. THE NUMBER OF DEVICES (DCTS) DEFINED, AND THE NUMBER FOR WHICH PCES ARE CURRENTLY EXISTING, RESPECTIVELY. THE FIRST SETS OF FIELDS MUST BE TOGETHER BECAUSE OF THE $HCCT MAPPING AND IT'S USE BY $$POST.			
2482	(9B2)	X'8'	0	$PCEHCTE	"8" PROCESSOR HCT ENTRY LENGTH
2482	(9B2)	X'0'	0	$PCEHCTP	"0,4" PCE POINTER
2482	(9B2)	X'4'	0	$PCEHCTC	"4,4" PROCESSOR COUNTS, WITH FOLLOWING SUBMAPPING OF FIELDS
2482	(9B2)	X'0'	0	$PCEHCTD	"0,2" DEFINED PROCESSOR COUNT
2482	(9B2)	X'2'	0	$PCEHCTA	"2,2" ALLOCATED PROCESSOR COUNT
		SPECIAL PROCESSORS, MAPPING MUST MATCH CCTPCEPE ORDER			
2484	(9B4)	SIGNED	4	$POSTELS(0)	START OF PCE ELEMENTS
2484	(9B4)	ADDRESS	4	$COMMPCE	COMMAND PROCESSOR
2488	(9B8)	ADDRESS	2	$NUMCOMM	
2492	(9BC)	ADDRESS	4	$EXECPCE	EXECUTION PROCESSOR
2496	(9C0)	SIGNED	2	$NUMEXEC	
2500	(9C4)	ADDRESS	4	$ASYNPCE	ASYNC I/O PROCESSOR
2504	(9C8)	SIGNED	2	$NUMASYN	
2508	(9CC)	ADDRESS	4	$XTIMPCE	TIME EXCESSION PROCESSOR
2512	(9D0)	SIGNED	2	$NUMXTIM	
2516	(9D4)	ADDRESS	4	$TIMEPCE	STIMER/TTIMER PROCESSOR
2520	(9D8)	SIGNED	2	$NUMTIMR	
2524	(9DC)	ADDRESS	4	$TRCPCE	EVENT TRACE LOG PROCESSOR
2528	(9E0)	SIGNED	2	$NUMEVTL	
2532	(9E4)	ADDRESS	4	$SPOLPCE	SPOOL MANAGER PROCESSOR
2536	(9E8)	SIGNED	2	$NUMSPOL	
2540	(9EC)	ADDRESS	4	$MLLMPCE	LINE MANAGER PROCESSOR
2544	(9F0)	SIGNED	2	$NUMMLLM	
2548	(9F4)	ADDRESS	4	$SOMPCE	SPOOL OFFLOAD PROCESSOR
2552	(9F8)	SIGNED	2	$NUMSOM	
2556	(9FC)	ADDRESS	4	$CKPTPCE	CHECKPOINT PROCESSOR
2560	(A00)	SIGNED	2	$NUMCKPT	
2564	(A04)	ADDRESS	4	$MCONPCE	REMOTE CONSOLE PROCESSOR
2568	(A08)	SIGNED	2	$NUMMCON	
2572	(A0C)	ADDRESS	4	$SFSPCE	SCHEDULER FACILITY SRV PCE
2576	(A10)	SIGNED	2	$NUMSFS	
2580	(A14)	ADDRESS	4	$ENFPCE	ENF LISTEN Processor
2584	(A18)	SIGNED	2	$NUMENF	
2588	(A1C)	ADDRESS	4	$JQRPCE	JQE Request Processor
2592	(A20)	SIGNED	2	$NUMJQR	
2596	(A24)	ADDRESS	4	$MISCPCE	Miscellaneous processor
2600	(A28)	SIGNED	2	$NUMMISC	
		END OF COMMON HCCT MAPPING			
2604	(A2C)	ADDRESS	4	$RDRPCE	LOCAL READERS

Table 209. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2608	(A30)	SIGNED	2	$NUMRDRS	
2612	(A34)	ADDRESS	4	$IRCPCE	Internal reader cleanup
2616	(A38)	SIGNED	2	$NUMIRC	
2620	(A3C)	ADDRESS	4	$TPRDPCE	RJE READERS
2624	(A40)	SIGNED	2	$NUMTPRD	
2628	(A44)	ADDRESS	4	$JCLPCE	CONVERSION PROCESSOR
2632	(A48)	SIGNED	2	$NUMCNVT	
2636	(A4C)	ADDRESS	4	$PSOPCE	PSO PROCESSORS
2640	(A50)	SIGNED	2	$NUMPSO	
2644	(A54)	ADDRESS	4	$OUTPCE	OUTPUT PROCESSOR
2648	(A58)	SIGNED	2	$NUMOUT	
2652	(A5C)	ADDRESS	4	$PRTPCE	LOCAL PRINTERS
2656	(A60)	SIGNED	2	$NUMPRTS	
2660	(A64)	ADDRESS	4	$TPPRPCE	RJE PRINTERS
2664	(A68)	SIGNED	2	$NUMTPPR	
2668	(A6C)	ADDRESS	4	$PUNPCE	LOCAL PUNCHES
2672	(A70)	SIGNED	2	$NUMPUNS	
2676	(A74)	ADDRESS	4	$TPPUPCE	RJE PUNCHES
2680	(A78)	SIGNED	2	$NUMTPPU	
2684	(A7C)	ADDRESS	4	$PURGPCE	PURGE PROCESSORS
2688	(A80)	SIGNED	2	$NUMPURG	
2692	(A84)	ADDRESS	4	$DLSPCE	Deadline scheduling PCE
2696	(A88)	SIGNED	2	$NUMDLSP	
2700	(A8C)	ADDRESS	4	$PRTYPCE	PRIORITY AGING PROCESSOR
2704	(A90)	SIGNED	2	$NUMPRTY	
2708	(A94)	ADDRESS	4	$PRYOPCE	OUTPUT PRIO AGING PROCESSOR
2712	(A98)	SIGNED	2	$NUMPRYO	
2716	(A9C)	ADDRESS	4	$WARMPCE	WARM START PROCESSORS
2720	(AA0)	SIGNED	2	$NUMWARM	
2720	(AA0)	X'4'	0	$WARMCNT	"4" Number of $E SYS warmstart PCEs after init complete
2724	(AA4)	ADDRESS	4	$NJTPCE	NJE JOB TRANSMITTERS
2728	(AA8)	SIGNED	2	$NUMNJTS	
2732	(AAC)	ADDRESS	4	$OJTPCE	OFFLOAD JOB TRANSMITTERS
2736	(AB0)	SIGNED	2	$NUMOJTS	
2740	(AB4)	ADDRESS	4	$NJRPCE	NJE JOB RECEIVERS
2744	(AB8)	SIGNED	2	$NUMNJRS	
2748	(ABC)	ADDRESS	4	$OJRPCE	OFFLOAD JOB RECEIVERS
2752	(AC0)	SIGNED	2	$NUMOJRS	
2756	(AC4)	ADDRESS	4	$NSTPCE	NJE SYSOUT TRANSMITTERS
2760	(AC8)	SIGNED	2	$NUMNSTS	
2764	(ACC)	ADDRESS	4	$OSTPCE	OFFLOAD SYSOUT TRANSMITTERS
2768	(AD0)	SIGNED	2	$NUMOSTS	
2772	(AD4)	ADDRESS	4	$NSRPCE	NJE SYSOUT RECEIVERS
2776	(AD8)	SIGNED	2	$NUMNSRS	
2780	(ADC)	ADDRESS	4	$OSRPCE	OFFLOAD SYSOUT RECEIVERS
2784	(AE0)	SIGNED	2	$NUMOSRS	
2788	(AE4)	ADDRESS	4	$NPMPCE	NETWORK PATH MANAGER
2792	(AE8)	SIGNED	2	$NUMNPM	
2796	(AEC)	ADDRESS	4	$NRMPCE	NETWORK RESOURCE MONITOR
2800	(AF0)	SIGNED	2	$NUMNRM	
2804	(AF4)	ADDRESS	4	$NRRPCE	NJE ROUTE RECEIVER

Table 209. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2808	(AF8)	SIGNED	2	$NUMNRR	
2812	(AFC)	ADDRESS	4	$NRTPCE	NJR ROUTE TRANSMITTER
2816	(B00)	SIGNED	2	$NUMNRT	
2820	(B04)	ADDRESS	4	$RESMPCE	RESOURCE MANAGER
2824	(B08)	SIGNED	2	$NUMRESM	
2828	(B0C)	ADDRESS	4	$STACPCE	STATUS/CANCEL PROCESSOR
2832	(B10)	SIGNED	2	$NUMSTAC	
2836	(B14)	ADDRESS	4	$SPINPCE	SPIN PROCESSOR
2840	(B18)	SIGNED	2	$NUMSPIN	
2844	(B1C)	ADDRESS	4	$FCLPCE	FSS CLEANUP ON EOM PCES
2848	(B20)	SIGNED	2	$NUMFCL	
2852	(B24)	ADDRESS	4	$JCMDPCE	Job command processor
2856	(B28)	SIGNED	2	$NUMJCMD	
2860	(B2C)	ADDRESS	4	$XCFPCE	COUPLING PROCESSOR
2864	(B30)	SIGNED	2	$NUMXCF	
2868	(B34)	ADDRESS	4	$XCMPCE	XCF Command processor
2872	(B38)	SIGNED	2	$NUMXCM	
2876	(B3C)	ADDRESS	4	$ARMPCE	ARM SUPPORT PROCESSOR
2880	(B40)	SIGNED	2	$NUMARM	
2884	(B44)	ADDRESS	4	$SNFPCE	SPOOL Management Processor
2888	(B48)	SIGNED	2	$NUMSNF	
2892	(B4C)	ADDRESS	4	$SPIPCE	Sysout API Processor
2896	(B50)	SIGNED	2	$NUMSPI	
2900	(B54)	ADDRESS	4	$DILPCE	Do It Later Processor
2904	(B58)	SIGNED	2	$NUMDIL	
2908	(B5C)	ADDRESS	4	$ALIPCE	Acquire Lock & Initiate
2912	(B60)	SIGNED	2	$NUMALI	Cleanup Executor
2916	(B64)	ADDRESS	4	$EOMPCE	EOM Processor
2920	(B68)	SIGNED	2	$NUMEOM	
2924	(B6C)	ADDRESS	4	$DAWNPCE	Distributed Available Work
2928	(B70)	SIGNED	2	$NUMDAWN	Notification processor
2932	(B74)	ADDRESS	4	$CDCPCE	Cross-system Device
2936	(B78)	SIGNED	2	$NUMCDC	Communication processor
2940	(B7C)	ADDRESS	4	$JOEIPCE	JOEINDEX service
2944	(B80)	SIGNED	2	$NUMJOEI	processor
2944	(B80)	X'B7C'	0	$POSTLST	"*-$PCEHCTE" ADDR OF LAST PCE ELEMENT
2948	(B84)	BITSTRING	16	$RSV3(0)	RESERVED FOR FUTURE IBM USE
HASP PROCESSOR CONTROL ELEMENT DISPATCHER FIELDS					
2964	(B94)	ADDRESS	4	$PCEORG	ADDRESS OF FIRST PCE
2968	(B98)	ADDRESS	4	$PCELAST	ADDRESS OF LAST PCE
2972	(B9C)	ADDRESS	4	$CURPCE	ADDRESS OF CURRENT PCE (IF ANY)
2976	(BA0)	ADDRESS	4	$PCEPSTC	Non-main task PCE post chn
2980	(BA4)	BITSTRING	4		Reserved
2984	(BA8)	DBL WORD	8	(0)	ALIGN DISPATCHER ECF FIELDS
2984	(BA8)	BITSTRING	8	$HASPECF	MASTER EVENT CONTROL FIELD, IF BIT IS 1 PCES WAITING FOR CORRESPONDING RESOURCE SHOULD BE POSTED

Table 209. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2992	(BB0)	BITSTRING	8	$MASECF	CROSS-SYSTEM EVENT CONTROL FIELD, RESOURCES $POSTED IN THIS ECF WILL BE PROPAGATED TO OTHER MEMBERS
3000	(BB8)	BITSTRING	1	$MLLMECF	LINE MGR ECF, IF BIT IS 1 LINE MGR SHOULD BE $POSTED IF SAME $HASPECF FLAG $POSTED AND $DRMLLM IS ON
		PROCESSOR QUEUES There are 2 queues of $XECBs in JES2. The first is the queue of $XECBs that have been $WAITed on. This is a double threaded queue with $XECBQF pointing to the first element and $XECBQL pointing to the last. This queue has both converted and unconverted $XECBs on it. The second queue is the queue of converted $XECBs that have been posted. $XECBs are added out of the MVS POST exit and removed by the main task. This is a single threaded stack pointed to by $EXTECBQ. Note: a $XECB can only be placed on this queue if it is currently being $WAITED on (it is on the $XECBQF). To ensure this a CDS is used in JES2's MVS POST exit. This requires the 3 pointers to be arranged with the POSTED queue chain fields be between the 2 waited on chain fields. Do not change the order of these fields.				
3008	(BC0)	BITSTRING	0	$XECBQ(0)	Queue head of all $XECBs currently defined to JES2 dispatcher (serialized by JES2 main task)
3008	(BC0)	ADDRESS	4	$XECBQF	1st $XECB on chain
3012	(BC4)	ADDRESS	4	$EXTECBQ	QUEUE HEAD OF XECBS FOR PCES TO BE DISPATCHED.
3016	(BC8)	ADDRESS	4	$XECBQL	Last $XECB on chain
3020	(BCC)	ADDRESS	4	$DRQUES	DISPATCHER RESOURCE WAIT QUEUES, DOUBLE WORDS, FORWARD/BACKWARD POINTERS FOR CIRCULAR QUEUES
3024	(BD0)	SIGNED	4	$READY(0)	PCES READY FOR DISPATCH
3024	(BD0)	ADDRESS	4	$READYF	First $PCE on queue
3028	(BD4)	ADDRESS	4	$READYL	Last $PCE on queue
		All variable located between $SAVEBEG and $SAVEEND will be regularly checkpointed by JES2 and will be restored on any warm start of JES2.			
3032	(BD8)	DBL WORD	8	$SAVEBEG(0)	Beginning of save area
3032	(BD8)	CHARACTER	4	$MSTRID	MASTER RECORD EYECATCHER
3036	(BDC)	SIGNED	4	$MASTERL	CHECKPOINT MASTER RCD LEN
		New $MSTRVER values require a change to the $SCANTAB for $ACTIVATE/$D ACTIVATE. Also the equates for $MSTRVER must be defined for the $HCCT and $HFCT master record version fields			
3040	(BE0)	ADDRESS	1	$MSTRVER	Master record version
3040	(BE0)	X'A'	0	$MSTRHI	"$MSTRZ22" Most current ckpt version
3040	(BE0)	X'6'	0	$MSTRVRN	"6" Pre-OS 240 version #
3040	(BE0)	X'7'	0	$MSTRVR4	"7" OS 240 - OS 210 version #
3040	(BE0)	X'8'	0	$MSTRZ2	"8" z/OS 1.2 version #
3040	(BE0)	X'8'	0	$MSTRV12	"$MSTRZ2" Compatible equate

Table 209. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
3040	(BE0)	X'9'	0	$MSTRZ11	"9" z/OS 1.11 version #
3040	(BE0)	X'A'	0	$MSTRZ22	"10" z/OS 2.2 version #
	When the size of the checkpoint is updated, the count in $CKPTUPD is updated. If the count in the master record does not match the count on the local member ($CKPTLOC), then the checkpoint has been updated.				
3041	(BE1)	BITSTRING	1	$CKPTUPD	CKPT update pending mask
3042	(BE2)	SIGNED	2	$MSTHCTL(0)	Length of CKPT HCT area
3044	(BE4)	ADDRESS	4	$CHLOGLN	LENGTH USED PART CH LOG
3048	(BE8)	SIGNED	2	$CKTSEQN	Ckpt tuning cycle number
3050	(BEA)	SIGNED	1	$WCHECK	CKPT WRITE-CHECK-RCD Value
3051	(BEB)	BITSTRING	1	$CKPTFLG	CHECKPOINT DISPOSITION
3052	(BEC)	BITSTRING	8	$CKPUSER	CHECKPOINTED USER FIELD
3060	(BF4)	BITSTRING	4	$NEWSJQE	OFFSET OF JES2-NEWS JQE OR ZERO
3064	(BF8)	BITSTRING	4	$NEWSIOT	MTTR OF JES2-NEWS IOT, OR 0
3068	(BFC)	BITSTRING	2	$NEWSCLV	Level of current NEWS (one matching IOT in $NEWSIOT)
3070	(BFE)	BITSTRING	2	$NEWSLVL	Level number of news data set being created (same as $NEWSCVL if none being created)
3072	(C00)	ADDRESS	2	$QSELEN	Length of a QSE
3074	(C02)	ADDRESS	2		Reserved (was $JQEFREC_R4)
3076	(C04)	ADDRESS	4	$JQFREEI	First free JQE index
	$JQHEADI through $JQRBLDI (including the equate $JQRBDTY) must remain together. The scanning of the job queues depends on this.				
3080	(C08)	ADDRESS	4	$JQHEADI(47)	Heads of active job queue element (JQE) chains (JQE index)
3080	(C08)	X'4'	0	$JQHEADL	"4" LENGTH OF JOB QUE HEAD ENTRY
3080	(C08)	X'2F'	0	$JQTYPES	"(*-$JQHEADI)/$JQHEADL" NUMBER OF JOB QUEUES
3080	(C08)	X'90'	0	$JQCLSSZ	"36*$JQHEADL" NUMBER OF EXEC JOB CLASS QUEUES
3268	(CC4)	ADDRESS	4	$JQRBLDI	Job Rebuild Queue head (JQE index)
3268	(CC4)	X'30'	0	$JQRBDTY	"(*-$JQHEADI)/$JQHEADL" Number of job queues including rebuild queue
3272	(CC8)	SIGNED	2	$REBLDS	Total number of job/output rebuilds since last cold or all member warm start
3274	(CCA)	SIGNED	2	$KITNUM2	Num KITs in the checkpoint
3276	(CCC)	SIGNED	2	$JQELEN	TOTAL LENGTH OF A JQE
3278	(CCE)	SIGNED	2	$JQEMSKL	LENGTH-1 OF JQE SPLS USED MASK
3280	(CD0)	SIGNED	2	$JQEEXFR	OFFSET TO POSSIBLE FREE EXTENSION AREA IN MASTER RECORD
3282	(CD2)	ADDRESS	2	$MAXEXSZ	Maximum size of extension

Table 209. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		$HASP355 and some $HASP050 resources have a sysplex scope and need to be CKPTed. Here we maintain the member id of the JES that has issued the message for each resource. Also the threshold for each resource is maintained here. The time stamp for the HASP355 message is saved for comparison within the sysplex. Any new $HASP050 resources with a sysplex scope must have a SYSID and threshold percent pair, such as the ones below, added somewhere in the checkpointed portion of the HCT. Also the list of resources to be dealt with on a restart must be updated in HASPIRDA.			
3284	(CD4)	SIGNED	2	$RSCTABL(0)	Starting point of member ids and threshold values
3284	(CD4)	BITSTRING	1	$JQSYSID	SYSID for JQE message
3285	(CD5)	ADDRESS	2	$JQEPRCT	JQE threshold percentage
3287	(CD7)	BITSTRING	1	$JOSYSID	SYSID for JOE message
3288	(CD8)	ADDRESS	2	$JOEPRCT	JOE threshold percentage
3290	(CDA)	BITSTRING	1	$JNSYSID	SYSID for JOB num message
3291	(CDB)	ADDRESS	2	$JNOPRCT	JOB NUM threshold percent
3293	(CDD)	BITSTRING	1	$TGSYSID	SYSID for TRK GRP message
3294	(CDE)	ADDRESS	2	$TGPRCT	TRK GRP threshold percent
3296	(CE0)	SIGNED	4	$SPFTIME	Time HASP355 message issued
3300	(CE4)	BITSTRING	1	$ZJSYSID	SYSID for ZJC message
3301	(CE5)	ADDRESS	2	$ZJCPRCT	ZJC threshold percentage
3303	(CE7)	ADDRESS	1		Reserved
3304	(CE8)	BITSTRING	4	$RSOCLDP	RSO cleaned up for mem mask
3308	(CEC)	ADDRESS	4		Reserved (was $FASNIFF)
3312	(CF0)	SIGNED	4	$SCQJQE	OFFSET OF SHRD COMM QUEUE JQE
3316	(CF4)	BITSTRING	32	$SPLEXST	BIT MSK OF EXISTNG SPLS
3348	(D14)	BITSTRING	32	$SPLSLCT	SPLS ABLE TO SELECT WRK
3380	(D34)	BITSTRING	1	$SPLINAC	MASK OF INACTIVE SPOOLS
		$TGALLOC = $TGTOTAL-$TGFREE The number of track groups in use for all active spool volumes. Note: track groups assigned to the BLOB are considered allocated for purposes of this count $TGTOTAL = Number of track groups on STATUS=ACTIVE spool volumes. $TGDEFND = Number of track groups associated with any spool volume. $TGFREE = Number of track groups available for allocation (on STATUS=ACTIVE spool volumes.) Note: track groups assigned to the BLOB are not considered free for purposes of this count $NUMTG = Initialization Statement number of track groups in the system (size of TGM).			
3412	(D54)	ADDRESS	4	$TGALLOC	NUM OF AVAILABLE TGS ALLOCATED
3416	(D58)	ADDRESS	4	$TGTOTAL	TOTAL NUMBER OF AVAILABLE TGS
3420	(D5C)	ADDRESS	4	$TGDEFND	NUMBER OF DEFINED TGS
3424	(D60)	ADDRESS	4	$TGFREE	FREE TG COUNT
3428	(D64)	ADDRESS	2	$QSEMAX	Number of members possible
3430	(D66)	ADDRESS	2	$QSENDEF	NUMBER OF DEFINED SYSTEMS
3432	(D68)	SIGNED	4	$CKRECS	Number of 4K CKPT pages (z11 mode only)

Table 209. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
3436	(D6C)	SIGNED	4	$DASWRKQ	OFFSET OF 1ST DAS ON DAS WORK Q
3440	(D70)	SIGNED	4	$DASTRKQ	OFFSET OF 1ST DAS REP. IN TGM
3444	(D74)	SIGNED	4	$DATAKEY	MASTER PERIPHERAL DATA SET KEY
3448	(D78)	CHARACTER	4	$HASPID	CHECKPOINT RECORD IDENTIFICATION
3452	(D7C)	CHARACTER	8	$NDENAME	Node name
The following 2 fields are used for $HASP050 processing					
3460	(D84)	BITSTRING	1	$BTSYSID	SYSID for BERT message
3461	(D85)	ADDRESS	2	$BRTPRCT	BERT threshold percentage
3463	(D87)	BITSTRING	1	$FNCCNT	Number of volumes to fence a job to
3464	(D88)	SIGNED	4	$ZAPTIME	Time last ZAPJOB executed
ZJC CTENT (job zone) info (also see $ZJCPTR, $ZJCNUM, and $ZJCLEN) NOTE: - Also see $ZJC.					
3468	(D8C)	SIGNED	4	$ZODHEAD	Index of the first Zone Job Object Definition (ZOD) in the ZJC CTENT.
3472	(D90)	SIGNED	4	$ZJCFREI	Index of the first Zone Job Container (ZJC) object in FREE chain.
3476	(D94)	SIGNED	4	$ZJCFREN	Count of FREE Zone Job Container (ZJC) objects.
The next two fields represent the highest and lowest VRM (Version, Release, Modification) JES2s active in the JESplex. See the $JES2xxx equates in $HASPEQU.					
3480	(D98)	SIGNED	2	$MASVER(0)	Versions active in JESplex
3480	(D98)	SIGNED	1	$HIGHVER(0)	Highest active JES2
3481	(D99)	SIGNED	1	$LOWVER(0)	Lowest active JES2
3482	(D9A)	ADDRESS	2	$PRIRATE	PRIORITY AGING RATE
3484	(D9C)	ADDRESS	1	$PRIHIGH	JOB PRIORITY AGING UPPER
3485	(D9D)	ADDRESS	1	$PRILOW	AND LOWER LIMITS
3486	(D9E)	ADDRESS	2	$PRORATE	OUTPUT PRIORITY AGING RATE
3488	(DA0)	ADDRESS	2	$PRTYOHI	OUTPUT PRIORITY AGING UPPER
3490	(DA2)	ADDRESS	2	$PRTYOLO	AND LOWER LIMITS
3492	(DA4)	BITSTRING	1	$FLAG1	Checkpointed flag byte
	1...			$UNSPUN	"B'10000000'" UNPROC SPIN IOTS QUEUED
	.1..			$NONSHR	"B'01000000'" NON-SHARED SPOOLS ALLOWED
	..1.			$MASACTV	"B'00100000'" SPECIFIES MORE THAN ONE RUNNING SYSTEM FOR MAS AND IS SET EVERY CHECKPOINT CYCLE
	...1			$MVFENCE	"B'00010000'" SPOOL FENCING (MINIMUM NUMBER OF VOLUMES PER JOB) IN EFFECT
	.... 1...			$EXECDUP	"B'00001000'" Duplicate job checking is suppressed
	.... .1..			$CNVTWEE	"B'00000100'" Indicates the converter should wait for EXCL ENQs

Table 209. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
	EQU B'00000010' Reserved, (was $BRDCST_R2)				
		1		$PRUNSP	"B'00000001'" PROCESSING UNSPUN OUTPUT
3493	(DA5)	BITSTRING	1	$FLAG2(0)	2nd ckptpointed flag byte
		1...		$WTBSYJO	"B'10000000'" AN OUTPUT PROCESSOR IS WAITING AVAILABILITY OF A BUSY JOE
		.1..		$CF1VOL	"B'01000000'" MAS knows CKPT1 is volatile
		..1.		$CF2VOL	"B'00100000'" MAS knows CKPT2 is volatile
		...1		$CKOPVER	"B'00010000'" CKPTDEF OPVERIFY=YES
	The format of MTTRs is controled by the following 4 bits. $SPLADRA and $SPLADRS control whether relative or absolute track addressing is used. $SPLLGDS and $SPLMTTT control the number of bits assigned to the tracks. These bits are only used when the volume is started. Track addresses (MTTRs) come in 3 formats: - absolute track addressing (traditional format) TT is a 16 bit absolute track address. - Relative track addressing (default) TT is a 16 bit relative track address. - Large data set format. Track address format is MTTtr, tt is a 20 bit relative track address. $ $ $ $ S S S S P P P L L L L P A A L M D D G T R R D T A S S T Meaning 0 0 0 0 Absolute track addressing (deprecated) 1 x 0 0 Relative track addressing (always) 0 1 0 0 Relative track addressing (ifneeded) 1 x 1 0 Large data set support is active and 20 bit TTs used if SPOOL data set being started has >64K tracks. 1 x 1 1 Large data set support is active and 20 bit TTs used for all new SPOOL volumes $SPLADRA and $SPLADRS are no longer used as of z/OS 1.7. Relative track addressing is always used if the volume is started by 1.7.				
		.... 1...		$SPLADRA	"B'00001000'" Always use relative addr.
		.... .1..		$SPLADRS	"B'00000100'" Use relative addr as needed
	Sniff faster flag. If on, perform sniffing as quickly as possible until a "house call" has been made for all track groups. After all track groups have been sniffed, revert to one house call / week. The MOOB (Extent, offset, bit) where "GCRATE=FAST" began is kept in $FASNIFF.				

Table 209. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ..1.		$SNIFAST	"B'00000010'" In "GCRATE=FAST" mode
		1		$SNFNSYM	"B'00000001'" Suppress SYMREC generation during sniffer
		$CKPCTPW is incremented after a checkpoint write (intermediate write or final write). It's used to determine when a primary write is needed.			
3494	(DA6)	SIGNED	2	$CKPCTPW	Count of checkpoint writes
3496	(DA8)	SIGNED	4	$OPSPJNO	LAST JOB IN JIX EXAMINED FOR UNSPUN WORK
3500	(DAC)	SIGNED	2	$CLRECN	NUMBER OF 4K RECS IN CH LG
		COLD START INFORMATION - VERSION, SYSID, DATE, TIME			
3502	(DAE)	CHARACTER	5	$COLDJSN	NAME OF JOB ENTRY SUBSYSTEM
3507	(DB3)	CHARACTER	8	$COLDVSN	VERSION OF JES2
3515	(DBB)	CHARACTER	11	$COLDJSP	
3526	(DC6)	CHARACTER	4	$COLDSID	SMF SYSID FOLLOWED BY A SPACE
3531	(DCB)	BITSTRING	1	$FLAG5	5th checkpointed flag
		1...		$ZEROTGS	"B'10000000'" Zero just-freed SPOOL TGs
		.1..		$LDSRENA	"B'01000000'" Large dataset range is enabled.
		..1.		$CNVSCHE	"B'00100000'" Use scheduling environ affintiy for conversion
		...1		#POSTWTO	"B'00010000'" Message when $#POST
		.... 1...		$ENFJPLX	"B'00001000'" ENF 58/70/78 JESplex only
		.... .1..		$CCMAUTO	"B'00000100'" if on, CYCLEMGT=AUTO if off, CYCLEMGT=MANUAL
		.... ..1.		$CONSETP	"B'00000010'" if on, at least one concurrent-set is awaiting execution green light via IWMBLOC
		EVENTLOG Record Type suppression flags. If ON a bit indicates that record type will not be written to the EVENTLOG data set. $FLAG6 must be kept in sync with: CCTFLAG6 in the HCCT PDBEVTLS in the PDDB NJH2FLG2 in the NJE job header			
3532	(DCC)	BITSTRING	1	$FLAG6	6th checkpointed flag
		1...		$EVTLSMF	"B'10000000'" Suppress EVENTLOG SMF rec
		.1..		$EVTLSTP	"B'01000000'" Suppress EVENTLOG STEP rc
		..1.		$EVTLRST	"B'00100000'" Suppress EVENTLOG RESTART
		...1		$EVTLTRC	"B'00010000'" Suppress EVENTLOG TRACE r
		.... 1...		$EVTLUSR	"B'00001000'" Suppress EVENTLOG USER rc

Table 209. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Feature Suppression flags. $KFCFLG7 must be kept in sync with: CCTKFCF7 in the HCCT Bit settings are interpreted as follows:			
3533	(DCD)	BITSTRING	1	$KFCFLG7	7th checkpointed flag Kill Feature Conditions
		1...		$EVTLOFF	"B'10000000'" Suppress EVENTLOG writes
		.1..		$NONPNJE	"B'01000000'" Suppress non-printable data sets on NJE
3534	(DCE)	BITSTRING	2		Reserved for future use
3536	(DD0)	SIGNED	4	$COLDDTM(2)	DATE AND TIME STAMP IN 'TIME BIN' FORMAT
3544	(DD8)	SIGNED	4	$LASTCLD	STCK time of cold start
3548	(DDC)	SIGNED	4	$LASTSPV	STCK time of last track group map rebuild
3552	(DE0)	CHARACTER	4	$SPVMNAM	Member name of system doing spool validation
3556	(DE4)	SIGNED	4	$LASTAMW	STCK time of last all member warm start
3560	(DE8)	CHARACTER	4	$AMWMNAM	Member name of system doing all member warm start
		THE FOLLOWING FIELDS ARE USED FOR CHECKPOINT VERIFICATION DURING A WARM START OF JES2			
3564	(DEC)	ADDRESS	2	$NUMNODE	MAXIMUM NUMBER OF NODES
3566	(DEE)	CHARACTER	5	$SPOOL	SPOOL VOLUME PREFIX
3571	(DF3)	SIGNED	1	$SPLLEN	NUMBER-1 OF CHARS OF $SPOOL
3572	(DF4)	SIGNED	2	$SPOLNUM	NUMBER OF SPOOL VOLUMES
3572	(DF4)	X'DF5'	0	$SPLNUMB	"$SPOLNUM+1,1" ALLOWED (ONE BYTE VERSION)
3574	(DF6)	ADDRESS	2	$BUFSIZE	HASP BUFFER SIZE
3576	(DF8)	ADDRESS	2		Reserved (was $MAXJOBS_R4)
3578	(DFA)	CHARACTER	1	$BADJNC	Char for bad jobname
3579	(DFB)	BITSTRING	1	$FLAG3(0)	3rd ckpt flag
		1...		$SPLLGDS	"B'10000000'" Large SPOOL DS support active
		.1..		$SPLMTTT	"B'01000000'" Always use new MQTR fmt
		..1.		$SPLLGUS	"B'00100000'" Large data sets was active at least once
		EQU B'00000010' Reserved (used in z8 thru			
		EQU B'00010000' Reserved (used in z7 thru			
		EQU B'00001000' Reserved (used in z7 thru			
		EQU B'00000100' Reserved (used in z8 thru			
		1		$SNFZ7FS	"B'00000001'" Z7 or later fast sniff mode
3580	(DFC)	ADDRESS	4	$NUMJOES	NUMBER OF JOB OUTPUT ELEMENTS
3584	(E00)	ADDRESS	2	$NODEID	NUMBER OF THIS NODE
3586	(E02)	ADDRESS	1	$RECINCR	RECORD ALTERNATION PARAMETER

Table 209. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
3587	(E03)	ADDRESS	1	$TCELSIZ	NBR OF BUFFERS IN A TRAKCELL
3588	(E04)	ADDRESS	4	$NUMTG	TOTAL NUMBER OF TRACK GROUPS
3592	(E08)	BITSTRING	1	$DESTFLG	USERDEST flag
		1...		$DESTNNN	"B'10000000'" Nnnnn is a userid
		.1..		$DESTRNN	"B'01000000'" Rnnnn is a userid
		..1.		$DESTRMN	"B'00100000'" RMnnnn is a userid
		...1		$DESTRMT	"B'00010000'" RMTnnnn is a userid
		.... 1...		$DESTUNN	"B'00001000'" Unnnn is a userid
		.... .1..		$DESTDLC	"B'00000100'" Display 'LOCAL.' if userid (only set in HCCT)
		.... ..1.		$DESTNNR	"B'00000010'" DEST=userid is not allowed; Must use nodename.userid
3593	(E09)	SIGNED	1	$JIXMPCN	Count of job numbers freed since last JIX map update
3594	(E0A)	ADDRESS	2	$JNTSIZE	JNT size (JIX prefix)
3596	(E0C)	SIGNED	4	$BERTNUM	Number of BERTs
3600	(E10)		4	$SPLBYTS	Bytes of spool (FP value)
3604	(E14)	CHARACTER	8	$XCFGPNM	XCF Group Name
3612	(E1C)	SIGNED	4	$JQEFRCN	Count of free JQEs
3616	(E20)	ADDRESS	4	$JQENUM	Max number of jobs in the system
3620	(E24)	SIGNED	2	$ZJCLEN	Length of a Zone Job Container (ZJC) object in the ZJC CTENT.
3622	(E26)	BITSTRING	1	$FLAG4	4th ckptpointed flag byte
		1...		$BERT255	"B'10000000'" Free BERTs < 255
EQU B'01000000' Was $A24852 Bits must be defined with 16 "left" of MIN					
		..1.		$BERT16	"B'00100000'" Free BERTs <= 16
		...1		$BERTMIN	"B'00010000'" Free BERTs <= $BERTHRS
		.... 1...		$BERTESH	"B'00001000'" Extreme BERT shortage detected - Q errors expected
		.... .1..		$SPLEASS	"B'00000100'" Extended addressing space (EAS) has been activated at least once. Once set - down level MAS members (<12) may not join. Once set - never unset.
		.... ..1.		$SPLEASA	"B'00000010'" JES2 data set allocation (DISP=old/new) may reside in EAV cyl managed-(EAS) storage. This pertains to spool and checkpoint data sets.
		1		$MCJCLAS	"B'00000001'" At least 1 multi character batch jobclass or job class group exists
3623	(E27)	ADDRESS	1	$DASEXSZ	DAS extension size
3624	(E28)	BITSTRING	6	$LASNIFL	Extent number, Extent TG offset and bit of last trackgroup examined by sniffer (HASPSNF)

Table 209. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		The following field represents the MOOB (extent offset bit) of the first track group sniffed while in "GCRATE=FAST" mode. See $SNIFAST flag bit. A zero value in this field means that no "GCRATE= FAST" has ever been done since the last cold start. This field is meaningless unless the $SNIFAST flag is set. This field is set to the current $LASNIFF as soon as the $SNIFAST bit is set. The high order value of STCK is stored in $FASNIFF when "GCRATE=FAST" ends for diagnostic purposes. NOTE GCRATE - Garbage Collection RATE (internally sniff fast).			
3630	(E2E)	BITSTRING	6	$FASNIFL	Extent number, Extent TG offset and bit of first trackgroup examined by sniffer in "fast" mode
3636	(E34)	SIGNED	4	$TIPSJBN	TIPS Job number
3640	(E38)	DBL WORD	8	$CLASDUP(0)	Classes with CAT3DUOK on
3648	(E40)	SIGNED	2	$JQXSIZE	JQX array entry size.
3650	(E42)	SIGNED	2	$RCDSIZE	RECY array entry size.
3652	(E44)	SIGNED	2	$JOXSIZE	JOX array entry size.
3654	(E46)	BITSTRING	1	$JXFLAG	JOE index control flags
		1...		$JXFCRT	"B'10000000'" JOE index was created
		.1..		$JXFACT	"B'01000000'" JOE index is active (up to date)
		..1.		$JXFBLD	"B'00100000'" Build is in progress
3655	(E47)	BITSTRING	1	$RJOBOP2	Checkpointed job options
		1...		$LOGFOLD	"B'10000000'" Fold JESYSMSG output
3656	(E48)	ADDRESS	4	$ZJCNUM	Number of Zone Job Container (ZJC) objects in the ZJC CTENT.
3660	(E4C)	SIGNED	4	$SAVEEND_Z11(0)	Z11 end of CKPTed HCT
3660	(E4C)	X'274'	0	$SAVELEN_Z11	"$SAVEEND_Z11-$SAVEBEG" Length of z11 checkpointed HCT
		The following fields are only written to the checkpoint in z22 $ACTIVATE mode.			
3660	(E4C)	SIGNED	4	$CONJNUM	Number of jobs allowed to be defined in a JOBGROUP to run concurrently in one set
3664	(E50)	ADDRESS	4	$ZODJNUM	Number of jobs allowed to be defined in a JOBGROUP
3668	(E54)	SIGNED	4	(23)	Reserved for future use
3760	(EB0)	SIGNED	4	$SAVEEND(0)	z/OS 2.2 end of CKPTed HCT
3760	(EB0)	X'2D8'	0	$SAVELEN	"$SAVEEND-$SAVEBEG" Length of z/OS 2.2 checkpointed HCT
		HASP R11-ADDRESSABLE PATCH SPACE. CODE IS GENERATED AS S-TYPE ADDRESS CONSTANTS WHEN DSECT=NO. VER/REP LOGIC SHOULD ASSUME S( ) HALFWORDS, NOT ZEROS, IN THIS AREA.			
3760	(EB0)	X'150'	0	$HCTPSZ	"4096-(*-HCT)"
3760	(EB0)	BITSTRING	1	$PATCHSP(0)	DEFINE PATCH SPACE

Table 209. Structure HCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
3760	(EB0)	X'1000'	0	$HCTLEN	"*-HCT" LENGTH OF ENTIRE HCT

Table 210. Cross Reference for $HCT

Name	Offset	Hex Tag
$#INDEXA	210	
$ABDNBUF	45E	0
$ACCMBAD	918	
$ACTABLE	164	
$ACTIGN	3BD	80
$ACTIVE	8BC	
$ACTREQ	3BD	40
$ACTRNUM	E8	
$ACTVFSS	8C0	
$ADDSYNS	3BC	80
$AFFINTY	8A5	0
$AFFLEN	89C	
$AFFLENH	89C	89E
$ALIPCE	B5C	
$ALLFFS	760	FFFFFFFF
$AMWMNAM	DE8	40404040
$APPLTBL	168	
$AQSE	16C	
$ARMPCE	B3C	
$ARMVR	638	8
$ASYNCQ	170	
$ASYNPCE	9C4	
$ASYPCIQ	174	
$AUTOINV	3AC	
$AUTONJE	8A1	10
$AUTORST	8A1	8
$BADJNC	DFA	6F
$BADTRTG	2FC	
$BERTESH	E26	8
$BERTHRS	643	0
$BERTMIN	E26	10
$BERTNNM	8A1	2
$BERTNUM	E0C	0
$BERTPTR	178	
$BERT16	E26	20
$BERT255	E26	80
$BFSZBSC	4EA	208
$BFSZPP	4EE	0
$BFSZSNA	4EC	190
$BFXLGRQ	434	0
$BFXNWBF	432	0
$BFXPRCT	42A	50
$BFXWBF	430	0

Table 210. Cross Reference for $HCT (continued)

Name	Offset	Hex Tag
$BITSONA	17C	
$BLANKS	6F8	40404040
$BRTCLN	8A1	80
$BRTDTYP	90D	0
$BRTFREC	930	
$BRTPRCT	D85	
$BSCCHEQ	300	
$BSCFREC	412	0
$BSCLGRQ	418	0
$BSCLIM	410	0
$BSCNWBF	416	0
$BSCPRCT	40E	50
$BSCWBF	414	0
$BSPGCT	4F4	
$BSPNTE	4F5	
$BSPSIZ	4F6	1C
$BTSYSID	D84	0
$BUFLENG	8B8	0
$BUFLGRQ	426	0
$BUFLIM	41E	0
$BUFNWBF	424	0
$BUFPRCT	41C	50
$BUFSIZE	DF6	F98
$BUFWBF	422	0
$BUFXLIM	42C	0
$BUSYQUE	180	
$BUSYRQ	184	
$CATCACH	6D4	
$CATMAX	8A0	4
$CATQUE	188	
$CCMAUTO	DCB	4
$CCOMCH	4F9	5B
$CCOMCHR	4C5	5B
$CDCPCE	B74	
$CF1VOL	DA5	40
$CF2VOL	DA5	20
$CHLOG	18C	
$CHLOGLN	BE4	
$CHLOGSZ	8DC	0
$CIPERAS	3B6	
$CKG1	190	
$CKG2	194	
$CKLEVNM	370	374
$CKOLDLV	378	
$CKOPVER	DA5	10
$CKPCTPW	DA6	0
$CKPTDPS	63C	10
$CKPTDPY	63C	8
$CKPTDWN	63C	80

Table 210. Cross Reference for $HCT (continued)

Name	Offset	Hex Tag
$CKPTFG1	63C	39
$CKPTFG2	63D	0
$CKPTFG3	63E	0
$CKPTFG4	63F	0
$CKPTFG5	642	0
$CKPTFLG	BEB	0
$CKPTLDP	63C	1
$CKPTLEV	370	0
$CKPTLOC	641	0
$CKPTLVP	370	370
$CKPTMSG	63C	40
$CKPTOAC	864	
$CKPTONX	868	
$CKPTPCE	9FC	
$CKPTPRI	63C	2
$CKPTQHD	19C	
$CKPTTEK	63C	4
$CKPTTMD	63C	20
$CKPTUPD	BE1	0
$CKPUSER	BEC	0
$CKRECS	D68	0
$CKTSEQN	BE8	0
$CKW	1A0	
$CK1DFLT	63C	39
$CK2CKPW	63D	10
$CK2DIAG	63D	80
$CK2EXTN	63D	20
$CK2INIT	63D	40
$CK3ACTV	63E	1
$CK3BYLK	63E	40
$CK3CHLG	63E	20
$CK3KRD1	63E	80
$CK34KPG	63E	10
$CK4CKAB	63F	1
$CK4CKPC	63F	2
$CK4HRSV	63F	4
$CK4OPRQ	63F	8
$CK4OPVN	63F	10
$CK4OPVY	63F	20
$CK5ACT	642	40
$CK5QSUS	642	80
$CLASDUP	E38	
$CLCB	198	
$CLOCK	7D0	0
$CLRECN	DAC	0
$CMBFREC	46E	0
$CMBLIM	468	0
$CMBPRCT	466	
$CMDPRCT	462	

Table 210. Cross Reference for $HCT (continued)

Name	Offset	Hex Tag
$CNVSCHE	DCB	20
$CNVTWEE	DA4	4
$COLDDTM	DD0	0
$COLDJSN	DAE	D1C5E2F2
$COLDJSP	DBB	40C3D6D3
$COLDSID	DC6	
$COLDVSN	DB3	40404040
$COMEXTN	1A4	
$COMMABT	63A	20
$COMMDWN	63A	80
$COMMFG1	63A	0
$COMMPCE	9B4	
$COMMQTP	1AC	
$COMMQUE	1A8	
$COMMWAT	63A	40
$CONJNUM	E4C	0
$CONSETP	DCB	2
$CPTMAP	1C0	
$CPTPOOL	1C4	
$CREATE	3BB	1
$CTBADA	514	
$CTLBFFS	7BC	FFFFFFFF
$CTLBLEN	89C	4
$CTLBLNH	8A2	4
$CURPCE	B9C	
$CYLMAPL	894	
$DADEBAD	1C8	
$DASAREA	1CC	
$DASEXSZ	E27	
$DASEXT	1D4	
$DASFRST	1D0	
$DASTRKQ	D70	0
$DASWRKQ	D6C	0
$DATAKEY	D74	0
$DAWNPCE	B6C	
$DBGALL	3CF	FF
$DCTPOL2	938	
$DCTPOOL	934	
$DDSEGLM	3A0	
$DEBGOPS	3CE	80
$DEBGOP2	3CF	
$DELAYTM	380	
$DESTDLC	E08	4
$DESTFLG	E08	0
$DESTNNN	E08	80
$DESTNNR	E08	2
$DESTRMN	E08	20
$DESTRMT	E08	10
$DESTRNN	E08	40

Table 210. Cross Reference for $HCT (continued)

Name	Offset	Hex Tag
$DESTUNN	E08	8
$DIAGTBL	104	
$DILHEAD	E0	
$DILPCE	B54	
$DILTAIL	E4	
$DISPACE	482	A
$DISPCNT	480	0
$DISPSVA	860	
$DLSPCE	A84	
$DMNDSET	3BB	4
$DOMIDN	4BC	2
$DOMID1	4B8	
$DOMQUE	1D8	
$DOMQUEA	1DC	
$DOUBLE	6A8	0
$DPCEACT	598	
$DPCEALC	592	
$DPCEDEF	590	
$DPCEDSF	59C	C
$DPCEDSM	59C	4
$DPCEDSN	59C	8
$DPCEDSO	59C	14
$DPCEDSX	59C	18
$DPCEDSY	59C	10
$DPCEEND	594	
$DPCEFLG	59C	
$DPCELEN	59C	D
$DPCETMD	59C	20
$DPCETMX	59C	C0
$DPCETOF	59C	40
$DPCETON	59C	80
$DPCETSF	59C	60
$DPCETSO	59C	A0
$DRQUES	BCC	
$DSPXITA	7C	
$DSTRSTK	15C	
$DTEALOC	11C	
$DTEASST	128	
$DTECKCF	144	
$DTECKDA	148	
$DTECKVR	140	
$DTECNVT	138	
$DTEEOM	150	
$DTEGSUB	14C	
$DTEIMAG	118	
$DTELAST	114	
$DTELIST	5E6	5A8
$DTELIS2	5BD	5A8
$DTELSTF	5A8	

Table 210. Cross Reference for $HCT (continued)

Name	Offset	Hex Tag
$DTELST2	5A8	
$DTEMIG	124	
$DTEOFF	13C	
$DTEORG	110	
$DTESMF	12C	
$DTESPOL	120	
$DTEVTM	130	
$DTEWTO	134	
$DWAHEAD	B8	
$DWATAIL	BC	
$DWORK	6B0	0
$DWORK2	6B8	0
$ECBEXTN	78	1800000
$ECKTRMJ	638	1
$EMEMAFF	1E0	0
$ENFJPLX	DCB	8
$ENFPCE	A14	
$EOMPCE	B64	
$ERDM497	4B8	
$ERDOMID	914	
$ERRAFF	8E4	
$ERRCODE	8F4	0
$ERREOPT	8FC	
$ERRERPL	8E0	
$ERRJQE	8F8	
$ERRREGS	8E8	
$ERRREG0	8E8	8EC
$ERRTABA	1E4	
$ERRTRCA	8D4	
$ESTBYTE	3DC	
$ESTIME	400	
$ESTIM9L	400	4
$ESTLNCT	3E8	
$ESTLN9L	3E8	6
$ESTMX9L	3DC	6
$ESTPAGE	3D0	
$ESTPG9L	3D0	8
$ESTPN9L	3F4	8
$ESTPUN	3F4	
$ESTTCNT	3D0	5
$EST1	3D0	
$EVTLOFF	DCD	80
$EVTLRST	DCC	20
$EVTLSMF	DCC	80
$EVTLSTP	DCC	40
$EVTLTRC	DCC	10
$EVTLUSR	DCC	8
$EXCPCT	900	0
$EXCPEXA	8C	

Table 210. Cross Reference for $HCT (continued)

Name	Offset	Hex Tag
$EXECDUP	DA4	8
$EXECDWN	63B	80
$EXECFG1	63B	0
$EXECPCE	9BC	
$EXECSPN	63B	40
$EXTECBQ	BC4	
$EZAADDR	1E8	
$FASNIFL	E2E	0
$FCLPCE	B1C	
$FLAG1	DA4	0
$FLAG2	DA5	18
$FLAG3	DFB	A0
$FLAG4	E26	0
$FLAG5	DCB	0
$FLAG6	DCC	0
$FNCCNT	D87	0
$FREEJOE	EC	
$FSSETIM	904	
$F0	774	0
$F1	778	1
$F15	798	F
$F2	77C	2
$F255	79C	FF
$F3	780	3
$F4	784	4
$F4096	7A0	1000
$F5	788	5
$F6	78C	6
$F65535	7A4	FFFF
$F7	790	7
$F8	794	8
$GENGRD	634	CC33AA55
$GENSYS	5A8	0
$GENWORK	5A8	
$GENWRKL	634	8C
$GENWTHT	5AC	
$GENWTHW	5B0	
$GENWTJN	5B4	
$GETWKSF	680	684
$GETWKSV	680	0
$GETWKS1	680	68C
$GETWKS2	680	690
$GETWRKA	1F4	
$GTWKTAB	1F0	
$HASCB	1F8	
$HASPDCB	1FC	
$HASPECB	74	
$HASPECF	BA8	0
$HASPID	D78	D1C5E2F2

Table 210. Cross Reference for $HCT (continued)

Name	Offset	Hex Tag
$HASPMAP	64	
$HASPPRM	2A4	C8C1E2D7
$HASPRB	200	
$HASPTCB	204	
$HASP051	924	0
$HCCT	2F4	
$HCTLEN	EB0	1000
$HCTPSZ	EB0	150
$HETOKEN	8D8	0
$HEXTRAN	7A8	6BC
$HFAM	208	
$HIBITOF	76C	76C
$HIBITON	7A8	80000000
$HIGHVER	D98	5E
$HTDIST	4FA	A
$H0	774	776
$H1	778	77A
$H2	77C	77E
$H255	79C	79E
$H3	780	77F
$H4	784	786
$H4096	7A0	7A2
$H5	788	78A
$H6	78C	78E
$H7	790	792
$H8	794	796
$ICEFREC	45A	0
$ICEFRZC	45C	0
$ICELIM	458	0
$ICELOST	20C	
$ICEPRCT	456	50
$IMAGE	154	
$INIWARM	214	
$INTRDCB	638	4
$IOTPDDB	890	
$IPCSLVL	61	
$IRCPCE	A34	
$JAXPTR	108	
$JCLPCE	A44	
$JCMDPCE	B24	
$JCOPYLM	4F8	
$JESACCT	218	
$JESSECL	228	40404040
$JESTOKA	21C	
$JESUSER	220	40404040
$JES2_LEVEL	32C	
$JINITIP	8A0	40
$JIXMPCN	E09	0
$JNEW	230	

Table 210. Cross Reference for $HCT (continued)

Name	Offset	Hex Tag
$JNOPRCT	CDB	
$JNSYSID	CDA	0
$JNTPTR	234	
$JNTSIZE	E0A	
$JOBQPTR	23C	
$JOEIPCE	B7C	
$JOEPRCT	CD8	
$JOEWRKA	6D0	
$JOSYSID	CD7	0
$JOTABLE	240	
$JOTPOST	244	
$JOXPTR	250	
$JOXSIZE	E44	0
$JQCLSSZ	C08	90
$JQEEXFR	CD0	0
$JQEEXT	248	
$JQEFRCN	E1C	0
$JQEFUDG	336	0
$JQELEN	CCC	0
$JQEMSKL	CCE	3
$JQENUM	E20	
$JQEPRCT	CD5	
$JQFREEI	C04	
$JQHEADI	C08	
$JQHEADL	C08	4
$JQRBDTY	CC4	30
$JQRBLDI	CC4	
$JQRPCE	A1C	
$JQSYSID	CD4	0
$JQTYPES	C08	2F
$JQXPTR	24C	
$JQXSIZE	E40	0
$JSPL	7C2	7C1
$JSPLL	7C1	
$JSPLV	7C2	D1C5E2E2
$JWEHAVT	258	
$JWELTBL	254	
$JXFACT	E46	40
$JXFBLD	E46	20
$JXFCRT	E46	80
$JXFLAG	E46	0
$J2CLJBP	3C0	0
$J2CLMSG	3C0	1
$J2CLNFY	3C0	3
$J2CLNTA	3C0	2
$J2CLOPT	3C0	FFFFFFFF
$J2CLOP1	3C0	3C0
$J2CLOP2	3C0	3C1
$J2CLOP3	3C0	3C2

Table 210. Cross Reference for $HCT (continued)

Name	Offset	Hex Tag
$J2CLOP4	3C0	3C3
$J2CLOUT	3C0	4
$J2CLPRY	3C0	5
$J2CLRTE	3C0	6
$J2CLSET	3C0	7
$J2CLXEQ	3C0	8
$J2CLXMT	3C0	9
$J3CLDS	3C4	1
$J3CLEDS	3C4	2
$J3CLEPR	3C4	9
$J3CLFMT	3C4	3
$J3CLMN	3C4	0
$J3CLNET	3C4	4
$J3CLNTA	3C4	5
$J3CLOPR	3C4	6
$J3CLOPT	3C4	0
$J3CLOP1	3C4	3C4
$J3CLOP2	3C4	3C5
$J3CLOP3	3C4	3C6
$J3CLOP4	3C4	3C7
$J3CLPAU	3C4	7
$J3CLPRC	3C4	8
$J3CLRTE	3C4	A
$KFCFLG7	DCD	0
$KITNUM	384	
$KITNUM2	CCA	0
$KITPTR	25C	
$LASNIFL	E28	0
$LASTAMW	DE4	0
$LASTCLD	DD8	0
$LASTSPV	DDC	0
$LBFREC	420	0
$LBXFREC	42E	0
$LCKPTR	260	
$LCLADCT	998	
$LDSRENA	DCB	40
$LDVCACH	984	
$LEVEL	32C	A961D6E2
$LINECT	3BE	
$LIRCT	508	1
$LMTPBOT	70	
$LMT1	68	
$LMT1C	6C	
$LNEDCT	94C	
$LOCKOUT	388	3E8
$LOGFOLD	E47	80
$LOGNDCT	954	
$LOWVER	D99	5E
$LSEPDBL	4AE	10

Table 210. Cross Reference for $HCT (continued)

Name	Offset	Hex Tag
$LSEPFUL	4AE	20
$LSEPHAF	4AE	40
$LSEPNON	4AE	80
$LSPTR	264	
$MACVERS	60	F6
$MAILMSG	3BF	80
$MAINSTK	158	
$MASACTV	DA4	20
$MASECF	BB0	0
$MASPOST	8B6	0
$MASTER	268	
$MASTERI	26C	
$MASTERL	BDC	0
$MASVER	D98	
$MAXCMCT	903	
$MAXDBLE	76C	7FFFFFFF
$MAXDELT	3A4	78
$MAXDORM	39C	1F4
$MAXEXSZ	CD2	4E20
$MAXFAIL	4A4	0
$MAXFULL	76C	76C
$MAXHALF	76C	76C
$MAXHOP	3AA	0
$MAXINT	394	
$MAXMSGQ	3A6	C8
$MAXPART	4FE	3
$MAXREST	8AC	
$MAXSESS	454	0
$MAXVUSE	4A0	0
$MCJCLAS	E26	1
$MCONACT	639	80
$MCONFG1	639	0
$MCONMSG	270	
$MCONNPM	639	20
$MCONPCE	A04	
$MCONWAT	639	40
$MCONWPM	639	10
$MCT	F4	
$MG607FL	472	
$MG607F1	472	0
$MG607F2	473	0
$MG607TM	474	0
$MIGRIOQ	1B8	
$MIGRQCD	1B8	
$MIGRQSQ	1BC	
$MINDORM	398	64
$MINHOLD	38C	5F5E0FF
$MINUS1	760	760
$MINUS2	764	FFFFFFFE

Table 210. Cross Reference for $HCT (continued)

Name	Offset	Hex Tag
$MISCPCE	A24	
$MLBFSIZ	4E8	190
$MLLMECF	BB8	0
$MLLMPCE	9EC	
$MLNEDCT	950	
$MODREFR	8A1	4
$MSAVE	644	
$MSKNODE	8CC	80402010
$MSTHCTL	BE2	2D8
$MSTRHI	BE0	A
$MSTRID	BD8	D4E2E3D9
$MSTRVER	BE0	
$MSTRVRN	BE0	6
$MSTRVR4	BE0	7
$MSTRV12	BE0	8
$MSTRZ11	BE0	9
$MSTRZ2	BE0	8
$MSTRZ22	BE0	A
$MVFENCE	DA4	10
$MVSDISP	7E8	
$MVSPSEQ	3B0	
$MVSWAIT	7D8	
$MWORK	274	
$M581DVN	590	
$M581ERR	59C	
$M581FGF	5A0	80
$M581FLG	5A0	
$M581FL1	5A0	40
$M581FL2	5A0	20
$M581FNT	5A0	10
$M581INF	59E	
$M581RC	598	
$M607AAS	473	40
$M607ACM	473	8
$M607ACT	472	20
$M607CKR	473	2
$M607CRS	472	4
$M607DIL	473	10
$M607ESP	473	80
$M607HLD	472	10
$M607IO	472	80
$M607LCK	472	8
$M607NET	473	20
$M607PCE	472	1
$M607SPM	473	4
$M607SPN	472	2
$M607WTO	472	40
$NDDOMID	91C	
$NDENAME	D7C	40404040

Table 210. Cross Reference for $HCT (continued)

Name	Offset	Hex Tag
$NETACCT	278	
$NETDCTS	964	
$NETLDCT	960	
$NETLNES	9A4	0
$NEWSCLV	BFC	0
$NEWSIOT	BF8	0
$NEWSJQE	BF4	0
$NEWSLVL	BFE	0
$NHBFREC	44A	0
$NHBLGRQ	450	0
$NHBLIM	448	0
$NHBNWBF	44E	0
$NHBPRCT	446	50
$NHBWBF	44C	0
$NIPFCB	4D8	5C5C5C5C
$NIPFLSH	4E0	5C5C5C5C
$NIPUCS	4DC	C7C6F1F0
$NITABLE	27C	
$NITCPTR	280	
$NITCSEQ	284	0
$NITECNT	92E	0
$NITESIZ	8B4	0
$NJEADCT	988	
$NJEOPTS	3BF	
$NJRPCE	AB4	
$NJTPCE	AA4	
$NMSGFRE	47C	0
$NMSGNUM	478	0
$NMSGPRC	470	
$NODEID	E00	1
$NODETOL	8B2	0
$NODREST	8B0	64
$NONPNJE	DCD	40
$NONSHR	DA4	40
$NOPRCCW	4AC	
$NOPUCCW	4AD	
$NPMPCE	AE4	
$NRMPCE	AEC	
$NRRPCE	AF4	
$NRTPCE	AFC	
$NSRPCE	AD4	
$NSTPCE	AC4	
$NUCFIXD	288	
$NUMACE	4FC	14
$NUMALI	B60	10000
$NUMARM	B40	10000
$NUMASYN	9C8	10000
$NUMAUTO	3AE	0
$NUMBSC	40C	0

Table 210. Cross Reference for $HCT (continued)

Name	Offset	Hex Tag
$NUMBUF	41A	FFFF
$NUMBUFX	428	FFFF
$NUMCDC	B78	10000
$NUMCKPT	A00	10000
$NUMCMBS	464	64
$NUMCMDS	460	0
$NUMCNVT	A48	A0000
$NUMCOMM	9B8	
$NUMCPTS	362	0
$NUMDAWN	B70	10000
$NUMDIL	B58	70000
$NUMDLSP	A88	10000
$NUMENF	A18	10000
$NUMEOM	B68	30000
$NUMEVTL	9E0	10000
$NUMEXEC	9C0	10000
$NUMFAIL	4A8	0
$NUMFCL	B20	10000
$NUMIRC	A38	20000
$NUMJCMD	B28	10000
$NUMJOEI	B80	10000
$NUMJOES	DFC	
$NUMJQR	A20	A0000
$NUMLDEV	9AE	
$NUMLNES	9A0	0
$NUMLOGS	9A6	0
$NUMMCON	A08	10000
$NUMMISC	A28	10000
$NUMMLLM	9F0	10000
$NUMMLNE	9A2	0
$NUMNHB	444	FFFF
$NUMNJR	9AF	
$NUMNJRS	AB8	0
$NUMNJT	9AE	
$NUMNJTS	AA8	0
$NUMNODE	DEC	1
$NUMNPM	AE8	10000
$NUMNRM	AF0	10000
$NUMNRR	AF8	0
$NUMNRT	B00	0
$NUMNSR	9B1	
$NUMNSRS	AD8	0
$NUMNST	9B0	
$NUMNSTS	AC8	0
$NUMOFFS	9AA	0
$NUMOJRS	AC0	0
$NUMOJTS	AB0	0
$NUMOSRS	AE0	0
$NUMOSTS	AD0	0

Table 210. Cross Reference for $HCT (continued)

Name	Offset	Hex Tag
$NUMOUT	A58	A0000
$NUMPATH	3A8	1
$NUMPRTS	A60	0
$NUMPRTY	A90	10000
$NUMPRYO	A98	10000
$NUMPSO	A50	20000
$NUMPUNS	A70	0
$NUMPURG	A80	A0000
$NUMRDRS	A30	0
$NUMRESM	B08	10000
$NUMSFS	A10	10000
$NUMSMFB	484	5
$NUMSNF	B48	20000
$NUMSOM	9F8	10000
$NUMSPI	B50	A0000
$NUMSPIN	B18	30000
$NUMSPOL	9E8	10000
$NUMSRVS	9A8	0
$NUMSTAC	B10	20000
$NUMTG	E04	
$NUMTIMR	9D8	10000
$NUMTPPR	A68	0
$NUMTPPU	A78	0
$NUMTPRD	A40	0
$NUMVTAM	436	0
$NUMWARM	AA0	10000
$NUMXCF	B30	10000
$NUMXCM	B38	10000
$NUMXTIM	9D0	10000
$NWECB	90	
$OFFADCT	990	
$OFFDCT	970	
$OJRDCT	974	
$OJRPCE	ABC	
$OJTDCT	97C	
$OJTPCE	AAC	
$OLDDCTS	96C	
$OPSPJNO	DA8	0
$OPTCOLD	3B8	40
$OPTCONS	3B8	2
$OPTFMT	3B8	80
$OPTINTR	3BD	10
$OPTLIST	3B8	10
$OPTLOG	3B8	8
$OPTQWIK	3B8	1
$OPTREQ	3B8	20
$OPTSTAT	3B8	38
$OPTSTA1	3B9	0
$OPTSTA2	3B7	0

Table 210. Cross Reference for $HCT (continued)

Name	Offset	Hex Tag
$OPTSTD	3B8	38
$OPT1STD	3B9	0
$OP1CKPT	3B9	40
$OP1PJS2	3B9	20
$OP1SFCE	3B9	8
$OP1SPEC	3B9	80
$OP1SVAL	3B9	10
$OP1SVLH	3B9	2
$OP1UNAC	3B9	4
$OP2COMP	3B7	80
$OP2FULF	3B7	40
$ORIGMHD	390	0
$OSRDCT	978	
$OSRPCE	ADC	
$OSTDCT	980	
$OSTPCE	ACC	
$OUTPCE	A54	
$OWNNIT	87C	
$OWNNODE	888	1
$PADDR	290	
$PATCHSP	EB0	0
$PBELST	928	
$PCEASYN	8B7	80
$PCEHCTA	9B2	2
$PCEHCTC	9B2	4
$PCEHCTD	9B2	0
$PCEHCTE	9B2	8
$PCEHCTP	9B2	0
$PCELAST	B98	
$PCEORG	B94	
$PCEPOST	8B7	0
$PCEPRIX	8B7	40
$PCEPSTC	BA0	
$PDYNDET	8A1	20
$PERFCB	294	
$PITABLE	29C	
$PITNUM	92C	0
$PLVL	334	
$PLXDYNI	328	0
$POSTELS	9B4	
$POSTEXA	84	
$POSTLST	B80	B7C
$POSTSAV	660	0
$PPBSIZE	360	
$PRCJ3CL	3BD	8
$PRFDATA	298	
$PRFXFLG	4C7	20
$PRIHIGH	D9C	
$PRILOW	D9D	

Table 210. Cross Reference for $HCT (continued)

Name	Offset	Hex Tag
$PRIOOPT	3BA	2
$PRIOUT	364	
$PRIRATE	D9A	0
$PRMDEND	5B8	80
$PRMDFLG	5B8	
$PRMDINX	5B0	
$PRMDSAV	5A8	
$PRMDTBL	2A0	
$PRMDWKL	5B8	11
$PRMMEMB	2AC	40404040
$PROCDDN	28C	0
$PROCDFT	638	3
$PROCESS	638	3
$PRODISP	638	10
$PRONEWS	638	80
$PRORATE	D9E	0
$PRPUSRV	F0	
$PRSCNWB	638	20
$PRTBOPT	3BB	80
$PRTCALL	4C4	80
$PRTDCT	940	
$PRTFCB	4D0	F6404040
$PRTOPTS	3BB	
$PRTOPT2	4C4	80
$PRTPCE	A5C	
$PRTRANS	3BB	8
$PRTUCS	4D4	F0404040
$PRTYJOB	3BA	1
$PRTYOHI	DA0	FF0
$PRTYOLO	DA2	0
$PRTYOUT	3BA	4
$PRTYPCE	A8C	
$PRUNSP	DA4	1
$PRYOPCE	A94	
$PSOPCE	A4C	
$PSOTOK	DC	
$PSWAMOD	842	
$PSWMODE	841	
$PSWSAVE	840	
$PUNBOPT	3BB	40
$PUNDCT	944	
$PUNPCE	A6C	
$PURGPCE	A7C	
$QINDEXA	2B4	
$QSELEN	C00	C8
$QSEMAX	D64	20
$QSENDEF	D66	1
$QSE1	2B8	
$QVERDAT	3C8	0

Table 210. Cross Reference for $HCT (continued)

Name	Offset	Hex Tag
$QVERRSN	3CC	
$QVRNART	3CC	C
$QVRNBDB	3CC	53
$QVRNBDC	3CC	6
$QVRNBDF	3CC	7
$QVRNBDI	3CC	8
$QVRNBDQ	3CC	5
$QVRNBFR	3CC	51
$QVRNBIM	3CC	52
$QVRNBJE	3CC	5C
$QVRNBJF	3CC	5A
$QVRNBJH	3CC	5B
$QVRNBNI	3CC	55
$QVRNBNQ	3CC	54
$QVRNBOE	3CC	5E
$QVRNBOH	3CC	5D
$QVRNBOR	3CC	5F
$QVRNBQE	3CC	57
$QVRNBQH	3CC	56
$QVRNBQL	3CC	58
$QVRNBQV	3CC	59
$QVRNCER	3CC	61
$QVRNCQ1	3CC	9A
$QVRNCQ2	3CC	9B
$QVRNCQ3	3CC	9C
$QVRNCQ4	3CC	9D
$QVRNCQ5	3CC	9E
$QVRNCQ6	3CC	9F
$QVRNCQ7	3CC	A0
$QVRNCQ8	3CC	A1
$QVRNDDI	3CC	74
$QVRNDDN	3CC	76
$QVRNDDT	3CC	75
$QVRNDDX	3CC	77
$QVRNDFI	3CC	3D
$QVRNDFQ	3CC	3C
$QVRNDFT	3CC	3E
$QVRNDJA	3CC	1D
$QVRNDJB	3CC	1E
$QVRNDJC	3CC	1F
$QVRNDJE	3CC	1C
$QVRNDJF	3CC	20
$QVRNDJN	3CC	18
$QVRNDJQ	3CC	1A
$QVRNDJX	3CC	19
$QVRNDJZ	3CC	1B
$QVRNDNP	3CC	73
$QVRNDNX	3CC	3F
$QVRNDPI	3CC	40

Table 210. Cross Reference for $HCT (continued)

Name	Offset	Hex Tag
$QVRNDPN	3CC	72
$QVRNDPT	3CC	71
$QVRNENF	3CC	43
$QVRNETH	3CC	41
$QVRNETO	3CC	42
$QVRNFRC	3CC	3
$QVRNFRE	3CC	2
$QVRNJAR	3CC	AD
$QVRNJBC	3CC	21
$QVRNJCF	3CC	32
$QVRNJDF	3CC	31
$QVRNJEF	3CC	34
$QVRNJI#	3CC	3B
$QVRNJIN	3CC	3A
$QVRNJJI	3CC	39
$QVRNJJK	3CC	37
$QVRNJJN	3CC	36
$QVRNJJQ	3CC	35
$QVRNJJR	3CC	38
$QVRNJNX	3CC	2E
$QVRNJOE	3CC	AE
$QVRNJPF	3CC	30
$QVRNJQC	3CC	12
$QVRNJQL	3CC	16
$QVRNJQO	3CC	15
$QVRNJSF	3CC	33
$QVRNJTE	3CC	1
$QVRNJXE	3CC	A
$QVRNJXM	3CC	B
$QVRNJZD	3CC	2F
$QVRNLDN	3CC	22
$QVRNLJI	3CC	2C
$QVRNMJN	3CC	9
$QVRNNLG	3CC	2B
$QVRNNTJ	3CC	2D
$QVRNNTZ	3CC	27
$QVRNOCC	3CC	8D
$QVRNOCE	3CC	89
$QVRNOCO	3CC	8A
$QVRNOCQ	3CC	8B
$QVRNOC1	3CC	8C
$QVRNOC2	3CC	8E
$QVRNOJE	3CC	82
$QVRNORE	3CC	84
$QVRNORQ	3CC	83
$QVRNOR2	3CC	85
$QVRNOR3	3CC	86
$QVRNOR4	3CC	87
$QVRNOR5	3CC	88

Table 210. Cross Reference for $HCT (continued)

Name	Offset	Hex Tag
$QVRNOTE	3CC	81
$QVRNOWC	3CC	91
$QVRNOWE	3CC	8F
$QVRNOWQ	3CC	90
$QVRNOW1	3CC	92
$QVRNOW2	3CC	93
$QVRNOW3	3CC	94
$QVRNOW4	3CC	95
$QVRNOW5	3CC	96
$QVRNOW6	3CC	97
$QVRNOW7	3CC	98
$QVRNOW8	3CC	99
$QVRNRQE	3CC	4
$QVRNRSV	3CC	28
$QVRNSDN	3CC	23
$QVRNTCE	3CC	AC
$QVRNTPE	3CC	A9
$QVRNTP2	3CC	AA
$QVRNTP3	3CC	AB
$QVRNTQE	3CC	A2
$QVRNTRE	3CC	A3
$QVRNTR2	3CC	A4
$QVRNTUE	3CC	A5
$QVRNTU2	3CC	A6
$QVRNTU3	3CC	A7
$QVRNTU4	3CC	A8
$QVRNWQE	3CC	10
$QVRNWQN	3CC	11
$QVRNWQP	3CC	13
$QVRNWQX	3CC	14
$QVRNWWQ	3CC	17
$QVRNXTF	3CC	F
$QVRNXTH	3CC	D
$QVRNXTO	3CC	E
$QVRNZAI	3CC	26
$QVRNZFQ	3CC	25
$QVRNZNF	3CC	24
$QVRNZNX	3CC	2A
$QVRNZRS	3CC	29
$QVRZCOU	3CC	C3
$QVRZFRE	3CC	C1
$QVRZIDX	3CC	C2
$RASSIGN	638	2
$RATABLE	2BC	
$RBDM497	4BC	
$RBFADDR	908	
$RCDFRST	2C0	
$RCDSIZE	E42	0
$RCOMCHR	4C6	5B

Table 210. Cross Reference for $HCT (continued)

Name	Offset	Hex Tag
$RDRAREA	501	E9
$RDRDCT	93C	
$RDRPCE	A2C	
$READY	BD0	
$READYF	BD0	
$READYL	BD4	
$REBLDS	CC8	0
$RECINCR	E02	
$RECVCNT	8DE	0
$REGSAVC	7F8	
$REGSAVE	7F8	800
$RESMPCE	B04	
$RETRYCT	50C	2
$RJEOPTS	3BC	
$RJOBOPT	3BD	
$RJOBOP2	E47	0
$RMTDCTS	968	
$RMTNUM	4E4	0
$RMTSON	2C8	
$ROLLSAV	554	
$ROTCKPT	578	
$ROTDISP	568	
$ROTJOE	560	
$ROTJQE	558	
$ROTSAPI	570	
$ROUTDCT	948	
$RPLCOMQ	2C4	
$RPRBOPT	3BB	20
$RPUBOPT	3BB	10
$RSCTABL	CD4	
$RSEPDBL	4AE	1
$RSEPFUL	4AE	2
$RSEPHAF	4AE	4
$RSEPNON	4AE	8
$RSOCLDP	CE8	0
$RSRVCKG	4B0	
$RSV3	B84	0
$RTIMTAB	2CC	
$RUNOPTS	3BA	2
$RWL	94	
$RWLNJRS	A4	
$RWLNJTS	A8	
$RWLNSRS	AC	
$RWLNSTS	B0	
$RWLPRTS	9C	
$RWLPUNS	A0	
$RWLRDRS	98	
$SAPCACH	C0	
$SAPTOK	D4	

Table 210. Cross Reference for $HCT (continued)

Name	Offset	Hex Tag
$SAVALST	2D4	
$SAVAREA	2D0	
$SAVEBEG	BD8	
$SAVEBOF	62	
$SAVEEND	EB0	
$SAVEEND_Z11	E4C	
$SAVELEN	EB0	2D8
$SAVELEN_Z11	E4C	274
$SCANMDL	510	64
$SCANPDL	50E	40
$SCANWKA	5A8	
$SCANXWA	590	40404040
$SCLPEND	4C0	
$SCNDL16	5A8	5A8
$SCNDL24	5A8	
$SCNDWKA	5A8	5A8
$SCNDWKB	5A8	5B0
$SCNDWKC	5A8	5B8
$SCNGRD	5A4	CC33AA55
$SCNLLIM	5C0	
$SCOPSPL	4C7	10
$SCOPSYS	4C7	20
$SCQADDR	2DC	
$SCQJQE	CF0	0
$SCT	2E0	
$SDCMBAD	920	
$SDWNFST	8A0	80
$SEPPAGE	4AE	
$SFSPCE	A0C	
$SFWA	2D8	
$SID	878	40404040
$SIDBUSY	88A	
$SIDINDX	88C	0
$SIDTIME	870	0
$SINGLE	6A8	6A8
$SJFJDVT	8C4	0
$SLSLEOF	3BD	4
$SLVL	335	
$SMFBUSY	2E4	
$SMFFREC	48A	0
$SMFPRCT	486	
$SNFNSYM	DA5	1
$SNFPCE	B44	
$SNFZ7FS	0	1
$SNIFAST	DA5	2
$SNV	880	
$SOCKTBL	2EC	
$SOMPCE	9F4	
$SONWORK	8BA	0

Table 210. Cross Reference for $HCT (continued)

Name	Offset	Hex Tag
$SPFTIME	CE0	0
$SPINACT	49F	
$SPINJQE	638	40
$SPINPCE	B14	
$SPIPCE	B4C	
$SPLADRA	DA5	8
$SPLADRS	DA5	4
$SPLBYTS	E10	0
$SPLEASA	E26	2
$SPLEASS	E26	4
$SPLEXST	CF4	0
$SPLINAC	D34	0
$SPLIOER	160	A
$SPLLEN	DF3	
$SPLLGDS	DFB	80
$SPLLGUS	DFB	20
$SPLMTTT	DFB	40
$SPLNUMB	DF4	DF5
$SPLSLCT	D14	0
$SPMSKWA	6D8	0
$SPOFERR	500	
$SPOLMSG	4F3	
$SPOLNUM	DF4	20
$SPOLPCE	9E4	
$SPOOL	DEE	E2D7D6D6
$SPOOLCB	4B4	
$SPOOLQ	2E8	
$SPVLRSN	3CD	
$SPVMNAM	DE0	40404040
$SPV1BRT	3CD	5
$SPV1OPT	3CD	3
$SPV1QER	3CD	1
$SPV1SPL	3CD	4
$SPV1VAL	3CD	2
$SRVDCT	958	
$SSNM	880	5C5C5C5C
$SSVS	884	5C5C5C5C
$STABNDA	B4	
$STACPCE	B0C	
$STACTOK	D8	
$STARTCP	660	6D8
$STARTTM	660	648
$STATUS	88F	
$STATUS1	8A0	40
$STATUS2	8A1	18
$STDFORM	4C8	E2E3C440
$STERSTK	160	
$STIMASK	4F2	
$STIMBUF	4F2	80

Table 210. Cross Reference for $HCT (continued)

Name	Offset	Hex Tag
$STIMDCT	4F2	20
$STIMSBT	4F2	10
$STIMTIM	4F2	40
$STKEWRK	6C0	0
$STOPXEQ	8A0	8
$STQEACT	2F8	
$STRTDSI	8A1	1
$STUBCNT	C8	0
$STUBPTR	CC	
$STWORK	2F0	
$ST1PJTM	8A0	20
$SUBTASK	88E	
$SXADDR	100	
$SYMBM	10C	
$SYNCTOL	368	
$SYSID	888	
$TBLNUM	340	2
$TCELSIZ	E03	
$TGAELEN	898	0
$TGAENUM	89A	32
$TGALLOC	D54	
$TGBAD	340	
$TGDEFND	D5C	
$TGFREE	D60	
$TGFREEB	490	7FFFFFFF
$TGMADDR	338	
$TGMAP	33C	
$TGMHEAD	338	
$TGPRCT	CDE	
$TGRADDR	344	
$TGRHDR	344	28
$TGSIZE	48E	1E
$TGSYSID	CDD	0
$TGTOTAL	D58	
$TIMEPCE	9D4	
$TIPSJBN	E34	0
$TOTCKRN	85C	
$TOTCKSZ	37C	
$TPPRPCE	A64	
$TPPUPCE	A74	
$TPRDPCE	A3C	
$TQEQUE	304	
$TRCDWN	640	1
$TRCFG1	640	0
$TRCPCE	9DC	
$TRCSYSX	640	80
$TRGENER	308	
$TRTIME	504	
$TTBPRCT	494	

Table 210. Cross Reference for $HCT (continued)

Name	Offset	Hex Tag
$UCT	FC	
$UNSPUN	DA4	80
$UPADDR	348	
$USERSET	3BB	2
$USER1	350	
$USER2	354	
$USER3	358	
$USER4	35C	0
$USER5	35E	0
$USXADDR	34C	
$UVERS	58	40404040
$VERSACT	49E	80
$VERSFRE	49A	0
$VERSINI	49E	10
$VERSION	50	E2D740F5
$VERSKPT	49E	20
$VERSNUM	498	0
$VERSSTT	49E	10
$VERSWRN	49C	50
$VLOGQUE	30C	
$VTMFREC	43C	0
$VTMLGRQ	442	0
$VTMLIM	43A	0
$VTMNWBF	440	0
$VTMPRCT	438	50
$VTMWBF	43E	0
$WARMACT	386	0
$WARMCNT	AA0	4
$WARMPCE	A9C	
$WARMTYP	90C	
$WCHECK	BEA	0
$WLMDATA	310	
$WLMDIFF	8A0	2
$WLMRGOK	8A0	1
$WORK16	6B8	6A8
$WORK24	6B8	6A8
$WRMDONE	8A0	10
$WRMESYS	912	1
$WRMINIT	910	
$WRMREG	910	1
$WSAPTR	314	
$WSBITOF	768	7F
$WSUSER	764	80
$WTBSYJO	DA5	80
$XCFFLG1	854	
$XCFFLG2	855	
$XCFGPNM	E14	40404040
$XCFIXVT	858	
$XCFPCE	B2C	

Table 210. Cross Reference for $HCT (continued)

Name	Offset	Hex Tag
$XCFXEQP	8A8	0
$XCF1ERR	854	20
$XCF1MUD	854	2
$XCF1NAR	854	80
$XCF1NRS	854	40
$XCF1SGO	854	4
$XCF1STP	854	8
$XCF1STR	854	10
$XCF2ERR	855	80
$XCMPCE	B34	
$XCPECBX	88	1800000
$XCWFLAG	C4	0
$XCWLCEN	C4	40
$XCWSCEN	C4	80
$XECBQ	BC0	
$XECBQF	BC0	
$XECBQL	BC8	
$XEQDCT	95C	
$XEQINT	8A1	40
$XFRACTV	318	
$XFRBEND	31C	
$XFRDEND	320	
$XFRECBX	80	1800000
$XITADDR	324	
$XMASADR	1EC	
$XTIMPCE	9CC	
$XWTRACT	902	80
$XWTRFLG	902	
$ZAPTIME	D88	0
$ZERO	718	718
$ZEROES	718	718
$ZEROFFF	758	FFFFFF
$ZEROS	718	0
$ZEROTGS	DCB	80
$ZJCFREI	D90	0
$ZJCFREN	D94	0
$ZJCLEN	E24	0
$ZJCNUM	E48	
$ZJCPRCT	CE5	
$ZJCPTR	238	
$ZJSYSID	CE4	0
$ZODHEAD	D8C	0
$ZODJNUM	E50	
$0FFF	758	758
$000F	75C	FF
$7FFF	76C	76C
#POSTWTO	DCB	10
HCT	0	

Chapter 98. $HFAM Information

$HFAM Programming Interface Information

$HFAM is a programming interface.

$HFAM Heading Information

Common Name: HASP File Allocation Map
Macro ID: $HFAM
DSECT Name: HFAM
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: HFAM
Offset: HFAMID-HFAM
Length: L'HFAMID
Storage Attributes: Subpool: 0
Key: 1
Residency: Virtual and real storage are anywhere in the JES2 address space.

Size: See HFAMLEN
Created by: JES2 Initialization
Pointed to by: $HFAM field of the $HCT data area
Serialization: The JES2 Checkpoint data set lock ($QSUSE) is used.
NOTE: This is a checkpointed control block and part of check record. Any change to this control block will be reflected across systems.
Function: This dsect is used to map file identification and use information about the two checkpoint data sets and their backups (NEWCKPTS). For the mapping of the individual entries, see the $HFAME control block.

$HFAM mapping

Table 211. Structure HFAM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HFAM	HASP FILE ALLOCATION MAP
0	(0)	CHARACTER	308	HFAMREC(0)	Offset table needs hard coded length
0	(0)	CHARACTER	4	HFAMID	HFAM EYE CATCHER
4	(4)	ADDRESS	1	HFAMVER	CONTROL BLOCK VERSION NUMBER
4	(4)	X'3'	0	HFAMVERN	"03" CONTROL BLOCK VER. NUMBER
5	(5)	BITSTRING	1	HFAMLSYS	System # of last system to update the ckpt.($SIDBUSY)
6	(6)	BITSTRING	1	HFAMFLAG	FLAG BYTE
		1...		HFAMDPLX	"B'10000000'" 0 - COMPLEX IS IN DUAL MODE 1 - COMPLEX IS IN DUPLEX MODE
		.1..		HFAMIDSN	"B'01000000'" IGNORE DSN/VOL IN HFAMES
7	(7)	BITSTRING	1		RESERVED FOR FUTURE USE

Table 211. Structure HFAM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
8	(8)	SIGNED	4	HFAMCSTR(2)	COLD START TIME STAMP
16	(10)	SIGNED	4	HFAMUSR1	RESERVED FOR USER
20	(14)	CHARACTER	72	HFAMCKP1	DATA SET SPEC FOR CHECKPOINT 1
92	(5C)	CHARACTER	72	HFAMCKP2	DATA SET SPEC FOR CHECKPOINT 2
164	(A4)	CHARACTER	72	HFAMCKN1	DATA SET SPEC FOR NEW CKPT1
236	(EC)	CHARACTER	1	HFAMCKN2	DATA SET SPEC FOR NEW CKPT2
236	(EC)	X'134'	0	HFAMLEN	"*-HFAM" LENGTH OF HFAM
308	(134)	ADDRESS	2	(0)	Ensure hardcoded value
308	(134)	ADDRESS	2	(0)	is accurate

Table 212. Cross Reference for $HFAM

Name	Offset	Hex Tag
HFAM	0	
HFAMCKN1	A4	
HFAMCKN2	EC	
HFAMCKP1	14	
HFAMCKP2	5C	
HFAMCSTR	8	
HFAMDPLX	6	80
HFAMFLAG	6	
HFAMID	0	C8C6C1D4
HFAMIDSN	6	40
HFAMLEN	EC	134
HFAMLSYS	5	
HFAMREC	0	
HFAMUSR1	10	
HFAMVER	4	
HFAMVERN	4	3

Chapter 99. $HFAME Information

$HFAME Programming Interface Information

$HFAME is a programming interface.

$HFAME Heading Information

Common Name: HASP File Allocation Map Entry
Macro ID: $HFAME
DSECT Name: HFE
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: None
Storage Attributes:
```
Subpool:   N/A
Key:       N/A
Residency: See $HFAM control block, or $HCCT control block,
or $CKPRECV control block.
```

Size: See HFELEN
Created by:
```
See $HFAM control block, or $HCCT control block,
or $CKPRECV control block.
```
Pointed to by:
```
HFAMCKP1 field of the $HFAM data area
HFAMCKP2 field of the $HFAM data area
HFAMCKN1 field of the $HFAM data area
HFAMCKN2 field of the $HFAM data area
CCTCKPT1 field of the $HCCT data area
CCTCKPT2 field of the $HCCT data area
CKRHFAME field of the $CKPRECV data area
Various fields in the processor work areas and
parameter lists.
```
Serialization: None required
Function:
```
This dsect maps the entry for one file in the HASP
File Allocation Map (HFAM).  See $HFAM control block
for more information.
```

$HFAME mapping

Table 213. Structure HFE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HFE	HASP FILE ALOC MAP ELEMENT
		HFEDSVOL IS USED AS RNAME FOR RESERVE/DEQ MACROS. DO NOT CHANGE THE ORDER OF VOLSER AND DSNAME.			
0	(0)	CHARACTER	0	HFESPEC(0)	Data set spec
0	(0)	CHARACTER	0	HFEDASD(0)	Data set volser and dsn (Used as RNAME when ckpt is on DASD)
0	(0)	CHARACTER	6	HFEVOL	VOL SERIAL NUMBER OF DS
6	(6)	CHARACTER	44	HFEDSN	NAME OF DATA SET
50	(32)	CHARACTER	16	HFESTR	XES Structure name
66	(42)	BITSTRING	1	HFEFLAG1	FLAG BYTE FOR DATA SET
		1...		HFE1INUS	"B'10000000'" DATA SET IN USE

Table 213. Structure HFE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		HFE1DASD	"B'01000000'" Checkpoint is on DASD
		..1.		HFE1CF	"B'00100000'" Checkpoint is on CF
67	(43)	BITSTRING	1		RESERVED FOR FUTURE USE
68	(44)	SIGNED	4	HFEUSER1	RESERVED FOR USER
68	(44)	X'48'	0	HFELEN	"*-HFE" LENGTH OF HFAME

Table 214. Cross Reference for $HFAME

Name	Offset	Hex Tag
HFE	0	
HFEDASD	0	
HFEDSN	6	
HFEFLAG1	42	
HFELEN	44	48
HFESPEC	0	
HFESTR	32	
HFEUSER1	44	
HFEVOL	0	
HFE1CF	42	20
HFE1DASD	42	40
HFE1INUS	42	80

Chapter 100. $HFCT Information

$HFCT Programming Interface Information

$HFCT is a programming interface.

$HFCT Heading Information

Common Name:	HASP FSS Communication Table
Macro ID:	$HFCT
DSECT Name:	HFCT
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	MIT entry for HASPFSSM ('MIT HASPFSSM') Offset: 0 Length: 12
Storage Attributes:	Subpool: The subpool of the HASPFSSM load module. Key: 1 Residency: Virtual and real storage are below 16M, in the private storage of an FSS address space.
Size:	See the HFCTLEN equate.
Created by:	The HASPFSSM load module is loaded during an FSS CONNECT request through the Functional Subsystem Interface (FSI). The HFCT is part of HASPFSSM.
Pointed to by:	- As one of the key JES2 control blocks for processing from an FSS address space, the HFCT address is usually in general purpose register 11 in the assembly environment known as FSS. - Label HASPFCT in HASPFSSM, defined as an external symbol for code in the HASPFSSM load module, is the address of the HFCT. - The HFCT is at the front of the HASPFSSM load module so the module storage address in the MVS CDE for HASPFSSM (if one exists) points to the HFCT. - The FSSHFCT field of the FSS's FSSCB common storage control block points to the FSS's HFCT.
Serialization:	The HFCT is loaded and altered during an FSS CONNECT FSI request. From that point in time on, multiple tasks may be executing under the FSS and its Functional Subsystem Applications (FSAs). The HFCT fields are read-only, or used with compare-and-swap techniques.
Function:	The HFCT is the central control block used for JES2 processing in the address space of a Functional Subsystem (FSS) connected to the JES2 subsystem. It is used for most processing within Functional Subsystem Interface (FSI) requests made by FSSs and their applications (FSAs), or directed to them. The HFCT address is normally in general purpose register 11 during processing in the FSS assembly environment. Register 11 addressing for the HFCT is assumed in FSS-oriented JES2 service macros, routines, exits, and general linkage.

$HFCT mapping

Table 215. Structure HFCT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HFCT	HASP FSS COMMUNICATION TABLE
0	(0)	BITSTRING	80		HASPFSSM Module Info Table
80	(50)	CHARACTER	8	HFCTVER	Permanently set to SP 5.3.0
		Keep the next three fields intact.			
88	(58)	BITSTRING	10	HFCTJES2_LEVEL(0)	Level information
88	(58)	CHARACTER	8	HFCTLEVL	HASP Version <---+
96	(60)	ADDRESS	1	HFCTPLVL	Product Level |
97	(61)	ADDRESS	1	HFCTSLVL	Service Level <---+
98	(62)	SIGNED	2		Reserved for future use
		HASPFSSM ENTRY POINTS FOR FUNCTIONAL SUBSYSTEM INTERFACE SUPPORTED FSS FUNCTIONS.			
100	(64)	SIGNED	4	HFCTFSSF(0)	FSI SUPPORTED FSS FUNCTIONS
100	(64)	ADDRESS	4	HFCTSCNI	CONNECT IDENTIFIER
104	(68)	ADDRESS	4	HFCTSCNA	"V(FSMCONCT)" CONNECT ENTRY POINT
108	(6C)	ADDRESS	4	HFCTSDCI	DISCONNECT IDENTIFIER
112	(70)	ADDRESS	4	HFCTSDCA	"V(FSMCONCT)" DISCONNECT ENTRY POINT
116	(74)	ADDRESS	4	HFCTSGDI	GETDS IDENTIFIER
120	(78)	ADDRESS	4	HFCTSGDA	"V(FSMERROR)" GETDS UNSUPPORTED ON FSS LEVEL
124	(7C)	ADDRESS	4	HFCTSRDI	RELDS IDENTIFIER
128	(80)	ADDRESS	4	HFCTSRDA	"V(FSMERROR)" RELDS UNSUPPORTED ON FSS LEVEL
132	(84)	ADDRESS	4	HFCTSGRI	GETREC IDENTIFIER
136	(88)	ADDRESS	4	HFCTSGRA	"V(FSMERROR)" GETREC UNSUPPORTED ON FSS LEVEL
140	(8C)	ADDRESS	4	HFCTSFRI	FREEREC IDENTIFIER
144	(90)	ADDRESS	4	HFCTSFRA	"V(FSMERROR)" FREEREC UNSUPPORTD ON FSS LEVEL
148	(94)	ADDRESS	4	HFCTSCKI	CHKPT IDENTIFIER
152	(98)	ADDRESS	4	HFCTSCKA	"V(FSMERROR)" CHKPT UNSUPPORTED ON FSS LEVEL
156	(9C)	ADDRESS	4	HFCTSSNI	SEND IDENTIFIER
160	(A0)	ADDRESS	4	HFCTSSNA	"V(FSMSEND)" SEND ENTRY POINT
160	(A0)	X'6'	0	HFCTSIDN	"(*-HFCTSGDI)/8" NUM OF HASPFSSM ENTRY PTS
		HASPFSSM ENTRY POINTS FOR FUNCTIONAL SUBSYSTEM INTERFACE FSA SUPPORTED FUNCTIONS.			
164	(A4)	SIGNED	4	HFCTFSAF(0)	FSI SUPPORTED FSA FUNCTIONS
164	(A4)	ADDRESS	4	HFCTACNI	CONNECT IDENTIFIER
168	(A8)	ADDRESS	4	HFCTACNA	"V(FSMERROR)" CONNECT UNSUPPORTD ON FSA LEVEL
172	(AC)	ADDRESS	4	HFCTADCI	DISCONNECT IDENTIFIER
176	(B0)	ADDRESS	4	HFCTADCA	"V(FSMERROR)" DISCONT UNSUPPORTD ON FSA LEVEL
180	(B4)	ADDRESS	4	HFCTAGDI	GETDS IDENTIFIER
184	(B8)	ADDRESS	4	HFCTAGDA	"V(FSMGETDS)" GETDS ENTRY POINT
188	(BC)	ADDRESS	4	HFCTARDI	RELDS IDENTIFIER

Table 215. Structure HFCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
192	(C0)	ADDRESS	4	HFCTARDA	"V(FSMRELDS)" RELDS ENTRY POINT
196	(C4)	ADDRESS	4	HFCTAGRI	GETREC IDENTIFIER
200	(C8)	ADDRESS	4	HFCTAGRA	"V(FSMGETRC)" GETREC ENTRY POINT
204	(CC)	ADDRESS	4	HFCTAFRI	FREEREC IDENTIFIER
208	(D0)	ADDRESS	4	HFCTAFRA	"V(FSMFRERC)" FREEREC ENTRY POINT
212	(D4)	ADDRESS	4	HFCTACKI	CHKPT IDENTIFIER
216	(D8)	ADDRESS	4	HFCTACKA	"V(FSMCHKPT)" CHKPT ENTRY POINT
220	(DC)	ADDRESS	4	HFCTASNI	SEND IDENTIFIER
224	(E0)	ADDRESS	4	HFCTASNA	"V(FSMSEND)" SEND ENTRY POINT
		ENTRY POINTS FOR PC ROUTINES			
228	(E4)	SIGNED	4	HFCTPCS(0)	PC ROUTINE ID/ADDR PAIRS
228	(E4)	ADDRESS	4	HFCTORDI	ORDER IDENTIFIER
232	(E8)	ADDRESS	4	HFCTORDA	"V(FSMORDER)" ORDER ENTRY POINT
236	(EC)	ADDRESS	4	HFCTPSTI	POST IDENTIFIER
240	(F0)	ADDRESS	4	HFCTPSTA	"V(FSMPOST)" POST ENTRY POINT
240	(F0)	X'2'	0	HFCTPCNO	"(*-HFCTPCS)/8" NUMBER OF PC ROUTINES
240	(F0)	X'54'	0	HFCTETDL	"ETDLEN+(HFCTPCNO*ETDELEN)" LENGTH OF ETD CNTL BLOCK
		DEFINED CONSTANTS			
244	(F4)	CHARACTER	8	HFCTBLNK	DOUBLEWORD OF BLANKS
252	(FC)	BITSTRING	64	HFCTZERO	Lots of zeroes
252	(FC)	X'FC'	0	HFCT0000	"HFCTZERO" ALTERNATE NAME FOR HFCTZERO
316	(13C)	BITSTRING	4	HFCT000F	FULLWORD LOW ORDER BYTE MASK
320	(140)	BITSTRING	4	HFCT00FF	FULLWORD LOW HALFWORD MASK
324	(144)	BITSTRING	4	HFCT0FFF	FULLWORD 3 BYTE MASK
328	(148)	BITSTRING	4	HFCTALLF	FULLWORD ALL X'FF'S
328	(148)	X'148'	0	HFCTFFFF	"HFCTALLF" ALTERNATE NAME FOR HFCTALLF
332	(14C)	ADDRESS	4	HFCTBADA(16)	BAD value
		DEFINITIONS FOR GENERAL USE			
396	(18C)	ADDRESS	4	HFCTFSSA	ADDR OF FSSCB
400	(190)	ADDRESS	4	HFCTHCCT	ADDR OF HCCT
404	(194)	SIGNED	2	HFCTJQLN	JQE length
406	(196)	BITSTRING	14		Reserved
		DEFINITIONS FOR QUICKCELL POOL MANAGEMENT			
420	(1A4)	ADDRESS	4	HFCTGTQC	"V(FSMGETQC)" ADDR OF GET QUICKCELL ROUTINE
424	(1A8)	ADDRESS	4	HFCTFRQC	"V(FSMFREQC)" ADDR OF FREE QUICKCELL ROUTINE
428	(1AC)	ADDRESS	4	HFCTBLQC	"V(FSMBLDQC)" ADDR OF BUILD CELLPOOL ROUTINE
432	(1B0)	ADDRESS	4	HFCTQCSU	"V(FSMQCT)" ADDR OF QCT SETUP ROUTINE
436	(1B4)	ADDRESS	4	HFCTQCTH	ADDR OF FIRST QCT
440	(1B8)	SIGNED	4	HFCTQCS1(18)	FSMBLDQC + FSMEXTQC SAVE AREA
512	(200)	SIGNED	4	HFCTQCS2(18)	VSM BLDCPOOL MACRO SAVE AREA

Table 215. Structure HFCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		DEFINITIONS FOR SAVE AREA AND ERROR SERVICES, ETC			
584	(248)	ADDRESS	4	HFCTSAVE	"V(FSMSAVE)" FSMSAVE $SAVE ROUTINE ADDR
588	(24C)	ADDRESS	4	HFCTRET	"V(FSMRETRN)" FSMRETRN $RETURN ROUTINE ADDR
592	(250)	ADDRESS	4		Reserved for future use
596	(254)	SIGNED	4	HFCTSVSV(18)	SAVE AREA FOR FSMSAVE
668	(29C)	SIGNED	4	HFCTSRBS(18)	SAVE AREA FOR SRBS (FSMRCRTN)
740	(2E4)	SIGNED	4	HFCTESAV(18)	SAVE AREA FOR $ERRORS
812	(32C)	ADDRESS	4	HFCTETCB	TCB OWNING $ERROR SAVE
816	(330)	BITSTRING	1	HFCTESVS	$ERROR SAVE AREA SERIALIZATION
817	(331)	BITSTRING	1	HFCTSAVF	SAVE AREA FLAG BYTE
818	(332)	BITSTRING	1	HFCTCONF	FSS CONNECT/DISCONNECT FLAG
		1...		HFCTGTMN	"B'10000000'" FSVT/ETD/ETC GETMAIN WAS DONE
		.1..		HFCTAXRS	"B'01000000'" AXRES WAS DONE FOR FSS AX
		..1.		HFCTAXST	"B'00100000'" AXSET WAS DONE FOR FSS AX
		...1		HFCTLXRS	"B'00010000'" LXRES WAS DONE FOR FSS LX
		.... 1...		HFCTETCR	"B'00001000'" ETCRE WAS DONE FOR FSS ETD
		.... .1..		HFCTATST	"B'00000100'" ATSET WAS DONE FOR JES2 AX
819	(333)	BITSTRING	1		RESERVED FOR FUTURE USE
		SERVICE ROUTINE ENTRY POINTS			
820	(334)	ADDRESS	4	HFCTFSIL	"V(FSMFSLNK)" FSSLINK SERVICE ROUTINE
824	(338)	ADDRESS	4	HFCTGBLK	"V(FSMGTBLK)" GETBLOCK SERVICE ROUTINE
828	(33C)	ADDRESS	4	HFCTRBLK	"V(FSMRTBLK)" RETBLOCK SERVICE ROUTINE
832	(340)	ADDRESS	4	HFCTCATE	"V(FSMCATER)" ADDR OF CAT ERROR ROUTINE
		HASPFSSM R11-ADDRESSABLE PATCH SPACE. CODE IS GENERATED AS S-TYPE ADDRESS CONSTANTS WHEN DSECT=NO. VER/REP LOGIC SHOULD ASSUME S( ) HALFWORDS, NOT ZEROS, IN THIS AREA.			
832	(340)	X'CBC'	0	HFCTPSZ	"4096-(*-HFCT)"
836	(344)	BITSTRING	1	HFCTPCH(0)	DEFINE PATCH SPACE
836	(344)	X'1000'	0	HFCTLEN	"*-HFCT" Length of the HFCT

Table 216. Cross Reference for $HFCT

Name	Offset	Hex Tag
HFCT	0	
HFCTACKA	D8	
HFCTACKI	D4	
HFCTACNA	A8	
HFCTACNI	A4	

Table 216. Cross Reference for $HFCT (continued)

Name	Offset	Hex Tag
HFCTADCA	B0	
HFCTADCI	AC	
HFCTAFRA	D0	
HFCTAFRI	CC	
HFCTAGDA	B8	
HFCTAGDI	B4	
HFCTAGRA	C8	
HFCTAGRI	C4	
HFCTALLF	148	FFFFFFFF
HFCTARDA	C0	
HFCTARDI	BC	
HFCTASNA	E0	
HFCTASNI	DC	
HFCTATST	332	4
HFCTAXRS	332	40
HFCTAXST	332	20
HFCTBADA	14C	
HFCTBLNK	F4	40404040
HFCTBLQC	1AC	
HFCTCATE	340	
HFCTCONF	332	0
HFCTESAV	2E4	0
HFCTESVS	330	0
HFCTETCB	32C	
HFCTETCR	332	8
HFCTETDL	F0	54
HFCTFFFF	148	148
HFCTFRQC	1A8	
HFCTFSAF	A4	
HFCTFSIL	334	
HFCTFSSA	18C	
HFCTFSSF	64	
HFCTGBLK	338	
HFCTGTMN	332	80
HFCTGTQC	1A4	
HFCTHCCT	190	
HFCTJES2_LEVEL	58	
HFCTJQLN	194	0
HFCTLEN	344	1000
HFCTLEVL	58	A961D6E2
HFCTLXRS	332	10
HFCTORDA	E8	
HFCTORDI	E4	
HFCTPCH	344	0
HFCTPCNO	F0	2
HFCTPCS	E4	
HFCTPLVL	60	
HFCTPSTA	F0	
HFCTPSTI	EC	

Table 216. Cross Reference for $HFCT (continued)

Name	Offset	Hex Tag
HFCTPSZ	340	CBC
HFCTQCSU	1B0	
HFCTQCS1	1B8	0
HFCTQCS2	200	0
HFCTQCTH	1B4	
HFCTRBLK	33C	
HFCTRET	24C	
HFCTSAVE	248	
HFCTSAVF	331	0
HFCTSCKA	98	
HFCTSCKI	94	
HFCTSCNA	68	
HFCTSCNI	64	
HFCTSDCA	70	
HFCTSDCI	6C	
HFCTSFRA	90	
HFCTSFRI	8C	
HFCTSGDA	78	
HFCTSGDI	74	
HFCTSGRA	88	
HFCTSGRI	84	
HFCTSIDN	A0	6
HFCTSLVL	61	
HFCTSRBS	29C	0
HFCTSRDA	80	
HFCTSRDI	7C	
HFCTSSNA	A0	
HFCTSSNI	9C	
HFCTSVSV	254	0
HFCTVER	50	E2D740F5
HFCTZERO	FC	0
HFCT0FFF	144	FFFFFF
HFCT00FF	140	FFFF
HFCT000F	13C	FF
HFCT0000	FC	FC

Chapter 101. $HJCT Information

$HJCT Heading Information

Common Name:	JES2 Monitor Communication Table
Macro ID:	$HJCT
DSECT Name:	HJCT
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	HJCT Offset: JMTID-HJCT Length: L'JMTID
Storage Attributes:	Subpool: 1 Key: 1 Residency: Virtual is in 31 bit storage and real can in in 64 bit storage. The $HJCT resides in the JES2 monitor address space.
Size:	See JMTSIZE
Created by:	HASJMON
Pointed to by:	- MHBHJCT field of the MONCB data area - MWEHJCT field of the MWE data area - General register 11 when executing code in the 'MONITOR' execution environment.
Serialization:	None required
Function:	The HJCT is the anchor private storage control block for the JES2 monitor address space

$HJCT mapping

Table 217. Structure HJCT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	HJCT	, HASP Communications Table
0	(0)	CHARACTER	4	JMTID	Eyecatcher
4	(4)	ADDRESS	1	JMTVRSN	HJCT version
4	(4)	X'1'	0	JMTVRNUM	"1" Current version number
5	(5)	BITSTRING	3		Reserved (and frozen)
8	(8)	ADDRESS	4	JMTOFSTB	Address of offset table, at HJCT offset +8
12	(C)	SIGNED	4		Reserved (and frozen)
16	(10)	ADDRESS	4	JMTHCT	HCT address
20	(14)	ADDRESS	4	JMTHCCT	HCCT address
24	(18)	ADDRESS	4	JMTMONCB	MONCB address
28	(1C)	ADDRESS	4	JMTMODMP	Monitor module map
32	(20)	ADDRESS	4	JMTBADA(16)	BAD address value
96	(60)	SIGNED	4	JMTZEROS(16)	Constant zeros
160	(A0)	SIGNED	4	JMTJES2A	JES2 address space ALET
164	(A4)	ADDRESS	4	JMTJASCB	JES2 ASCB address
168	(A8)	CHARACTER	4	JMTSSNM	JES2 subsystem name
172	(AC)	ADDRESS	4	JMTJ2WAT	JES2 Main MVS wait
176	(B0)	ADDRESS	4	JMTMWE	JES2 monitor work areas
180	(B4)	ADDRESS	4	JMTMSD	Monitor sampling data

Table 217. Structure HJCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
184	(B8)	CHARACTER	1	JMTCOMCH	CONCHAR for termination messages
185	(B9)	BITSTRING	1	JMTJSTAT	JES2 status flags (set by sampler)
		1...		JMTJSINI	"B'10000000'" JES2 in initialization
		.1..		JMTJSTRM	"B'01000000'" JES2 is terminating
186	(BA)	BITSTRING	2		Reserved
188	(BC)	ADDRESS	4	JMTMWT	MVS Wait list
General work area (for MF=L areas messages, etc).					
192	(C0)	BITSTRING	128	JMTGWORK	General work area
320	(140)	SIGNED	4	JMTLWTO(0)	
320	(140)	ADDRESS	2		TEXT LENGTH
322	(142)	BITSTRING	2		MCSFLAGS
324	(144)	ADDRESS	4		MESSAGE TEXT ADDRESS
328	(148)	ADDRESS	1		VERSION LEVEL
329	(149)	BITSTRING	1		MISCELLANEOUS FLAGS
330	(14A)	ADDRESS	1		REPLY LENGTH
331	(14B)	ADDRESS	1		LENGTH OF WPX
332	(14C)	BITSTRING	2		EXTENDED MCS FLAGS
334	(14E)	ADDRESS	2		RESERVED
336	(150)	ADDRESS	4		REPLY BUFFER ADDRESS
340	(154)	ADDRESS	4		REPLY ECB ADDRESS
344	(158)	ADDRESS	4		CONNECT ID
348	(15C)	BITSTRING	2		DESCRIPTOR CODES
350	(15E)	ADDRESS	2		RESERVED
352	(160)	BITSTRING	16		
368	(170)	BITSTRING	2		MESSAGE TYPE
370	(172)	ADDRESS	2		MESSAGE'S PRIORITY
372	(174)	CHARACTER	8		JOB ID
380	(17C)	CHARACTER	8		JOB NAME
388	(184)	CHARACTER	8		RETRIEVAL KEY
396	(18C)	ADDRESS	4		TOKEN FOR DOM
400	(190)	ADDRESS	4		CONSOLE ID
404	(194)	CHARACTER	8		SYSTEM NAME
412	(19C)	CHARACTER	8		CONSOLE NAME
420	(1A4)	ADDRESS	4		REPLY CONSOLE NAME/ID ADDR
424	(1A8)	ADDRESS	4		CART ADDRESS
428	(1AC)	ADDRESS	4		WSPARM ADDRESS
428	(1AC)	X'70'	0	JMTLWTOL	"*-JMTLWTO" WTO work area length
432	(1B0)	DBL WORD	8	(0)	
HEX translate table					
432	(1B0)	X'C0'	0	JMTXTRAN	"*-C'0'" Hexadecimal-to-EBCDIC
432	(1B0)	CHARACTER	16		translate table
Probe message areas (mapped by PRBM DSECT in $MSD)					
448	(1C0)	DBL WORD	8	JMTPROBL(0)	Probe message list
448	(1C0)	ADDRESS	4	JMTPMAIN	Main task activity
452	(1C4)	ADDRESS	4	JMTPBRTL	Bert lock contention
456	(1C8)	ADDRESS	4	JMTPJOBL	Job lock contention
460	(1CC)	ADDRESS	4	JMTPCKPH	Long CKPT hold time

Table 217. Structure HJCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
464	(1D0)	ADDRESS	4	JMTPLCMD	Long command processing
464	(1D0)	X'5'	0	JMTPROBC	"(*-JMTPROBL)/4" Count of message areas
	Active notice table and flags				
468	(1D4)	ADDRESS	4	JMTNOTMT	Notify message table addr
	Notice message table mapping				
468	(1D4)	X'0'	0	JMTNMSK	"0,8" JMTNOTIC mask
468	(1D4)	X'8'	0	JMTNFLG1	"8,1" Flag byte
		1...		JMTN1CRT	"B'10000000'" Critical notice
	EQU 9,3 Reserved				
468	(1D4)	X'C'	0	JMTNLEN	"12,2" Message length
468	(1D4)	X'E'	0	JMTNTXT	"14,71" Message text
	EQU 85,7 Reserved				
468	(1D4)	X'50'	0	JMTNMSNX	"92-12" Length from JMTNLEN to end
468	(1D4)	X'5C'	0	JMTNSIZ	"92" Size of an entry
	Notice flags				
472	(1D8)	DBL WORD	8	(0)	Align
472	(1D8)	BITSTRING	8	JMTNOTIC(0)	Current notices
472	(1D8)	BITSTRING	2	JMTNOT01	Notice flag bytes 1
472	(1D8)	BITSTRING	0	JMTN1JNA	"B'1000000000000000'" JES2 A.S. not active
472	(1D8)	BITSTRING	0	JMTN1JIN	"B'0100000000000000'" JES2 initializing
472	(1D8)	BITSTRING	0	JMTN1JTR	"B'0010000000000000'" JES2 terminating
472	(1D8)	BITSTRING	0	JMTN1CRF	"B'0001000000000000'" CKPT RECONFIG in progress
472	(1D8)	BITSTRING	0	JMTN1BOS	"B'0000100000000000'" Member is not BOSS
472	(1D8)	BITSTRING	0	JMTN1ASP	"B'0000010000000000'" A.S. waiting for SPOOL sp
472	(1D8)	BITSTRING	0	JMTN1IPL	"B'0000001000000000'" JES2 IPL required
472	(1D8)	BITSTRING	0	JMTN1JST	"B'0000000100000000'" JES2 stopped, $S needed
		1...		JMTN1JPX	"B'0000000010000000'" JES2 was $PXEQed
		.1..		JMTN1PEN	"B'0000000001000000'" A PCE has ended
		..1.		JMTN1NSP	"B'0000000000100000'" All SPOOLs not available
		...1		JMTN1PSP	"B'0000000000010000'" PCES waiting for SPOOL sp
		.... 1...		JMTN1FGC	"B'0000000000001000'" Fast SPOOL garbage coll
		.... .1..		JMTN1NPM	"B'0000000000000100'" NPM functions suspended

Table 217. Structure HJCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ..1.		JMTN1NNC	"B'0000000000000010'" Node info not in ckpt
		1		JMTN1LNC	"B'0000000000000001'" Local node name changed
474	(1DA)	BITSTRING	2	JMTNOT02	Notice flag bytes 2
474	(1DA)	BITSTRING	0	JMTN2WDF	"B'1000000000000000'" WLM policy difference
474	(1DA)	BITSTRING	0	JMTN2DUB	"B'0100000000000000'" JES2 dubbed but not perm
474	(1DA)	BITSTRING	0	JMTN2CLO	"B'0010000000000000'" Ckpt lockout detected
474	(1DA)	BITSTRING	0	JMTN2AHL	"B'0001000000000000'" SPOOL automatically halted
474	(1DA)	BITSTRING	0	JMTN2LIM	"B'0000100000000000'" Independent mode (local)
474	(1DA)	BITSTRING	0	JMTN2SIM	"B'0000010000000000'" Independent mode (Other)
474	(1DA)	BITSTRING	0	JMTN2ANJ	"B'0000001000000000'" NJEDEF CONNECT=NO
474	(1DA)	BITSTRING	0	JMTN2ANR	"B'0000000100000000'" $PNET/$ENET issued
		1...		JMTN2DST	"B'0000000010000000'" Non-default DESTDEF set
		.1..		JMTN2BRT	"B'0000000001000000'" BERT shortage inhibiting
		..1.		JMTN2CDR	"B'0000000000100000'" Cross system data retrieval subtask gone
		...1		JMTN2DLS	"B'0000000000010000'" DLS PCE failed
		.... 1...		JMTN2ZGL	"B'0000000000001000'" Jobgroup logging subtask gone
476	(1DC)	BITSTRING	2	JMTNOT03	Notice flag bytes 3
478	(1DE)	BITSTRING	2	JMTNOT04	Notice flag bytes 4
		Patch space for code that uses R11 addressability to the HJCT			
480	(1E0)	SIGNED	4		Reserved
488	(1E8)	DBL WORD	8	(0)	
488	(1E8)	BITSTRING	256	JMTPATCH(2)	Patch space for R11-HJCT code
1000	(3E8)	DBL WORD	8	(0)	Ensure alignment
1000	(3E8)	X'3E8'	0	JMTSIZE	"*-HJCT" HJCT length

Table 218. Cross Reference for $HJCT

Name	Offset	Hex Tag
HJCT	0	
JMTBADA	20	
JMTCOMCH	B8	
JMTGWORK	C0	0
JMTHCCT	14	
JMTHCT	10	
JMTID	0	C8D1C3E3

Table 218. Cross Reference for $HJCT (continued)

Name	Offset	Hex Tag
JMTJASCB	A4	
JMTJES2A	A0	0
JMTJSINI	B9	80
JMTJSTAT	B9	
JMTJSTRM	B9	40
JMTJ2WAT	AC	
JMTLWTO	140	
JMTLWTOL	1AC	70
JMTMODMP	1C	
JMTMONCB	18	
JMTMSD	B4	
JMTMWE	B0	
JMTMWT	BC	
JMTNFLG1	1D4	8
JMTNLEN	1D4	C
JMTNMSK	1D4	0
JMTNMSNX	1D4	50
JMTNOTIC	1D8	
JMTNOTMT	1D4	
JMTNOT01	1D8	
JMTNOT02	1DA	
JMTNOT03	1DC	
JMTNOT04	1DE	
JMTNSIZ	1D4	5C
JMTNTXT	1D4	E
JMTN1ASP	1D8	400
JMTN1BOS	1D8	800
JMTN1CRF	1D8	1000
JMTN1CRT	1D4	80
JMTN1FGC	1D8	8
JMTN1IPL	1D8	200
JMTN1JIN	1D8	4000
JMTN1JNA	1D8	8000
JMTN1JPX	1D8	80
JMTN1JST	1D8	100
JMTN1JTR	1D8	2000
JMTN1LNC	1D8	1
JMTN1NNC	1D8	2
JMTN1NPM	1D8	4
JMTN1NSP	1D8	20
JMTN1PEN	1D8	40
JMTN1PSP	1D8	10
JMTN2AHL	1DA	1000
JMTN2ANJ	1DA	200
JMTN2ANR	1DA	100
JMTN2BRT	1DA	40
JMTN2CDR	1DA	20
JMTN2CLO	1DA	2000
JMTN2DLS	1DA	10

Table 218. Cross Reference for $HJCT (continued)

Name	Offset	Hex Tag
JMTN2DST	1DA	80
JMTN2DUB	1DA	4000
JMTN2LIM	1DA	800
JMTN2SIM	1DA	400
JMTN2WDF	1DA	8000
JMTN2ZGL	1DA	8
JMTOFSTB	8	
JMTPATCH	1E8	0
JMTPBRTL	1C4	
JMTPCKPH	1CC	
JMTPJOBL	1C8	
JMTPLCMD	1D0	
JMTPMAIN	1C0	
JMTPROBC	1D0	5
JMTPROBL	1C0	
JMTSIZE	3E8	3E8
JMTSSNM	A8	D1C5E2F2
JMTVRNUM	4	1
JMTVRSN	4	
JMTXTRAN	1B0	C0
JMTZEROS	60	0

Chapter 102. $ICE Information

$ICE Programming Interface Information

The following fields are **NOT** programming interface information:

- ICE#MSTR
- ICEACPTN
- ICEALCHN
- ICEAPCHN
- ICEFLAGS
- ICEFLGS2
- ICEFLGS3
- ICEFRZRC
- ICEINCT
- ICEINDEX
- ICEINHD
- ICEINLM
- ICEINTL
- ICELOST
- ICENJEF1
- ICENJEF2
- ICEOUTBF
- ICEOUTCT
- ICEOUTHD
- ICEOUTLM
- ICEOUTTL
- ICERCPTN
- ICERCVST
- ICERSPCT
- ICERULEN
- ICESDCT
- ICESNDST
- ICESTAT
- ICESUSFL
- ICETEA
- ICETNTRY
- ICETTIME
- ICEXRFBK
- ICEXTWRK

$ICE Heading Information

Common Name: Interface Control Element
Macro ID: $ICE

$ICE Heading Information

DSECT Name: ICE ICETNTRY
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: None
Storage Attributes: Subpool: 0
Key: 1
Residency: Virtual and real storage are above 16M, in the private storage of the JES2 address space.

Size: See ICESIZE
Created by: HASPIRRE
HASPSNA
Pointed to by: $ICELOST field of the $HCT data area
MDCTICE field of the $DCT data area
ICEAPCHN field of the $ICE data area
ICEALCHN field of the $ICE data area
ICETEMP field of the $ICE data area
MLMICEQ field of the $MLMWORK data area
MLMICEQ2 field of the $MLMWORK data area
MLMXICE field of the $MLMWORK data area
MLMWRKIQ field of the $MLMWORK data area
Serialization: Normal PCE dispatch serialization
Function: The ICE control block represents a VTAM session between JES2 and an NJE or RJE partner. The ICE is used to hold information about that session.
At the end of the ICE there is a rolling trace. Entries are added to this trace whenever a significant event occurs on this session. The trace entries are mapped by the ICETNTRY DSECT.

$ICE mapping

Table 219. Structure ICE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ICE	INTERFACE CONTROL ELEMENT DSECT
0	(0)	BITSTRING	1	ICESTAT	ICE STATUS INDICATORS
		1...		ICEDRAIN	"B'10000000'" ICE DRAIN REQ PENDING
		.1..		ICEALLOC	"B'01000000'" ICE ALLOCATED INDICATOR
		..1.		ICETIMER	"B'00100000'" ICE AWAITING TIMER INTRPT
		...1		ICEHOLD	"B'00010000'" ICE TEMPORARY HOLD STATUS
		.... 1...		ICERTRPD	"B'00001000'" ICE AWAITING RTR STATUS
		.... .1..		ICERCVSP	"B'00000100'" ICE RECEIVE CS STATUS
		.... ..1.		ICEABORT	"B'00000010'" ICE ABORT INDICATOR
		1		ICECLOSE	"B'00000001'" ICE CLOSE INDICATOR
		1111 1111		ICEAVAIL	"B'11111111'" ICE AVAILABLE INDICATOR
1	(1)	BITSTRING	1	ICEFLAGS	SESSION STATUS INDICATORS

Table 219. Structure ICE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		ICEINBND	"B'10000000'" SESSION INBOUND ALLOCATED HDX-FF
		.1..		ICEOUTBD	"B'01000000'" SESSION OUTBOUND ALLOCATED HDX-FF
		..1.		ICEREVFL	"B'00100000'" SESSION REVERSED DIRECTION HDX-FF
		...1		ICEINBRK	"B'00010000'" SESSION IN BRACKET STATE
		.... 1...		ICEBBPND	"B'00001000'" SESSION BB PENDING STATE
		.... .1..		ICEEBPND	"B'00000100'" SESSION EB PENDING STATE
		.... ..1.		ICECHDIR	"B'00000010'" SESSION CD PENDING STATE
		1		ICECNECT	"B'00000001'" SESSION IS CONNECTED (OPNDST)
		...1 11..		ICEBRCKT	"B'00011100'" BRACKET STATUS INDICATOR
2	(2)	BITSTRING	1	ICERCVST	RECEIVE PATH INDICATORS
3	(3)	BITSTRING	1	ICESNDST	SEND PATH INDICATORS
4	(4)	ADDRESS	1	ICEINDEX	SERVICE ROUTINE INDEX POINTER
5	(5)	ADDRESS	1	ICERSPCT	CNT OF OUTSTANDING RESPONSES
6	(6)	ADDRESS	2	ICERULEN	MAXIMUM REQUEST UNIT LENGTH
8	(8)	CHARACTER	8	ICESYMB	VTAM SYMBOLIC NAME OF TERMINAL
8	(8)	X'10'	0	ICETRCLN	"*-ICESTAT" Len. of ICE trace ID 5 info
16	(10)	BITSTRING	4	ICECID	VTAM COMMUNICATION IDENTIFIER
20	(14)	ADDRESS	4	ICEAPCHN	ADDR OF NEXT LOGGED ON ICE
24	(18)	ADDRESS	4	ICEALCHN	ADDR OF NEXT ALLOCATED ICE
28	(1C)	BITSTRING	1	ICESUSFL	ICE SUSPEND FLAG
		1...		ICESIMPL	"B'10000000'" IMPLIED SUSPEND WITHOUT FM HEADER
		.1..		ICESUSPD	"B'01000000'" SUSPEND IN PROGRESS. $WAIT NEEDED
29	(1D)	BITSTRING	1	ICEFRZRC	ICE FREEZE REASON CODE
29	(1D)	X'1'	0	ICEFRZAB	"1" ACTIVE BUFFER FOUND
29	(1D)	X'2'	0	ICEFRZNL	"2" NOT ON LOGON CHAIN
29	(1D)	X'3'	0	ICEFRZCR	"3" CRITICAL ERROR
29	(1D)	X'4'	0	ICEFRZRE	"4" HASPSICE RECOVERY
30	(1E)	BITSTRING	2		RESERVED
32	(20)	ADDRESS	2	ICEINLM	INBOUND QUEUE LIMIT
34	(22)	ADDRESS	2	ICEINCT	INBOUND QUEUE COUNTER
36	(24)	BITSTRING	1	ICEACPTN	COMPACTION TABLE NUMBER ACTIVE
37	(25)	BITSTRING	1	ICERCPTN	COMPACTION TABLE LAST REQUESTED
38	(26)	BITSTRING	1	ICEXRFBK	EXCEPTION RESPONSE FEEDBACK BITS
		1...		ICEXRDNA	"B'10000000'" DEST NOT ACCEPTING FURTHER DATA
		.1..		ICEXRCPY	"B'01000000'" DEST NOT HANDLING MULTIPLE COPIES
		..1.		ICENSXIT	"B'00100000'" NSXIT SCHEDULED FLAG
		...1		ICEQUIES	"B'00010000'" QUIESCE THEN SHUTDOWN FLAG

Table 219. Structure ICE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		ICERSTSR	"B'00001000'" RESETSR CS MODE RPL ISSUED
39	(27)	BITSTRING	1	ICE#MSTR	NUMBER OF MASTERS
40	(28)	ADDRESS	4	ICEINHD	INBOUND QUEUE HEAD BUFFER PTR
44	(2C)	ADDRESS	4	ICEINTL	INBOUND QUEUE TAIL BUFFER PTR
48	(30)	ADDRESS	2	ICEOUTLM	OUTBOUND QUEUE LIMIT
50	(32)	ADDRESS	2	ICEOUTCT	OUTBOUND QUEUE COUNTER
52	(34)	ADDRESS	4	ICEOUTBF	OUTBOUND OUTSTANDING BUFFER PTR
56	(38)	ADDRESS	4	ICEOUTHD	OUTBOUND QUEUE HEAD BUFFER PTR
60	(3C)	ADDRESS	4	ICEOUTTL	OUTBOUND QUEUE TAIL BUFFER PTR
64	(40)	ADDRESS	4	ICEADCT	ADDR OF ASSOCIATED LOGON DCT
68	(44)	ADDRESS	4	ICELDCT	ADDR OF ASSOCIATED LINE DCT
72	(48)	ADDRESS	4	ICERDCT	ADDR OF ASSOCIATED REMOTE DCT (RAT addr during autologon)
76	(4C)	ADDRESS	4	ICESDCT	ADDR OF FIRST SUSPND RJE DCT ADDR OF NEXT TO POST NJE DCT
80	(50)	ADDRESS	4	ICEBUFAD	ADDR OF CURRENLY SCHED BUFFER
84	(54)	ADDRESS	4	ICECPT	SESSION COMPACTION TABLE ADDR
88	(58)	ADDRESS	4	ICEDCPT	SESSION DECOMPACTION TABLE ADDR
92	(5C)	ADDRESS	4	ICEATE	ADDR OF SESS PARTNRS APT ENTRY
96	(60)	BITSTRING	4	ICEWTIME	SESSION ALLOC WAIT TIME STAMP
100	(64)	ADDRESS	4	ICECNTRS(0)	SESSION STATISTICS COUNTERS
100	(64)	ADDRESS	4	ICETOTAL	SESSION TOTAL SEND/REC COUNT
104	(68)	ADDRESS	4	ICEXRESP	SESSION EXECPTION RESP COUNT
108	(6C)	ADDRESS	4	ICELUSTA	SESSION LOG UNIT STATUS COUNT
112	(70)	ADDRESS	4	ICEBDREJ	SESSION BID REJECTED COUNT
116	(74)	ADDRESS	4	ICETEMP	SESSION TEMPORARY ERROR COUNT
120	(78)	BITSTRING	1	ICEFLGS2	SESSION STATUS FLAGS
		1...		ICEFREEZ	"B'10000000'" ICE FREEZE INDICATOR
		.1..		ICEBDS	"B'01000000'" BEGIN DESTINATION SEL. RCVD
		..1.		ICEEDS	"B'00100000'" END DESTINATION SEL. RECVD
		...1		ICESTATI	"B'00010000'" STATE ERROR DETECTED
		.... 1...		ICE1STLU	"B'00001000'" FIRST SESSION FOR SMF
		.... .1..		ICESIGNL	"B'00000100'" DATAFLOW INRPT PENDING
		.... ..1.		ICEOUTBK	"B'00000010'" DF INRPT OUTBD FOR OUTBD
		1		ICEBREAK	"B'00000001'" DATAFLOW BREAK PENDING
121	(79)	BITSTRING	1	ICENJEF1	NJE FLAG BYTE1-SESS START FLAG
		1...		ICENJE	"B'10000000'" ICE BEING USED BY NJE SESSION
		.1..		ICEPRIME	"B'01000000'" ICE REPRESENTS PRIMARY NJE APPL
		.... 1...		ICEFMHR4	"B'00001000'" NJE FMH (TYPE 4) RECEIVED

Table 219. Structure ICE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		ICEFMHRV	"B'00000100'" ALL NJE HDRS (INCLUDING TYPE 3 IF REQ'D) RECEIVED
		.... ..1.		ICEFMHS4	"B'00000010'" NJE FM HDR 4 SUCCESSFULLY SENT (+RSP TO HDR RECEIVED)
		1		ICEFMHST	"B'00000001'" ALL NJE HDRS (INCLUDING TYPE 3 IF REQ'D) SUCCESSFULLY SENT
122	(7A)	BITSTRING	1	ICENJEF2	NJE FLAG BYTE2-SESS SHTDWN FLAG
		1...		ICEQUIET	"B'10000000'" ORDERLY SHUTDOWN IN PROGRESS
		.1..		ICEUNBD	"B'01000000'" UNBIND RECEIVED FROM PLU
		..1.		ICERSHUT	"B'00100000'" REQUEST SHUTDOWN CONTROL RCVD
		...1		ICETERMS	"B'00010000'" TERMSESS ISSUED
		.... 1...		ICETSC	"B'00001000'" TERMSESS COMPLETE
		.... .1..		ICERCON	"B'00000100'" ICE ALLOCATED TO RCP
		.... ..1.		ICERSCN	"B'00000010'" RESCAN LINES FOR PASSWORD
123	(7B)	BITSTRING	1	ICEFLGS3	ADDITIONAL SESSION STATUS
		1...		ICE3SIMI	"B'10000000'" SIMLOGON ISSUED
		.1..		ICE3SIMA	"B'01000000'" SIMLOGON ACCEPTED
		..1.		ICE3SIMC	"B'00100000'" SIMLOGON COMPLETE
		...1		ICE3LOGX	"B'00010000'" LOGON EXIT18 INVOKED
		.... 1...		ICE3RATA	"B'00001000'" ICERDCT FIELD CONTAINS A RAT ADDRESS
		.... .1..		ICE3WINC	"B'00000100'" Wait for inbound buffer count to go to zero
124	(7C)	BITSTRING	40	ICEBAREA(0)	BIND/NSP DATA AREA
124	(7C)	BITSTRING	36	ICEBIND	SESSION BIND IMAGE
160	(A0)	BITSTRING	4		Additional space for NSP
164	(A4)	ADDRESS	4	ICELOST	Chain of frozen ICEs
168	(A8)	DBL WORD	8	ICEXTWRK(0)	VTAM EXIT ROUTINE WORK AREA
168	(A8)	SIGNED	4	ICEXTWCD(0)	VTAM EXIT ROUT ACTION CODE WORD
168	(A8)	BITSTRING	3		RESERVED
171	(AB)	BITSTRING	1	ICEXTCOD	VTAM EXIT ROUTINE ACTION CODE
172	(AC)	ADDRESS	4	ICEXTCHN	VTAM EXIT ROUTINE ICE CHAIN
176	(B0)	CHARACTER	8	ICELMODE	VTAM LOGMODE
184	(B8)	DBL WORD	8	ICECLR(0)	End of area to be cleared when ICE is initialized
		ICE Trace area This trace area is updated regularly with activity related to this ICE. ICETEA is the address of the current (last used) trace area. The trace wraps when it reaches the end.			
184	(B8)	X'C'	0	ICETNUM	"12" Number of entries in trace
184	(B8)	ADDRESS	4	ICETEA	Addr of current trace entry
188	(BC)	SIGNED	4		Reserved
192	(C0)	DBL WORD	8	ICETTIME	Time of last trace

Table 219. Structure ICE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
200	(C8)	DBL WORD	8	ICET1ST(0)	First trace entry
200	(C8)	BITSTRING	0	(0)	Actual trace entries
848	(350)	BITSTRING	1	ICETEND(0)	End of ICE trace table
848	(350)	DBL WORD	8	(0)	Double word align ICE
848	(350)	X'350'	0	ICESIZE	"*-ICE" LENGTH OF ICE DSECT
ICERCVST/ICESNDST					
		1111		ICEDSTRM	"B'11110000'" STATE MASK
		....		ICERESUM	"B'00000000'" RESUME SUSPENDED DATA SET
		...1		ICENMEND	"B'00010000'" NORMAL END OF DATA SET
		..1.		ICEBEGIN	"B'00100000'" BEGINNING OF DATA SET
		..11		ICEODS	"B'00110000'" BEGIN/END OF DATA SET
		.1..		ICESPEND	"B'01000000'" SUSPEND DATA SET
		.1.1		ICEABEND	"B'01010000'" ABORT DATA SET (NO RESUME)
		.11.		ICECONT	"B'01100000'" CONTINUE DESTINATION
		.111		ICESTRS1	"B'01110000'" RESERVED
		1...		ICESTRS2	"B'10000000'" RESERVED
		1..1		ICESTRS3	"B'10010000'" RESERVED
		1.1.		ICESTRS4	"B'10100000'" RESERVED
		1.11		ICESTRS5	"B'10110000'" RESERVED
		11..		ICESTRS6	"B'11000000'" RESERVED
		11.1		ICESTRS7	"B'11010000'" RESERVED
		111.		ICENOFMH	"B'11100000'" DATAFLOW HAS NO FMH PENDING
		1111		ICEINSTR	"B'11110000'" DATAFLOW NO FMH PEND
		.... 1...		ICEINCHN	"B'00001000'" DATAFLOW IN CHAIN STATE
		.... .1..		ICEOCPND	"B'00000100'" DATAFLOW EOC PEND STATE
		.... ..1.		ICECNCEL	"B'00000010'" DATAFLOW CHAIN CANCELED
		1		ICEWTRSP	"B'00000001'" DATAFLOW WAITING FOR RESPONSE

Table 220. Structure ICETNTRY

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ICETNTRY	, ICE trace entry DSECT
0	(0)	SIGNED	2	ICETTYPE(0)	Trace identifier
0	(0)	BITSTRING	1	ICETID1	Trace identifier 1
0	(0)	X'1'	0	ICETBUF	"1" Buffer end proc
0	(0)	X'2'	0	ICETICE	"2" ICE exit processing
0	(0)	X'3'	0	ICETPEND	"3" TPEND exit processing
0	(0)	X'4'	0	ICETSRMT	"4" Start Remote
0	(0)	X'5'	0	ICETERPL	"5" Execute RPL

Table 220. Structure ICETNTRY (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'6'	0	ICETFBUF	"6" Buffer free
0	(0)	X'7'	0	ICETSSAL	"7" Autolog SAF completion
1	(1)	BITSTRING	1	ICETID2	Trace identifier 2 (Meaning based on id 1)
1	(1)	X'2'	0	ICETCLC1	"*-ICETNTRY" Length for compare
2	(2)	SIGNED	2	ICETSEQ	Trace sequence number
4	(4)	BITSTRING	1	ICETREST(0)	Used to skip SEQ in CLC
		ICE status fields			
4	(4)	BITSTRING	1	ICETSTAT	ICESTAT
5	(5)	BITSTRING	1	ICETFLGS	ICEFLAGS
6	(6)	BITSTRING	1	ICETRCTS	ICERCVST
7	(7)	BITSTRING	1	ICETSNDS	ICESNDST
8	(8)	BITSTRING	1	ICETINDX	ICEINDEX
9	(9)	BITSTRING	2	ICETCID	ICECID+2
11	(B)	BITSTRING	1	ICETSUSF	ICESUSFL
12	(C)	BITSTRING	1	ICETFLG2	ICEFLGS2
13	(D)	BITSTRING	1	ICETFLG3	ICEFLGS3
14	(E)	BITSTRING	1	ICETNJF1	ICENJEF1
15	(F)	BITSTRING	1	ICETNJF2	ICENJEF2
		RPL status fields (if no RPL then all fields are X'FF')			
16	(10)	ADDRESS	4	ICETRPLA	RPL address
20	(14)	BITSTRING	1	ICETRREQ	RPLREQ
21	(15)	BITSTRING	1	ICETSRTY	RPLSRTYP
22	(16)	BITSTRING	2	ICETSEQN	RPLSEQNO
24	(18)	BITSTRING	1	ICETVFL2	RPLVTFL2
25	(19)	BITSTRING	3	ICETCNTR	RPLCNTRL
28	(1C)	BITSTRING	1	ICETCHN	RPLCHN
29	(1D)	BITSTRING	1	ICETRH3	RPLRH3
30	(1E)	BITSTRING	1	ICETRTNC	RPLRTNCD
31	(1F)	BITSTRING	1	ICETFDB2	RPLFDB2
32	(20)	BITSTRING	4	ICETFDBK	RPLFDBK2
36	(24)	BITSTRING	1	ICETRWHH	RPLWHRCH
37	(25)	BITSTRING	1	ICETRWH2	RPLWHRC2
		LOGON DCT fields (if no DCT then all fields are X'FF')			
38	(26)	BITSTRING	1	ICETASTA	Logon DCTSTAT
39	(27)	BITSTRING	1	ICETAFLS	Logon DCTFLAGS
40	(28)	BITSTRING	1	ICETAFL2	Logon DCTFLAG2
41	(29)	BITSTRING	1	ICETAMST	Logon MDCTSTAT
		LINE DCT fields (if no DCT then all fields are X'FF')			
42	(2A)	BITSTRING	1	ICETLSTA	Line DCTSTAT
43	(2B)	BITSTRING	1	ICETLFLS	Line DCTFLAGS
44	(2C)	BITSTRING	1	ICETLFL2	Line DCTFLAG2
45	(2D)	BITSTRING	1	ICETLMST	Line MDCTSTAT
		DEVICE DCT fields (if no device DCT - ICERDCT - then all fields are X'FF')			
46	(2E)	BITSTRING	1	ICETRSTA	Device DCTSTAT

Table 220. Structure ICETNTRY (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
47	(2F)	BITSTRING	1	ICETRFLS	Device DCTFLAGS
48	(30)	BITSTRING	1	ICETRFL2	Device DCTFLAG2
49	(31)	BITSTRING	1	ICETRDID	Device DCTDEVID
		ICETCNT is a count of the number of events which have occured which would have created trace entries which were identical except for the sequence number. The trace entry contains the most recent sequence number.			
52	(34)	BITSTRING	1		Reserved for future
52	(34)	X'31'	0	ICETCLC2	"*-ICETREST" Length for compare
53	(35)	BITSTRING	1	ICETCNT	Count of duplicate traces
53	(35)	X'36'	0	ICETEALN	"*-ICETNTRY" Length of a single entry

Table 221. Structure ICE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ICE	Re-establish ICE DSECT

Table 222. Cross Reference for $ICE

Name	Offset	Hex Tag
ICE	0	
ICE	0	
ICE#MSTR	27	
ICEABEND	350	50
ICEABORT	0	2
ICEACPTN	24	0
ICEADCT	40	
ICEALCHN	18	
ICEALLOC	0	40
ICEAPCHN	14	
ICEATE	5C	
ICEAVAIL	0	FF
ICEBAREA	7C	
ICEBBPND	1	8
ICEBDREJ	70	
ICEBDS	78	40
ICEBEGIN	350	20
ICEBIND	7C	0
ICEBRCKT	1	1C
ICEBREAK	78	1
ICEBUFAD	50	
ICECHDIR	1	2
ICECID	10	0
ICECLOSE	0	1
ICECLR	B8	
ICECNCEL	350	2
ICECNECT	1	1

Table 222. Cross Reference for $ICE (continued)

Name	Offset	Hex Tag
ICECNTRS	64	
ICECONT	350	60
ICECPT	54	
ICEDCPT	58	
ICEDRAIN	0	80
ICEDSTRM	350	F0
ICEEBPND	1	4
ICEEDS	78	20
ICEFLAGS	1	0
ICEFLGS2	78	0
ICEFLGS3	7B	0
ICEFMHRV	79	4
ICEFMHR4	79	8
ICEFMHST	79	1
ICEFMHS4	79	2
ICEFREEZ	78	80
ICEFRZAB	1D	1
ICEFRZCR	1D	3
ICEFRZNL	1D	2
ICEFRZRC	1D	
ICEFRZRE	1D	4
ICEHOLD	0	10
ICEINBND	1	80
ICEINBRK	1	10
ICEINCHN	350	8
ICEINCT	22	
ICEINDEX	4	
ICEINHD	28	
ICEINLM	20	
ICEINSTR	350	F0
ICEINTL	2C	
ICELDCT	44	
ICELMODE	B0	40404040
ICELOST	A4	
ICELUSTA	6C	
ICENJE	79	80
ICENJEF1	79	0
ICENJEF2	7A	0
ICENMEND	350	10
ICENOFMH	350	E0
ICENSXIT	26	20
ICEOCPND	350	4
ICEODS	350	30
ICEOUTBD	1	40
ICEOUTBF	34	
ICEOUTBK	78	2
ICEOUTCT	32	
ICEOUTHD	38	
ICEOUTLM	30	

Table 222. Cross Reference for $ICE (continued)

Name	Offset	Hex Tag
ICEOUTTL	3C	
ICEPRIME	79	40
ICEQUIES	26	10
ICEQUIET	7A	80
ICERCON	7A	4
ICERCPTN	25	0
ICERCVSP	0	4
ICERCVST	2	0
ICERDCT	48	
ICERESUM	350	0
ICEREVFL	1	20
ICERSCN	7A	2
ICERSHUT	7A	20
ICERSPCT	5	
ICERSTSR	26	8
ICERTRPD	0	8
ICERULEN	6	
ICESDCT	4C	
ICESIGNL	78	4
ICESIMPL	1C	80
ICESIZE	350	350
ICESNDST	3	0
ICESPEND	350	40
ICESTAT	0	0
ICESTATI	78	10
ICESTRS1	350	70
ICESTRS2	350	80
ICESTRS3	350	90
ICESTRS4	350	A0
ICESTRS5	350	B0
ICESTRS6	350	C0
ICESTRS7	350	D0
ICESUSFL	1C	
ICESUSPD	1C	40
ICESYMB	8	40404040
ICETAFLS	27	0
ICETAFL2	28	0
ICETAMST	29	0
ICETASTA	26	0
ICETBUF	0	1
ICETCHN	1C	0
ICETCID	9	0
ICETCLC1	1	2
ICETCLC2	34	31
ICETCNT	35	0
ICETCNTR	19	0
ICETEA	B8	
ICETEALN	35	36
ICETEMP	74	

Table 222. Cross Reference for $ICE (continued)

Name	Offset	Hex Tag
ICETEND	350	
ICETERMS	7A	10
ICETERPL	0	5
ICETFBUF	0	6
ICETFDBK	20	0
ICETFDB2	1F	0
ICETFLGS	5	0
ICETFLG2	C	0
ICETFLG3	D	0
ICETICE	0	2
ICETID1	0	
ICETID2	1	
ICETIMER	0	20
ICETINDX	8	0
ICETLFLS	2B	0
ICETLFL2	2C	0
ICETLMST	2D	0
ICETLSTA	2A	0
ICETNJF1	E	0
ICETNJF2	F	0
ICETNTRY	0	
ICETNUM	B8	C
ICETOTAL	64	
ICETPEND	0	3
ICETRCLN	8	10
ICETRCTS	6	0
ICETRDID	31	0
ICETREST	4	
ICETRFLS	2F	0
ICETRFL2	30	0
ICETRH3	1D	0
ICETRPLA	10	
ICETRREQ	14	0
ICETRSTA	2E	0
ICETRTNC	1E	0
ICETRWHH	24	0
ICETRWH2	25	0
ICETSC	7A	8
ICETSEQ	2	
ICETSEQN	16	0
ICETSNDS	7	0
ICETSRMT	0	4
ICETSRTY	15	0
ICETSSAL	0	7
ICETSTAT	4	0
ICETSUSF	B	0
ICETTIME	C0	
ICETTYPE	0	
ICETVFL2	18	0

Table 222. Cross Reference for $ICE (continued)

Name	Offset	Hex Tag
ICET1ST	C8	
ICEUNBD	7A	40
ICEWTIME	60	0
ICEWTRSP	350	1
ICEXRCPY	26	40
ICEXRDNA	26	80
ICEXRESP	68	
ICEXRFBK	26	0
ICEXTCHN	AC	
ICEXTCOD	AB	0
ICEXTWCD	A8	
ICEXTWRK	A8	
ICE1STLU	78	8
ICE3LOGX	7B	10
ICE3RATA	7B	8
ICE3SIMA	7B	40
ICE3SIMC	7B	20
ICE3SIMI	7B	80
ICE3WINC	7B	4

Chapter 103. $INIWARM Information

$INIWARM Heading Information

Common Name:	HASPIR* to HASPWARM Communications block.
Macro ID:	$INIWARM
DSECT Name:	INW
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	INIW Offset: INWID Length: 4
Storage Attributes:	Subpool: 0 Key: 1 Residency: Real and virtual anywhere
Size:	See INWSIZE
Created by:	HASPIRA
Pointed to by:	$INIWARM field of the $HCT data area
Serialization:	None necessary. HASPIR* modules are only modules updating the area.
Function:	There is data and circumstances uncovered by initialization modules which need to be known by warmstart. The warmstart PCE is created late in initialization and thus is unavailable for storing the data. The initialization PCE is removed after initialization completes and thus is unavailable to warmstart. This block fills the gap.

$INIWARM mapping

Table 223. Structure INW

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	INW	
0	(0)	CHARACTER	4	INWID	Eye catcher
4	(4)	BITSTRING	200	INWQSE	Qse for this member that existed before initialization began
204	(CC)	BITSTRING	1	INWFLAG1	Flags
		.1..		INW1BRTD	"B'01000000'" BERT $DISTERR issued
205	(CD)	ADDRESS	4	INDOM493	DOM id for HASP493 issued from initialization
209	(D1)	BITSTRING	3	INWBRTLN	Length of BERT usage map
212	(D4)	ADDRESS	4	INWBRTMP	BERT usage map
		The TSUCLASS, STCCLASS and JOBCLASS defaults are mapped by the Converter parameter list, IEFCNPRM. The following data definitions are copied from $CIRWORK in case installation processing wants to change the default values. $ADD JOBCLASS uses these values post initialization.			
216	(D8)	CHARACTER	24	INWROPSL	TSUCLASS defaults
240	(F0)	CHARACTER	24	INWROPST	STCCLASS defaults

Table 223. Structure INW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
264	(108)	CHARACTER	24	INWROPSU	JOBCLASS defaults
		If there is a STEPLIB in the JES2 PROC, INWSTEPL points to a data area that contains the data sets in the STEPLIB concatenation. This area is mapped using the INIDSN mapping below.			
288	(120)	ADDRESS	4	INWSTEPL	STEPLIB data set info
		The following maps the initialization data sets used when JES2 was started and the number of cards read from each. This area is mapped using the INIDSN mapping below.			
292	(124)	ADDRESS	4	INWDECKL	Init deck info address
		Command used to start JES2			
296	(128)	CHARACTER	126	INWSTRCM	Command used to start JES2
424	(1A8)	SIGNED	4	(0)	Alignment
		Ultimate default job class for JES2			
424	(1A8)	CHARACTER	8	INWDEFCL	Default job class
432	(1B0)	DBL WORD	8	(0)	Ensure alignment
432	(1B0)	X'1B0'	0	INWSIZE	"*-INW" Length of INIWARM

Table 224. Structure INIDSN

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	INIDSN	, Data set list header
0	(0)	CHARACTER	4	IDSNID	Eyecatcher
4	(4)	SIGNED	4	IDSNLEN	Total length of area
8	(8)	ADDRESS	4	IDSNFRST	First data set number
12	(C)	ADDRESS	4	IDSNLAST	and last data set number
16	(10)	CHARACTER	8	IDSNTYPE	Type of data sets
24	(18)	DBL WORD	8	IDSNSTRT(0)	Start of DSN list
24	(18)	BITSTRING	18432	(0)	Default number of entries
18456	(4818)	DBL WORD	8	(0)	End of header
18456	(4818)	X'4818'	0	IDSNSIZE	"*-INIDSN" Default area length

Table 225. Structure INIDSNE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	INIDSNE	, Data set list entry
0	(0)	CHARACTER	54	IDSENAME(0)	Data set name (and member)
0	(0)	CHARACTER	44	IDSEDSN	Data set name
44	(2C)	CHARACTER	10	IDSEMEMA(0)	Member area
44	(2C)	CHARACTER	1	IDSEMEMO	Open parenthesis
45	(2D)	CHARACTER	8	IDSEMEMB	Member name
53	(35)	CHARACTER	1	IDSEMEMC	Close parenthesis
54	(36)	BITSTRING	6	IDSEVOL	First VOLSER
60	(3C)	BITSTRING	8	IDSEUNIT	First UNIT address
68	(44)	SIGNED	4	IDSECNT	Type dependent count
72	(48)	DBL WORD	8	(0)	Alignment

Table 225. Structure INIDSNE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
72	(48)	X'48'	0	IDSESIZE	"*-INIDSNE" Data set entry length

Table 226. Cross Reference for $INIWARM

Name	Offset	Hex Tag
IDSECNT	44	
IDSEDSN	0	
IDSEMEMA	2C	
IDSEMEMB	2D	
IDSEMEMC	35	
IDSEMEMO	2C	
IDSENAME	0	
IDSESIZE	48	48
IDSEUNIT	3C	
IDSEVOL	36	
IDSNFRST	8	
IDSNID	0	C9C4E2D5
IDSNLAST	C	
IDSNLEN	4	
IDSNSIZE	4818	4818
IDSNSTRT	18	
IDSNTYPE	10	
INDOM493	CD	
INIDSN	0	
INIDSNE	0	
INW	0	
INWBRTLN	D1	
INWBRTMP	D4	
INWDECKL	124	
INWDEFCL	1A8	
INWFLAG1	CC	
INWID	0	C9D5C9E6
INWQSE	4	
INWROPSL	D8	F0F0F0F0
INWROPST	F0	F0F0F0F0
INWROPSU	108	F0F0F0F0
INWSIZE	1B0	1B0
INWSTEPL	120	
INWSTRCM	128	
INW1BRTD	CC	40

Chapter 104. $IOT Information

$IOT Programming Interface Information

The following field is **NOT** programming interface information:

- IOTTGADR

$IOT Heading Information

Common Name:	JES2 Input/Output Table
Macro ID:	$IOT
DSECT Name:	IOT
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	IOT Offset: IOTID-IOT Length: L'IOTID
Storage Attributes:	Subpool: 0 for Main Task, 230 for User Environment, 231 for Spin IOT. Key: 1 for Main Task, 5 for User Environment, 1 for Spin IOT. Residency: The $IOT is a JES2 spool resident control block. Real and virtual storage can be anywhere (above or below 16M).
Size:	See IOTLENG
Created by:	Primary Allocation IOT - Most commonly created at reader time (HASPRDR), but also created dynamically when spin data sets are allocated. Secondary Allocation IOT - $TRACK routine in HASPTRAK and $STRAK routine in HASCSRIC as are needed. PDDB only IOT - HASPNET, HASPRDR, HASCDSAL or HASCJBST.

$IOT Heading Information

Pointed to by:
CHKIOTTC field of the $CHK data area (addr on spool)
GCBIOTTR field of the $GCB data area (addr on spool)
CCTSPIOT field of the $HCCT data area (LIFO spin Q)
CCTSPIOT field of the $HCCT data area (FIFO spin Q)
$NEWSIOT field of the $HCT data area (addr on spool)
JCTSPIOT field of the $JCT data area (addr on spool)
JCTIOT field of the $JCT data area (addr on spool)
JIBIOT field of the $JIB data area
JIBIOTTR field of the $JIB data area (addr on spool)
JIBFIOTR field of the $JIB data area (addr on spool)
JNEWIOTT field of the $JNEW data area (addr on spool)
JOEIOTTR field of the $JOE data area (addr on spool)
JQETRAK field of the $JQE data area (addr on spool)
MTLMTTR field of the $MTL data area (addr on spool)
PDBPLIOT field of the $PDDB data area
PDBSPTTR field of the $PDDB data area (addr on spool)
PSOIOT field of the $PSO data area (addr on spool)
PSOANCHR field of the $PSO data area (addr on spool)
SDBPIOT field of the $SDB data area
SDBAIOT field of the $SDB data area
SJBIOT field of the $SJB data area
SJBSPIOT field of the $SJB data area
SJXBSIOT field of the $SJXB data area
SJXRIOT field of the $SJXB data area
TABAIOT field of the $TAB data area
Various fields in the processor work areas and parameter lists.

Serialization: While a job is in execution, the IOT resides in the user address space, so that no other JES2 PCE will update the IOT. At other times, various types of serialization are used for the different types of IOTs. ENQ/DEQ logic is used for Secondary Allocation IOTs. Compare-and-swap logic is used for Spin IOTs.

Function: The IOT is a spool resident control block that describes the spool space used by a job (all the space allocated to data sets, control blocks, etc.). It also holds the information on the job's data sets.

$IOT mapping

Table 227. Structure IOT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IOT	HASP INPUT/OUTPUT TABLE DSECT
		The following fields are defined over the buffer prefix in order to ensure that they are never written to SPOOL. BUFMEMD1, BUFMEMW1, BUFMEMW2, BUFMEMW3, and BUFMEMW5 are used by HAM when writing out IOTs for SYSOUT data sets. They cannot be used in the IOT if it could be written by HASCHAM.			
0	(0)	X'50'	0	IOTFLAG4	"BUFMFLG1-BFPDSECT+IOT,1" Fourth flag byte (memory resident only)
0	(0)	X'80'	0	IOT4CKPT	"BUFM1CKP" Rewrite this IOT
0	(0)	X'51'	0	IOTFLAG5	"BUFMEMF2-BFPDSECT+IOT,1" Fifth flag byte (memory resident only)

Table 227. Structure IOT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'80'	0	IOT5CSDB	"BFD2CSDB" B'10000000' Write IOT in HAM (under the SDB)
0	(0)	X'40'	0	IOT5CSFR	"BFD2CSFR" B'01000000' HAM CEA should free IOT
0	(0)	X'10'	0	IOT5IOE	"BFD2IOE" B'00010000' I/O error (HAM PUT only)
0	(0)	X'58'	0	IOTJCT	"BUFMEMW6-BFPDSECT+IOT,4" Storage address of JCT (referenced only in allocation IOTs)
0	(0)	X'5C'	0	IOTIOT	"BUFMEMW7-BFPDSECT+IOT,4" Storage address of next IOT
0	(0)	X'5C'	0	IOTCSASP	"BUFMEMW7-BFPDSECT+IOT,4" CSA spin IOT chain pointer
0	(0)	X'64'	0	IOTBWP	"BUFWRTBK-BFPDSECT+IOT,4" Storage address of prev IOT
0	(0)	X'64'	0	IOTJOE	"BUFWRTBK-BFPDSECT+IOT,4" Offset of JOE for SPIN IOT while in HASPSPIN
		The following fields are used ONLY in the CSA SPIN IOT. They can be used because the only buffer prefix field used in the CSA queued SPIN IOT is the CSA chaining field.			
24	(18)	CHARACTER	8	IOTNTEYE	Eye catcher
32	(20)	CHARACTER	32	IOTNOTPL	Parm list storage for $HNOTIFY call from DSAL
		End of buffer prefix fields			
0	(0)	BITSTRING	1	(0)	BUFFER CONTROL INFORMATION
0	(0)	X'68'	0	IOTSTART	"*" START OF DATA WRITTEN TO SPOOL
		The following sub-section, generated by the SPID macro, must reside immediately after the I/O control data in every spool buffer. The following fields are defined: Eyecatcher - 4 bytes Job name - 8 bytes Job number - 4 bytes Job key - 4 bytes Dataset key - 4 bytes (or reserved if not applicable)			
104	(68)	CHARACTER	4	IOTID	Eyecatcher
108	(6C)	CHARACTER	8	IOTJNAME	Job name
116	(74)	SIGNED	4	IOTJBNUM	Job number
120	(78)	SIGNED	4	IOTJBKEY	Job key
124	(7C)	BITSTRING	4		Reserved
124	(7C)	X'18'	0	IOTSPLNG	"*-IOTID"
128	(80)	ADDRESS	2	IOTLENG	LENGTH OF IOT INCLUDING PREFIX
130	(82)	BITSTRING	1	IOTFLAG1	FIRST FLAG BYTE
131	(83)	BITSTRING	1	IOTFLAG2	SECOND FLAG BYTE
132	(84)	BITSTRING	4	IOTTRACK	TRACK ADDRESS OF THIS IOT
136	(88)	BITSTRING	4	IOTIOTTR	TRACK ADDRESS OF NEXT IOT

Table 227. Structure IOT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		IOTMTHER is the allocation IOT associated with the PDDBs in this IOT. It is the job allocation IOT in non-spin PDDB-only IOTs, and the spin 'mother' IOT in spin-daughter PDDB IOTs. It is zero in the job (primary) allocation IOT and spin mother (primary) allocation IOTs and in secondary allocation IOTs. IOTMTHER is not normally set until JOEs are built that point, via JOTIOTTR, to the IOT.			
140	(8C)	SIGNED	4	IOTMTHER	MTTR of mother alloc IOT
144	(90)	SIGNED	4	IOTMULTR	MTTR of Multiple Output Characteristic (MOC) spool chain
148	(94)	SIGNED	4		Reserved
140	(8C)	BITSTRING	6	IOTPRMQT	MQTR of primary alloc IOT
146	(92)	BITSTRING	2		Reserved
148	(94)	BITSTRING	4	IOTTGATR	TRACK ADDRESS OF NEXT SECONDARY ALLOCATION IOT
152	(98)	SIGNED	2	IOTTGOFL	Offset of 1st MQT Version 1 IOTs only. Must be zero in version 0 IOTs
154	(9A)	SIGNED	2	IOTTGOFF	Offset of free TGAE space
156	(9C)	SIGNED	4	IOTJQOFF	JQE OFFSET
160	(A0)	BITSTRING	1	IOTFLAG3	Third flag byte
		IOTFLAG3			
		1...		IOT3NUTK	"B'10000000'" New track obtained after a close failure
		.1..		IOT3MOCF	"B'01000000'" Mother instance counting has failed
		TGAEs in IOTs come in 3 flavors. Version 0 - Old style IOT with all TGAEs being 3 bytes in length Version 1 - An IOT that started off as a version 0 IOT with 3 byte TGAEs but an M of X'FF' was added to convert remaining TGAEs to 5 byte TGAEs Version 2 - An IOT with all 5 byte TGAEs			
161	(A1)	BITSTRING	1	IOTVER	IOT Version number
161	(A1)	X'0'	0	IOTVER0	"0" Vrsn 0 IOT (short TGAEs)
161	(A1)	X'1'	0	IOTVER1	"1" Vrsn 1 IOT (Mixed TGAEs)
161	(A1)	X'2'	0	IOTVER2	"2" Vrsn 2 IOT (long TGAEs)
162	(A2)	BITSTRING	2		Reserved for future use
164	(A4)	SIGNED	4	(2)	Reserved for future use
172	(AC)	SIGNED	4	IOTPDDBP	OFFSET BEYOND LAST PDDB IN IOT
176	(B0)	SIGNED	4	IOTPDDB	OFFSET TO FIRST PDDB IN IOT
180	(B4)	SIGNED	4	IOTDSCT	Offset of DSCT in IOT
184	(B8)	BITSTRING	4	IOTCKRC	MTTR OF CHK SPL REC - SPIN IOTS
188	(BC)	SIGNED	4	IOTMUCTR	Multiple Output Characteristics (MOC) Counter
192	(C0)	SIGNED	4	IOTCKTKN	Checkpoint token for spin data sets
196	(C4)	CHARACTER	8	IOTUSER	Userid which allocated datasets in this IOT (Only set by spool reload)
208	(D0)	DBL WORD	8		Reserved for future use

Table 227. Structure IOT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
ALLOCATION IOT (BOTH PRIMARY AND SECONDARY)					
216	(D8)	DBL WORD	8	IOTMSTAB(0)	MASTER TAB (DWORD ALIGNED FOR CDS ON TABMTTR)
228	(E4)	SIGNED	4		Reserved
232	(E8)	DBL WORD	8	(0)	ALIGN FOLLOWING DOUBLEWORD
232	(E8)	SIGNED	4	IOTCYMXM	MAX TTR THIS TRACK GROUP
236	(EC)	SIGNED	4	IOTCELL	MTTR OF NEXT AVAILABLE TRAKCELL
236	(EC)	X'E8'	0	IOTRCPBA	"IOTCYMXM,*-IOTCYMXM" BACK-UP AREA FOR RCPXTTR FOR MAS SPOOL MESSAGES IN RTAM
240	(F0)	BITSTRING	32	IOTSPMSK	MASK OF SPOOLS ALLOCATED ON
272	(110)	BITSTRING	32	IOTSAMSK	SPOOLS ALLOWED MASK
304	(130)	SIGNED	3	IOTFAMLY	Family ID for MOCA IOTs
307	(133)	BITSTRING	1		Reserved for future use
308	(134)	ADDRESS	4		Reserved for future use
312	(138)	DBL WORD	8		Reserved for future use
312	(138)	X'3'	0	IOTTGAEL	"3" Length of short TGAE (MTT)
312	(138)	X'5'	0	IOTTGA2L	"5" Long TGAE length (MQT)
312	(138)	X'140'	0	IOTTGAE	"*" START OF TRACK GROUP ALLOCATION ENTRIES (TGAE'S)
NON-ALLOCATION IOT (PDDB IOT)					
216	(D8)	DBL WORD	8	(2)	RESERVED FOR FUTURE USE
232	(E8)	SIGNED	4	IOTPDDB1(0)	FIX IOT OFFSET TO LOCATION OF FIRST PDDB WITHIN A PDDB IOT
IOTFLAG1					
		.1..		IOT1UNSP	"B'01000000'" IOT IS UNSPUN
		..1.		IOT1ALO2	"B'00100000'" IOT IS SECONDARY ALLOCATION IOT
		...1		IOT1SPIN	"B'00010000'" IOT TYPE IS SPIN
		.... 1...		IOT1ALOC	"B'00001000'" IOT is a primary allocation IOT (mutually exclusive with IOT1ALO2)
		.... .1..		IOT1NTPR	"B'00000100'" TO BE PROC. BY SPIN/HOLD
		.... ..1.		IOT1NEWS	"B'00000010'" JESNEWS IOT
		1		IOT1NEW	"B'00000001'" 2NDARY ALLOC IOT HAS BEEN BUILT
IOTFLAG2					
		1...		IOT2UNAL	"B'10000000'" IOT HAS BEEN UNALLOCATED
		.1..		IOT2RUBL	"B'01000000'" IOT IS REUSABLE
		..1.		IOT2RUED	"B'00100000'" IOT HAS BEEN REUSED
		...1		IOT2NLPL	"B'00010000'" IOT CONTAINS ONLY NULL PLACEHOLDER PDDBS
		.... 1...		IOT2NSPN	"B'00001000'" SPIN IOT WAS UNALLOCATED AS NO-SPIN
		.... .1..		IOT2DSCT	"B'00000100'" DSCT contains valid info

Table 227. Structure IOT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ..1.		IOT2SPNB	"B'00000010'" IOT is busy in HASPSPIN
		1		IOT2SPER	"B'00000001'" I/O error incurred writing IOT

Table 228. Cross Reference for $IOT

Name	Offset	Hex Tag
IOT	0	
IOTBWP	0	64
IOTCELL	EC	
IOTCKRC	B8	
IOTCKTKN	C0	
IOTCSASP	0	5C
IOTCYMXM	E8	
IOTDSCT	B4	
IOTFAMLY	130	
IOTFLAG1	82	
IOTFLAG2	83	
IOTFLAG3	A0	
IOTFLAG4	0	50
IOTFLAG5	0	51
IOTID	68	
IOTIOT	0	5C
IOTIOTTR	88	
IOTJBKEY	78	
IOTJBNUM	74	
IOTJCT	0	58
IOTJNAME	6C	
IOTJOE	0	64
IOTJQOFF	9C	
IOTLENG	80	
IOTMSTAB	D8	
IOTMTHER	8C	
IOTMUCTR	BC	
IOTMULTR	90	
IOTNOTPL	20	
IOTNTEYE	18	
IOTPDDB	B0	
IOTPDDBP	AC	
IOTPDDB1	E8	
IOTPRMQT	8C	
IOTRCPBA	EC	E8
IOTSAMSK	110	
IOTSPLNG	7C	18
IOTSPMSK	F0	
IOTSTART	0	68
IOTTGAE	138	140
IOTTGAEL	138	3

Table 228. Cross Reference for $IOT (continued)

Name	Offset	Hex Tag
IOTTGATR	94	
IOTTGA2L	138	5
IOTTGOFF	9A	
IOTTGOFL	98	
IOTTRACK	84	
IOTUSER	C4	
IOTVER	A1	
IOTVER0	A1	0
IOTVER1	A1	1
IOTVER2	A1	2
IOT1ALOC	140	8
IOT1ALO2	140	20
IOT1NEW	140	1
IOT1NEWS	140	2
IOT1NTPR	140	4
IOT1SPIN	140	10
IOT1UNSP	140	40
IOT2DSCT	140	4
IOT2NLPL	140	10
IOT2NSPN	140	8
IOT2RUBL	140	40
IOT2RUED	140	20
IOT2SPER	140	1
IOT2SPNB	140	2
IOT2UNAL	140	80
IOT3MOCF	A0	40
IOT3NUTK	A0	80
IOT4CKPT	0	80
IOT5CSDB	0	80
IOT5CSFR	0	40
IOT5IOE	0	10

Chapter 105. $IRE Information

$IRE Programming Interface Information

$IRE is a programming interface.

$IRE Heading Information

Common Name: IRE
Macro ID: $IRE
DSECT Name: IRE
Owning Component: JES2 (SC1BH)
Eye-Catcher ID:
```
IRE
Offset:  IREEYE-IRE
Length:  L'IREEYE
```
Storage Attributes:
```
Subpool:   241
Key:       1
Residency: Virtual storage is in 31 bit storage, real can be in
64 bit storage, in extended common storage
```
Size:
```
See IRELEN
```
Created by:
```
As a part of an ECSA CPOOL, the storage is obtained
at CPOOL build time (called out of JES2 initialization
processing).  Elements are obtained during internal
reader allocation processing.
```
Pointed to by:
```
CCTINTRE field of the HCCT data area
HSBINTRE field of the HASB data area
IRENEXT  field of the IRE data area
IREASNXT field of the IRE data area
RIDIRE   field of the IRWD data area
```
Serialization:
```
The IRE data area is obtained and added to the chains
in the user address space.  However, the IRE can only
be deleted from the HCCT chain in the JES2 main task
because the chain can be run by $DRDI processing.
```
Function:
```
This area maps the data area used to track usage of
internal readers.  Each allocated has associated
with it one tracking element in ECSA.  This is used
for the $DRDI command.
```

$IRE mapping

Table 229. Structure IRE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IRE	, Internal Reader Element
0	(0)	CHARACTER	4	IREEYE	Eyecatcher
4	(4)	ADDRESS	1	IREVER	Version
4	(4)	X'1'	0	IREVERN	"1" Initial version
5	(5)	BITSTRING	1		Reserved
6	(6)	CHARACTER	10	IREDEVN	Device name
16	(10)	ADDRESS	4	IRENEXT	Next IRE on HCCT chain
20	(14)	ADDRESS	4	IREASNXT	Next IRE on HASB chain

Table 229. Structure IRE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
24	(18)	ADDRESS	4	IREIRWD	Associated IRWD
28	(1C)	ADDRESS	4	IRESJB	Owning SJB (or zero)
32	(20)	ADDRESS	4	IREHASB	Owning HASB
36	(24)	BITSTRING	8	IREASCBT	Owning address space token
44	(2C)	CHARACTER	8	IREOJOBN	Owning job name
52	(34)	CHARACTER	8	IREOJBID	and JOBID
60	(3C)	SIGNED	4	IREJOBCT	Total job count
64	(40)	CHARACTER	8	IRECJOBN	Job name, JOBID and
72	(48)	CHARACTER	8	IRECJBID	job key of job currently
80	(50)	SIGNED	4	IRECJKEY	on this internal reader
84	(54)	SIGNED	4	IRECUREC	Records read for current job
88	(58)	CHARACTER	12	IRECCARD	Card currently being processed
100	(64)	BITSTRING	1	IRERAUTH	Reader command authority (see IRSRAUTH for bits)
101	(65)	BITSTRING	1	IREFLAGS	Processing flags
		1...		IRESIIND	"B'10000000'" Independent mode
		.1..		IREHOLDJ	"B'01000000'" Hold job ($TJ...,H)
		..1.		IRETRACE	"B'00100000'" Tracing is active
		...1		IREIRCAC	"B'00010000'" IRE active in cleanup processing
		.... 1...		IRECLOSG	"B'00001000'" INTRDR CLOSEing
102	(66)	BITSTRING	1	IRESTATS	Current RDR status
		1...		IREINACT	"B'10000000'" IRE element logically deleted
		.1..		IREALLOC	"B'01000000'" Internal reader allocated
		..1.		IREACTIV	"B'00100000'" Internal reader active
103	(67)	BITSTRING	1		Reserved
104	(68)	CHARACTER	8	IREJCLAS	Default Job class
112	(70)	CHARACTER	1	IREMCLAS	Default MSGCLASS
113	(71)	CHARACTER	7		Reserved
120	(78)	BITSTRING	4	IRESIAFF	Default system affinity
124	(7C)	SIGNED	4	IREPRINT(0)	Default print route code
124	(7C)	SIGNED	2	IREPRNOD	Node number
126	(7E)	SIGNED	2	IREPRRTE	Local printer/remote number
128	(80)	CHARACTER	8	IREPRSER	Print userid
136	(88)	SIGNED	4	IREPUNCH(0)	Default punch route code
136	(88)	SIGNED	2	IREPUNOD	Node number
138	(8A)	SIGNED	2	IREPURTE	Local punch/remote number
140	(8C)	CHARACTER	8	IREPUSER	Punch userid
148	(94)	SIGNED	4	(3)	Reserved
160	(A0)	DBL WORD	8	(0)	Alignment
160	(A0)	X'A0'	0	IRELEN	"*-IRE" Length of data area

Table 230. Cross Reference for $IRE

Name	Offset	Hex Tag
IRE	0	
IREACTIV	66	20
IREALLOC	66	40

Table 230. Cross Reference for $IRE (continued)

Name	Offset	Hex Tag
IREASCBT	24	
IREASNXT	14	
IRECCARD	58	
IRECJBID	48	
IRECJKEY	50	
IRECJOBN	40	
IRECLOSG	65	8
IRECUREC	54	
IREDEVN	6	
IREEYE	0	C9D9C540
IREFLAGS	65	
IREHASB	20	
IREHOLDJ	65	40
IREINACT	66	80
IREIRCAC	65	10
IREIRWD	18	
IREJCLAS	68	
IREJOBCT	3C	
IRELEN	A0	A0
IREMCLAS	70	
IRENEXT	10	
IREOJBID	34	
IREOJOBN	2C	
IREPRINT	7C	
IREPRNOD	7C	
IREPRRTE	7E	
IREPRSER	80	
IREPUNCH	88	
IREPUNOD	88	
IREPURTE	8A	
IREPUSER	8C	
IRERAUTH	64	
IRESIAFF	78	
IRESIIND	65	80
IRESJB	1C	
IRESTATS	66	
IRETRACE	65	20
IREVER	4	
IREVERN	4	1

Chapter 106. $IRIS Information

$IRIS Programming Interface Information

$IRIS is a programming interface.

$IRIS Heading Information

Common Name: IRIS
Macro ID: $IRIS
DSECT Name: IRIS
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: IRIS
Offset: IRSEYE-IRS
Length: L'IRSEYE
Storage Attributes: Subpool: 241
Key: 1
Residency: Virtual storage is in 31 bit storage, real can be in 64 bit storage, in common storage

Size: See IRISLEN
Created by: HASPIRMA during JES2 initialization processing
Pointed to by: CCTBATMD field of the HCCT data area
CCTIRSMD field of the HCCT data area
CCTSTCMD field of the HCCT data area
CCTTSOMD field of the HCCT data area
Serialization: None required
Function: This area maps the data area used to store defaults for internal readers (as set from INTRDR initialization statement). One exists for each type of internal reader (in ECSA) even though the initialization statement only applies to batch internal readers.

$IRIS mapping

Table 231. Structure IRIS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IRIS	, Internal reader init statement
0	(0)	CHARACTER	4	IRISEYE	Eyecatcher
4	(4)	ADDRESS	1	IRISVER	Version
4	(4)	X'1'	0	IRISVERN	"1" Initial version
5	(5)	BITSTRING	1	IRSFLAGS	Processing flags
		1...		IRSSIIND	"B'10000000'" Independent mode
		.1..		IRSHOLDJ	"B'01000000'" Hold job ($TJ...,H)
		...1		IRSBLIM	"B'00010000'" Honor BYTES= values
6	(6)	BITSTRING	1	IRSPRINC	Priority increment
7	(7)	BITSTRING	1	IRSPRLIM	Priority limit
8	(8)	CHARACTER	8	IRSJCLAS	Default Job class

Table 231. Structure IRIS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
16	(10)	CHARACTER	1	IRSMCLAS	Default MSGCLASS
17	(11)	CHARACTER	7		Reserved
24	(18)	SIGNED	4	IRSPRINT(0)	Default print route code
24	(18)	SIGNED	2	IRSPRNOD	Node number
26	(1A)	SIGNED	2	IRSPRRTE	Local printer/remote number
28	(1C)	CHARACTER	8	IRSPRSER	Print userid
36	(24)	SIGNED	4	IRSPUNCH(0)	Default punch route code
36	(24)	SIGNED	2	IRSPUNOD	Node number
38	(26)	SIGNED	2	IRSPURTE	Local punch/remote number
40	(28)	CHARACTER	8	IRSPUSER	Punch userid
48	(30)	BITSTRING	4	IRSSIAFF	Default system affinity
52	(34)	BITSTRING	1	IRSRAUTH	Reader command authority
		.... 1...		IRSREJRM	"B'00001000'" Remote restriction
		.... .1..		IRSREJJB	"B'00000100'" Restricted from job commands
		.... ..1.		IRSREJDV	"B'00000010'" Restricted from device commands
		1		IRSREJSY	"B'00000001'" Restricted from system commands
53	(35)	BITSTRING	1	IRSTRFLG	Tracing flags (ONLY)
		1...		IRSTRACE	"B'10000000'" Tracing is active
		.1..		IRSTRFAS	"B'01000000'" ASID filtering active
		..1.		IRSTRFJN	"B'00100000'" JOBNAME filtering active
		...1		IRSTRFJ#	"B'00010000'" JOB number filtering act
54	(36)	SIGNED	2	IRSTRASI	Trace ASID option
56	(38)	CHARACTER	8	IRSTRJBN	Trace job name option
64	(40)	SIGNED	4	IRSTRJNO	Trace job number option
68	(44)	SIGNED	4	(3)	Reserved
80	(50)	DBL WORD	8	(0)	Alignment
80	(50)	X'50'	0	IRISLEN	"*-IRIS" Length of data area

Table 232. Cross Reference for $IRIS

Name	Offset	Hex Tag
IRIS	0	
IRISEYE	0	C9D9C9E2
IRISLEN	50	50
IRISVER	4	
IRISVERN	4	1
IRSBLIM	5	10
IRSFLAGS	5	
IRSHOLDJ	5	40
IRSJCLAS	8	
IRSMCLAS	10	
IRSPRINC	6	
IRSPRINT	18	
IRSPRLIM	7	
IRSPRNOD	18	

Table 232. Cross Reference for $IRIS (continued)

Name	Offset	Hex Tag
IRSPRRTE	1A	
IRSPRSER	1C	
IRSPUNCH	24	
IRSPUNOD	24	
IRSPURTE	26	
IRSPUSER	28	
IRSRAUTH	34	
IRSREJDV	34	2
IRSREJJB	34	4
IRSREJRM	34	8
IRSREJSY	34	1
IRSSIAFF	30	
IRSSIIND	5	80
IRSTRACE	35	80
IRSTRASI	36	
IRSTRFAS	35	40
IRSTRFJ#	35	10
IRSTRFJN	35	20
IRSTRFLG	35	
IRSTRJBN	38	
IRSTRJNO	40	

Chapter 107. $IRWD Information

$IRWD Programming Interface Information

$IRWD is a programming interface.

$IRWD Heading Information

Common Name:	IRWD
Macro ID:	$IRWD
DSECT Name:	IRWD
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	IRWD Offset: RIDID-IRWD Length: L'RIDID
Storage Attributes:	Subpool: 249 Key: 1 Residency: Virtual storage is in 31 bit storage, real can be in 64 bit storage, in the address space that allocated the internal reader
Size:	See RIDSIZE
Created by:	HASCDSAL during allocation processing
Pointed to by:	IREIRWD field of the IRE data area DEBIRBB field of the DEB data area (after OPEN) contains bits 1-24 of the address
Serialization:	None required
Function:	This data area represents an internal reader allocated in an application address space.

$IRWD mapping

Table 233. Structure IRWD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IRWD	, Internal Reader work area
0	(0)	CHARACTER	4	RIDID	IRWD eycatcher
4	(4)	SIGNED	4		Reserved
8	(8)	DBL WORD	8	RIDCWKAR(0)	Common work area
2088	(828)	ADDRESS	4	RIDHCCT	HCCT address
2092	(82C)	ADDRESS	4	RIDIRE	Associated IRE address
2096	(830)	ADDRESS	4	RIDIRIS	IRIS address
2100	(834)	ADDRESS	4	RIDTRE	TRE address (in HINTRDR)
ASOK fields. For details, see ASOK DSECT in $SDB					
2104	(838)	BITSTRING	8	RIDASOK(0)	ASOK fields
2106	(83A)	SIGNED	2	RIDASOKO	Ordinality of ASOK L1
2108	(83C)	SIGNED	2	RIDASOK1	Offset into Level 1 ASOK
2110	(83E)	SIGNED	2	RIDASOK2	Offset into Level 2 ASOK
2112	(840)	DBL WORD	8	RIDLOCK	Lock owning TCB info (or zero if not locked)

Table 233. Structure IRWD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Default values for this internal reader (from allocation time)			
2120	(848)	BITSTRING	1	RIDFLAGD	Default flag settings
		1...		RIDDLOCL	"B'10000000'" Force SYSAFF to local
		.1..		RIDDHOLD	"B'01000000'" Force TYPRUN=HOLD (DD HOLD=YES)
		..1.		RIDDROUT	"B'00100000'" A default print/punch routing has been passed
2121	(849)	BITSTRING	1	RIDRECFM	RECFM of intrdr dataset, bits defined in DCB under DCBRECFM
2122	(84A)	SIGNED	2	RIDLRECL	LRECL of intrdr dataset
2124	(84C)	CHARACTER	1	RIDMCLAS	Default MSGCLASS
2125	(84D)	CHARACTER	7		Reserved
2132	(854)	SIGNED	4	RIDDPRT(0)	Default print route code
2132	(854)	SIGNED	2	RIDDPRND	Node number
2134	(856)	SIGNED	2	RIDDPRRT	Local printer/remote number
2136	(858)	CHARACTER	8	RIDDPRUS	Print userid
2144	(860)	SIGNED	4	RIDDPUN(0)	Default punch route code
2144	(860)	SIGNED	2	RIDDPUND	Node number
2146	(862)	SIGNED	2	RIDDPURT	Local punch/remote number
2148	(864)	CHARACTER	8	RIDDPUUS	Punch userid
		Internal reader processing options			
2156	(86C)	BITSTRING	1	RIDFLAG1	Miscellaneous flag byte, serialized by SJB lock
		1...		RID1LRDF	"B'10000000'" OPEN set default LRECL or lrecl value specified by user at open intrdr time is to be overridden.
		.1..		RID1BLIM	"B'01000000'" Honor BYTES= values for internal readers
2157	(86D)	BITSTRING	3		Reserved
2160	(870)	ADDRESS	4	RIDSJB	SJB address
2164	(874)	CHARACTER	8	RIDJOBID	Internal reader job id
2172	(87C)	ADDRESS	4	RIDSYML	Address of TU symmbol list to pass in with jobs submitted on this intrdr
2176	(880)	SIGNED	4	(20)	Reserved
2176	(880)	X'900'	0	RIDSIZE	"((*-IRWD+127)/128)*128" Length of DSECT

Table 234. Cross Reference for $IRWD

Name	Offset	Hex Tag
IRWD	0	
RIDASOK	838	
RIDASOKO	83A	
RIDASOK1	83C	
RIDASOK2	83E	
RIDCWKAR	8	

Table 234. Cross Reference for $IRWD (continued)

Name	Offset	Hex Tag
RIDDHOLD	848	40
RIDDLOCL	848	80
RIDDPRND	854	
RIDDPRRT	856	
RIDDPRT	854	
RIDDPRUS	858	
RIDDPUN	860	
RIDDPUND	860	
RIDDPURT	862	
RIDDPUUS	864	
RIDDROUT	848	20
RIDFLAGD	848	
RIDFLAG1	86C	
RIDHCCT	828	
RIDID	0	C9D9E6C4
RIDIRE	82C	
RIDIRIS	830	
RIDJOBID	874	
RIDLOCK	840	
RIDLRECL	84A	
RIDMCLAS	84C	
RIDRECFM	849	
RIDSIZE	880	900
RIDSJB	870	
RIDSYML	87C	
RIDTRE	834	
RID1BLIM	86C	40
RID1LRDF	86C	80

Chapter 108. $JCMWORK Information

$JCMWORK Heading Information

Common Name:	JES2 Job Command PCE Work Area
Macro ID:	$JCMWORK
DSECT Name:	PCE ($JCMWORK is part of the PCE DSECT)
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4
Storage Attributes:	Subpool: See $PCE Key: See $PCE Residency: See $PCE
Size:	See symbol JCMPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by:	See $PCE
Pointed to by:	The $JCMDPCE field of the $HCT data area See $PCE for other pointer fields that apply to all PCE types.
Serialization:	Normal PCE dispatch serialization
Function:	The fields in this area are used by the JES2 Job Command Processor and by its support routines and exits. $JCMWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $JCMWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEJCMID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

$JCMWORK mapping

Table 235. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
320	(140)	ADDRESS	4	JCMDSJBQ	Address of current SJB queue head
328	(148)	DBL WORD	8	(0)	Force double-word alignment
328	(148)	X'8'	0	JCMPCEWS	"*-PCEWORK" Length of work area

Chapter 109. $JCT Information

$JCT Programming Interface Information

$JCT is a programming interface.

$JCT Heading Information

Common Name:	JES2 Job Control Table
Macro ID:	$JCT
DSECT Name:	JCT
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'JCT ' Offset: JCTIDENT-JCT Length: 4
Storage Attributes:	Subpool: 7 in JES2 main task environment; 230 in USER or SUBTASK environments Key: 1 Residency: The $JCT is a JES2 spool resident control block. Virtual storage can be anywhere (above or below 16M) in the JES2 main task and must be below 16M in all other environments. Real storage can be anywhere.
Size:	JCTFEND-JCT is the length of the fixed portion. The JCT is contained in a buffer of size $BUFSIZE which is a field in $HCT.
Created by:	Initially created by HASPRDR or HASPNSR when a job enters the system. In-storage versions of the control block are created by $CBIO READ VERIFY=JCT.
Pointed to by:	FSAJCTAD field of the $FSACB data area IOTJCT field of the $IOT data area JIBJCT field of the $JIB data area JIBJCTA field of the $JIB data area (address on spool) JQETRAK field of the $JQE data area (address on spool) SJBJCT field of the $SJB data area Various fields in the processor work areas and parameter lists.
Serialization:	Serialized under the JES2 TCB.
Function:	The Job Control Table is the primary job oriented control block. It is created by the input service processor and written to spool. Other processors then read this control block and rewrite it to spool as needed. The control block contains two types of information: Accounting information from the accounting field of the JOB card or /*JOBPARM control card and accounting information gathered during job processing. This control block is the primary contributor to the SMF Purge record (Type 26) as well as many other SMF records.

$JCT mapping

Table 236. Structure JCT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JCT	JOB CONTROL TABLE DSECT
		The following fields are defined over the buffer prefix in order to ensure that they are never written to SPOOL.			
0	(0)	X'50'	0	JCTFLAG5	"BUFMFLG1-BFPDSECT+JCT,1" Memory-only flag byte
0	(0)	X'80'	0	JCT5CKPT	"BUFM1CKP" Rewrite this JCT
		1		JCT5EXTA	"B'00000001'" Local JCT extension allowed
0	(0)	X'5C'	0	JCTLEXTA	"BUFMEMW7-BFPDSECT+JCT,4,C'A'" Local JCT extension address
		End of buffer prefix fields			
0	(0)	BITSTRING	1	(0)	BUFFER CONTROL INFORMATION
0	(0)	X'68'	0	JCTSTART	"*" START OF DATA WRITTEN TO SPOOL
		The following sub-section, generated by the SPID macro, must reside immediately after the I/O control data in every spool buffer. The following fields are defined: Eyecatcher - 4 bytes Job name - 8 bytes Job number - 4 bytes Job key - 4 bytes Dataset key - 4 bytes (or reserved if not applicable)			
104	(68)	CHARACTER	4	JCTIDENT	Eyecatcher
108	(6C)	CHARACTER	8	JCTJNAME	Job name
116	(74)	SIGNED	4	JCTJBNUM	Job number
120	(78)	SIGNED	4	JCTJBKEY	Job key
124	(7C)	BITSTRING	4		Reserved
124	(7C)	X'18'	0	JCTSPLNG	"*-JCTIDENT"
128	(80)	ADDRESS	2	JCTLENG	LENGTH OF JCT INCLUDING PREFIX
130	(82)	BITSTRING	1	JCTFLAG1	FLAGS 1 ---
		1...		JCT1SJOB	"X'80'" Job ran because of $S J
		.1..		JCTBURST	"X'40'" JOB OUTPUT BURST OPTION
		..1.		JCT1INTJ	"X'20'" Internally created job (Job has no subsystem datasets)
		...1		JCT1LDR	"X'10'" JOB CREATED BY LOADER DEV.
		.... 1...		JCT1RECV	"X'08'" JOB RECEIVED ON SYSOUT RCVR
		.... .1..		JCT1NUNK	"X'04'" Token is NJE unknown
		.... ..1.		JCT1UNDF	"X'02'" JCTJUSID is undefined user
		1		JCT1ODEL	"X'01'" Job offloaded DISP=DELETE
131	(83)	BITSTRING	1	JCTJTFLG	JOB TERM FLAGS (SSJTFLG1)
132	(84)	CHARACTER	8	JCTJDVT	JDVT NAME
140	(8C)	BITSTRING	4	JCTTRAK_Z11	Track address (MTTR) of this JCT (only valid up to version $J2PZ111)

Table 236. Structure JCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
144	(90)	BITSTRING	4	JCTSPIOT_Z11	Track address (MTTR) of 1st spin IOT (only valid up to version $J2PZ111)
148	(94)	BITSTRING	4	JCTIOT_Z11	Track address (MTTR) of 1st regular IOT (only valid up to version $J2PZ111)
152	(98)	BITSTRING	4	JCTOCTTR_Z11	Track address (MTTR) of OCR table (only valid up to version $J2PZ111)
156	(9C)	BITSTRING	4	JCTXTRK_Z11	Track address (MTTR) of 1st XMIT track (only valid up to version $J2PZ111)
160	(A0)	BITSTRING	4	JCTXBUFO	BUFFER OFFSET IN 1ST XMIT TRACK
164	(A4)	BITSTRING	32	JCTSAMSK	SPOOLS ALLOWED MASK
196	(C4)	SIGNED	4	JCTPDDBK	PERIPHERAL DATA SET KEY
200	(C8)	SIGNED	4	JCTPDDBO	DS KEY FOR LAST INPUT PDDB OR 100 (X'64') IF NO SYSIN
204	(CC)	SIGNED	4	JCTCNVRC	RETURN CODE FROM JCL CONVERTER
204	(CC)	X'0'	0	JCTCOK	"0" JCL converted without err
204	(CC)	X'4'	0	JCTCJCL	"4" JCL error detected by CNV
204	(CC)	X'8'	0	JCTCIO	"8" I/O error detected by CNV
204	(CC)	X'4'	0	JCTCDUPL	"JCTCJCL" Duplicate logon executing
204	(CC)	X'C'	0	JCTCSECF	"12" Security envir. could not be established for the job
204	(CC)	X'10'	0	JCTCNWT	"16" JCL couldn't be converted The referenced JCLLIB data set not available
204	(CC)	X'24'	0	JCTCABND	"36" I/O error using RPLs
204	(CC)	X'26'	0	JCTCIOER	"38" I/O error on PROCLIB
204	(CC)	X'28'	0	JCTCJDVT	"40" Input JDVT not found
204	(CC)	X'36'	0	JCTCSYSE	"54" System error
204	(CC)	X'38'	0	JCTGMFAL	"56" Converter GETMAIN failed
204	(CC)	X'3C'	0	JCTCFOPN	"60" Fake open failure
208	(D0)	SIGNED	4	JCTUSER0	RESERVED FOR USER
212	(D4)	SIGNED	4	JCTUSER1	RESERVED FOR USER
216	(D8)	SIGNED	4	JCTUSER2	RESERVED FOR USER
220	(DC)	SIGNED	4	JCTUSER3	RESERVED FOR USER
224	(E0)	SIGNED	4	JCTUSER4	RESERVED FOR USER
228	(E4)	SIGNED	4	JCTUSER5	RESERVED FOR USER
232	(E8)	SIGNED	4	JCTUSER6	RESERVED FOR USER
236	(EC)	SIGNED	4	JCTUSER7	RESERVED FOR USER
240	(F0)	SIGNED	4	JCTUSER8	RESERVED FOR USER
244	(F4)	SIGNED	4	JCTUSER9	RESERVED FOR USER
248	(F8)	SIGNED	4	JCTUSERA	RESERVED FOR USER
252	(FC)	SIGNED	4	JCTUSERB	RESERVED FOR USER
256	(100)	SIGNED	4	JCTUSERC	RESERVED FOR USER
260	(104)	SIGNED	4	JCTUSERD	RESERVED FOR USER
264	(108)	SIGNED	4	JCTUSERE	RESERVED FOR USER
268	(10C)	SIGNED	4	JCTUSERF	RESERVED FOR USER
272	(110)	CHARACTER	2	JCTPRTY	PRIORITY OR JOB CARD 'PRTY='
274	(112)	SIGNED	2	JCTJSSTP	JOB SELECT RESTART STEP (SSRQSTEP)

Table 236. Structure JCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
276	(114)	SIGNED	2	JCTASID	ASID OF JOB
278	(116)	SIGNED	1	JCTVER	JCT version - contains the JES2 product level where the JCT was created. See $J2Pxxx in $HASPEQU.
278	(116)	X'2D'	0	JCTCVER	"45" Current version
279	(117)	BITSTRING	1		Reserved for future use
280	(118)	BITSTRING	1	JCTFLAG2	FLAG BYTE
		1...		JCT2TWOJ	"B'10000000'" Two jobcards XMIT
		.1..		JCT2AVDP	"B'01000000'" DO NOT DO AUTH VERIFICATION IN JOB INITIATION, ALREADY DONE, JOB PASSED VERIFICATION CHECK
		..1.		JCT2AVF	"B'00100000'" JOB FAILED AUTH VERIFICATION IN CALL FROM JES2
		...1		JCT2AVD	"B'00010000'" AUTH VERIFICATION DONE
		.... 1...		JCT2TJOB	"B'00001000'" Job token received
		.... .1..		JCT2EXEC	"B'00000100'" Job entered execution OK
		.... ..1.		JCT2SDCR	"B'00000010'" SAF CALL FOR SYSIN CREATE NOT YET DONE FOR SYSIN DATA SETS
		1		JCT2IOT2	"B'00000001'" SYSTEM DATA SETS SPAN 2 IOTS (NOT INCLUDING MULTI-DEST COPIES)
281	(119)	BITSTRING	1	JCTFLAG3	Flag Byte
		1...		JCT3TPI	"X'80'" Transaction initiator
		.1..		JCT3BATI	"X'40'" Batch initiator
		..1.		JCT3JDSP	"X'20'" JESDS PROCESSING COMPLETED
		...1		JCT3NCF	"X'10'" Suppress notification of store-and-forward
		.... 1...		JCT3NCA	"X'08'" Suppress notification of reached ultimate dest
		.... .1..		JCT3NOTK	"X'04'" At least one D/S needs a Job Level Token
		.... ..1.		JCT3FORM	"X'02'" FORMS specified in JCL
		1		JCT3RJCS	"X'01'" Job card processed locally
282	(11A)	BITSTRING	1	JCTJSFLG	JOB SELECT FLAGS (SSRQFLG1)
283	(11B)	BITSTRING	1	JCTSMFLG	SMF FLAGS
		11.1 1...		JCTSMFL0	"B'11011000'" Reserved
		..1.		JCTNOUSO	"B'00100000'" Do not take IEFUSO exit
		.... .1..		JCTNOTY6	"B'00000100'" Do not produce Type 6 SMF record
		.... ..1.		JCTNOUJP	"B'00000010'" Do not take IEFUJP exit
		1		JCTNOT26	"B'00000001'" Do not produce Type 26 SMF record
KEEP THE FIELDS JCTJOBFL AND JCTJBOPT TOGETHER FOR SMF					

Table 236. Structure JCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
284	(11C)	BITSTRING	1	JCTJOBFL	HASP Job flags (same as CATJOBFL)
		1...		JCTBATCH	"B'10000000'" Batch job
		.1..		JCTTSUJB	"B'01000000'" Time sharing user
		..1.		JCTSTCJB	"B'00100000'" System task
284	(11C)	X'E0'	0	JCTVALJB	"JCTBATCH+JCTTSUJB+JCTSTCJB" valid types
		...1		JCTNOJNL	"B'00010000'" No journal option
		.... 1...		JCTNOUPT	"B'00001000'" No output option
		.... .1..		JCTTSCAN	"B'00000100'" TYPRUN=SCAN was specified
		.... ..1.		JCTTCOPY	"B'00000010'" TYPRUN=COPY was specified
		1		JCTRSTRT	"B'00000001'" Allow warmstart to re-queue to XEQ
285	(11D)	BITSTRING	1	JCTJBOPT	HASP Job options (same as CATJBOPT)
		1...		JCTPRICD	"B'10000000'" PRIORITY card or JOB card 'PRTY=' present (not used in CATJBOPT field)
		.1..		JCTSETUP	"B'01000000'" SETUP card(S) present (not used in CATJOBOPT field)
		..1.		JCTTHOLD	"B'00100000'" TYPRUN=HOLD
		...1		JCTNOLOG	"B'00010000'" NO job log option
		.... 1...		JCTXBMII	"B'00001000'" XBM II job
		.... .1..		JCTINRDR	"B'00000100'" Job was entered on INTRDR (not used in CATJBOPT field
		.... ..1.		JCTRERUN	"B'00000010'" Job was re-run (not used in CATJBOPT field)
		1		JCTQHELD	"B'00000001'" Not used in JCTJBOPT, indicates class queue is held in CATJBOPT
286	(11E)	BITSTRING	2	JCTMXLRC	Max LRECL of JCL stream
288	(120)	SIGNED	4	(0)	
288	(120)	CHARACTER	8	JCTJOBID	HASP ASSIGNED JOB IDENTIFICATION
Keep next 24 bytes intact for SMF - JCTPNAME thru JCTPRIO					
296	(128)	CHARACTER	20	JCTPNAME	PROGRAMMER'S NAME FROM JOB CARD
316	(13C)	CHARACTER	1	JCTMCLAS	MSGCLASS FROM JOB CARD
317	(13D)	CHARACTER	1	JCTJCLAS	HASP EXECUTION JOB CLASS
318	(13E)	BITSTRING	1	JCTIPRIO	HASP INITIAL JOB SELECTION PRIORITY
319	(13F)	BITSTRING	1	JCTPRIO	HASP EXECUTION SELECTION PRIORITY
320	(140)	BITSTRING	1	JCTIOPRI	HASP INITIAL OUTPUT SELECTION PRIO
321	(141)	BITSTRING	1	JCTOPRIO	HASP OUTPUT SELECTION PRIORITY
322	(142)	BITSTRING	2	(0)	Job suppression flags
322	(142)	BITSTRING	1	JCTEVTLF	EVENTLOG data set flags
		1...		JCTESMF	"B'10000000'" Supp EVENTLOG SMF recs
EQU B'01111000' Reserved internal use					

Table 236. Structure JCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
323	(143)	BITSTRING	1	JCTFEAS	Feature suppression flags
		1...		JCTEVTW	"B'10000000'" Suppress EVENTLOG write
		.1..		JCTNNJE	"B'01000000'" Suppress non-printable data sets on NJE
324	(144)	SIGNED	4	JCTROUTE(0)	INPUT ROUTE CODE
324	(144)	SIGNED	2	JCTRNODE	NODE NUMBER
326	(146)	SIGNED	2	JCTRRMT	REMOTE NUMBER
Keep next 28 bytes intact for SMF - JCTINDEV thru JCTESTPU					
328	(148)	CHARACTER	8	JCTINDEV	HASP INPUT DEVICE NAME
336	(150)	CHARACTER	4	JCTACCTN	JOB ACCOUNTING NUMBER FROM JOB CARD
340	(154)	CHARACTER	4	JCTROOMN	PROGRAMMER'S ROOM NUMBER
344	(158)	SIGNED	4	JCTETIME	ESTIMATED EXECUTION TIME
348	(15C)	SIGNED	4	JCTESTLN	ESTIMATED OUTPUT LINES
352	(160)	SIGNED	4	JCTESTPU	ESTIMATED PUNCHED OUTPUT
356	(164)	CHARACTER	8	JCTFORMS	JOB OUTPUT FORMS
364	(16C)	BITSTRING	1	JCTFLAG4	Flag byte 4
		1...		JCT4PASE	"B'10000000'" Password is encrypted
		.1..		JCT4NPSE	"B'01000000'" New password is encrypted
		..1.		JCT4UJNM	"B'00100000'" Exit 2/52 updated job name
		...1		JCT4RCST	"B'00010000'" Return code info set (JCTMAXRC and JCTLSTAB)
		.... 1...		JCT4WINI	"B'00001000'" Job ran under a WINIT (Work Load Manager INIT)
		.... .1..		JCT4EJOB	"B'00000100'" Job restarted
		.... ..1.		JCT4LCDF	"B'00000010'" JCTLINCT value from $LINECT
		1		JCT4STAB	"B'00000001'" JCTLSTAB set by JES2
365	(16D)	BITSTRING	1	JCTCPYCT	JOB PRINT COPY COUNT
JCTJLOGD is a date token used to determine if a date line is needed in the job log. The token is remainder after dividing the number of days since JAN 1, 1900 by 254 plus 1. A value of zero indicates there is no date in the job log yet, a value of X'FF' indicates no dates are to be placed into the job log.					
366	(16E)	BITSTRING	1	JCTJLOGD	JOB log date token
367	(16F)	BITSTRING	1	JCTLINCT	LINES PER PAGE
368	(170)	SIGNED	4	JCTESTPG	ESTIMATED PAGE OUTPUT
372	(174)	SIGNED	4	JCTESTBY	ESTIMATED BYTE OUTPUT
376	(178)	SIGNED	4	JCTPROUT(0)	JOB PRINT ROUTE CODE
376	(178)	SIGNED	2	JCTPRNOD	NODE NUMBER
378	(17A)	SIGNED	2	JCTPRRMT	REMOTE NUMBER
380	(17C)	CHARACTER	8	JCTPRRID	PRINTER EBCDIC RMT/USERID
388	(184)	SIGNED	4	JCTPUOUT(0)	JOB PUNCH ROUTE CODE
388	(184)	SIGNED	2	JCTPUNOD	NODE NUMBER
390	(186)	SIGNED	2	JCTPURMT	REMOTE NUMBER

Table 236. Structure JCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
392	(188)	CHARACTER	8	JCTPURID	PUNCH EBCDIC RMT/USERID
400	(190)	CHARACTER	8	JCTPROCN	PROCEDURE DDNAME
408	(198)	CHARACTER	8	JCTPASS	CURRENT PASSWORD
416	(1A0)	CHARACTER	8	JCTNUPAS	NEW PASSWORD
424	(1A8)	CHARACTER	8	JCTGRPID	GROUPID
432	(1B0)	CHARACTER	8	JCTNOTUS	Notify user id
432	(1B0)	X'1B0'	0	JCTTSUID	"JCTNOTUS,7" TIME SHARING USR FOR NOTIFY
440	(1B8)	BITSTRING	1	JCTTSUAF	INPUT SYSAF FOR NOTIFY
441	(1B9)	CHARACTER	9	JCTIDLEN(0)	FOLLOWING TWO FIELDS MUST BE KEPT TOGETHER FOR RACROUTE USE
441	(1B9)	CHARACTER	1	JCTUIDL	USERID LENGTH
442	(1BA)	CHARACTER	8	JCTJUSID	USERID (FROM JOB CARD)
450	(1C2)	CHARACTER	8	JCTENCKY	Password encryption key
458	(1CA)	SIGNED	2	JCTRXLEN	Free space in JCT for JCT extensions
460	(1CC)	SIGNED	3	JCTFAMLY	Highest family ID used by MOCA IOTs
463	(1CF)	SIGNED	1		Reserved for future use
464	(1D0)	SIGNED	4	(0)	Ensure fullword for token
464	(1D0)	BITSTRING	1	JCTTOKEN	Security TOKEN for job
KEEP NEXT 48 BYTES INTACT FOR SMF - JCTCNVON THROUGH JCTODTOF					
544	(220)	SIGNED	4	JCTCNVON	TIME ON JCL CONVERSION PROCESSOR
548	(224)	SIGNED	4	JCTCDTON	DATE ON JCL CONVERSION PROCESSOR
552	(228)	SIGNED	4	JCTCNVOF	TIME OFF JCL CONVERSION PROCESSOR
556	(22C)	SIGNED	4	JCTCDTOF	DATE OFF JCL CONVERSION PROCESSOR
560	(230)	SIGNED	4	JCTXEQON	TIME ON EXECUTION PROCESSOR
564	(234)	SIGNED	4	JCTXDTON	DATE ON EXECUTION PROCESSOR
568	(238)	SIGNED	4	JCTXEQOF	TIME OFF EXECUTION PROCESSOR
572	(23C)	SIGNED	4	JCTXDTOF	DATE OFF EXECUTION PROCESSOR
576	(240)	SIGNED	4	JCTOUTON	TIME ON OUTPUT PROCESSOR
580	(244)	SIGNED	4	JCTODTON	DATE ON OUTPUT PROCESSOR
584	(248)	SIGNED	4	JCTOUTOF	TIME OFF OUTPUT PROCESSOR
588	(24C)	SIGNED	4	JCTODTOF	DATE OFF OUTPUT PROCESSOR
KEEP NEXT 28 BYTES INTACT FOR SMF - JCTCARDS THROUGH JCTOTSID					
592	(250)	SIGNED	4	JCTCARDS	TOTAL NUMBER OF INPUT CARDS
596	(254)	SIGNED	4	JCTLINES	GENERATED OUTPUT LINES
600	(258)	SIGNED	4	JCTPUNCH	GENERATED PUNCHED OUTPUT
604	(25C)	CHARACTER	4	JCTRDSID	INPUT PROCESSOR SYSTEM ID
608	(260)	CHARACTER	4	JCTCVSID	CONVERSION PROCESSOR SYSTEM ID
612	(264)	CHARACTER	4	JCTEXSID	EXECUTION PROCESSOR SYSTEM ID
616	(268)	CHARACTER	4	JCTOTSID	OUTPUT PROCESSOR SYSTEM ID
620	(26C)	SIGNED	4	JCTPAGES	GENERATED OUTPUT PAGES
624	(270)	SIGNED	4	JCTBYTES	GENERATED OUTPUT BYTES
628	(274)	SIGNED	4	JCTSPUNB	TOTAL BYTES IN SPUN DATASET(S)
632	(278)	SIGNED	2	JCTXEQND	INITIAL EXECUTION NODE
634	(27A)	SIGNED	2	JCTXNODE	ACTUAL EXECUTION NODE
636	(27C)	CHARACTER	4	JCTNJSID	JOB XMITTER PROCESSOR SYSTEM ID

Table 236. Structure JCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
640	(280)	SIGNED	4	JCTNJTON	TIME ON JOB TRANSMITTER PROCESSOR
644	(284)	SIGNED	4	JCTNDTON	DATE ON JOB TRANSMITTER PROCESSOR
648	(288)	SIGNED	4	JCTNJTOF	TIME OFF JOB TRANSMITTER PROCESSOR
652	(28C)	SIGNED	4	JCTNDTOF	DATE OFF JOB TRANSMITTER PROCESSOR
656	(290)	CHARACTER	8	JCTNACCT	NETWORK ACCOUNTING NUMBER
664	(298)	CHARACTER	8	JCTNOJID	ORIGINAL JOB IDENTIFICATION
672	(2A0)	CHARACTER	8	JCTNNDEV	JOB TRANSMITTER DEVICE NAME
680	(2A8)	CHARACTER	8	JCTNONDE	NETWORK ORIGINAL NODE NAME
688	(2B0)	CHARACTER	8	JCTNOUSR	SUBMITTING USERID
696	(2B8)	CHARACTER	8	JCTNXNDE	NETWORK EXECUTION NODE NAME
704	(2C0)	CHARACTER	8	JCTNNNDE	NETWORK NEXT NODE NAME
712	(2C8)	CHARACTER	8	JCTNLNDE	NETWORK LAST NODE NAME
720	(2D0)	SIGNED	4	JCTESOUT	ESTIMATED OUTPUT (LINES+CARDS)
724	(2D4)	SIGNED	4	JCTXOUT	GENERATED OUTPUT RECORDS
728	(2D8)	CHARACTER	8	JCTPSN1	STEP NAME FROM EXEC STEP
736	(2E0)	CHARACTER	8	JCTPSN2	STEP NAME OF CALLING STEP
744	(2E8)	DBL WORD	8	(0)	Ensure doubleword boundary
744	(2E8)	BITSTRING	144	JCTWORK	144-BYTE WORK AREA
888	(378)	BITSTRING	80	JCTXWRK	80-BYTE WORK AREA FOR RDR EXITS
		Start of the JMR area. Note that starting with release 2.1, the JMR is split into two areas. The original area exists here. The new area is constructed on the fly from fields in the JCTX			
888	(378)	X'3C8'	0	JCTJMRST	"*" START OF JMR AREA
KEEP THE FIELDS JCTJMRJN, JCTRDRON, AND JCTRDTON TOGETHER FOR SMF					
968	(3C8)	CHARACTER	8	JCTJMRJN	JMR JOB NAME
976	(3D0)	SIGNED	4	JCTRDRON	TIME ON INPUT PROCESSOR
980	(3D4)	SIGNED	4	JCTRDTON	DATE ON INPUT PROCESSOR
984	(3D8)	BITSTRING	4	JCTCPUID	JMR CPU IDENTIFICATION
988	(3DC)	CHARACTER	8	JCTUSEID	JMR installation data field
996	(3E4)	BITSTRING	1	JCTSTEP	CURRENT STEP NUMBER
997	(3E5)	BITSTRING	1	JCTINDC	JMR SMF OPTIONS
998	(3E6)	BITSTRING	2	JCTJTCC(0)	CONDITION CODE
999	(3E7)	BITSTRING	1	JCTCLASS	HASP EXECUTION JOB CLASS
1000	(3E8)	SIGNED	4	JCTUCOM	JMR USER COMMUNICATION AREA
1004	(3EC)	SIGNED	4	JCTUJVP	JMR ADDRESS OF USER EXIT ROUTINE
KEEP THE FIELDS JCTRDROF AND JCTRDTOF TOGETHER FOR SMF					
1008	(3F0)	SIGNED	4	JCTRDROF	TIME OFF INPUT PROCESSOR
1012	(3F4)	SIGNED	4	JCTRDTOF	DATE OFF INPUT PROCESSOR
1016	(3F8)	SIGNED	4	JCTJOBIN	JMR JOB SYSIN COUNT
1020	(3FC)	BITSTRING	2	JCTRDR	READER DEVICE TYPE AND CLASS
1022	(3FE)	BITSTRING	1	JCTJMOPT	JMR SMF OPTIONS
		..1.		JCTJMRUX	"B'00100000'" Take user exits for SMF
1023	(3FF)	BITSTRING	1	JCTJMRVR	JMR version
		....		JCTVER0	"X'00'" Version 0
		1		JCTVER1	"X'01'" Version 1

Table 236. Structure JCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1024	(400)	SIGNED	4	JCTJMRND(0)	END OF JMR
1024	(400)	X'3C8'	0	JCTJMR	"JCTJMRST,*-JCTJMRST" Reference for entire JMR
1024	(400)	X'38'	0	JCTJMRL	"*-JCTJMRST" Length of JMR in JCT and job correlator
1024	(400)	BITSTRING	32	JCTXMASK	EXIT JOB MASK
1056	(420)	SIGNED	4	JCTJQE	OFFSET OF HASP JOB QUEUE ENTRY
1060	(424)	CHARACTER	8	JCTNNODE	NOTIFICATION NODE
1068	(42C)	SIGNED	2	JCTCHNDX	CREATED HEADER TABLE INDEX
1070	(42E)	BITSTRING	10	JCTCHDRT	CREATED HEADER TABLE
1080	(438)	ADDRESS	4	JCTNJHTR_Z11	MTTR OF JOB HEADER (only valid up to version $J2PZ111)
1084	(43C)	ADDRESS	4	JCTNJTTR_Z11	MTTR OF JOB TRAILER (only valid up to version $J2PZ111)
1088	(440)	BITSTRING	1	JCTAXCLS	Actual execution class
1089	(441)	BITSTRING	1	JCTAXPR	Actual execution priority
1096	(448)	DBL WORD	8	JCTXSTRT	Execution start time (STCK)
1104	(450)	DBL WORD	8	JCTXSTOP	Execution stop time (STCK)
1112	(458)	DBL WORD	8	JCTETS	System entry Time (STCK)
1120	(460)	CHARACTER	8	JCTDEPT	Programmer's department id
1128	(468)	CHARACTER	8	JCTBLDG	Programmer's building id
1136	(470)	CHARACTER	8	JCTROOM	PROGRAMMER'S ROOM
1144	(478)	CHARACTER	8	JCTSGRP	Submitting group
		The job accounting packet format is: DC Y(length) length of packet not including this halfword followed by a variable length string of this format: DC AL1(number-of-pairs-that-follow) followed by 0 or more accounting pairs Accounting pairs are of the form: DC AL1(length),C'string of length "length"' A length of 0 indicates an omitted field Example: (X3600,42,,ABC) on the JOB card will result in the packet looking like: DC H'15' Length of following DC FL1'4' Nr of fields DC FL1'5' Length of field 1 DC C'X3600' Field 1 DC FL1'2' Length of field 2 DC C'42' Field 2 DC FL1'0' Length of field 3 (null) DC FL1'3' Length of field 4 DC C'ABC' Field 4			
1152	(480)	SIGNED	2	JCTACCTL(0)	Beginning of acct. packet
1152	(480)	SIGNED	2	JCTACTLG	Length of job accounting
1154	(482)	BITSTRING	145	JCTJOBAC	Job accounting string
1299	(513)	BITSTRING	1		Reserved
1300	(514)	SIGNED	4	(0)	Ensure alignment
1300	(514)	CHARACTER	8	JCTSECLB	SECLABEL of job
1308	(51C)	SIGNED	4	JCTJPERD	STCK for end of READER
1312	(520)	DBL WORD	8	JCTJPEST	Program entry start time for JSAB (Time off JCL conversion processor STCK)

Table 236. Structure JCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1320	(528)	CHARACTER	8	JCTNXUID	Network execution userid (from XMIT or XEQ)
1328	(530)	CHARACTER	8	JCTMVSNM	Execution MVS System name
1336	(538)	BITSTRING	3	JCTMAXRC	Max return code
1339	(53B)	BITSTRING	3	JCTLSTAB	Last ABEND code
1342	(53E)	CHARACTER	8	JCTWSCN	WLM service class name
1350	(546)	CHARACTER	8	JCTWOSCN	WLM (original) srv cls name
1358	(54E)	BITSTRING	4	JCTWEARR	TOD when job re-enqueued
1362	(552)	CHARACTER	16	JCTSCHEN	SCHENV for job
1378	(562)	BITSTRING	1	JCTNFLG1	Networking flags
		1...		JCTN1EOT	"B'10000000'" EOT received for NJE job
1379	(563)	BITSTRING	1	JCTFLAG7	Flag byte 7
		1...		JCT7NQAU	"B'10000000'" - Automatically downgrade SYSDSN ENQs to SHR control when no longer needed EXCLUSIVE
		.1..		JCT7NQAL	"B'01000000'" - Allow the job to downgrade SYSDSN ENQs to SHR control when no longer needed EXCL when requested via JCL DSENQSHR keyword on JOB statement - Both bits off disables the function (disallow)
		..1.		JCT7PCNV	"B'00100000'" - preconversion JCT. MQTR of new JCT is in JCTPCVTK
		...1		JCT7FAIC	"B'00010000'" - Fail job after conversion
		.... 1...		JCT7BNOT	"B'00001000'" - NOTIFY=&SYSUID and &SYSUID is a special local destination
		.... .1..		JCT7UNTL	"B'00000100'" - Hold job due to HOLDUNTL
		In preconversion JCT, JCTPCTRK points to a postconversion JCT. In a postconversion JCT, JCTPCTRK points to a preconversion JCT under the following conditions: 1. Job has been validated (JCT2AVDP is on), AND 2. Either of the password fields is not already encrypted(JCT4PASE or JCT4NPSE is off), AND 3. Password fields, JCTPASS and JCTNUPAS, are not null (zero or blank). Note that this field will remain non-zero if a job is re-converted.			
1380	(564)	ADDRESS	4	JCTPCTRK_Z11	Track addr of pre-conv JCT (only valid up to version $J2PZ111)
1384	(568)	BITSTRING	1	JCTFLAG6	Flag byte
		1...		JCT6LSRC	"B'10000000'" JOBRC=LASTRC is default
		.1..		JCT6RQST	"B'01000000'" JCTREQRC has been set
		..1.		JCT6RQAB	"B'00100000'" JCTREQRC has ABEND code

Table 236. Structure JCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		JCT6RSPC	"B'00010000'" JOBRC=STEP found
		.... 1...		JCT6JBRC	"B'00001000'" JOBRC present on job card
		.... .1..		JCT6DFJG	"B'00000100'" Job represents a JOBGROUP
		.... ..1.		JCT6CONC	"B'00000010'" Job in concurrent set
1385	(569)	BITSTRING	3	JCTREQRC	RC of requested step
1388	(56C)	BITSTRING	1	JCTFLAG8	Excession limit flags: (from / MAIN)
		1...		JCT8LJLC	"X'80'" Lines Limit is Cancel
		.1..		JCT8LJLD	"X'40'" Lines Limit is Dump
		..1.		JCT8LJLW	"X'20'" Lines Limit is Warning
		.... 1...		JCT8PJLC	"X'08'" Pages Limit is Cancel
		.... .1..		JCT8PJLD	"X'04'" Pages Limit is Dump
		.... ..1.		JCT8PJLW	"X'02'" Pages Limit is Warning
1389	(56D)	BITSTRING	1	JCTFLAG9	More Excession limit flags: (from / MAIN)
		1...		JCT9BJLC	"X'80'" Bytes Limit is Cancel
		.1..		JCT9BJLD	"X'40'" Bytes Limit is Dump
		..1.		JCT9BJLW	"X'20'" Bytes Limit is Warning
		.... 1...		JCT9CJLC	"X'08'" Cards Limit is Cancel
		.... .1..		JCT9CJLD	"X'04'" Cards Limit is Dump
		.... ..1.		JCT9CJLW	"X'02'" Cards Limit is Warning
1390	(56E)	BITSTRING	2		RESERVED FOR FUTURE USE
1392	(570)	SIGNED	4		RESERVED FOR FUTURE USE
1396	(574)	SIGNED	4		RESERVED FOR FUTURE USE
1400	(578)	SIGNED	4	JCTFEND_Z11(0)	End of fixed portion of JCT (only valid up to version $J2PZ111)
		The following eight MQTR fields are only valid at version $J2PZ112 and greater.			
1400	(578)	BITSTRING	6	JCTCURTK	Track address (MQTR) of this JCT
1406	(57E)	BITSTRING	6	JCTSPNTK	Track address (MQTR) of 1st spin IOT
1412	(584)	BITSTRING	6	JCTIOTTK	Track address (MQTR) of 1st regular IOT
1418	(58A)	BITSTRING	6	JCTOCTTK	Track address (MQTR) of OCR table
1424	(590)	BITSTRING	6	JCTXMTTK	Track address (MQTR) of 1st XMIT track
1430	(596)	BITSTRING	6	JCTNJHTK	Track address (MQTR) of job header.
1436	(59C)	BITSTRING	6	JCTNJTTK	Track address (MQTR) of job trailer.
1442	(5A2)	BITSTRING	6	JCTPCVTK	Track address (MQTR) of pre-conv JCT. See the description of field JCTPCTRK_Z11 for more info.
1448	(5A8)	SIGNED	4	JCTFEND(0)	End of fixed portion of JCT

Table 236. Structure JCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		It is required that the JCT have enough space left after the fixed portion of the JCT (i.e. after JCTFEND) for $JCT extensions. Enough space is arbitrarily declared to be 512 bytes in a buffer which is at its minimum size (2048). If the following SCON gets an assembly error, then there is not enough space left over.			
1448	(5A8)	ADDRESS	2	JCTLEFT(0)	
		The following fields define the local extension to the JCT pointed to by JCTLEXTA. This extension is a local data area managed by the $JCTXnnn services.			
1448	(5A8)	X'0'	0	JCTLXID	"0,4,C'C'" Eyecatcher ('JCLX')
1448	(5A8)	X'4'	0	JCTLXLEN	"4,2,C'H'" Remaining free space
1448	(5A8)	X'6'	0	JCTLXPRE	"L'JCTLXID+L'JCTLXLEN" Length of prefix
1448	(5A8)	X'2000'	0	JCTLXSIZ	"8192" Size of local extension

Table 237. Cross Reference for $JCT

Name	Offset	Hex Tag
JCT	0	
JCTACCTL	480	
JCTACCTN	150	
JCTACTLG	480	
JCTASID	114	
JCTAXCLS	440	
JCTAXPR	441	
JCTBATCH	11C	80
JCTBLDG	468	
JCTBURST	82	40
JCTBYTES	270	
JCTCABND	CC	24
JCTCARDS	250	
JCTCDTOF	22C	
JCTCDTON	224	
JCTCDUPL	CC	4
JCTCFOPN	CC	3C
JCTCHDRT	42E	
JCTCHNDX	42C	
JCTCIO	CC	8
JCTCIOER	CC	26
JCTCJCL	CC	4
JCTCJDVT	CC	28
JCTCLASS	3E7	
JCTCNVOF	228	
JCTCNVON	220	
JCTCNVRC	CC	
JCTCNWT	CC	10

Table 237. Cross Reference for $JCT (continued)

Name	Offset	Hex Tag
JCTCOK	CC	0
JCTCPUID	3D8	
JCTCPYCT	16D	
JCTCSECF	CC	C
JCTCSYSE	CC	36
JCTCURTK	578	
JCTCVER	116	2D
JCTCVSID	260	
JCTDEPT	460	
JCTENCKY	1C2	
JCTESMF	142	80
JCTESOUT	2D0	
JCTESTBY	174	
JCTESTLN	15C	
JCTESTPG	170	
JCTESTPU	160	
JCTETIME	158	
JCTETS	458	
JCTEVTLF	142	
JCTEVTW	143	80
JCTEXSID	264	
JCTFAMLY	1CC	
JCTFEAS	143	
JCTFEND	5A8	
JCTFEND_Z11	578	
JCTFLAG1	82	
JCTFLAG2	118	
JCTFLAG3	119	
JCTFLAG4	16C	
JCTFLAG5	0	50
JCTFLAG6	568	
JCTFLAG7	563	
JCTFLAG8	56C	
JCTFLAG9	56D	
JCTFORMS	164	
JCTGMFAL	CC	38
JCTGRPID	1A8	
JCTIDENT	68	
JCTIDLEN	1B9	
JCTINDC	3E5	
JCTINDEV	148	
JCTINRDR	11D	4
JCTIOPRI	140	
JCTIOT_Z11	94	
JCTIOTTK	584	
JCTIPRIO	13E	
JCTJBKEY	78	
JCTJBNUM	74	
JCTJBOPT	11D	

Table 237. Cross Reference for $JCT (continued)

Name	Offset	Hex Tag
JCTJCLAS	13D	
JCTJDVT	84	
JCTJLOGD	16E	
JCTJMOPT	3FE	
JCTJMR	400	3C8
JCTJMRJN	3C8	
JCTJMRL	400	38
JCTJMRND	400	
JCTJMRST	378	3C8
JCTJMRUX	3FE	20
JCTJMRVR	3FF	
JCTJNAME	6C	
JCTJOBAC	482	
JCTJOBFL	11C	
JCTJOBID	120	
JCTJOBIN	3F8	
JCTJPERD	51C	
JCTJPEST	520	
JCTJQE	420	
JCTJSFLG	11A	
JCTJSSTP	112	
JCTJTCC	3E6	
JCTJTFLG	83	
JCTJUSID	1BA	
JCTLEFT	5A8	
JCTLENG	80	
JCTLEXTA	0	5C
JCTLINCT	16F	
JCTLINES	254	
JCTLSTAB	53B	
JCTLXID	5A8	0
JCTLXLEN	5A8	4
JCTLXPRE	5A8	6
JCTLXSIZ	5A8	2000
JCTMAXRC	538	
JCTMCLAS	13C	
JCTMVSNM	530	
JCTMXLRC	11E	
JCTNACCT	290	
JCTNDTOF	28C	
JCTNDTON	284	
JCTNFLG1	562	
JCTNJHTK	596	
JCTNJHTR_Z11	438	
JCTNJSID	27C	
JCTNJTOF	288	
JCTNJTON	280	
JCTNJTTK	59C	
JCTNJTTR_Z11	43C	

Table 237. Cross Reference for $JCT (continued)

Name	Offset	Hex Tag
JCTNLNDE	2C8	
JCTNNDEV	2A0	
JCTNNJE	143	40
JCTNNNDE	2C0	
JCTNNODE	424	
JCTNOJID	298	
JCTNOJNL	11C	10
JCTNOLOG	11D	10
JCTNONDE	2A8	
JCTNOTUS	1B0	
JCTNOTY6	11B	4
JCTNOT26	11B	1
JCTNOUJP	11B	2
JCTNOUPT	11C	8
JCTNOUSO	11B	20
JCTNOUSR	2B0	
JCTNUPAS	1A0	
JCTNXNDE	2B8	
JCTNXUID	528	
JCTN1EOT	562	80
JCTOCTTK	58A	
JCTOCTTR_Z11	98	
JCTODTOF	24C	
JCTODTON	244	
JCTOPRIO	141	
JCTOTSID	268	
JCTOUTOF	248	
JCTOUTON	240	
JCTPAGES	26C	
JCTPASS	198	
JCTPCTRK_Z11	564	
JCTPCVTK	5A2	
JCTPDDBK	C4	
JCTPDDBO	C8	
JCTPNAME	128	
JCTPRICD	11D	80
JCTPRIO	13F	
JCTPRNOD	178	
JCTPROCN	190	
JCTPROUT	178	
JCTPRRID	17C	
JCTPRRMT	17A	
JCTPRTY	110	
JCTPSN1	2D8	
JCTPSN2	2E0	
JCTPUNCH	258	
JCTPUNOD	184	
JCTPUOUT	184	
JCTPURID	188	

Table 237. Cross Reference for $JCT (continued)

Name	Offset	Hex Tag
JCTPURMT	186	
JCTQHELD	11D	1
JCTRDR	3FC	
JCTRDROF	3F0	
JCTRDRON	3D0	
JCTRDSID	25C	
JCTRDTOF	3F4	
JCTRDTON	3D4	
JCTREQRC	569	
JCTRERUN	11D	2
JCTRNODE	144	
JCTROOM	470	
JCTROOMN	154	
JCTROUTE	144	
JCTRRMT	146	
JCTRSTRT	11C	1
JCTRXLEN	1CA	
JCTSAMSK	A4	
JCTSCHEN	552	
JCTSECLB	514	
JCTSETUP	11D	40
JCTSGRP	478	
JCTSMFLG	11B	
JCTSMFL0	11B	D8
JCTSPIOT_Z11	90	
JCTSPLNG	7C	18
JCTSPNTK	57E	
JCTSPUNB	274	
JCTSTART	0	68
JCTSTCJB	11C	20
JCTSTEP	3E4	
JCTTCOPY	11C	2
JCTTHOLD	11D	20
JCTTOKEN	1D0	
JCTTRAK_Z11	8C	
JCTTSCAN	11C	4
JCTTSUAF	1B8	
JCTTSUID	1B0	1B0
JCTTSUJB	11C	40
JCTUCOM	3E8	
JCTUIDL	1B9	
JCTUJVP	3EC	
JCTUSEID	3DC	
JCTUSERA	F8	
JCTUSERB	FC	
JCTUSERC	100	
JCTUSERD	104	
JCTUSERE	108	
JCTUSERF	10C	

Table 237. Cross Reference for $JCT (continued)

Name	Offset	Hex Tag
JCTUSER0	D0	
JCTUSER1	D4	
JCTUSER2	D8	
JCTUSER3	DC	
JCTUSER4	E0	
JCTUSER5	E4	
JCTUSER6	E8	
JCTUSER7	EC	
JCTUSER8	F0	
JCTUSER9	F4	
JCTVALJB	11C	E0
JCTVER	116	
JCTVER0	3FF	0
JCTVER1	3FF	1
JCTWEARR	54E	
JCTWORK	2E8	
JCTWOSCN	546	
JCTWSCN	53E	
JCTXBMII	11D	8
JCTXBUFO	A0	
JCTXDTOF	23C	
JCTXDTON	234	
JCTXEQND	278	
JCTXEQOF	238	
JCTXEQON	230	
JCTXMASK	400	
JCTXMTTK	590	
JCTXNODE	27A	
JCTXOUT	2D4	
JCTXSTOP	450	
JCTXSTRT	448	
JCTXTRK_Z11	9C	
JCTXWRK	378	
JCT1INTJ	82	20
JCT1LDR	82	10
JCT1NUNK	82	4
JCT1ODEL	82	1
JCT1RECV	82	8
JCT1SJOB	82	80
JCT1UNDF	82	2
JCT2AVD	118	10
JCT2AVDP	118	40
JCT2AVF	118	20
JCT2EXEC	118	4
JCT2IOT2	118	1
JCT2SDCR	118	2
JCT2TJOB	118	8
JCT2TWOJ	118	80
JCT3BATI	119	40

Table 237. Cross Reference for $JCT (continued)

Name	Offset	Hex Tag
JCT3FORM	119	2
JCT3JDSP	119	20
JCT3NCA	119	8
JCT3NCF	119	10
JCT3NOTK	119	4
JCT3RJCS	119	1
JCT3TPI	119	80
JCT4EJOB	16C	4
JCT4LCDF	16C	2
JCT4NPSE	16C	40
JCT4PASE	16C	80
JCT4RCST	16C	10
JCT4STAB	16C	1
JCT4UJNM	16C	20
JCT4WINI	16C	8
JCT5CKPT	0	80
JCT5EXTA	0	1
JCT6CONC	568	2
JCT6DFJG	568	4
JCT6JBRC	568	8
JCT6LSRC	568	80
JCT6RQAB	568	20
JCT6RQST	568	40
JCT6RSPC	568	10
JCT7BNOT	563	8
JCT7FAIC	563	10
JCT7NQAL	563	40
JCT7NQAU	563	80
JCT7PCNV	563	20
JCT7UNTL	563	4
JCT8LJLC	56C	80
JCT8LJLD	56C	40
JCT8LJLW	56C	20
JCT8PJLC	56C	8
JCT8PJLD	56C	4
JCT8PJLW	56C	2
JCT9BJLC	56D	80
JCT9BJLD	56D	40
JCT9BJLW	56D	20
JCT9CJLC	56D	8
JCT9CJLD	56D	4
JCT9CJLW	56D	2

Chapter 110. $JCTX Information

$JCTX Programming Interface Information

$JCTX is a programming interface.

$JCTX Heading Information

Common Name: JES2 Job Control Table Extension
Macro ID: $JCTX
DSECT Name: JCTX
Owning Component: JES2 (SC1BH)
Eye-Catcher ID:
```
'JCTX'
Offset:  JCXEYE-JCTX
Length:  4
```
Storage Attributes:
```
Subpool:   7 in JES2 main task environment;
230 in USER or SUBTASK environments
Key:       1
Residency: The $JCTX is an extension of the $JCT, currently
residing in the same spool buffer as the $JCT.  No
code dependencies (other than in the $JCTX service
routines themselves) should rely on this.
Virtual storage can be anywhere (above or below 16M)
in the JES2 main task and must be below 16M in all
other environments.  Real storage can be anywhere.
```
Size:
```
JCXORG-JCTX defines the length of the base section
of the JCTX.  JCXLEN contains the total length of
the extension.
```
Created by:
```
$JCTXADD routine in HASCXJCT.
In-storage versions of the control block are created
by $CBIO READ VERIFY=JCT.
```
Pointed to by:
```
$JCTXGET macro should be used to find the address
of the extension.
```
Serialization:
```
Serialization is the same as for the $JCT.
```
Function:
```
The Job Control Table Extension gives an installation
the ability to associate their own information with
a job without modifying the Job Control Table.
These extensions may be manipulated using the
$JCTXADD, $JCTXEXP, $JCTXGET, and $JCTXREM services.
The $JCTX mapping is also used as the parameter
list to the $JCTX service routines.  These parameter
lists are created by the $JCTXxxx macros and deleted
by the corresponding routines.
```

$JCTX mapping

Table 238. Structure JCTX

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JCTX	
0	(0)	CHARACTER	4	JCXEYE	JCTX Eyecatcher
4	(4)	CHARACTER	4	JCXTYPE	Extension Type

Table 238. Structure JCTX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
8	(8)	SIGNED	2	JCXMOD	Extension Modifier
10	(A)	SIGNED	2	JCXLEN	Extension Length
		The variable information in the $JCTX begins at label JCXORG. Note that different mappings will exist for different values of TYPE and MOD. The instruction "ORG ," should not be used in the mappings for any extension, as this sets the location counter to the highest value defined so far. If multiple sections are defined, this could lead to an erroneous mapping.			
12	(C)	SIGNED	4	JCXORG(0)	Origin for variable data portions of $JCT extension.
12	(C)	X'C'	0	JCXBASLN	"JCXORG-JCTX" Length of base section of the $JCTX
		IBM supplied extension for JESLOG spin control. The JCXTYPE is "IBM" The JCXMOD is JCXJLGM			
12	(C)	X'1'	0	JCXJLGM	"1" Modifier
12	(C)	BITSTRING	6	JCXJLOG	JES log control
12	(C)	X'12'	0	JCXJLEN	"*-JCTX" Extension length
		IBM supplied extension for advanced features The JCXTYPE is "IBM" The JCXMOD is JCXADVM			
12	(C)	X'2'	0	JCXADVM	"2" Modifier
12	(C)	CHARACTER	8	JCXJCLA8	Extended execution job class name
20	(14)	CHARACTER	8	JCXAXCL8	Extended actual execution job class name
28	(1C)	CHARACTER	8	JCXMVSSB	Submitting MVS system name
36	(24)	BITSTRING	6	JCXJSMTK	MQTR of JSMT (Job symbol table)
36	(24)	X'2A'	0	JCXADVSZ	"*-JCTX" Extension length

Table 239. Cross Reference for $JCTX

Name	Offset	Hex Tag
JCTX	0	
JCXADVM	C	2
JCXADVSZ	24	2A
JCXAXCL8	14	
JCXBASLN	C	C
JCXEYE	0	D1C3E3E7
JCXJCLA8	C	
JCXJLEN	C	12
JCXJLGM	C	1
JCXJLOG	C	
JCXJSMTK	24	
JCXLEN	A	
JCXMOD	8	
JCXMVSSB	1C	
JCXORG	C	

Table 239. Cross Reference for $JCTX (continued)

Name	Offset	Hex Tag
JCXTYPE	4	

Chapter 111. $JESLOG Information

$JESLOG Programming Interface Information

$JESLOG is a programming interface.

$JESLOG Heading Information

Common Name: JES log control
Macro ID: $JESLOG
DSECT Name: JLG
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: "None"
Offset: N/A
Length: N/A
Storage Attributes: Subpool: n/a
Key: n/a
Residency: This block is included in JCTs, SJXBs, CATs and CNVWORK. See the description of those "hosting" blocks for storage attributes.

Size: See JLGLEN
Created by: See "hosting" control blocks
Pointed to by: No pointers
Serialization: None required
Function: The JESLOG describes how the spinning of JESLOG (JESYSMG and JESJOBLG) is to be supported.

$JESLOG mapping

Table 240. Structure JLG

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JLG	
0	(0)	BITSTRING	1	JLGFLAG1	Flags - JESMSGLG/JESYSMSG
		1...		JLG1ELIG	"B'10000000'" Spin eligible
		.1..		JLG1TIMI	"B'01000000'" Spin on time interval
		..1.		JLG1TIMD	"B'00100000'" Spin on time of day
		...1		JLG1LINE	"B'00010000'" Spin upon line delta
		.... 1...		JLG1SUP	"B'00001000'" Suppress
		.... .1..		JLG1NOSP	"B'00000100'" No Spin
		.... .1..		JLG1NOCM	"B'00000100'" Not spinnable via command
1	(1)	SIGNED	1	JLGSOURC	Source of JESLOG info
1	(1)	X'0'	0	JLGSEXIT	"0" JESLOG from Exit
1	(1)	X'1'	0	JLGSJCL	"1" JESLOG from JCL
1	(1)	X'2'	0	JLGSCAT	"2" JESLOG from CAT
1	(1)	X'3'	0	JLGSSRR	"3" JESLOG from IEFSSRR

Table 240. Structure JLG (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		JLGVALUE has one of the following values: o 0 if no bit on in JLGFLAG1 or just JLG1ELIG on or just JLG1SUP on o Increment in seconds if JLG1TIMI on o Increment in TOD clock units if JLG1TIMI on and embedded in the SJXB o Number of seconds past midnight if JLG1TIMD on o Number of TOD clock units past midnight if JLG1TIMD on and embedded in the SJXB o Line delta if JLG1LINE on			
2	(2)	SIGNED	4	JLGVALUE	Value used for JESLOG spin decisions (see above)
2	(2)	X'6'	0	JLGLEN	"*-JLG" Length of area
6	(6)	ADDRESS	2	(0)	Ensure length is 6

Table 241. Cross Reference for $JESLOG

Name	Offset	Hex Tag
JLG	0	
JLGFLAG1	0	
JLGLEN	2	6
JLGSCAT	1	2
JLGSEXIT	1	0
JLGSJCL	1	1
JLGSOURC	1	
JLGSSRR	1	3
JLGVALUE	2	
JLG1ELIG	0	80
JLG1LINE	0	10
JLG1NOCM	0	4
JLG1NOSP	0	4
JLG1SUP	0	8
JLG1TIMD	0	20
JLG1TIMI	0	40

Chapter 112. $JIB Information

$JIB Programming Interface Information

The following fields are **NOT** programming interface information:

- JIBGCB
- JIBJSPA

$JIB Heading Information

Common Name: JES2 JOE Information Block
Macro ID: $JIB
DSECT Name: JIB
Owning Component: JES2 (SC1BH)
Eye-Catcher ID:
```
JIB
Offset:  JIBID-JIB
Length:  L'JIBID
```
Storage Attributes:
```
Subpool:   230
Key:       1
Residency: If the FSS supports AMODE 31, then ANY.  If the
FSS only supports AMODE 24, then storage is obtained
below the line.  Real storage is anywhere.
The storage resides in the FSS address space.
```
Size: See JIBSIZE
Created by: HASPFSSM
Pointed to by:
```
FSAREQQS field of the FSACB    data area
FSAACTQS field of the FSACB    data area
FSARETQS field of the FSACB    data area
JIBNEXT  field of the JIB      data area
QCTSTKHD field of the QCT      data area
```
Serialization: Standard FSA level control block serialization.
Function: The JIB is used to pass JOE level information between the JES2 main task (in HASPFSSP) and the FSS address space (HASPFSSM). In addition, HASPFSSM uses the JIB to store JOE level information.

$JIB mapping

Table 242. Structure JIB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JIB	JOE INFORMATION BLOCK
0	(0)	CHARACTER	4	JIBID	JIB IDENTIFIER
4	(4)	SIGNED	4	JIBNEXT	POINTER TO NEXT JIB ON QUEUE
8	(8)	SIGNED	4	JIBJ2RAB(0)	BEGIN JES2 RELDS CMS COPY AREA
8	(8)	CHARACTER	8	JIBMIDSE	JIB unprintable reason code
16	(10)	SIGNED	4	JIBFLAGS(0)	JIB FLAG BYTES
16	(10)	BITSTRING	1	JIBFLG1	FIRST FLAG BYTE
		1...		JIBFREQ	"B'10000000'" JIB IS A REQUEST FOR A JOE

Table 242. Structure JIB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		JIBFACT	"B'01000000'" JIB IS ACTIVE ON DEVICE
		..1.		JIBFRET	"B'00100000'" JIB IS BEING RETURNED TO JES
		...1		JIBFINIT	"B'00010000'" JIB IS INITIALIZED
		.... 1...		JIBFCOMP	"B'00001000'" JIB COMPLETELY PROCESSED
		.... .1..		JIBFINCP	"B'00000100'" JIB NOT COMPLETELY PROCESSED
		.... ..1.		JIBFCPB	"B'00000010'" CHECKPOINT BUFFER ACQUIRED
		1		JIBIOERR	"B'00000001'" I/O ERROR ON JCT/IOT READ
17	(11)	BITSTRING	1	JIBFLG2	SECOND FLAG BYTE
		1...		JIBFSTOP	"B'10000000'" $Z COMMAND
		.1..		JIBFDEL	"B'01000000'" $C COMMAND
		..1.		JIBFRST	"B'00100000'" $E COMMAND
		...1		JIBFINT	"B'00010000'" $I COMMAND
		.... 1...		JIBFBKSP	"B'00001000'" $B COMMAND
		.... .1..		JIBFJHPG	"B'00000100'" JOB HEADER PAGE REQUIRED
		.... ..1.		JIBFJTPG	"B'00000010'" JOB TRAILER PAGE REQUIRED
		1		JIBFNEWS	"B'00000001'" JES2 NEWS DATA SET ACQUIRED
18	(12)	BITSTRING	1	JIBFLG3	THIRD FLAG BYTE
		1...		JIBFFSTP	"B'10000000'" 1ST PDDB BEING GETDSD FROM JOE
		.1..		JIBFLSTP	"B'01000000'" LAST PDDB BEING GETDSD FROM JOE
		..1.		JIBFCPVL	"B'00100000'" VALID CKPT RECORD READ FOR JOE
		...1		JIBFCPER	"B'00010000'" I/O ERROR ON SPOOL CKPT RECORD
		.... 1...		JIBFUNPR	"B'00001000'" UNPRINTABLE JOE IN JIB
		.... .1..		JIBFONDV	"B'00000100'" ON DEVICE MSG NEEDED FOR JOE
		.... ..1.		JIBFOPIC	"B'00000010'" JIB CANCELLED DURING SETUP
		1		JIB3AUTH	"B'00000001'" JESNEWS AUTHORIZATION FAILURE
19	(13)	BITSTRING	1	JIBFLG4	FOURTH FLAG BYTE
		1...		JIB4RSV1	"B'10000000'" Reserved for future use
		.1..		JIB4DUMD	"B'01000000'" Dummy data set being processed
		..1.		JIB4FSSR	"B'00100000'" HASP704 for FSS reason
		...1		JIBSWBER	"B'00010000'" SWB error
		.... 1...		JIB4RDIP	"B'00001000'" FSA posted for GETDS as dataset RELDSed incomplete & FSA was waiting for work

Table 242. Structure JIB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		JIB4OPIN	"B'00000100'" Operator intervention requested for dataset within JIB
		.... ..1.		JIB4REPO	"B'00000010'" JIB's dataset going thru reposition
		1		JIB4NENF	"B'00000001'" Data set select ENF was sent when JOE header page was printed
20	(14)	BITSTRING	1	JIBUNPRR	REASON PRT DS UNPRINTABLE
21	(15)	BITSTRING	3		Reserved for future use
24	(18)	SIGNED	4	JIBJ2GAB(0)	BEGIN JES2 GETDS CMS COPY AREA
24	(18)	BITSTRING	1	JIBFLG5	Fifth Flag Byte
		1...		JIB5JCOR	"B'10000000'" Job correlator in GETDS data
25	(19)	BITSTRING	3		RESERVED FOR FUTURE USE
28	(1C)	SIGNED	4	JIBJOEI	Index of JOE in the JOT
32	(20)	SIGNED	4	JIBJ2RAE(0)	END OF JES2 RELDS CMS COPY AREA
32	(20)	BITSTRING	4	JIBJCTA	JCT TRACK ADDRESS (JQEJCT)
36	(24)	SIGNED	4	JIBJBNUM	Job number
40	(28)	CHARACTER	8	JIBJOBID	HASP JOB IDENTIFIER
48	(30)	ADDRESS	4	JIBJKEY	HDBDSKEY FOR CB VERIFICATION
52	(34)	BITSTRING	184	JIBNEWS	Copy of current JNEW CB (used for JESNEWS)
236	(EC)	SIGNED	4	JIBJ2GAC(0)	Begin JES2 GETDS CMS copy area for Job Correlator
236	(EC)	CHARACTER	64	JIBJCOR	Job Correlator
300	(12C)	SIGNED	4	JIBJ2GAE(0)	END OF JES2 GETDS CMS COPY AREA
300	(12C)	SIGNED	4	JIBWORK(4)	WORK AREA FOR $VERIFY IN FSSM
316	(13C)	CHARACTER	8	JIBDEVN	EBCDIC device name
324	(144)	ADDRESS	4	JIBSJIOB	Normal SJIOB pointer
328	(148)	ADDRESS	4	JIBCSJIO	CHK record SJIOB pointer
332	(14C)	ADDRESS	4	JIBJCT	POINTER TO JCT
336	(150)	ADDRESS	4	JIBIOT	POINTER TO IOT
340	(154)	BITSTRING	6	JIBIOTTK	IOT MQTR (CURRENT OR RESET)
346	(15A)	BITSTRING	2		Reserved
348	(15C)	ADDRESS	4	JIBPDDB	POINTER TO NEXT ASSIGNABLE PDDB
352	(160)	ADDRESS	4	JIBFPDB	FIRST PDDB OFFSET IN JIB
356	(164)	ADDRESS	4	JIBFIOTR	IOT MTTR OF FIRST PDDB
360	(168)	ADDRESS	4	JIBCPBUF	CHECKPOINT I/O BUFFER ADDRESS
364	(16C)	ADDRESS	4	JIBGCB	POINTER TO GCB CHAIN
368	(170)	SIGNED	4	JIBDSACT	DATA SETS ASSIGNED COUNT
372	(174)	SIGNED	4	JIBDSEQN	DATA SET SEQUENCE NUMBER
376	(178)	CHARACTER	8	JIBSECLB	Security label of the job
384	(180)	BITSTRING	224	JIBJSPA	JSPA AREA
608	(260)	BITSTRING	4	(2)	Reserved
608	(260)	X'268'	0	JIBSIZE	"*-JIB" Length of JIB base. Note that the length of a JIB is JIBSIZE, plus the size of the prototype JOA, which is appended to the end of the JIB.

Table 242. Structure JIB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
616	(268)	SIGNED	2	JIBJOAPR(0)	Prototype (copy) JOA. The size of a JIB is calc- ulated dynamicially at runtime by the FSMQCT routine in HASPFSSM

Table 243. Cross Reference for $JIB

Name	Offset	Hex Tag
JIB	0	
JIBCPBUF	168	
JIBCSJIO	148	
JIBDEVN	13C	
JIBDSACT	170	
JIBDSEQN	174	
JIBFACT	10	40
JIBFBKSP	11	8
JIBFCOMP	10	8
JIBFCPB	10	2
JIBFCPER	12	10
JIBFCPVL	12	20
JIBFDEL	11	40
JIBFFSTP	12	80
JIBFINCP	10	4
JIBFINIT	10	10
JIBFINT	11	10
JIBFIOTR	164	
JIBFJHPG	11	4
JIBFJTPG	11	2
JIBFLAGS	10	
JIBFLG1	10	
JIBFLG2	11	
JIBFLG3	12	
JIBFLG4	13	
JIBFLG5	18	
JIBFLSTP	12	40
JIBFNEWS	11	1
JIBFONDV	12	4
JIBFOPIC	12	2
JIBFPDB	160	
JIBFREQ	10	80
JIBFRET	10	20
JIBFRST	11	20
JIBFSTOP	11	80
JIBFUNPR	12	8
JIBGCB	16C	
JIBID	0	
JIBIOERR	10	1
JIBIOT	150	
JIBIOTTK	154	

Table 243. Cross Reference for $JIB (continued)

Name	Offset	Hex Tag
JIBJBNUM	24	
JIBJCOR	EC	
JIBJCT	14C	
JIBJCTA	20	
JIBJKEY	30	
JIBJOAPR	268	
JIBJOBID	28	
JIBJOEI	1C	
JIBJSPA	180	
JIBJ2GAB	18	
JIBJ2GAC	EC	
JIBJ2GAE	12C	
JIBJ2RAB	8	
JIBJ2RAE	20	
JIBMIDSE	8	
JIBNEWS	34	
JIBNEXT	4	
JIBPDDB	15C	
JIBSECLB	178	
JIBSIZE	260	268
JIBSJIOB	144	
JIBSWBER	13	10
JIBUNPRR	14	
JIBWORK	12C	
JIB3AUTH	12	1
JIB4DUMD	13	40
JIB4FSSR	13	20
JIB4NENF	13	1
JIB4OPIN	13	4
JIB4RDIP	13	8
JIB4REPO	13	2
JIB4RSV1	13	80
JIB5JCOR	18	80

Chapter 113. $JNEW Information

$JNEW Programming Interface Information

$JNEW is a programming interface.

$JNEW Heading Information

Common Name: JNEW Control Block
Macro ID: $JNEW
DSECT Name: JNEW
Owning Component: JES2 (SC1BH)
Eye-Catcher ID:
```
JNEW
Offset:  JNEWID-JNEW
Length:  L'JNEWID
```
Storage Attributes:
```
Subpool:   0
Key:       1
Residency: Virtual storage is 31 bit. No restriction on real
storage
```

Size: See JNEWSIZE
Created by: JESNEWS processing in HASPJOS
Pointed to by:
```
$JNEW    field of the $HCT     data area
JNEWNEXT field of the $JNEW    data area
PPPANEWS field of the $PPPWORK data area
JIBNEWS  field of the $JIB     data area
```
Serialization:
```
Creation is serialized by the $PRONEWS flag of the
$PROCESS byte in the HCT
```
Function:
```
The JNEW is the control block representing the JESNEWS
data set.  It contains the JESNEWS data set resource
name and the TOKEN associated with the data set.  The
format of the entity name is
"nodeid.jes_userid.$JESNEWS.jesnews_jobid.
Dnews_level.JESNEWS".
The JNEW is located in the JES2 address space.  It is
created by $#NEWS when a new news data set is created
and by $#GTNEWS when a printer requests the current
news.
```

$JNEW mapping

Table 244. Structure JNEW

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JNEW	
0	(0)	CHARACTER	4	JNEWID	JNEW identifier
4	(4)	ADDRESS	1	JNEWVERS	Version
		1		JNEWVRSN	"X'01'" Version equate
5	(5)	BITSTRING	1	JNEWFLAG	Flag byte
		1...		JNEWMOVD	"B'10000000'" JESNEWS was moved
6	(6)	ADDRESS	2		Reserved
8	(8)	SIGNED	4	JNEWUSE	Use Count

Table 244. Structure JNEW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
12	(C)	ADDRESS	4	JNEWNEXT	Address of next JNEW
16	(10)	SIGNED	4	JNEWJNUM	Job number of JQE
20	(14)	SIGNED	4	JNEWLEVL	Level of the news
24	(18)	ADDRESS	4	JNEWMTTR	MTTR of JESNEWS data set
28	(1C)	ADDRESS	4	JNEWIOTT	MTTR of JESNEWS IOT
32	(20)	SIGNED	4	JNEWRECT	Data set record count
36	(24)	SIGNED	4	JNEWPGCT	Page data page count
40	(28)	BITSTRING	80	JNEWTOKN	JESNEWS Security token
120	(78)	CHARACTER	53	JNEWENTY	JESNEWS entity name
173	(AD)	BITSTRING	1	JNEWRECF	Data set record format
174	(AE)	BITSTRING	2	JNEWRECL	Maximum data set record lng
176	(B0)	BITSTRING	4		Reserved
184	(B8)	DBL WORD	8	(0)	Ensure boundry
184	(B8)	X'B8'	0	JNEWSIZE	"*-JNEW" Size of JNEW control block

Table 245. Cross Reference for $JNEW

Name	Offset	Hex Tag
JNEW	0	
JNEWENTY	78	
JNEWFLAG	5	
JNEWID	0	
JNEWIOTT	1C	
JNEWJNUM	10	
JNEWLEVL	14	
JNEWMOVD	5	80
JNEWMTTR	18	
JNEWNEXT	C	
JNEWPGCT	24	
JNEWRECF	AD	
JNEWRECL	AE	
JNEWRECT	20	
JNEWSIZE	B8	B8
JNEWTOKN	28	
JNEWUSE	8	
JNEWVERS	4	
JNEWVRSN	4	1

Chapter 114. $JNT Information

$JNT Programming Interface Information

$JNT is a programming interface.

$JNT Heading Information

Common Name:	HASP Job Number Table
Macro ID:	$JNT
DSECT Name:	JNT
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'JNT ' Offset: JNTID-JNT Length: 4
Storage Attributes:	Subpool: 0, 231, dataspace Key: 1 Residency: Virtual storage is anywhere (below or above 16M) in the JES2 address space. Real storage is anywhere.
Size:	JNTLEN + (2 * 32768) - R4 mode <32K jobs JNTLEN + (2 * 65534) - R4 mode >=32K jobs JNTLENZ2 + (4 * 65536) - z2 mode
Created by:	JES2 initialization allocates storage for the JNT. The checkpoint versions subtask creates copies of the JNT in the checkpoint versions data space.
Pointed to by:	The $JNTPTR field of the $HCT data area. The KACJNTP field of the $KAC data area. The DSRVJNPT field of the IAZDSERV data area.
Serialization:	JES2 checkpoint data set lock ($QSUSE)
Function:	Maps the job number table in the 4K checkpoint page area. Contains all job number information including the JIX (job number index).

$JNT mapping

Table 246. Structure JNT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JNT	JOB NUMBER TABLE DSECT
0	(0)	CHARACTER	4	JNTID	JNT IDENTIFIER
4	(4)	ADDRESS	1	JNTVRSN	JNT VERSION
4	(4)	X'4'	0	JNTVERS	"4" JNT VERSION NUMBER
5	(5)	ADDRESS	1	JNTRSV1	RESERVED
6	(6)	SIGNED	2	JNTCATCT	Counter that is incremented every time an execution class (CAT) or execution class group (GRPOBJ) is changed. Used to trigger a REFRESH of the in-memory CAT/GRPOBJ cache.
8	(8)	SIGNED	4	JNTLCMIN	LOCAL MINIMUM JOB NUMBER
12	(C)	SIGNED	4	JNTLCMAX	LOCAL MAXIMUM JOB NUMBER

Table 246. Structure JNT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
16	(10)	SIGNED	4	JNTLSTAL	LAST ALLOCATED JOB NUMBER
20	(14)	SIGNED	4	JNTFRCNT	NUMBER OF FREE JOB NUMBERS
24	(18)	ADDRESS	4	JNTJBMAX	TOTAL NUMBER OF JOB NUMBERS
28	(1C)	SIGNED	4	(2)	Reserved for future use
36	(24)	SIGNED	4	JNTBSEND(0)	End of base section
36	(24)	X'24'	0	JNTBLEN	"*-JNT" Length of the base JNT
		JNTJXMAP is a map of the allocated job numbers in the JIX. The map contains one bit for every 32 job numbers. Therefore, a bit being on indicates that one or more job numbers within the 32 job number range are allocated in the JIX. We selected one bit to represent 32 job numbers because 999999 job numbers could be accounted for and still keep the z2 JNT in a single buffer (not including the JIX).			
36	(24)	BITSTRING	1	JNTJXMAP	Jix map of allocated job numbers
36	(24)	X'F43'	0	JNTJXMLN	"*-JNTJXMAP" Length of JNTJXMAP
3944	(F68)	SIGNED	4	JNTJIXZ2(0)	Start of z2 JIX
3944	(F68)	X'F68'	0	JNTLENZ2	"*-JNT" Length of the z2 JNT
3944	(F68)	X'10000'	0	JNTJXENT	"65536" Number of JIX entries

Table 247. Cross Reference for $JNT

Name	Offset	Hex Tag
JNT	0	
JNTBLEN	24	24
JNTBSEND	24	
JNTCATCT	6	
JNTFRCNT	14	
JNTID	0	D1D5E340
JNTJBMAX	18	
JNTJIXZ2	F68	
JNTJXENT	F68	10000
JNTJXMAP	24	
JNTJXMLN	24	F43
JNTLCMAX	C	
JNTLCMIN	8	
JNTLENZ2	F68	F68
JNTLSTAL	10	
JNTRSV1	5	
JNTVERS	4	4
JNTVRSN	4	

Chapter 115. $JOE Information

$JOE Programming Interface Information

$JOE is a programming interface.

$JOE Heading Information

Common Name:	Job Output Element
Macro ID:	$JOE
DSECT Name:	JOE
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	The pool of JOEs is preceded by an eyecatcher '**JOE POOL**' in the header for the pool. Offset: HDPID-HDP Length: 13
Storage Attributes:	Subpool: 0 for the JES2 main copy; dataspace for the checkpoint version copy. Key: 1 Residency: The JOE is a checkpoint resident control block. Virtual storage is anywhere (below or above 16M) in the JES2 address space for the JES2 main copy.
Size:	See JOESIZE.
Created by:	JES2 Initialization allocates memory for the pool of JOEs. The checkpoint versions subtask creates the dataspace copies. The $#ADD service routine creates elements within the pool.

$JOE Heading Information

Pointed to by:

The following fields contain indexes to $JOEs from the address in field $JOTABLE in the $HCT data area. The offsets are converted to addresses by adding the value in $JOTABLE to the offset. The indexes are converted to addresses by multipling by JOESIZE and then adding the value in $JOTABLE to the calculated offset.
JOTFREQI field of the $JOT data area
JOTCHRQI field of the $JOT data area
JOTPRGQI field of the $JOT data area
JOTHLDQI field of the $JOT data area
JOTCLSQI field of the $JOT data area
JOTNTWQI field of the $JOT data area
JQEJOEI field of the $JQE data area
JOENEXTI field of the $JOE data area
JOEPREVI field of the $JOE data area
JOENXJQI field of the $JOE data area
JOECHARI field of the $JOE data area
JOECHNXI field of the $JOE data area
JOEWKPTI field of the $JOE data area

The following fields contain offsets to $JOEs:
PSOWKOFF field of the $PSO data area
PSOCHOFF field of the $PSO data area
JOENETCH field of the $JOE data area

The following fields contain addresses of $JOEs:
PQEJWJOE field of the $PQE data area
PQEDWJOE field of the $PQE data area
PQHXJOE field of the $PQH data area

Various fields in the processor work areas and parameter lists contain offsets or addresses of JOEs.

Serialization:

The JES2 checkpoint ($QSUSE) for change, the owning job's job lock for selection. JOEs in the main copy of the checkpoint may not be examined by anything other than the JES2 main task since they could be changing, they may be page-released or they may be all zeros.
WORK JOEs are managed by the $DOGJOE service. This provides encapsulation services that can be used to isolate code from future changes. In addition, a lock (the BERT lock) is used to serialize updates to work JOEs (CHAR JOEs should never be updated except by the appropriate $# service). With the exception of a few bits, you must obtain an update mode JOA before making any updates to a work JOE.

Function: The JOE control block represents group of sysout data sets (PDDBs) with compatible output grouping characteristics. It is a checkpointed control block that represents queued and active output work. There are two main types of JOEs, work JOEs and characteristics JOEs. Work JOEs are the queue elements used to select, hold, track, etc. an output group. The chains that are run to select output work are those of work JOEs. Work JOEs contain attributes of JOEs that vary frequently such as class, record counts and page counts. One characteristics JOE exists for each unique combination of other characteristics not in the work JOE that vary less frequently such as userid, writer id and security label for all the JOEs in the MAS. One characteristics JOE may represent multiple work JOEs.
The work JOEs are chained by SYSOUT classes, from anchors in the Job Output Table (JOT). The JOT anchors are in the CKPT, located in the front of the section for the JOEs.
The JOEs written to the checkpoint exist in multiple copies: main and I/O checkpoint areas. The main and I/O CKPT areas in storage each have a copy, and are in subpool 0. There may be 1 or more versions in the CKPT Versions dataspace as well.
Copies of JOEs may be made in other control blocks, for example in the JIB that flows through the FSS output logic in an FSS address space (copied from the JES2 address space).

$JOE mapping

Table 248. Structure JOE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JOE	JOB OUTPUT ELEMENT DSECT
0	(0)	X'0'	0	JOA	"JOE,0,C'J'" JOE is sometimes a JOA
0	(0)	X'8'	0	JOEVRSN	"8" JOE control block version
Work JOE starts here					
0	(0)	X'0'	0	JOEWSTRT	"*,0,C'J'" Start of work JOE area
0	(0)	BITSTRING	1	JOETYPE	JOE TYPE
		1...		JOEWORK	"B'10000000'" THIS IS A WORK JOE
		.1..		JOECHARJ	"B'01000000'" THIS IS A CHAR JOE
		11..		JOEFREE	"B'11000000'" THIS IS A FREE JOE
		..1.		JOEINDEX	"B'00100000'" This is an index JOE
0	(0)	X'0'	0	JOEWB1	"JOE,*-JOE,C'X'" 1st work JOE block
1	(1)	ADDRESS	3	JOENEXTI	Next WORK-JOE in class q or next CHAR-JOE (index) or next index JOE (index)
4	(4)	BITSTRING	1	JOECURCL	JOE CURRENT SYSOUT CLASS (reserved in the CHAR JOE)

Table 248. Structure JOE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	X'4'	0	JOEWB2	"JOECURCL,*-JOECURCL,C'X'" 2nd work JOE block
		When the JOE is the first JOE on the queue, the right-most 23 bits of the JOEPREVI value will be the offset of the JOT queue head representing the "0th" JOE. The left-most bit will be on to indicate it is an offset and not an index.			
5	(5)	ADDRESS	3	JOEPREVI	Previous WORK-JOE in class queue or previous CHAR-JOE (index)
8	(8)	BITSTRING	1	JOEFLAG5	Common area JOE flag byte
		1		JOE5RBLD	"B'00000001'" This JOE is on the Rebuild queue
		.... ..1.		JOE5ZAP	"B'00000010'" JOE (and JQE) zapped by ZAPJOB
8	(8)	X'8'	0	JOEWB3	"JOEFLAG5,*-JOEFLAG5,C'X'" 3rd work JOE block
9	(9)	BITSTRING	3		Reserved for future use
12	(C)	BITSTRING	1	JOEFLAG1	WORK-JOE FLAGS
		1...		JOE1CKV	"B'10000000'" CHECKPOINT ELEMENT VALID FLAG
		.1..		JOE1SPIN	"B'01000000'" SPIN JOE FLAG
		..1.		JOE1PRT	"B'00100000'" JOE ON-PRINTER FLAG
		...1		JOE1PUN	"B'00010000'" JOE ON-PUNCH FLAG
		.... 1...		JOE1CJES	"B'00001000'" ckpted by JES (not by FSS). If JOE is interrupted and later processed by FSS, bit indicates to invalidate ckpt + reset counts
		JOE1CPDS is set on when a JOE is built and when PDDBs are grouped into the JOE. JOE1CPDS is never turned off even if there are no more PDDBs with PDB3PAGE on			
		.... .1..		JOE1CPDS	"B'00000100'" One or more PDDBs within this JOE are Page mode (i.e. PDB3PAGE is on)
		JOE1CTKN is set on when a JOE is built if a PDDB being represented by the JOE has a client token associated with it (a client token was returned on the dynamic allocation for the SYSOUT data set represented by the PDDB).			
		.... ..1.		JOE1CTKN	"B'00000010'" A PDDB within this JOE has a client token associated with it(i.e. PDB9CTKN on)
		1		JOE1ART	"B'00000001'" This is an artifical JOE
13	(D)	ADDRESS	3	JOEJQEI	JQE for this JOE (index)
16	(10)	BITSTRING	1	JOEFLAG2	MORE WORK JOE FLAGS
		1...		JOE2TCEL	"B'10000000'" TRACK-CELL JOE FLAG
		.1..		JOE2DMND	"B'01000000'" DEMAND-SETUP JOE FLAG

Table 248. Structure JOE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		JOE2SYSN	"B'00100000'" SYSTEM GENERATED JOE NAME FLAG
		...1		JOE2CLNE	"B'00010000'" SET MULTIPLE COPIES OF THIS JOE
		.... 1...		JOE2UPRI	"B'00001000'" USER SPECIFY PRIORITY FLAG
		.... .1..		JOE2IPAD	"B'00000100'" Destination is in IP-format
		.... ..1.		JOE2NUNK	"B'00000010'" Tokens are NJE unknown user
		1		JOE2UNSP	"B'00000001'" JOE CREATED BY UNSPUN PROC
16	(10)	X'C'	0	JOEWB4	"JOEFLAG1,*-JOEFLAG1,C'X'" 4th work JOE block
17	(11)	ADDRESS	3	JOENXJQI	Next WORK-JOE with same job (index)
20	(14)	BITSTRING	1	JOEFLAG3	THIRD WORK JOE FLAG
		1...		JOE3CPER	"B'10000000'" PERM I/O ERROR ON CHK SPOOL REC
		.1..		JOE3IOTV	"B'01000000'" JOE'S IOT HAS BEEN WRITTEN
		..1.		JOE3NWTG	"B'00100000'" GET NEW TRK GRP FOR CHK
20	(14)	X'10'	0	JOE3TODP	"$ODPURGE" JOE IS OUTDISP=PURGE
		The 4 following bits must match definitions in STATSSL3/ESWPSSL3.			
20	(14)	X'8'	0	JOE3TODW	"$ODWRITE" JOE IS OUTDISP=WRITE
20	(14)	X'4'	0	JOE3TODH	"$ODHOLD" JOE IS OUTDISP=HOLD
20	(14)	X'2'	0	JOE3TODK	"$ODKEEP" JOE IS OUTDISP=KEEP
20	(14)	X'1'	0	JOE3TODL	"$ODLEAVE" JOE IS OUTDISP=LEAVE
20	(14)	X'1F'	0	JOE3TODA	"$ODANYWP" ALL OUTDISP BIT SETTINGS
20	(14)	X'14'	0	JOEWB5	"JOEFLAG3,*-JOEFLAG3,C'X'" 5th work JOE block
21	(15)	ADDRESS	3	JOECHARI	Characteristic JOE for this WORK-JOE (index)
24	(18)	BITSTRING	1	JOEOFFSL	OFFLOAD SELECT BYTE
24	(18)	X'18'	0	JOEWB6	"JOEOFFSL,*-JOEOFFSL,C'X'" 6th work JOE block
25	(19)	ADDRESS	3	JOECHNXI	Next WORK-JOE, same CHAR (index)
28	(1C)	BITSTRING	1	JOEFLAG4	FOURTH WORK JOE FLAG
		1...		JOE4JNEW	"B'10000000'" JESNEWS JOE FLAG
		.1..		JOE4CRTM	"B'01000000'" JOECRTME update pending
		..1.		JOE4DAUG	"B'00100000'" JOE created from daughter spin IOT
		...1		JOE4DSCT	"B'00010000'" Valid DSCT in spin IOT
		.... 1...		JOE4PRIO	"B'00001000'" Installation set Priority
		.... .1..		JOE4DSID	"B'00000100'" DSID= 3540 HELD DATA SET

Table 248. Structure JOE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ..1.		JOE4NPSO	"B'00000010'" JOE IS NOT AVAILABLE TO PSO
		1		JOE4PRST	"B'00000001'" JOE priority has been set by $#BLD
		Flag byte JOEFLGT2 is used by various processors (HASPFSSM, HASPNST, HASPPRPU, HASPPSO) to determine whether or not to update the corresponding PDDBs, hence causing the PDDBs to be re-grouped. These flags are currently being set by both $TO and $R command processing.			
29	(1D)	BITSTRING	1	JOEFLGT2	Indications of JOE modified by operator commands, JOE fields should override corresponding fields in PDDB. See also JOEFLAGT.
		.1..		JOE2TUSE	"B'01000000'" Userid changed via commands
		..1.		JOETPSOC	"B'00100000'" JOE created by PSO/SAPI
		...1		JOETPSOA	"B'00010000'" PSO/SAPI added PDDB to JOE
		.... 1...		JOETPSOD	"B'00001000'" PSO/SAPI deleted PDDB from JOE
30	(1E)	BITSTRING	1	JOEHOLD	JOE hold type (also called JOE blocked type)
OHLDOPER B'10000000' Operator HOLD/blocked OHLDSYS B'00100000' System HOLD/blocked OHLDALL B'11111111' ALL HOLD/blocked					
31	(1F)	BITSTRING	1	JOEHSRSN	System HOLD/blocked reason
OHLDJX01 X'01' FSI RELDS UNPRINTABLE SWB ERROR OHLDJX02 X'02' FSI RELDS UNPRINTABLE FSA OHLDJX03 X'03' SAF CALL FAILED IN HASPPRPU OHLDJX04 X'04' TRANSMISSION FAILED IN HASPNET OHLDJX05 X'05' NJE Hop Count Exceeded OHLDJX06 X'06' Held by Sysout API OHLDJX07 X'07' JCT/IOT I/O error (SAPI) OHLDJ233 X'33' OFFLOAD WITH HOLD OHLDJ234 X'34' PROGRAM CHECK IN HASPPRPU OHLDJ235 X'35' PROGRAM CHECK IN USER EXIT OHLDJ236 X'36' PROGRAM CHECK IN SWBTUREQ					
32	(20)	SIGNED	4	JOEFSID	FSID IF JOE ACTIVE ON AN FSA
32	(20)	X'20'	0	JOEFSSID	"JOEFSID,2,C'H'" FSS ID
32	(20)	X'22'	0	JOEFSAID	"JOEFSID+2,2,C'H'" FSA ID
32	(20)	X'20'	0	JOENETCH	"JOEFSID,4,C'A'" Offset of next JOE on SYSOUT transmitter chain
36	(24)	SIGNED	2	JOEPRIO	JOE PRIORITY X'0000' - X'0FF0'
38	(26)	SIGNED	2	JOEJNEWL	JESNEWS number for JESNEWS
40	(28)	SIGNED	4	JOECPADR_Z2	CKPT SPOOL record addr (MTTR) z2 mode only (reserved in z11 mode)
		THESE FIELDS MUST BE KEPT TOGETHER			
44	(2C)	BITSTRING	4	JOERECCT	TOTAL RECORD COUNT
48	(30)	BITSTRING	4	JOEPGCT	TOTAL PAGE RECORD COUNT
52	(34)	BITSTRING	4	JOEWRECN	NUM OF RECS PROCESSED SO FAR

Table 248. Structure JOE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
56	(38)	BITSTRING	4	JOEWPAGN	NUM OF PAGES PROCESSED SO FAR
	END OF SECTION THAT MUST BE KEPT TOGETHER				
60	(3C)	SIGNED	4	JOEIOTTR_Z2	JOE IOT track addr (MTTR) z2 mode only (reserved in z11 mode)
64	(40)	BITSTRING	3	JOEDEVID	USER DEVICE IDENTIFICATION
	Flag byte JOEFLAGT is used by various processors (HASPFSSM, HASPNST, HASPPRPU, HASPPSO) to determine whether or not to update the corresponding PDDBs, hence causing the PDDBs to be re-grouped. These flags are currently being set by both $TO and $R command processing.				
67	(43)	BITSTRING	1	JOEFLAGT	Indications of JOE modified by operator commands, JOE fields should override corresponding fields in PDDB. See also JOEFLGT2.
	1...			JOEFTMOD	"B'10000000'" JOE overrides PDDB settings or network data set header settings
	.1..			JOEFTFMS	"B'01000000'" FORMS CHANGED
	..1.			JOEFTFCB	"B'00100000'" FCB CHANGED
	...1			JOEFTUCS	"B'00010000'" UCS CHANGED
	.... 1...			JOEFTWRT	"B'00001000'" WRITER CHANGED
	.... .1..			JOEFTFLH	"B'00000100'" FLASH CHANGED
	.... ..1.			JOEFTBRT	"B'00000010'" BURST CHANGED
	1			JOEFTPRM	"B'00000001'" PRMODE CHANGED
68	(44)	SIGNED	4	JOEROUT(0)	REMOTE ID OF DATA
68	(44)	SIGNED	2	JOERNODE	NODE NUMBER
70	(46)	SIGNED	2	JOEREMOT	REMOTE NUMBER
70	(46)	X'46'	0	JOERUNIT	"JOEREMOT" UNIT ADDRESS
72	(48)	CHARACTER	12	JOEID(0)	JOE IDENTIFICATION BLOCK
72	(48)	CHARACTER	8	JOENAME	JOE'S OUTPUT GROUP NAME
72	(48)	X'4F'	0	JOESGNB1	"JOENAME+7" JOENAME SIGN NIBBLE FOR EBCDIC
80	(50)	SIGNED	2	JOEID1	JOE'S OUTPUT GROUP 1ST ID
82	(52)	SIGNED	2	JOEID2	JOE'S OUTPUT GROUP 2ND ID
84	(54)	SIGNED	4	JOECRTME	JOE CREATION TIME
88	(58)	CHARACTER	8	JOECRUID	Creator userid for Dataset
96	(60)	SIGNED	4	JOEBERTT	Token representing the BERTS for this JOE (In z11 mode)
96	(60)	X'60'	0	JOESWBOT_Z2	"JOEBERTT,4,C'X'" Track address of JOE SWBIT chain for SWBTU overrides (MTTR) z2 mode only
100	(64)	BITSTRING	1	JOEBUSY	JOE busy system id
101	(65)	SIGNED	3	JOEFAMLY	Mother/Daughter Family ID
101	(65)	X'1C'	0	JOEWB7	"JOEFLAG4,*-JOEFLAG4,C'X'" 7th work JOE block
104	(68)	SIGNED	4	JOE1END(0)	END OF WORK-JOE
104	(68)	X'68'	0	JOEWSIZE	"*-JOEWSTRT" Size of Work JOE
	CHAR JOE starts here				
104	(68)	X'68'	0	JOECSTRT	"*,0,C'J'" Start of CHAR JOE area

Table 248. Structure JOE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
104	(68)	BITSTRING	1	JCETYPE	JOETYPE JOE Type
104	(68)	X'68'	0	JOECB1	"JOECSTRT,*-JOECSTRT,C'X'" 1st CHAR JOE block
105	(69)	ADDRESS	3	JCENEXTI	JOENEXTI Next CHAR-JOE
108	(6C)	BITSTRING	1	JOECR2	Reserved
108	(6C)	X'6C'	0	JOECB2	"JOECR2,*-JOECR2,C'X'" 2nd CHAR JOE block
		When the JOE is the first JOE on the queue, the right-most 23 bits of the JOEPREVI value will be the offset of the JOT queue head representing the "0th" JOE. The left-most bit will be on to indicate it is an offset and not an index.			
109	(6D)	ADDRESS	3	JCEPREVI	JOEPREVI Previous CHAR-JOE
112	(70)	BITSTRING	1	JCEFLAG5	JOEFLAG5 Common area JOE flag byte
112	(70)	X'70'	0	JOECB3	"JCEFLAG5,*-JCEFLAG5,C'X'" 3rd CHAR JOE block
113	(71)	BITSTRING	3		Reserved for future use
116	(74)	BITSTRING	1	JOECR4	Reserved - Do not use. This allows us to use JOE1ART directly for an art JOE check instead of having to check JOETYPE first.
116	(74)	X'74'	0	JOECB4	"JOECR4,*-JOECR4,C'X'" 4th CHAR JOE block
117	(75)	ADDRESS	3	JOEWKPTI	WORK-JOE with like CHAR-JOE (index)
		IF YOU ADD OR DELETE SETUP FIELDS, YOU MUST UPDATE THE EQUATES FOR THE $D F COMMAND IN HASPCOMM			
120	(78)	CHARACTER	8	JOEFORM	FORMS NAME
128	(80)	CHARACTER	4	JOEFCB	FCB NUMBER
132	(84)	CHARACTER	4	JOEUCS	UCS NUMBER
136	(88)	CHARACTER	8	JOEWTRID	DATA SET EXTERNAL WRITER NAME
144	(90)	CHARACTER	8	JOEUSER	USER ID
152	(98)	CHARACTER	4	JOEFLASH	OVERLAY-FRAME
156	(9C)	CHARACTER	8	JOEPRMD	PROCESS MODE OF THIS JOE
164	(A4)	CHARACTER	8	JOESECLB	Security label for Dataset
172	(AC)	BITSTRING	1	JOEFLAGC	CHARACTERISTICS FLAGS
		1...		JOEFCBRT	"B'10000000'" BURST=YES FLAG
173	(AD)	BITSTRING	1	JOEFLAGD	DEMAND CHARACTERISTIC FLAGS
		1...		JOEFDFMS	"B'10000000'" FORMS DEMAND '0' NO '1' YES
		.1..		JOEFDFLH	"B'01000000'" FLASH DEMAND '0' NO '1' YES
		..1.		JOEFDFCB	"B'00100000'" FCB DEMAND '0' NO '1' YES
		...1		JOEFDUCS	"B'00010000'" UCS DEMAND '0' NO '1' YES
		.... 1...		JOEFDBRT	"B'00001000'" BURST DEMAND '0' NO '1' YES
173	(AD)	X'78'	0	JOESETUP	"JOEFORM,*-JOEFORM" DEVICE SETUP CHARACTERISTICS
174	(AE)	BITSTRING	2		RESERVED FOR FUTURE USE

Table 248. Structure JOE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
174	(AE)	X'78'	0	JOECB5	"JOEFORM,*-JOEFORM,C'X'" 5th CHAR JOE block
176	(B0)	SIGNED	4	JOEUSE	# OF JOES USING THIS ELEMENT
180	(B4)	SIGNED	4	JOE2END(0)	END OF CHAR-JOE
180	(B4)	X'4C'	0	JOECSIZE	"*-JOECSTRT" Size of Char JOE
		Set length to be 2 times the longer of the WORK or CHAR JOE.			
0	(0)	BITSTRING	208		Define 2 WORK JOEs length
0	(0)	BITSTRING	152		Define 2 CHAR JOEs length
208	(D0)	X'68'	0	JOESIZE	"(*-JOE)/2" Size of CKPTed JOE area
		JOE extension (JOX) The following fields appear only within an artificial JOE. Artificial JOEs are constructed using the $DOGJOE service.			
208	(D0)	SIGNED	4	JOX(0)	Start of JOE extension
208	(D0)	BITSTRING	6	JOXSWBOT	Track address of JOE SWBIT chain for SWBTU overrides (MQTR)
214	(D6)	BITSTRING	6	JOXCPADR	CKPT SPOOL record addr
220	(DC)	BITSTRING	6	JOXIOTTR	JOE IOT track addr
226	(E2)	BITSTRING	1	JOXFLAG1	JOX Flags
		1...		JOXTRNCK	"B'10000000'" This JOE has been checked for transaction data since last z2 to z11 activation.
226	(E2)	X'D0'	0	JOXSB1	"JOX,*-JOX,C'X'" 1st work JOX block
227	(E3)	BITSTRING	1		Reserved
228	(E4)	ADDRESS	3	JOXPRVWR	Index of prev JOE in primary node JOE-chain
231	(E7)	ADDRESS	3	JOXNXTWR	Index of next JOE in primary node JOE-chain
234	(EA)	BITSTRING	2		Reserved
236	(EC)	SIGNED	4		Reserved
240	(F0)	SIGNED	4	JOE3END(0)	End of JOX area
240	(F0)	X'20'	0	JOXSIZE	"*-JOX" Size of the JOX
		Local JOE fields (never written to the checkpoint)			
240	(F0)	ADDRESS	4	JOELCHAN	JOA chain pointer
244	(F4)	SIGNED	2	JOEDLEN	Length of JOA
246	(F6)	SIGNED	2		Reserved
		JOE fields backed by BERTs (only valid in z11 mode) Fields in this section are associated with work JOEs and are filled in by the $DOGJOE/$DOGBERT services.			
248	(F8)	SIGNED	4	JOEBERTS(0)	Start of BERT JOE area
248	(F8)	CHARACTER	8	JBETRJBN	Transaction job name
256	(100)	CHARACTER	8	JBETRWKI	Transaction work unit id
264	(108)	CHARACTER	8	JBETROWN	Transaction owner userid
264	(108)	X'F8'	0	JBETRANS	"JBETRJBN,*-JBETRJBN" Section definition field
		JBESAPI is supplied by SAPI support when a JOE is selected by a SAPI application.			

Table 248. Structure JOE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
272	(110)	CHARACTER	8	JBEANAME	SAPI application job name
280	(118)	CHARACTER	8	JBEAPPL	SAPI application name
280	(118)	X'110'	0	JBESAPI	"JBEANAME,*-JBEANAME" SAPI section
280	(118)	X'28'	0	JBEMAINL	"*-JOEBERTS" Length of BERT section
280	(118)	X'120'	0	JOASIZE	"*-JOA" Length of artificial JOE

Table 249. Structure JOEINDX

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JOEINDX	Index JOE
0	(0)	BITSTRING	1	JIETYPE	See JOE type
1	(1)	ADDRESS	3	JIENEXTI	Next Index-JOE (JOE index)
4	(4)	SIGNED	4	JIEPRSTR(0)	Primary node start
4	(4)	X'4'	0	JIEHDRSZ	"*-JOEINDX" Index JOE header size
4	(4)	BITSTRING	1	JIVIEWS	Index JOE area housing indexing mechanisms.

Table 250. Structure PRIMARYN

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PRIMARYN	Primary node definition
0	(0)	SIGNED	4	PRILEFT	Offset left subtree node
4	(4)	SIGNED	4	PRIRIGHT	Offset right subtree node
8	(8)	BITSTRING	1	PRIBALF	Balance factor
9	(9)	BITSTRING	1	PRIFLAG	Flag
10	(A)	BITSTRING	3		Alignment/reserved
13	(D)	ADDRESS	3	PRICHAIN	JOE Chain - Index of first work JOE
		Following is the JOE-chain time stamp field. This field has three different possible value: -- If JOE-chain not empty then this is time of last work_JOE add. -- If JOE-chain empty and time not zero then this is time of last work JOE remove.			
16	(10)	SIGNED	4	PRITSTMP	JOE-chain time stamp field
16	(10)	X'14'	0	PRIMFIX	"*-PRILEFT" Length of primary node fixed portion
		Primary key located in index JOE. Configuration is kept in JAX and should only be referenced through JAX. Here for useful information purposes.			
20	(14)	BITSTRING	1	PRIMKEY(0)	Primary key
20	(14)	BITSTRING	1	PRICLASS	JOE sysout class
21	(15)	BITSTRING	12	PRIDEST	JOE destination
33	(21)	BITSTRING	1	PRIDISP	JOE disposition

Table 251. Structure ALTNODE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ALTNODE	Alternate node definition
0	(0)	SIGNED	4	ALTLEFT	Offset left subtree node
4	(4)	SIGNED	4	ALTRIGHT	Offset right subtree node
8	(8)	BITSTRING	1	ALTBALF	Balance factor
		Chain of index JOEs with some portion of primary key satisfying this alternate node. This is not a circular chain - the master alternate node is the head and its previous JOE index is always zeroes.			
9	(9)	ADDRESS	3	ALTPRVIN	Previous index JOE - index
12	(C)	ADDRESS	3	ALTNXTIN	Next index JOE - index
15	(F)	BITSTRING	1	ALTFLAG	Implementation specific flags
		1...		ALTMAST	"B'10000000'" This is master alternate node - denotes THIS node is in actual AVL tree and will not be deleted unless entire tree is rebuilt. This node's - JOE index chain is the head.
		.1..		ALTOVERF	"B'01000000'" Number index JOEs chained to master currently will overflow JOE priority array located within the JOX.
		..1.		ALIINJOX	"B'00100000'" Alternate node resides in index JOE -> JOX
15	(F)	X'10'	0	ALNODESZ	"*-ALTNODE" Alternate node size

Table 252. Structure JOECNT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JOECNT	, JOE count array
0	(0)	CHARACTER	8	JOECNM1	JOE type 1 (work)
8	(8)	SIGNED	4	JOECNR1	Number of JOEs of this type
8	(8)	X'C'	0	JOECLEN	"*-JOECNT" Size of one entry
12	(C)	CHARACTER	8	JOECNM2	JOE type 2 (char)
20	(14)	SIGNED	4	JOECNR2	Number of JOEs of this type
24	(18)	CHARACTER	8	JOECNM3	JOE type 3 (index)
32	(20)	SIGNED	4	JOECNR3	Number of JOEs of this type
36	(24)	CHARACTER	8	JOECNM4	JOE type 4 (free)
44	(2C)	SIGNED	4	JOECNR4	Number of JOEs of this type
48	(30)	CHARACTER	8	JOECNM5	JOE type 5 (invalid)
56	(38)	SIGNED	4	JOECNR5	Number of JOEs of this type
56	(38)	X'3C'	0	JOECARSZ	"*-JOECNT" Size of a full array

Table 253. Cross Reference for $JOE

Name	Offset	Hex Tag
ALIINJOX	F	20
ALNODESZ	F	10
ALTBALF	8	
ALTFLAG	F	
ALTLEFT	0	

Table 253. Cross Reference for $JOE (continued)

Name	Offset	Hex Tag
ALTMAST	F	80
ALTNODE	0	
ALTNXTIN	C	
ALTOVERF	F	40
ALTPRVIN	9	
ALTRIGHT	4	
JBEANAME	110	
JBEAPPL	118	
JBEMAINL	118	28
JBESAPI	118	110
JBETRANS	108	F8
JBETRJBN	F8	
JBETROWN	108	
JBETRWKI	100	
JCEFLAG5	70	
JCENEXTI	69	
JCEPREVI	6D	
JCETYPE	68	
JIEHDRSZ	4	4
JIENEXTI	1	
JIEPRSTR	4	
JIETYPE	0	
JIVIEWS	4	
JOA	0	0
JOASIZE	118	120
JOE	0	
JOEBERTS	F8	
JOEBERTT	60	
JOEBUSY	64	
JOECARSZ	38	3C
JOECB1	68	68
JOECB2	6C	6C
JOECB3	70	70
JOECB4	74	74
JOECB5	AE	78
JOECHARI	15	
JOECHARJ	0	40
JOECHNXI	19	
JOECLEN	8	C
JOECNM1	0	
JOECNM2	C	
JOECNM3	18	
JOECNM4	24	
JOECNM5	30	
JOECNR1	8	
JOECNR2	14	
JOECNR3	20	
JOECNR4	2C	
JOECNR5	38	

Table 253. Cross Reference for $JOE (continued)

Name	Offset	Hex Tag
JOECNT	0	
JOECPADR_Z2	28	
JOECRTME	54	
JOECRUID	58	
JOECR2	6C	
JOECR4	74	
JOECSIZE	B4	4C
JOECSTRT	68	68
JOECURCL	4	
JOEDEVID	40	
JOEDLEN	F4	
JOEFAMLY	65	
JOEFCB	80	
JOEFCBRT	AC	80
JOEFDBRT	AD	8
JOEFDFCB	AD	20
JOEFDFLH	AD	40
JOEFDFMS	AD	80
JOEFDUCS	AD	10
JOEFLAGC	AC	
JOEFLAGD	AD	
JOEFLAGT	43	
JOEFLAG1	C	
JOEFLAG2	10	
JOEFLAG3	14	
JOEFLAG4	1C	
JOEFLAG5	8	
JOEFLASH	98	
JOEFLGT2	1D	
JOEFORM	78	
JOEFREE	0	C0
JOEFSAID	20	22
JOEFSID	20	
JOEFSSID	20	20
JOEFTBRT	43	2
JOEFTFCB	43	20
JOEFTFLH	43	4
JOEFTFMS	43	40
JOEFTMOD	43	80
JOEFTPRM	43	1
JOEFTUCS	43	10
JOEFTWRT	43	8
JOEHOLD	1E	
JOEHSRSN	1F	
JOEID	48	
JOEID1	50	
JOEID2	52	
JOEINDEX	0	20
JOEINDX	0	

Table 253. Cross Reference for $JOE (continued)

Name	Offset	Hex Tag
JOEIOTTR_Z2	3C	
JOEJNEWL	26	
JOEJQEI	D	
JOELCHAN	F0	
JOENAME	48	
JOENETCH	20	20
JOENEXTI	1	
JOENXJQI	11	
JOEOFFSL	18	
JOEPGCT	30	
JOEPREVI	5	
JOEPRIO	24	
JOEPRMD	9C	
JOERECCT	2C	
JOEREMOT	46	
JOERNODE	44	
JOEROUT	44	
JOERUNIT	46	46
JOESECLB	A4	
JOESETUP	AD	78
JOESGNB1	48	4F
JOESIZE	D0	68
JOESWBOT_Z2	60	60
JOETPSOA	1D	10
JOETPSOC	1D	20
JOETPSOD	1D	8
JOETYPE	0	
JOEUCS	84	
JOEUSE	B0	
JOEUSER	90	
JOEVRSN	0	8
JOEWB1	0	0
JOEWB2	4	4
JOEWB3	8	8
JOEWB4	10	C
JOEWB5	14	14
JOEWB6	18	18
JOEWB7	65	1C
JOEWKPTI	75	
JOEWORK	0	80
JOEWPAGN	38	
JOEWRECN	34	
JOEWSIZE	68	68
JOEWSTRT	0	0
JOEWTRID	88	
JOE1ART	C	1
JOE1CJES	C	8
JOE1CKV	C	80
JOE1CPDS	C	4

Table 253. Cross Reference for $JOE (continued)

Name	Offset	Hex Tag
JOE1CTKN	C	2
JOE1END	68	
JOE1PRT	C	20
JOE1PUN	C	10
JOE1SPIN	C	40
JOE2CLNE	10	10
JOE2DMND	10	40
JOE2END	B4	
JOE2IPAD	10	4
JOE2NUNK	10	2
JOE2SYSN	10	20
JOE2TCEL	10	80
JOE2TUSE	1D	40
JOE2UNSP	10	1
JOE2UPRI	10	8
JOE3CPER	14	80
JOE3END	F0	
JOE3IOTV	14	40
JOE3NWTG	14	20
JOE3TODA	14	1F
JOE3TODH	14	4
JOE3TODK	14	2
JOE3TODL	14	1
JOE3TODP	14	10
JOE3TODW	14	8
JOE4CRTM	1C	40
JOE4DAUG	1C	20
JOE4DSCT	1C	10
JOE4DSID	1C	4
JOE4JNEW	1C	80
JOE4NPSO	1C	2
JOE4PRIO	1C	8
JOE4PRST	1C	1
JOE5RBLD	8	1
JOE5ZAP	8	2
JOX	D0	
JOXCPADR	D6	
JOXFLAG1	E2	
JOXIOTTR	DC	
JOXNXTWR	E7	
JOXPRVWR	E4	
JOXSB1	E2	D0
JOXSIZE	F0	20
JOXSWBOT	D0	
JOXTRNCK	E2	80
PRIBALF	8	
PRICHAIN	D	
PRICLASS	14	
PRIDEST	15	

Table 253. Cross Reference for $JOE (continued)

Name	Offset	Hex Tag
PRIDISP	21	
PRIFLAG	9	
PRILEFT	0	
PRIMARYN	0	
PRIMFIX	10	14
PRIMKEY	14	
PRIRIGHT	4	
PRITSTMP	10	

Chapter 116. $JOEIWRK Information

$JOEIWRK Heading Information

Common Name:	JES2 JOEI (JOEINDEX Service) Processor
Macro ID:	$JOEIWRK
DSECT Name:	PCE ($JOEIWRK is part of the PCE DSECT)
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4
Storage Attributes:	Subpool: See $PCE Key: See $PCE Residency: See $PCE
Size:	See symbol JOIPCEWL for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by:	See $PCE
Pointed to by:	The $JOEIPCE field of the $HCT data area points into the $PCEORG/$PCELAST chain to the JOEI PCE. Since this chain contains all PCEs, use the PCEID field to determine when you have chained past the last PCE of this type. See $PCE for other pointer fields that apply to all PCE types.
Serialization:	Normal PCE dispatch serialization
Function:	The fields in this work area are used by a JES2 JOEINDEX processor and by its support routine/exits. $JOEIWRK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $JOEIWRK are actually part of PCE DSECT, but only map PCEs with the value PCEJOIID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

$JOEIWRK mapping

Table 254. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
320	(140)	BITSTRING	12	JOEICTQE	HASP Timer Queue Element
332	(14C)	BITSTRING	1	JOEIFLAG	JOEIWRK flag
		1...		JOEIACTV	"B'10000000'" Timer Active
333	(14D)	BITSTRING	3		Alignment
336	(150)	SIGNED	4		Reserved for future use
344	(158)	DBL WORD	8	(0)	Alignment
344	(158)	X'18'	0	JOIPCEWL	"*-PCEWORK" Length of JOEI PCE

Chapter 117. $JOT Information

$JOT Programming Interface Information

$JOT is a programming interface.

$JOT Heading Information

Common Name: Job Output Table
Macro ID: $JOT
DSECT Name: JOT
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'JOT '
Offset: JOTID-JOT
Length: 4
Storage Attributes: Subpool: 0 for the JES2 main copy;
dataspace for the checkpoint version copy.
Key: 1
Residency: The JOT is a checkpoint resident control block.
Virtual storage is anywhere (below or above 16M)
in the JES2 address space for the JES2 main copy.

Size: See JOESIZE.
Created by: JES2 Initialization allocates memory for the JOT.
The checkpoint versions subtask creates the
dataspace copies.
Pointed to by: $JOTABLE field of the $HCT data area
KACJOTP field of the $KAC data area
Serialization: The JES2 checkpoint ($QSUSE) for change. The copy
of the JOT in the main copy of the checkpoint may
not be examined by anything other than the JES2
main task since it could be changing, it may be
page-released or it may be all zeros
Function: The JOT control block contains the headers to all
the job output queues and contains all the Job
Output Elements (JOEs). See $JOE for more
information on JOEs.

$JOT mapping

Table 255. Structure JOT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JOT	JOB OUTPUT TABLE DSECT
0	(0)	CHARACTER	4	JOTID	JOB OUTPUT TABLE ID
4	(4)	SIGNED	4	JOTFREC	COUNT OF FREE JOES
8	(8)	ADDRESS	2	JOTCLMU	CLASS MULTIPLIER
10	(A)	SIGNED	2		RESERVED FOR FUTURE USE
12	(C)	ADDRESS	4	JOTCLSEN	SIZE OF CLASS QUEUE ENTRY
16	(10)	ADDRESS	4	JOTUSER1	USER FIELD ONE
20	(14)	ADDRESS	4	JOTUSER2	USER FIELD TWO
24	(18)	ADDRESS	4	JOTUSER3	USER FIELD THREE

Table 255. Structure JOT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
28	(1C)	ADDRESS	4	JOTUSER4	USER FIELD FOUR
		Queue head fields contain index of the first JOE in a respective queue.			
32	(20)	ADDRESS	4	JOTQHEAD(0)	Beginning of JOE q heads
32	(20)	ADDRESS	4	JOTFREQI	Queue of free JOEs
36	(24)	ADDRESS	4	JOTCHRQI	Queue of CHAR-JOEs
40	(28)	ADDRESS	4	JOTPRGQI	Queue of purge JOEs
		HOLD QUEUE - AVAILABLE FOR ANY OFFLOAD DEVICES			
44	(2C)	ADDRESS	4	JOTHLDQI	Queue of hold JOEs
		READY QUEUE - AVAILABLE FOR ANY PROCESSOR THAT IS ELIGIBLE TO SELECT JOES			
48	(30)	BITSTRING	0	JOTRDWQI(0)	Ready work JOE queues
48	(30)	ADDRESS	4	JOTNTWQI	Queue of network JOEs
52	(34)	ADDRESS	4	JOTCLSQI(0)	Queue of class WORK-JOEs
52	(34)	ADDRESS	4	(0)	OFFSET QUEUE OF CLASS WORK-JOES BY LOCAL AND NON-LOCAL DEST (QUEUE HEADS)
52	(34)	X'6D'	0	JOTNUMWQ	"(1+3*36)" NUMBER OF READY WORK QUEUE
52	(34)	X'1B0'	0	JOTCLSSZ	"(*-JOTCLSQI)" Size of class queue heads
52	(34)	X'4'	0	JOTHEADL	"4" LENGTH OF A CLASS QUEUE HEAD
52	(34)	X'8'	0	JOTPRHDL	"2*JOTHEADL" LENGTH OF PAIR OF CLASS Q HEADS
52	(34)	X'0'	0	JOTLQOFF	"0" OFFSET OF LCL Q FROM CLS
52	(34)	X'4'	0	JOTUQOFF	"JOTHEADL" OFFSET OF USER Q FROM CLS
52	(34)	X'8'	0	JOTRQOFF	"2*JOTHEADL" OFFSET OF REM Q FROM CLASS
52	(34)	X'C'	0	JOTTHEDL	"3*JOTHEADL" TOTAL LENGTH OF CLS Q HDS
484	(1E4)	ADDRESS	4	JOTRBLQI	JOE rebuild queue header
484	(1E4)	X'1C8'	0	JOTQUEL	"*-JOTQHEAD" Length of all JOE q headers
488	(1E8)	ADDRESS	4	JOTINEXQ	Queue of index JOEs. A JOE index
492	(1EC)	SIGNED	4		Reserved for future use
		Ensure JOT header size is exact multiple of JOE size. There cannot be anything between the next DC and JOTJOES.			
496	(1F0)	BITSTRING	1	(0)	
520	(208)	SIGNED	4	JOTJOES(0)	START OF JOB OUTPUT ELEMENTS
520	(208)	X'208'	0	JOTJOESO	"*-JOT" Offset of first real JOE
520	(208)	X'5'	0	JOTJOESI	"(*-JOT)/JOESIZE" Index of first real JOE
520	(208)	X'F4240'	0	JOTMXJOE_Z11	"1000000" Maximum number of JOEs for Z11 mode
520	(208)	X'2625A0'	0	JOTMXJOE	"2500000" Maximum number of JOEs for Z22 mode
520	(208)	X'4C48'	0	JOTFRJIX	"((JOTMXJOE+JOTJOESI)/x'200')*4" Local free JOE array size (see FREEJOE in HASPJOS for info)

Table 256. Cross Reference for $JOT

Name	Offset	Hex Tag
JOT	0	
JOTCHRQI	24	
JOTCLMU	8	
JOTCLSEN	C	
JOTCLSQI	34	
JOTCLSSZ	34	1B0
JOTFREC	4	
JOTFREQI	20	
JOTFRJIX	208	4C48
JOTHEADL	34	4
JOTHLDQI	2C	
JOTID	0	
JOTINEXQ	1E8	
JOTJOES	208	
JOTJOESI	208	5
JOTJOESO	208	208
JOTLQOFF	34	0
JOTMXJOE	208	2625A0
JOTMXJOE_Z11	208	F4240
JOTNTWQI	30	
JOTNUMWQ	34	6D
JOTPRGQI	28	
JOTPRHDL	34	8
JOTQHEAD	20	
JOTQUEL	1E4	1C8
JOTRBLQI	1E4	
JOTRDWQI	30	
JOTRQOFF	34	8
JOTTHEDL	34	C
JOTUQOFF	34	4
JOTUSER1	10	
JOTUSER2	14	
JOTUSER3	18	
JOTUSER4	1C	

Chapter 118. $JPAWORK Information

$JPAWORK Heading Information

Common Name:	JES2 Job Priority Aging PCE Work Area
Macro ID:	$JPAWORK
DSECT Name:	PCE ($JPAWORK is part of the PCE DSECT)
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4
Storage Attributes:	Subpool: See $PCE Key: See $PCE Residency: See $PCE
Size:	See symbol JPAPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by:	See $PCE
Pointed to by:	The $PRTYPCE field of the $HCT data area See $PCE for other pointer fields that apply to all PCE types.
Serialization:	Normal PCE dispatch serialization
Function:	The fields in this area are used by a JES2 Job Priority Aging Processor and by its support routines and exits. $JPAWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $JPAWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEJPAID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

$JPAWORK mapping

Table 257. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
320	(140)	BITSTRING	12	JPATQE	HASP Timer Queue Element
332	(14C)	SIGNED	4		Reserved for future use
336	(150)	DBL WORD	8	(0)	Force double-word alignment
336	(150)	X'10'	0	JPAPCEWS	"*-PCEWORK" Length of work area

Chapter 119. $JQE Information

$JQE Programming Interface Information

$JQE is a programming interface.

$JQE Heading Information

Common Name:	JES2 Job Queue Element
Macro ID:	$JQE
DSECT Name:	JQE
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	The pool of JQEs is preceded by an eyecatcher '**JQE POOL**' in the header for the pool. Offset: HDPID-HDP Length: 13
Storage Attributes:	Subpool: 0, 231, dataspace Key: 1 Residency: Virtual storage is anywhere (below or above 16M) in the JES2 address space. Real storage is anywhere.
Size:	JQEBLEN (base length) + 4*((SPOLNUM+31)/32) (size of the SPOOLS used mask which is dependent on the number of SPOOL volumes; 4 bytes for every 32 spool volumes) $JQELEN in the $HCT data area is the total length.
Created by:	Storage is obtained by HASPIRDA for the JES2 private version and by HASPCKVR for the data space versions. The control block is filled in by the $QADD service.

$JQE Heading Information

Pointed to by:

The following fields contain offsets (R4 level of the checkpoint) or indexes (z/OS 1.2 and later levels of the checkpoint) to $JQEs from the address in field $JOBQPTR in the $HCT data area. The offsets are converted to addresses by adding the value in $JOBQPTR to the offset. The indexes are converted to addresses by multiplying by $JQELEN and then adding the value in $JOBQPTR to the calculated offset.

CATQHDI field of the $CAT data area
$JQFREEI field of the $HCT data area
$JQHEADI field of the $HCT data area
$JQRBLDI field of the $HCT data area
JOEJQEI field of the $JOE data area
JQENEXTI field of the $JQE data area

The following fields contain offsets to $JQEs:

$NEWSJQE field of the $HCT data area
$SCQJQE field of the $HCT data area
IOTJQOFF field of the $IOT data area
JCTJQE field of the $JCT data area
PITJQOFF field of the $PIT data area
PSOJQEP field of the $PSO data area
QSEPRGJQ field of the $QSE data area
RATRMJQE field of the $RAT data area
SJBJQOFF field of the $SJB data area
TGBJQE field of the $TGB data area

The following fields contain addresses of $JQEs:

$JOBQPTR field of the $HCT data area
PCEJQE field of the $PCE data area

Various fields in the processor work areas and parameter lists contain offsets or addresses of JQEs.

Serialization:

The JES2 Checkpoint data set lock ($QSUSE), the job lock (in the JQE), and JQE1BUSY bits are used for serialization.

JQEs are managed by the $DOGJQE service. This provides encapsulation services that can be used to isolate code from future changes. In addition, a lock (the BERT lock) is used to serialize updates to a JQE. With the exception of a few bits, you must obtain an update mode JQA before making any updates to a JQE. There are some fields that are managed by the $DOGJQE service and can be set without the BERT lock for the job. The fields/bits and restrictions are:

JQE8NJIX Set/reset in JQE or JQA
JQE8RBLD Set/reset in JQE or JQA
JQE8NOQ Set/reset in JQE or JQA
JQE1PURG Set in JQE or JQA, connot turn off
JQE1OCAN Set in JQE or JQA, connot turn off
JQE4CAN Set in JQE or JQA, connot turn off
JQX1WLM Set/reset in real JQX only
JQX3JGCM Set in real JQX or JQA, connot turn off

Function: The job queue element is a control block that represents an element of work for the system (a job) and is moved from queue to queue as that work moves through each successive stage of JES2 processing.
The heads of the JES2 queues reside at $JQHEADI in the HCT. These queue heads are used when locating JQEs on a specific queue.
The JQEs are checkpointed control blocks. There are, therefore, at least two copies of each JQE in storage (the actual and I/O copies of the ckpt, in subpool 0). There may also 1 or more copies in the ckpt versions dataspace.

$JQE mapping

Table 258. Structure JQE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JQE	HASP JOB QUEUE ENTRY DSECT
0	(0)	X'0'	0	JQA	"JQE,0,C'J'" JQE is sometimes a JQA
0	(0)	X'8'	0	JQEVRSN	"8" JQE control block version
0	(0)	X'0'	0	JQEBB1	"*" Begin of move block 1
0	(0)	SIGNED	1	JQEPRIO	JOB PRIORITY
1	(1)	BITSTRING	1	JQETYPE	LOGICAL QUEUE TYPE
		IF THE $XEQ BIT IS ON THEN THE JOB CAN BE IN OR AWAITING CONVERSION OR EXECUTION. THE JOB IS IN OR AWAITING CONVERSION IF THE $XEQ BIT IS ON AND THERE IS NO JOB CLASS DEFINED IN THE LOW ORDER SIX BITS. THE JOB IS AWAITING XEQ IF THERE IS A JOB CLASS DEFINED AND THE JOB IS NOT BUSY. IF THE JOB IS BUSY AND A CLASS IS DEFINED THEN THE JOB IS BUSY IN EXECUTION. If a new JQETYPE flag is added, then the $QJQE macro and $QINDEX must be updated for the queue type If the job is executing in an 8 character job class ($XEQ8CHR), $QINDEX is never used or updated and JQXJCLAS must be used as the actual class value.				
		.111 1111		$XEQCLAS	"X'7F'" CLASS OF JOB QUEUED FOR EXECUTION
		1...		$SPIN	"X'80'" SPIN QUEUE
		.1..		$XEQ	"X'40'" EXECUTION/CONVERSION QUEUE: - If low order six bits are zero, job is on the conversion queue. - If NOT $XEQ8CHR, the low order six bits define the job class and can be indexed into $QINDEX. - If $XEQ8CHR, JQXJCLAS must be used for the job class value and $QINDEX cannot be used.
		..1.		$INPUT	"X'20'" INPUT QUEUE
		...1		$XMIT	"X'10'" TRANSMISSION QUEUE
		.... 1...		$SETUP	"X'08'" SETUP QUEUE
		.... .1..		$RECEIVE	"X'04'" SYSOUT RECEIVER QUEUE
		.... ..1.		$OUTPUT	"X'02'" OUTPUT QUEUE
		1		$HARDCPY	"X'01'" OUTPUT IN-PROGRESS QUEUE
		....		$PURGE	"X'00'" PURGE QUEUE

Table 258. Structure JQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1111 1111		$FREE	"X'FF'" FREE QUEUE
1	(1)	X'41'	0	$XEQJOB1	"C'A'-(FF-$XEQCLAS)" OFFSET TO FIRST $QINDEX ENTRY FOR JOB XEQ CLASS QUEUES (JQETYPE)
		.1.1		$XEQSTC	"X'D0'-(FF-$XEQCLAS)" OFFSET TO THE $QINDEX ENTRY FOR STC XEQ CLASS QUEUE (JQETYPE) (REFERENCE CATSTCCL, CATSTCID)
		.11.		$XEQTSU	"X'E0'-(FF-$XEQCLAS)" OFFSET TO THE $QINDEX ENTRY FOR TSU XEQ CLASS QUEUE (JQETYPE) (REFERENCE CATTSUCL, CATTSUID)
		.11. 1.1.		$XEQ8CHR	"X'EA'-(FF-$XEQCLAS)" The job is running in an 8 char execution class. NOTES:- 8 Char job classes do NOT interact with $QINDEX! - Must use JQXJCLAS as the class value
1	(1)	X'79'	0	$XEQJOBL	"C'9'-(FF-$XEQCLAS)" Offset to Last $QINDEX entry for job XEQ class queues (JQETYPE)
2	(2)	BITSTRING	1	JQENENF	Id of member doing ENF78 processing (if JQENENF is not 0, job cannot be purged)
3	(3)	BITSTRING	1		Reserved
4	(4)	BITSTRING	1	JQEFLAG1	JOB QUEUE FLAGS
		1...		JQE1HLDA	"B'10000000'" HOLD ALL JOBS
		.1..		JQE1HLD1	"B'01000000'" HOLD SINGLE JOB
		..1.		JQE1HUNT	"B'00100000'" Hold for HOLDUNTL
		...1		JQE1HLDT	"B'00010000'" Pseudo flag indicating a job whose JQXDUP field is non-zero (not in CKPT- only used by prescan exit to display job status)
		...1		JQE1PURG	"B'00010000'" JOB IS TO BE PURGED
		.... 1...		JQE1OCAN	"B'00001000'" OPERATOR ISSUED $C OR $P JOB
		.... .1..		JQE1ARMR	"B'00000100'" The Automatic Restart Manager has registered the job. Hold it (JQE1ARMH) when it ends execution.
		.... ..1.		JQE1ARMH	"B'00000010'" The job is held awaiting a restart decision by the Automatic Restart Manager
		1		JQE1ARME	"B'00000001'" $E the job if ARM does not restart it
4	(4)	X'4'	0	JQEEB1	"*-1" End of first move block
4	(4)	X'0'	0	JQESB1	"JQEBB1,JQEEB1-JQEBB1+1,C'X'" Size of 1st block
5	(5)	ADDRESS	3	JQENEXTI	Next JQE index
5	(5)	X'8'	0	JQEBB2	"*" Begin of 2nd move block
8	(8)	BITSTRING	1	JQEFLAG2	MORE JOB QUEUE FLAGS
		1...		JQE2IND	"B'10000000'" JOB HAS INDEPENDENT MODE AFFINITY

Table 258. Structure JQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		JQE2REST	"B'01000000'" JOB has been restarted
		..1.		JQE2STAR	"B'00100000'" JOB to be started by $S J
		...1		JQE2PEOM	"B'00010000'" JOB pending EOM subtask
		.... 1...		JQE2UNTL	"B'00001000'" HOLDUNTL specified (see JQAUNTL)
		.... .1..		JQE2STBY	"B'00000100'" STARTBY specified (see JQASTBY)
		.... ..1.		JQE2ZAP	"B'00000010'" JQE zapped (ZAPJOB)
		1		JQE2ART	"B'00000001'" This is artificial JQE
8	(8)	X'8'	0	JQEEB2	"*-1" End of 2nd move block
8	(8)	X'8'	0	JQESB2	"JQEBB2,JQEEB2-JQEBB2+1,C'X'" Size of 2nd block
9	(9)	ADDRESS	3	JQEJOEI	First WORK-JOE for this JQE (index)
9	(9)	X'C'	0	JQEBB3	"*" Begin of 3rd move block
12	(C)	BITSTRING	1	JQEFLAG3	SOME MORE JOB QUEUE FLAGS
		11		JQE3JOB	"B'00000011'" BATCH JOB TYPE (WHEN BITS ZERO)
		1		JQE3STC	"B'00000001'" STC JOB TYPE
		.... ..1.		JQE3TSU	"B'00000010'" TSU JOB TYPE
		.... .1..		JQE3XMIT	"B'00000100'" JOB DESTINED FOR ANOTHER NODE XMIT OR INTERMEDIATE NODE JOB
		.... 1...		JQE3TMOD	"B'00001000'" JOB IS BEING PROCESSED BY $TO OR $R
		1...		JQE3MVRQ	"B'10000000'" MOVE JOB FOR SPOOL COMMANDS
		.1..		JQE3UNSP	"B'01000000'" JOB HAS UNSPUN SPIN IOTS
		..1.		JQE3NDMP_Z11	"B'00100000'" NON SELECTABLE BY DUMPER z/1.11 ckpt mode & below
JQE3NDMP B'00100000' moved to JQEANDMP in z/2.2 ckpt mode					
		..1.		JQE3DFJG	"B'00100000'" Job represents a JOBGROUP that is being defined z/2.2 ckpt mode & above
		...1		JQE3SYSD	"B'00010000'" JQE REPRESENTS SYSTEM DATA SET, IMPLIES JQETRAK POINTS TO IOT
13	(D)	CHARACTER	1	JQEJCLAS	JOB CLASS
14	(E)	BITSTRING	1	JQEFLAGA	FLAG BYTE
		1...		JQEAFLSH	"B'10000000'" Job has been flushed
		..1.		JQEANDMP	"B'00100000'" Non-selectable by DUMPER

Table 258. Structure JQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		JQEZGLM is an id of a member performing logging for this jobgroup. This field is only valid when JQE3DFJG is set. JQEZGLM = FF means that logging for this jobgroup failed. If JQEZGLM is not 0 or FF, JQE cannot be purged.			
15	(F)	BITSTRING	1	JQEZGLM	Logging member id
16	(10)	BITSTRING	4	JQEJBKEY	JOB IDENTIFER KEY
20	(14)	BITSTRING	4	JQETRAK	TRACK ADDRESS OF JCT OR IOT TRACK ADDRESS IF JQE3SYSD
24	(18)	SIGNED	2	JQEINPND	INPUT NODE (BINARY)
26	(1A)	SIGNED	2	JQEXEQND	EXECUTION NODE (BINARY)
28	(1C)	SIGNED	4	(0)	FORCE ALIGNMENT
28	(1C)	BITSTRING	1	JQEFLAG4	More job queue flags
		1...		JQE4CAN	"B'10000000'" FORCE SELECT WHEN VOL INACTIVE
		.1..		JQE4NEWS	"B'01000000'" JOB IS JES2NEWS.
		..1.		JQE4SPHA	"B'00100000'" SPOF HOLD ALL JOBS REQUIRED AFTER AUTH CHECK IN CNVT PROCESSOR
		...1		JQE4SPOF	"B'00010000'" JQE HELD BY SYSOUT RECEIVER OR JOB RECEIVER
		.... 1...		JQE4MOLD	"B'00001000'" OLD (ORIGINAL) JOB FOR SPL MOVE
		.... .1..		JQE4MNEW	"B'00000100'" NEWLY CREATED JOB FROM SPL MOVE
		.... ..1.		JQE4TWOJ	"B'00000010'" TWO JOBCARDS FOR JOB XMIT
		1		JQE4JCLH	"B'00000001'" TYPRUN=JCLHOLD, HOLD REQUIRED AFTER AUTH CHK IN CNVT PROCESSOR
29	(1D)	ADDRESS	3	JQEDEVID	Device Identify (DCTDEVID)
32	(20)	BITSTRING	1	JQEARMMI	Member ID on which a job is registered by ARM
33	(21)	BITSTRING	1	JQERESVD	Formerly JQEWSLCK
34	(22)	BITSTRING	1	JQEBUSY	JQE busy system id
35	(23)	BITSTRING	1	JQEJLOK	Job lock busy system id
36	(24)	CHARACTER	8	JQEJNAME	JOB NAME FROM JOB CARD
44	(2C)	CHARACTER	8	JQEUSRID	USERID OF JOB OWNER
52	(34)	CHARACTER	8	JQESECLB	SECURITY LABEL OF JOB
		JQEJOEID is the current JOE identifier used when building JOEs for this job unless this is JESNEWS. For an active JESNEWS job this is the count of active users of this instance of JESNEWS			
60	(3C)	SIGNED	4	JQENWUSE(0)	News use count
60	(3C)	SIGNED	4	JQEJOEID	Current JOE id number (unless this is JESNEWS)
64	(40)	BITSTRING	1	JQEFLAG5	FLAG BYTE
		1...		JQE5XUSD	"B'10000000'" USING EXTENSION FOR TG COUNT
		.1..		JQE5NSL	"B'01000000'" JOB REJECTED BY SELECTIVE LOAD

Table 258. Structure JQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		JQE5NUNK	"B'00100000'" Job tkn is NJE unknwn user
		...1		JQE5NOTF	"B'00010000'" NOTIFY PROCESSING COMPLETE
		.... 1...		JQE5EOM	"B'00001000'" Job terminated at end of memory
		.... .1..		JQE5RUNS	"B'00000100'" Job has new unspun work
		.... ..1.		JQE5PUPS	"B'00000010'" Job may have unprocessed spin output (Flag only valid before unspun processing starts)
		1		JQE5INPL	"B'00000001'" Job went through input processing on local node
65	(41)	BITSTRING	1	JQEOFFSL	OFFLOAD SELECT BYTE
		The total number of trackgroups allocated to a given JQE is in two pieces. One piece is in the JQX (JQXTGWRP) and the other piece is in the JQE (if JQE5XUSD is off) or in the JQT (if JQE5XUSD is on.) The one byte value in the JQX is the number of multiples of X'8000' trackgroups that the JQE owns. The value in the second piece is the number of trackgroups owned above the multiple of X'8000'. If JQE5XUSD is on, then JQETGNBR is the index of the JQT entry which holds the two byte value.			
66	(42)	SIGNED	2	JQETGNBR	See above
68	(44)	BITSTRING	1	JQEFLAG6	FLAG BYTE
		EQU B'10000000' Obsolete (JQE6DUPC in			
		.1..		JQE6PRG	"B'01000000'" Purge auditing required
		..1.		JQE6TGAE	"B'00100000'" TG counter has overflowed
		B'00010000' This bit used in 5.1 (cannot use in 5.2)			
		.... 1...		JQE6HOPR	"B'00001000'" Reset NJE hop count when retransmitting job
		.... .1..		JQE6PRT	"B'00000100'" Priority change by $T
		.... ..1.		JQE6PRAG	"B'00000010'" Priority change by aging
		1		JQE6NCSA	"B'00000001'" Job has no more CSA IOTs (only valid after job has completed execution)
69	(45)	BITSTRING	1	JQEFLAG7	FLAG BYTE
		1...		JQE7PROT	"B'10000000'" Job's output is protected
		.1..		JQE7TP	"B'01000000'" Transaction initiator
		..1.		JQE7INIT	"B'00100000'" Batch initiator
		...1		JQE7IOTE	"B'00010000'" IOT error
		.... 1...		JQE7SPIN	"B'00001000'" Spin IOTs outstanding

Table 258. Structure JQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		JQE7SPOT	"B'00000100'" Spin output produced
		.... ..1.		JQE7RJI	"B'00000010'" Request job id indicator
		1		JQE7SYSL	"B'00000001'" SYSLOG indicator
70	(46)	BITSTRING	1	JQEFLAG8	FLAG BYTE
		1...		JQE8HLDS	"B'10000000'" JOB HAS HELD 3540 DATA SET
		.1..		JQE8DUPL	"B'01000000'" Job has been held at least once for duplicate job name
		..1.		JQE8CNWT	"B'00100000'" Job must convert on a PCE that can wait for OS CNVT
		...1		JQE8BOUT	"B'00010000'" Use abnormal outdisp
		.... 1...		JQE8OPCD	"B'00001000'" Job cancelled by oper with dump
		.... .1..		JQE8NJIX	"B'00000100'" Job is not in JIX
		.... ..1.		JQE8RBLD	"B'00000010'" Job is on Rebuild Queue
		1		JQE8NOQ	"B'00000001'" Job is not on a queue
		The use of JQEFLAG9 should be reserved for use by the job command processor only.			
71	(47)	BITSTRING	1	JQEFLAG9	FLAG BYTE - JCMD processor
		1...		JQE9$E	"B'10000000'" Mark JQE for Restart
		.1..		JQE9$C	"B'01000000'" Cancel the JQE
		.11.		JQE9$CD	"B'01100000'" Cancel JQE with dump
		.1.1		JQE9$CAR	"B'01010000'" Cancel JQE with ARM restart
		.... 1...		JQE9$SPN	"B'00001000'" Spin JESLOG files
		.... .1..		JQE9$TSC	"B'00000100'" Reset the service class
		.... ..1.		JQE9$FRC	"B'00000010'" Cancel JQE with FORCE
		1		JQE9$EVC	"B'00000001'" Evict this job
		..1. ...1		JQE9$EVH	"B'00100001'" Evict job with HOLD
72	(48)	SIGNED	4	JQEJBNUM	HASP job number
		The following default route fields should only be used for command/console authorization purposes. They initially match the JCT fields when a job is created, but are not complete in that only one of the userid valids is in the JQE. They are not used in any dataset destination resolution (the JCT fields are used), and apply (for compatibility) only to console operator job ownership.			
76	(4C)	SIGNED	4	JQEDRPRT	Default print routing, initially same as JCTPROUT

Table 258. Structure JQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
80	(50)	CHARACTER	8	JQEDRPRU	Default print routing user for SDSF compatibility
88	(58)	SIGNED	4	JQEDRPUN	Default punch routing, initially same as JCTPUOUT
88	(58)	X'0'	0	JQEDRNO	"0,2,C'H'" Offset of node in route
88	(58)	X'2'	0	JQEDRRO	"2,2,C'H'" Offset of rmt in route
92	(5C)	BITSTRING	4	JQESAF	Full system affinity mask
96	(60)	SIGNED	4	(0)	INSURE FULL-WORD BOUNDARY
96	(60)	X'60'	0	JQEEB3	"*" End of 3rd move block
96	(60)	X'C'	0	JQESB3	"JQEBB3,JQEEB3-JQEBB3,C'X'" Size of 3rd block
96	(60)	X'60'	0	JQEBEND	"*" End of base JQE
96	(60)	X'60'	0	JQEBLEN	"*-JQE" LENGTH OF BASE JOB QUEUE ENTRY
96	(60)	SIGNED	4	JQESUMSK(0)	START OF SPOOLS-USED MASK, VARIABLE LEN (NUMBER OF BITS=SPOOLNUM), LEN IS MULTIPLE OF FOUR BYTES
96	(60)	BITSTRING	1	JQASUMSK	Max spools used mask
		The following fields appear only within an artificial JQE. Artificial JQEs are constructed using the $DOGJQE service.			
128	(80)	SIGNED	4	JQX(0)	Beginning of JQX
128	(80)	X'8'	0	JQXVRZ2	"8" JQX control block version for z/OS version 1.2 checkpoint mode.
128	(80)	X'9'	0	JQXVRZ11	"9" JQX control block version for z/OS version 1.11 checkpoint mode.
128	(80)	X'80'	0	JQXBB1	"*" Begin of 1st move block
128	(80)	SIGNED	4	JQXRECCT	Pre-execution record count
		JQX maximum completion code information, by design, matches the mapping in the network job trailer. Consult NJE Formats and Protocols before adding a new type.			
132	(84)	BITSTRING	4	JQXMAXRC(0)	--+ Maximum Job Return Code
132	(84)	BITSTRING	1	JQXMXIND	| Job completion indicator
		1...		JQXMXAB	"X'80'" | Abend code exists
		.1..		JQXMXCDE	"X'40'" | Condition code exists
		..1.		JQXMXJRC	"X'20'" | Code from JOBRC request
132	(84)	X'E0'	0	JQXMXCDS	"JQXMXAB+JQXMXCDE+JQXMXJRC" List of all codes
132	(84)	X'0'	0	JQXMXUNK	"0" | No completion info
132	(84)	X'1'	0	JQXMXNRM	"1" | Job ended normally +
132	(84)	X'2'	0	JQXMXCC	"2" | Job ended by CC +
132	(84)	X'3'	0	JQXMXJCL	"3" | Job had a JCL error
132	(84)	X'4'	0	JQXMXCAN	"4" | Job was canceled
132	(84)	X'5'	0	JQXMXABN	"5" | Job ABENDed +
132	(84)	X'6'	0	JQXMXCAB	"6" | Converter ABENDed

Table 258. Structure JQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
132	(84)	X'7'	0	JQXMXSEC	"7" | Security error
132	(84)	X'8'	0	JQXMXEOM	"8" | Job failed in EOM +
132	(84)	X'9'	0	JQXMXCNV	"9" | Converter error
132	(84)	X'A'	0	JQXMXSYS	"10" | System failure
132	(84)	X'B'	0	JQXMXFLU	"11" | Job has been flushed
133	(85)	BITSTRING	3	JQXMAXCC	--+ Completion code (set for '+' conditions)
136	(88)	BITSTRING	4	JQXBERTT	Token representing the BERTS for this JQE
140	(8C)	BITSTRING	4	JQXCRTME	JQE creation time
140	(8C)	X'90'	0	JQXEB1	"*" End of 1st move block
140	(8C)	X'80'	0	JQXSB1	"JQXBB1,JQXEB1-JQXBB1,C'X'" Size of 1st block
144	(90)	SIGNED	4	JQXWSNXT	Index of next JQE on WSC Q
148	(94)	SIGNED	4	JQXWSPRV	Index of prev JQE on WSC Q
148	(94)	X'98'	0	JQXBB2	"*" Begin of 2nd move block
152	(98)	CHARACTER	8	JQXJCLAS	Job class
The JQX1WLM flag has special case code in $DOGJQE. This flag should be modified using the real JQX. The other flags in JQXFLAG1 should be modified using the JQA.					
160	(A0)	BITSTRING	1	JQXFLAG1	Flags
		1...		JQX1TSRV	"B'10000000'" SRVCLASS has been $Ted to a non-null value
		.1..		JQX1WLM	"B'01000000'" Job on WLM queue
		..1.		JQX1CTKN	"B'00100000'" Job has data set(s) for which DYNALLOC returned a client token
		...1		JQX1DFQ	"B'00010000'" Job pending WLM requeue
		.... 1...		JQX1LSPN	"B'00001000'" Job went thru unspun in its lifetime
		.... .1..		JQX1XWTR	"B'00000100'" At least one JOE purged due to external device
		.... ..1.		JQX1BSPL	"B'00000010'" CBIMPL4 dump processing has occurred
		1		JQX1AWFL	"B'00000001'" Job ended badly (EOM or busy @ system crash)
161	(A1)	SIGNED	1	JQXTGWRP	Number of times JQETGNBR wrapped over 7FFF
162	(A2)	BITSTRING	1	JQXFLAG2	More flags
EQU B'10000000' Reserved					
		.1..		JQX2TPAR	"B'01000000'" Invalid hold time, one paranoia check was hit
		..1.		JQX2UCOR	"B'00100000'" User portion of Job Correlator set
		...1		JQX2JNOT	"B'00010000'" Job notification data set (SYS_JOB_NOTIFY symbol)
		.... 1...		JQX2NENF	"B'00001000'" Job notification ENF initiated
		.... .1..		JQX2MAXR	"B'00000100'" JQXMAXRC has been set

Table 258. Structure JQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ..1.		JQX2ASYM	"B'00000010'" Job req alternate system symbol table
		1		JQX2SYMT	"B'00000001'" Job symbol table CB exist
163	(A3)	BITSTRING	1	JQXFLAG3	More flags
		1...		JQX3CVSY	"B'10000000'" Job has symbols to be passed to converter
		.1..		JQX3INST	"B'01000000'" Job has datasets with symbol substitution
		..1.		JQX3JBGR	"B'00100000'" Job is a logging job for JOBGROUP (mutually exclusive with JQX3RJGR)
		...1		JQX3RJGR	"B'00010000'" This job is registered to the JQXZNAME job group (mutually exclusive with JQX3JBGR).
		.... 1...		JQX3JLSP	"B'00001000'" Jobgroup logging is being stopped
		.... .1..		JQX3JGCS	"B'00000100'" This job is part of a concurrent set of jobs in a job group. (the JQX3RJGR bit will also be on).
		.... ..1.		JQX3JGCM	"B'00000010'" This is the 'master job' in a concurrent set of jobs in a job group. (the JQX3JGCS and JQX3RJGR bits will also be on).
164	(A4)	SIGNED	4	JQXNWSID(0)	JESNEWS id
164	(A4)	SIGNED	4	JQXIJNUM	Initial job number
164	(A4)	X'A8'	0	JQXEB2	"*" End of 2nd move block
164	(A4)	X'98'	0	JQXSB2	"JQXBB2,JQXEB2-JQXBB2,C'X'" Size of 2nd block
		JQXDUP is managed without JQAs. This field will be modified only by the DUPJOB service routine and by queue rebuild.			
168	(A8)	SIGNED	4	JQXDUP	Index of next duplicate job zero ==> not duplicate -1 ==> last JQE in dup chn
168	(A8)	X'AC'	0	JQXBB3	"*" Begin of 3rd move block
172	(AC)	BITSTRING	4	JQXCAFF	Composite member affinity
176	(B0)	BITSTRING	4	JQXIT141	Reserved for Exit 14
180	(B4)	BITSTRING	4	JQXIT142	Reserved for Exit 14
180	(B4)	X'B8'	0	JQXEB3	"*" End of 3rd move block
180	(B4)	X'AC'	0	JQXSB3	"JQXBB3,JQXEB3-JQXBB3,C'X'" Size of 3rd block
		JQXJNUMQ is used to make JIX processing faster. By having this value in the real JQX, the real JQE does not need to be obtained to do job number comparisons in $QLOC. Note: JQXJNUMQ is not included in the JQA since it is only useful for chaining (along with field JQXNJIXI).			
184	(B8)	BITSTRING	1	JQXJNUMQ	The quotient of the JQE job number divided by 64K

Table 258. Structure JQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
185	(B9)	ADDRESS	3	JQXNJIXI	Index of next JQE/JQX on the JIX chain
188	(BC)	SIGNED	4	JQXBSEND(0)	End of base section
188	(BC)	X'3C'	0	JQXLEN_Z2	"*-JQX" Length of checkpointed z/OS 1.2 mode JQX.
188	(BC)	BITSTRING	1		Reserved for future use.
		NOTE: JQXJQEBI is not included in the JQA since it is only useful for chaining.			
189	(BD)	ADDRESS	3	JQXJQEBI	JQE back chain index
189	(BD)	X'C0'	0	JQXBB4	"*" Begin of 4th move block
192	(C0)	SIGNED	4	JQXRDRON	Time on input processor
196	(C4)	SIGNED	4	JQXRDTON	Date on input processor
200	(C8)	BITSTRING	1	JQXRDMBR	Input member id
201	(C9)	CHARACTER	8	JQXZNAME	Associated Job Group (ZOD) name. Set when a job is registered to a jobgroup (bit JQX3RJGR is set) or this is a logging job for a jobgroup (bit JQX3JBGR is set).
209	(D1)	BITSTRING	1		Reserved for future use
210	(D2)	BITSTRING	6		Reserved for MQTR
216	(D8)	SIGNED	4	JQXZJCIX	Index of associated job group object (ZJC) : - This is a 'ZOD' object index if this job is a logging job for a jobgroup (bit JQX3JBGR is set). - This is a 'ZJI' object index if this job is registered to a jobgroup (bit JQX3RJGR is set).
216	(D8)	X'DC'	0	JQXEB4	"*" End of 4th move block
216	(D8)	X'C0'	0	JQXSB4	"JQXBB4,JQXEB4-JQXBB4,C'X'" Size of 4th block
216	(D8)	X'DC'	0	JQXEXEND	"*" End of z/OS 1.11 mode JQX and JQX section of the external JQA.
216	(D8)	X'5C'	0	JQXSIZE	"*-JQX" Size of JQX
216	(D8)	X'5C'	0	JQXZ11LN	"*-JQX" Length of checkpointed z/OS 1.11 mode JQX and JQX section of the external JQA.
		The following fields are pseudo fields. They are artificially constructed from other fields in the JQE/JQX/BERT-backed fields. There are no $BERTTABs defining these fields, so DOGBERT does not know of their existence. The field names begin with JQP for Job Queue Pseudo JQPTGNBR field is constructed from the two fields JQETGNBR and JQXTGWRP. This pseudo field should be used as an input field only. Any updates made to it will not be reflected back into the JQE/JQX or the JQT.			
220	(DC)	SIGNED	4	JQPTGNBR	Track groups
224	(E0)	BITSTRING	1	JQPFLAG1	Parameter flag byte
		1...		JQP1REQ	"B'10000000'" Job is being re-queued

Table 258. Structure JQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		JQP1EVIC	"B'01000000'" EJOB,STEP requeued job
225	(E1)	BITSTRING	3		Reserved
End of Pseudo fields BERT resident data sections					
228	(E4)	SIGNED	4	JQABERT(0)	Begin BERT resident data
228	(E4)	BITSTRING	148	JQAACCT	Job accounting information
376	(178)	SIGNED	4	JQAXEQ(0)	Start of XEQ section of JQE
376	(178)	CHARACTER	3	JQAPERF	Performance group
379	(17B)	BITSTRING	1	JQAFLAG1	Flags
		1...		JQA1EHLD	"B'10000000'" Job was held by the end user via TYPRUN=HOLD or SETUP or HOLDUNTL
		.1..		JQA1JCLH	"B'01000000'" Job held for JCLHOLD
		..1.		JQA1THLD	"B'00100000'" Hold start time in JQATIMER
		...1		JQA1TSCH	"B'00010000'" SCHENV start time in JQATIMER
		.... 1...		JQA1DUPJ	"B'00001000'" Possible duplicate jobname exists
		.... ..1.		JQA1TBAD	"B'00000010'" Hold/SCHENV timers should not be maintained
		1		JQA1SPIN	"B'00000001'" JESLOG is spinable
380	(17C)	BITSTRING	4	JQASTOK	Service class token
384	(180)	CHARACTER	8	JQAWSCN	Service Class Queue Name
392	(188)	SIGNED	4	JQARRIV	Time job arrived in XEQ Q
396	(18C)	SIGNED	4	JQAQTIME	Time job entered current execution queue
400	(190)	BITSTRING	2	JQASID	ASID where executing
402	(192)	BITSTRING	4	JQASCHAF	Affinity mask of systems where scheduling environ is available
406	(196)	BITSTRING	1	JQASTARM	Member on which $S J is to occur.
407	(197)	BITSTRING	1		Reserved (alignment)
408	(198)	SIGNED	4	JQARHLD	Duration when job held
412	(19C)	SIGNED	4	JQARRSC	Duration when SCHENV not available
416	(1A0)	SIGNED	4	JQARTOC	Conversion time
420	(1A4)	SIGNED	4	JQATIMER	STCK value when hold or SCHENV timer last started
424	(1A8)	SIGNED	4	JQAUTIME	STCK value when JQARHLD last updated
428	(1AC)	BITSTRING	1	JQAFLAG2	Flags
		1...		JQA2SCHE	"B'10000000'" SCHENV is a default
		.1..		JQA2SINV	"B'01000000'" SCHENV (JQASCHE) no longer valid
		..1.		JQA2TSCH	"B'00100000'" SCHENV has been $Ted to a non-null value
		...1		JQA2DUPJ	"B'00010000'" JQADUPTM has been primed

Table 258. Structure JQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		JQA2TFUD	"B'00001000'" Hold/SCHENV timers were off by less than fudge factor (See CLOCCHKR)
		.... .1..		JQA2WIN	"B'00000100'" WINIT selected job
429	(1AD)	BITSTRING	3		Reserved for future use
429	(1AD)	X'38'	0	JQAXEQL	"*-JQAXEQ" Length of XEQ section
		This BERT resident data defines the batch execution section.			
432	(1B0)	SIGNED	4	JQAXBAT(0)	Start of batch execution section
432	(1B0)	SIGNED	4	JQAXSRMT	SRM Token from classify
436	(1B4)	SIGNED	4	JQAMINLV	Min BCP level for CNVT/XEQ
440	(1B8)	BITSTRING	6	JQAUNTL	HOLDUNTL timestamp in ETOD format
446	(1BE)	BITSTRING	6	JQASTBY	STARTBY timestamp in ETOD format
452	(1C4)	BITSTRING	1	JQAFLAG3	More flags:
		1...		JQA3UNTU	"B'10000000'" JQAUNTL time is UTC (OFF - time is local on member JQXRDMBR)
		.1..		JQA3STBU	"B'01000000'" JQASTBY time is UTC (OFF - time is local on member JQXRDMBR)
453	(1C5)	BITSTRING	3		Reserved
		JQARRAJ is an arrival time adjustment value for the purposes of sorting service class queues. JQEs on service class queues are sorted in the order of (JQARRIV-JQARRAJ).			
456	(1C8)	SIGNED	4	JQARRAJ	Arrival time adjustment
460	(1CC)	CHARACTER	8	JQAWITH	Job name on WITH=
460	(1CC)	X'24'	0	JQAXBATL	"*-JQAXBAT" Length of section
468	(1D4)	CHARACTER	16	JQASCHE	Scheduling environment
484	(1E4)	BITSTRING	4	JQASCLAF	Affinity mask of systems where SECLABEL is active
488	(1E8)	BITSTRING	4	JQAUNSPN	MTTR of UNSPUN IOT (0 if multiple or unknown)
492	(1EC)	SIGNED	4	JQADUPTM	Accumulated TOD units when job held for duplicate jobname
		This section is only defined for MVS SYSLOG jobs			
496	(1F0)	CHARACTER	8	JQASYSLN	MVS system name for SYSLOG job
504	(1F8)	SIGNED	4	JQASYSLC	Index of next SYSLOG JQE
504	(1F8)	X'1F0'	0	JQASYSLG	"JQASYSLN,*-JQASYSLN" Section definition field
		This BERT resident data section is only available when the job has JES2 symbol SYS_CORR_USRDATA defined.			
508	(1FC)	CHARACTER	32	JQAUCOR	User data portion of Job Correlator
508	(1FC)	X'138'	0	JQABERTL	"*-JQABERT" Length of BERT data defined in this DSECT
508	(1FC)	X'21C'	0	JQABLEN	"*-JQE" Length of JQE + extensions defined in this DSECT

Table 259. Cross Reference for $JQE

Name	Offset	Hex Tag
$FREE	1	FF
$HARDCPY	1	1
$INPUT	1	20
$OUTPUT	1	2
$PURGE	1	0
$RECEIVE	1	4
$SETUP	1	8
$SPIN	1	80
$XEQ	1	40
$XEQCLAS	1	7F
$XEQJOBL	1	79
$XEQJOB1	1	41
$XEQSTC	1	50
$XEQTSU	1	60
$XEQ8CHR	1	6A
$XMIT	1	10
JQA	0	0
JQAACCT	E4	
JQABERT	E4	
JQABERTL	1FC	138
JQABLEN	1FC	21C
JQADUPTM	1EC	
JQAFLAG1	17B	
JQAFLAG2	1AC	
JQAFLAG3	1C4	
JQAMINLV	1B4	
JQAPERF	178	
JQAQTIME	18C	
JQARHLD	198	
JQARRAJ	1C8	
JQARRIV	188	
JQARRSC	19C	
JQARTOC	1A0	
JQASCHAF	192	
JQASCHE	1D4	
JQASCLAF	1E4	
JQASID	190	
JQASTARM	196	
JQASTBY	1BE	
JQASTOK	17C	
JQASUMSK	60	
JQASYSLC	1F8	
JQASYSLG	1F8	1F0
JQASYSLN	1F0	
JQATIMER	1A4	
JQAUCOR	1FC	
JQAUNSPN	1E8	
JQAUNTL	1B8	
JQAUTIME	1A8	

Table 259. Cross Reference for $JQE (continued)

Name	Offset	Hex Tag
JQAWITH	1CC	
JQAWSCN	180	
JQAXBAT	1B0	
JQAXBATL	1CC	24
JQAXEQ	178	
JQAXEQL	1AD	38
JQAXSRMT	1B0	
JQA1DUPJ	17B	8
JQA1EHLD	17B	80
JQA1JCLH	17B	40
JQA1SPIN	17B	1
JQA1TBAD	17B	2
JQA1THLD	17B	20
JQA1TSCH	17B	10
JQA2DUPJ	1AC	10
JQA2SCHE	1AC	80
JQA2SINV	1AC	40
JQA2TFUD	1AC	8
JQA2TSCH	1AC	20
JQA2WIN	1AC	4
JQA3STBU	1C4	40
JQA3UNTU	1C4	80
JQE	0	
JQEAFLSH	E	80
JQEANDMP	E	20
JQEARMMI	20	
JQEBB1	0	0
JQEBB2	5	8
JQEBB3	9	C
JQEBEND	60	60
JQEBLEN	60	60
JQEBUSY	22	
JQEDEVID	1D	
JQEDRNO	58	0
JQEDRPRT	4C	
JQEDRPRU	50	
JQEDRPUN	58	
JQEDRRO	58	2
JQEEB1	4	4
JQEEB2	8	8
JQEEB3	60	60
JQEFLAGA	E	
JQEFLAG1	4	
JQEFLAG2	8	
JQEFLAG3	C	
JQEFLAG4	1C	
JQEFLAG5	40	
JQEFLAG6	44	
JQEFLAG7	45	

Table 259. Cross Reference for $JQE (continued)

Name	Offset	Hex Tag
JQEFLAG8	46	
JQEFLAG9	47	
JQEINPND	18	
JQEJBKEY	10	
JQEJBNUM	48	
JQEJCLAS	D	
JQEJLOK	23	
JQEJNAME	24	
JQEJOEI	9	
JQEJOEID	3C	
JQENENF	2	
JQENEXTI	5	
JQENWUSE	3C	
JQEOFFSL	41	
JQEPRIO	0	
JQERESVD	21	
JQESAF	5C	
JQESB1	4	0
JQESB2	8	8
JQESB3	60	C
JQESECLB	34	
JQESUMSK	60	
JQETGNBR	42	
JQETRAK	14	
JQETYPE	1	
JQEUSRID	2C	
JQEVRSN	0	8
JQEXEQND	1A	
JQEZGLM	F	
JQE1ARME	4	1
JQE1ARMH	4	2
JQE1ARMR	4	4
JQE1HLDA	4	80
JQE1HLDT	4	10
JQE1HLD1	4	40
JQE1HUNT	4	20
JQE1OCAN	4	8
JQE1PURG	4	10
JQE2ART	8	1
JQE2IND	8	80
JQE2PEOM	8	10
JQE2REST	8	40
JQE2STAR	8	20
JQE2STBY	8	4
JQE2UNTL	8	8
JQE2ZAP	8	2
JQE3DFJG	C	20
JQE3JOB	C	3
JQE3MVRQ	C	80

Table 259. Cross Reference for $JQE (continued)

Name	Offset	Hex Tag
JQE3NDMP_Z11	C	20
JQE3STC	C	1
JQE3SYSD	C	10
JQE3TMOD	C	8
JQE3TSU	C	2
JQE3UNSP	C	40
JQE3XMIT	C	4
JQE4CAN	1C	80
JQE4JCLH	1C	1
JQE4MNEW	1C	4
JQE4MOLD	1C	8
JQE4NEWS	1C	40
JQE4SPHA	1C	20
JQE4SPOF	1C	10
JQE4TWOJ	1C	2
JQE5EOM	40	8
JQE5INPL	40	1
JQE5NOTF	40	10
JQE5NSL	40	40
JQE5NUNK	40	20
JQE5PUPS	40	2
JQE5RUNS	40	4
JQE5XUSD	40	80
JQE6HOPR	0	8
JQE6NCSA	0	1
JQE6PRAG	0	2
JQE6PRG	0	40
JQE6PRT	0	4
JQE6TGAE	0	20
JQE7INIT	45	20
JQE7IOTE	45	10
JQE7PROT	45	80
JQE7RJI	45	2
JQE7SPIN	45	8
JQE7SPOT	45	4
JQE7SYSL	45	1
JQE7TP	45	40
JQE8BOUT	46	10
JQE8CNWT	46	20
JQE8DUPL	46	40
JQE8HLDS	46	80
JQE8NJIX	46	4
JQE8NOQ	46	1
JQE8OPCD	46	8
JQE8RBLD	46	2
JQE9$C	47	40
JQE9$CAR	47	50
JQE9$CD	47	60
JQE9$E	47	80

Table 259. Cross Reference for $JQE (continued)

Name	Offset	Hex Tag
JQE9$EVC	47	1
JQE9$EVH	47	21
JQE9$FRC	47	2
JQE9$SPN	47	8
JQE9$TSC	47	4
JQPFLAG1	E0	
JQPTGNBR	DC	
JQP1EVIC	E0	40
JQP1REQ	E0	80
JQX	80	
JQXBB1	80	80
JQXBB2	94	98
JQXBB3	A8	AC
JQXBB4	BD	C0
JQXBERTT	88	
JQXBSEND	BC	
JQXCAFF	AC	
JQXCRTME	8C	
JQXDUP	A8	
JQXEB1	8C	90
JQXEB2	A4	A8
JQXEB3	B4	B8
JQXEB4	D8	DC
JQXEXEND	D8	DC
JQXFLAG1	A0	
JQXFLAG2	A2	
JQXFLAG3	A3	
JQXIJNUM	A4	
JQXIT141	B0	
JQXIT142	B4	
JQXJCLAS	98	
JQXJNUMQ	B8	
JQXJQEBI	BD	
JQXLEN_Z2	BC	3C
JQXMAXCC	85	
JQXMAXRC	84	
JQXMXAB	84	80
JQXMXABN	84	5
JQXMXCAB	84	6
JQXMXCAN	84	4
JQXMXCC	84	2
JQXMXCDE	84	40
JQXMXCDS	84	E0
JQXMXCNV	84	9
JQXMXEOM	84	8
JQXMXFLU	84	B
JQXMXIND	84	
JQXMXJCL	84	3
JQXMXJRC	84	20

Table 259. Cross Reference for $JQE (continued)

Name	Offset	Hex Tag
JQXMXNRM	84	1
JQXMXSEC	84	7
JQXMXSYS	84	A
JQXMXUNK	84	0
JQXNJIXI	B9	
JQXNWSID	A4	
JQXRDMBR	C8	
JQXRDRON	C0	
JQXRDTON	C4	
JQXRECCT	80	
JQXSB1	8C	80
JQXSB2	A4	98
JQXSB3	B4	AC
JQXSB4	D8	C0
JQXSIZE	D8	5C
JQXTGWRP	A1	
JQXVRZ11	80	9
JQXVRZ2	80	8
JQXWSNXT	90	
JQXWSPRV	94	
JQXZJCIX	D8	
JQXZNAME	C9	
JQXZ11LN	D8	5C
JQX1AWFL	A0	1
JQX1BSPL	A0	2
JQX1CTKN	A0	20
JQX1DFQ	A0	10
JQX1LSPN	A0	8
JQX1TSRV	A0	80
JQX1WLM	A0	40
JQX1XWTR	A0	4
JQX2ASYM	A2	2
JQX2JNOT	A2	10
JQX2MAXR	A2	4
JQX2NENF	A2	8
JQX2SYMT	A2	1
JQX2TPAR	A2	40
JQX2UCOR	A2	20
JQX3CVSY	A3	80
JQX3INST	A3	40
JQX3JBGR	A3	20
JQX3JGCM	A3	2
JQX3JGCS	A3	4
JQX3JLSP	A3	8
JQX3RJGR	A3	10

Chapter 120. $JQRWORK Information

$JQRWORK Heading Information

Common Name:	JES2 JQE request PCE Work Area
Macro ID:	$JQRWORK
DSECT Name:	PCE ($JQRWORK is part of the PCE DSECT)
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4
Storage Attributes:	Subpool: See $PCE Key: See $PCE Residency: See $PCE
Size:	See symbol JQRPCEWL for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by:	See $PCE
Pointed to by:	The $JQRPCE field of the $HCT data area See $PCE for other pointer fields that apply to all PCE types.
Serialization:	Normal PCE dispatch serialization
Function:	The fields in this work area are used by the JES2 JQE request Processor. $JQRWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $JQRWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEJQRID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

$JQRWORK mapping

Table 260. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
320	(140)	SIGNED	4	JQRPALET	JQRB data space ALET
324	(144)	ADDRESS	4	JQRJQA	Address of current JQA
328	(148)	ADDRESS	4	JQRJCT	Address of current JCT
332	(14C)	ADDRESS	4	JQRIOT	Address of current IOT
336	(150)	BITSTRING	1	JQRFLAG1	General flag byte
		1...		JQR1BRTL	"B'10000000'" BERT lock held
		.1..		JQR1QSUS	"B'01000000'" Wait for the queues
		..1.		JQR1CKPW	"B'00100000'" Wait for CKPT write
		...1		JQR1BUFR	"B'00010000'" Wait for free buffers
337	(151)	BITSTRING	1	JQRQUE	New queue from JQRB
338	(152)	BITSTRING	2	JQRRSV1	Reserved

Table 260. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
340	(154)	SIGNED	4	JQRRQJRA(0)	Request Job ID Request Area
340	(154)	CHARACTER	4	JQRJQRID	ID for JQR requestor
344	(158)	SIGNED	2	JQRRQJAS	Request Job ID ASID
346	(15A)	BITSTRING	2	JQRRQJRE	Req Job ID Request Area End
348	(15C)	SIGNED	4	JQRASDSA	ASDS data space ALET
352	(160)	CHARACTER	8	JQRWJOBC	Job class work area
360	(168)	CHARACTER	8	JQRWSRVC	Service class work area
368	(170)	ADDRESS	4	JQRWSJBQ	Address of current SJB queue head
372	(174)	ADDRESS	4	JQRSQD	Address of SQD or zero
376	(178)	SIGNED	4	JQRNRTCD	New route code for $R XEQ job modify request
384	(180)	DBL WORD	8	(0)	Alignment
384	(180)	X'40'	0	JQRPCEWL	"*-PCEWORK" Length of misc PCE work area

Table 261. Cross Reference for $JQRWORK

Name	Offset	Hex Tag
JQRASDSA	15C	
JQRFLAG1	150	
JQRIOT	14C	
JQRJCT	148	
JQRJQA	144	
JQRJQRID	154	
JQRNRTCD	178	
JQRPALET	140	
JQRPCEWL	180	40
JQRQUE	151	
JQRRQJAS	158	
JQRRQJRA	154	
JQRRQJRE	15A	
JQRRSV1	152	
JQRSQD	174	
JQRWJOBC	160	
JQRWSJBQ	170	
JQRWSRVC	168	
JQR1BRTL	150	80
JQR1BUFR	150	10
JQR1CKPW	150	20
JQR1QSUS	150	40
PCE	0	

Chapter 121. $JRW Information

$JRW Programming Interface Information

$JRW is a programming interface.

$JRW Heading Information

Common Name: JES2 Job Receiver Work Area
Macro ID: $JRW
DSECT Name: JRW
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: none
Storage Attributes:
```
Subpool:   See $PCE (JES2 address space)
0  (NETSRV address space)
Key:       See $PCE (JES2 address space)
0  (NETSRV address space)
Residency: See $PCE (JES2 address space)
Virtual and real storage are anywhere (above or
below 16M) in private storage (NETSRV address space)
```

Size: See JRWLEN
Created by:
```
See $PCE (JES2 address space)
Subtask initialization exit (NETSRV address space)
```
Pointed to by:
```
NSSTJRWA field of the $NSST data area
RDRCWKAR label of the $RDRWORK data area
X002AREA field of the $XPL     data area
X003AREA field of the $XPL     data area
X004AREA field of the $XPL     data area
X020AREA field of the $XPL     data area
X050AREA field of the $XPL     data area
X052AREA field of the $XPL     data area
X053AREA field of the $XPL     data area
X054AREA field of the $XPL     data area
Imbedded in the PCE in the JES2 address space.
See $PCE for other pointer fields that apply to
all PCE types.
```
Serialization: Normal PCE dispatch serialization
Function:
```
The fields in this work area are used by a JES2 input
processing PCEs, including NJE job receivers, card
readers, internal readers, RJE card readers, and
internal job creation.  This includes support routines
and exits.  $JRW maps the fields that are used by
common service routines in both the JES2 address space
and the NETSRV address spaces.
```

$JRW mapping

Table 262. Structure JRW

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JRW	, JRW mapped as $NJEWORK
0	(0)	CHARACTER	4	JRWEYE	Eyecatcher

Table 262. Structure JRW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	CHARACTER	10	JRWDEVN	Device name
14	(E)	BITSTRING	1	JRWDEVTP	Device type
15	(F)	BITSTRING	3	JRWDEVID	Device id
18	(12)	BITSTRING	2	JRWCRSV1	Reserved
20	(14)	ADDRESS	4	JRWWAVE	WAVE address
24	(18)	ADDRESS	4	JRWSQD	SQD address
28	(1C)	ADDRESS	4	JRWPAREA	Address of PCL area for this subdevice
32	(20)	ADDRESS	4	JRWAREA	Address of TSCT area for this subdevice (NETSRV address space only)
36	(24)	ADDRESS	4	JRWNSST	Address of NSST (NETSRV address space only)
40	(28)	ADDRESS	4	JRWTBUF	Address of associated TBUF
44	(2C)	ADDRESS	4	JRWTAREA	Address of rolling trace area (NETSRV addrspc only)
48	(30)	SIGNED	4	JRWECBCC	Contents of POSTed ECB
52	(34)	ADDRESS	4	JRWNITAD	Address of adjacent NIT
56	(38)	ADDRESS	4	JRWNITAL	ALET of adjacent NIT
60	(3C)	ADDRESS	4	JRWNITBL	Address of NIT table
THE FOLLOWING TWO FIELDS MUST BE KEPT TOGETHER					
64	(40)	SIGNED	4	JRWXTIME	Time offload DS allocated
68	(44)	SIGNED	4	JRWXDATE	Date offload DS allocated
72	(48)	SIGNED	4	JRWCLRST(0)	Start of area to clear
72	(48)	ADDRESS	4	JRWJQA	Address of JQA
72	(48)	X'48'	0	JRWJQE	"JRWJQA" Address of JQE
76	(4C)	ADDRESS	4	JRWJCT	Address of JCT
80	(50)	ADDRESS	4	JRWIOT	Address of IOT
80	(50)	X'50'	0	JRWIOTBF	"JRWIOT" Address of IOT
84	(54)	ADDRESS	4	JRWNJH	Network job header address
88	(58)	ADDRESS	4	JRWNJT	Network job trailer address
92	(5C)	SIGNED	4	JRWRCOUN	Number of records sent/received
96	(60)	ADDRESS	4	JRWCUREC	Current record count, not including header/trailer records
100	(64)	CHARACTER	8	JRWJOBID	Job id of active job
108	(6C)	BITSTRING	1	JRWNERRC	Error code
108	(6C)	X'1'	0	JRWNEJOB	"1" JQE/JOE Mismatch
108	(6C)	X'2'	0	JRWNEJOE	"2" Invalid mix of spin/nonspin
108	(6C)	X'3'	0	JRWNESUB	"3" Subtask failure
108	(6C)	X'4'	0	JRWNEOPE	"4" OPEN failure
108	(6C)	X'5'	0	JRWNECLO	"5" CLOSE failure
108	(6C)	X'6'	0	JRWNEIOE	"6" I/O error
108	(6C)	X'7'	0	JRWNECBI	"7" CBIO failure
108	(6C)	X'8'	0	JRWNENJH	"8" NJE Header/Trailer build
108	(6C)	X'9'	0	JRWNESEQ	"9" Record sequencing error
108	(6C)	X'A'	0	JRWNEGG	"10" Grouping error
108	(6C)	X'B'	0	JRWNESJF	"11" SJF error
108	(6C)	X'C'	0	JRWNESAF	"12" SAF check failure
109	(6D)	BITSTRING	7	JRWCRSV2	Reserved
120	(78)	DBL WORD	8	JRWDBL	Doubleword work area
128	(80)	DBL WORD	8	JRWDBLE	Doubleword work area 2
136	(88)	DBL WORD	8	JRWDBLE1	Doubleword work area 3

Table 262. Structure JRW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
136	(88)	X'80'	0	JRWWRK16	"JRWDBLE,16,C'X'" 16-byte work area
136	(88)	X'78'	0	JRWWRK24	"JRWDBL,24,C'X'" 24-byte work area
144	(90)	DBL WORD	8	(0)	Force alignment
144	(90)	X'48'	0	JRWCLEAR	"JRWCLRST,*-JRWCLRST,C'X'" Area to clear
144	(90)	BITSTRING	1	JRW$EXP	'EXPECTED' TYPES (FLAGS)
145	(91)	BITSTRING	1	JRW$LST	'LAST RECEIVED' TYPE (FLAG)
		1...		JRW$JH	"B'10000000'" JOB HEADER
		.1..		JRW$JT	"B'01000000'" JOB TRAILER
		..1.		JRW$DSH	"B'00100000'" DATA SET HEADER
		...1		JRW$DST	"B'00010000'" DATA SET TRAILER (NOT USED)
		.... 1...		JRW$DATA	"B'00001000'" DATA RECORD
		.... .1..		JRW$EOF	"B'00000100'" NORMAL END-OF-FILE
		.... ..1.		JRW$JES2	"B'00000010'" JES2 SECTION RECEIVED
		1		JRW$SPOF	"B'00000001'" OFFLOAD SECTION RECEIVED
146	(92)	BITSTRING	1	JRWFLAG2	Control flags
JRW2SYSN indicates sysin data being processed and any JCL/JECL will end data. JRW2DATA is any data that must be terminated by a DLM card.					
		1...		JRW2SYSN	"B'10000000'" Processing SYSIN
		.1..		JRW2DATA	"B'01000000'" Processing data cards
		..1.		JRW2JCL	"B'00100000'" Processing JCL card
		...1		JRW2JECL	"B'00010000'" Processing JECL card
		.... 1...		JRW2CONT	"B'00001000'" Processing continuation
		.... .1..		JRW2QUOT	"B'00000100'" Processing unended quote
		.... ..1.		JRW2CMNT	"B'00000010'" Processing comment cont
146	(92)	X'E'	0	JRW2CNTS	"JRW2CONT+JRW2QUOT+JRW2CMNT" All continuations
		1		JRW2SPCN	"B'00000001'" Processing paren cont
147	(93)	BITSTRING	1	JRWFLAG3	Control flags
		1...		JRW3SKIP	"B'10000000'" Skipping for job card message issued
		.1..		JRW3FLSH	"B'01000000'" Flushing input stream (look for delimiter)
		..1.		JRW3FEOF	"B'00100000'" Flushing until EOF
		...1		JRW3FAIL	"B'00010000'" Fail job at end of input
		.... 1...		JRW3SKGT	"B'00001000'" Reprocess current record
		.... .1..		JRW3STNF	"B'00000100'" Store and forward steam

Table 262. Structure JRW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ..1.		JRW3XMIT	"B'00000010'" XMIT stream
		1		JRW3PURG	"B'00000001'" Job is to be purged
148	(94)	BITSTRING	1	JRWFLAG4	Control flags
		1...		JRW4ILLC	"B'10000000'" Illegal continuation
		.1..		JRW4ILCD	"B'01000000'" Deferred continuation err
		..1.		JRW4JQSA	"B'00100000'" $JQESERV ADD in progress
		...1		JRW4ILCB	"B'00010000'" Illegal continuation before exit
		.... 1...		JRW4FJCE	"B'00001000'" Fatal job card error
		.... .1..		JRW4FBCL	"B'00000100'" CLASS= on job card bad
		.... ..1.		JRW4NOCL	"B'00000010'" Bypass JOB class verification
		1		JRW4M21	"B'00000001'" Convert on >= 2.1
149	(95)	BITSTRING	1	JRWCPSWK	Caller PSW byte 1 (key)
150	(96)	BITSTRING	1	JRWFLAG5	Control flags
		1...		JRW5JPPR	"B'10000000'" JOBPARM PROCLIB seen
		.1..		JRW5JCPR	"B'01000000'" JCLLIB PROCLIB seen
		..1.		JRW5UCRS	"B'00100000'" Field JRWJRUCR was set
		...1		JRW5OFLF	"B'00010000'" OFFLOADn.JR being flushed
		.... 1...		JRW5CERR	"B'00001000'" JCL error message pending
		.... .1..		JRW5AVF	"B'00000100'" JOB failed SAF VERIFYX
		.... ..1.		JRW5GRP	"B'00000010'" Job created due to JOBGROUP processing
		1		JRW5GRPH	"B'00000001'" JOBGROUP created as HELD
151	(97)	BITSTRING	1	JRWFLAG6	Control flags
		1...		JRW6SPAR	"B'10000000'" Spaces in PARENs allowed
		.1..		JRW6ICSC	"B'01000000'" Special case continuation error (col 72 non blank and 71 end of operand)
		..1.		JRW6JBAD	"B'00100000'" JOBGROUP name contains bad characters
		...1		JRW6MSGP	"B'00010000'" Set logging job JESJCLIN PDDB as not printable
		.... 1...		JRW6SKIP	"B'00001000'" Skipping for JOBGROUP card issued
		.... .1..		JRW6JES3	"B'00000100'" JES3 JECL syntax / (together with JRW2JECL)
152	(98)	DBL WORD	8	JRWTMP8	8 byte work area
160	(A0)	BITSTRING	32	JRWTMP32	32 byte work area

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Table 262. Structure JRW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
160	(A0)	BITSTRING	24	JRWSTIML	REMOTE STIMERM SET PARM LIST
		Job reader card buffer (RJCB) queues The queus are used as follows: JRWRJCB - Cards that represent the current JCL card being processed. These cards are represented in JRWSTMT JRWRJCBN - These are cards that are queued for processing after the current cards in JRWRJCB are processed. There were either generated internally or were added by an exit JRWRJCBF - Free RJCBs that are ready for re-use JRWRJCBX - These are the job cards that have already been written to the JCLIN data set and are waiting to be written to the SYSIN data set for XBM processing. JRWRJCBS - SCRs that are to be written after the cards in JRWRJCB (if any) are processed. JRWRJCBP - One pending SCR that is to be written when the next data or JCL card is encountered. JRWRJCBM - Messages that need to be processed after the current cards (JRWRJCB) are written. JRWRJCBC - CMBs that need to be processed after the current cards (JRWRJCB) are written. JRWRJCBI - RJCB that represents a SYSIN or delimiter card added by an exit			
192	(C0)	SIGNED	4	JRWRJCB1(0)	First queue of RJCBs
192	(C0)	ADDRESS	4	JRWRJCB	Current card buffer head
196	(C4)	ADDRESS	4	JRWRJCBN	Next card buffer head
200	(C8)	ADDRESS	4	JRWRJCBF	Free card buffer head
204	(CC)	ADDRESS	4	JRWRJCBX	XBM card queue
208	(D0)	ADDRESS	4	JRWRJCBS	SCR queue
212	(D4)	ADDRESS	4	JRWRJCBP	Pending SCR queue
216	(D8)	ADDRESS	4	JRWRJCBM	Message queue
220	(DC)	ADDRESS	4	JRWRJCBC	CMB queue
224	(E0)	ADDRESS	4	JRWRJCBI	SYSIN/delimiter RJCB
224	(E0)	X'9'	0	JRWRJCNM	"(*-JRWRJCB1)/4" Number of RJCB queues
228	(E4)	ADDRESS	4	(2)	Reserved for future use
		Current logical statement work areas			
236	(EC)	ADDRESS	4	JRWSTMT	Pointer to statement buffer
240	(F0)	ADDRESS	4	JRWSTMTE	1st free byte in buffer
244	(F4)	SIGNED	2	JRWSTMTS	Size of JRWSTMT area
246	(F6)	SIGNED	2	JRWPARCT	Parenthesis count
248	(F8)	CHARACTER	12	JRWSTMTV	JCL/JECL verb for statement in 4K buffer
260	(104)	CHARACTER	8	JRWSTMTL	JCL label for verb in 4K buffer
268	(10C)	SIGNED	4	JRWSTMTC	Count of cards in current statement
		RCARDSCN work areas			
272	(110)	CHARACTER	12	JRWRSCNK	Scanned keyword

Table 262. Structure JRW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
284	(11C)	SIGNED	2	JRWRSCNL	Value length (-1 implies missing required keyword)
286	(11E)	SIGNED	2	JRWRSCNP	Number of positionals found
288	(120)	SIGNED	2	JRWRSCNM	# of list elements found
290	(122)	BITSTRING	1	JRWRSCER	RCARDSCN error code
290	(122)	X'1'	0	JRWRSCOP	"1" Operand error code
290	(122)	X'2'	0	JRWRSCKY	"2" Keyword error code
291	(123)	BITSTRING	1	JRWRSFL1	RCARDSCN Flag 1
		1...		JRWRSLNG	"B'10000000'" Statement label is longer than 8 characters
292	(124)	CHARACTER	768	JRWRSCNV	Keyword value
	Routing information areas				
1060	(424)	SIGNED	2	JRWXEQND	Default execution node
1062	(426)	SIGNED	2	JRWJRMNO	Device modify node number
1064	(428)	SIGNED	4	JRWRDRT(0)	Source (origin) route code
1064	(428)	SIGNED	2	JRWRDNOD	Node number
1066	(42A)	SIGNED	2	JRWRDRTE	Remote number
1068	(42C)	SIGNED	4	JRWPRINT(0)	Default print route code
1068	(42C)	SIGNED	2	JRWPRNOD	Node number
1070	(42E)	SIGNED	2	JRWPRRTE	Local printer/remote number
1072	(430)	CHARACTER	8	JRWPRSER	Print userid
1080	(438)	SIGNED	4	JRWPUNCH(0)	Default punch route code
1080	(438)	SIGNED	2	JRWPUNOD	Node number
1082	(43A)	SIGNED	2	JRWPURTE	Local punch/remote number
1084	(43C)	CHARACTER	8	JRWPUSER	Punch userid
	General work/data areas				
1092	(444)	BITSTRING	216	JRWMSG	Input processing msg area
1308	(51C)	BITSTRING	120	JRWGRARE	GROUP processing work area
1428	(594)	BITSTRING	152	JRWSAFI	SAFINFO parameter list
1580	(62C)	ADDRESS	4	JRWTWA	Address of token work area
1584	(630)	ADDRESS	4	JRWTOKA	Input token for JOBVALM
1588	(634)	ADDRESS	4	JRWJECLT	Addr of JECL table
1592	(638)	ADDRESS	4	JRWJCTSV	JCT address obtained at NJE JOB header time
	JRWCLASX is filled in at the beginning of the input processing. It represents the offset within the JCT of the JCTX segment for advanced features. If zero, the offset has not yet been computed. If negative the JCTX is damaged and a message reporting the damage has already been issued (HASP110).				
1596	(63C)	SIGNED	4	JRWCLASX	Offset of advanced features JCTX extension extension.
1600	(640)	ADDRESS	4	JRWIOTL	Address of last IOT
1604	(644)	SIGNED	2	JRWIOTCT	Count of IOT's used
1606	(646)	SIGNED	2		Reserved
1608	(648)	ADDRESS	4	JRWOCT	Output control table addr
1612	(64C)	ADDRESS	4	JRWPOCT	Pending OCT buffer address
1616	(650)	ADDRESS	4	JRWPDDB	Current SYSIN PDDB address
1620	(654)	CHARACTER	2	JRWJPRIO	Priority from PRIO or PRTY=
1622	(656)	CHARACTER	1	JRWMCLAS	Default msgclass
1623	(657)	BITSTRING	1	JRWPRINC	Priority increment

Table 262. Structure JRW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1624	(658)	BITSTRING	1	JRWPRLIM	Priority limit
1625	(659)	BITSTRING	3		Reserved
1628	(65C)	CHARACTER	8	JRWJCLAS	Default job class
1636	(664)	CHARACTER	8	JRWSVCLS	Original job class (Saved)
1644	(66C)	CHARACTER	8	JRWOJCLS	Override JOBCLASS value
1652	(674)	CHARACTER	8	JRWXBMPR	Procname for XBM/2 job
1660	(67C)	CHARACTER	32	JRWJRUCR	User portion of a Job Correlator
1692	(69C)	SIGNED	4	JRWINJNO	Initial job number
1696	(6A0)	ADDRESS	4	JRWNJOFF	Address of offload section
1700	(6A4)	BITSTRING	4	JRWSAF	System affinity
1704	(6A8)	BITSTRING	1	JRWPSWD	PASSWORD processing field
		1		$RPASFND	"B'00000001'" PASSWORD processed
		.... ..1.		$RJOBERR	"B'00000010'" Error on JOB card
		.... .1..		$RPSWPRC	"B'00000100'" PASSWORD processing
		.... 1...		$RJOBFND	"B'00001000'" JOB card being processed
		...1		$RPSWCNT	"B'00010000'" PASSWORD continuation found in RPUTSCAN routine
		..1.		$RNPASER	"B'00100000'" Encrypted password network protocol error detected
1705	(6A9)	BITSTRING	1	JRWSW1	Input switches
		1...		JRW1XBCH	"B'10000000'" Xeq batch monitor class job
		.1..		JRW1JVFY	"B'01000000'" Job has been verified
		..1.		JRW1SREQ	"B'00100000'" Submittor token required
		...1		JRW1IXEQ	"B'00010000'" Invalid XEQ card detected
		.... 1...		JRW1JKIL	"B'00001000'" Job killed via RJOBKILL
		.... .1..		JRW1XBGN	"B'00000100'" XBM generated cards added
		.... ..1.		JRW1SAFF	"B'00000010'" JOB stmt SYSAFF processed
		1		JRW1SYS	"B'00000001'" JOB stmt SYSTEM processed
1706	(6AA)	BITSTRING	1	JRWSW2	Input switches
		1...		JRW2JSRD	"B'10000000'" At least one JOB stmt read since the last physical EOF
		.1..		JRW2IND	"B'01000000'" Independent mode
		..1.		JRW2XMIT	"B'00100000'" Off - XMIT allowed after job or comment cards On - XMIT not allowed
		...1		JRW2JCLH	"B'00010000'" TYPRUN=JCLHOLD
		.... 1...		JRW2JBON	"B'00001000'" $HASP100 msg issued
		.... .1..		JRW2COPY	"B'00000100'" TYPRUN=COPY flag
		.... ..1.		JRW2ASAF	"B'00000010'" System affinity from MVS

Table 262. Structure JRW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1		JRW2JCAN	"B'00000001'" NJE job cancel switch
1707	(6AB)	BITSTRING	1	JRWSW3	Input switches
		1...		JRW3MAIN	"B'10000000'" SRIP caller main task
		.1..		JRW3SUBT	"B'01000000'" SRIP caller sub task
		..1.		JRW3USER	"B'00100000'" SRIP caller user space
		...1		JRW3MULT	"B'00010000'" Multiple job cards found
		.... 1...		JRW3SHLD	"B'00001000'" Hold job for spof smf
		.... .1..		JRW3JHLD	"B'00000100'" Device TYPRUN=HOLD
		.... ..1.		JRW3DHDR	"B'00000010'" An NJE header has had its processing deferred
1708	(6AC)	BITSTRING	1	JRWSW4	Input switches
		1...		JRW4JCLE	"B'10000000'" Job contains a JECL error
1709	(6AD)	BITSTRING	1	JRWSW5	Input switches
		...1		JRW5E20T	"B'00010000'" Job terminated by exit 20
1710	(6AE)	BITSTRING	1	JRWMXIND	Reason for terminating input - see JQXMXIND for possible values
1711	(6AF)	SIGNED	1	JRWNEXTQ	Next phase of processing
1712	(6B0)	BITSTRING	1	JRWDELRS	"JOB DELETED" reason code
1712	(6B0)	X'1'	0	JRWDJOBC	"1" Illegal JOB card
1712	(6B0)	X'2'	0	JRWDXIT4	"2" EXIT 4 illegal cntrl card
1712	(6B0)	X'3'	0	JRWDCONT	"3" Error on continuation
1712	(6B0)	X'4'	0	JRWDDELP	"4" DEL or PURGE JECL
1712	(6B0)	X'5'	0	JRWDOPER	"5" Operator command
1712	(6B0)	X'6'	0	JRWDERR	"6" Processing error
1712	(6B0)	X'7'	0	JRWDIOER	"7" I/O error
1712	(6B0)	X'8'	0	JRWDJECL	"8" Illegal JECL card
1712	(6B0)	X'9'	0	JRWDXEQN	"9" Illegal execution node
1712	(6B0)	X'A'	0	JRWDSYSN	"10" Excessive SYSIN stmts
1712	(6B0)	X'B'	0	JRWDSTOP	"11" Device canceled or stoped
1712	(6B0)	X'C'	0	JRWDACCT	"12" Illegal acct field JOB card
1712	(6B0)	X'D'	0	JRWDSAF	"13" Unsupported SAF return code
1712	(6B0)	X'E'	0	JRWDPROT	"14" NJE protocol error
1712	(6B0)	X'F'	0	JRWDXMIT	"15" JCL XMIT card error
1712	(6B0)	X'10'	0	JRWDDATA	"16" JCL DD DATA card error
1712	(6B0)	X'11'	0	JRWDJSMT	"17" Job symbols not spooled
1712	(6B0)	X'12'	0	JRWDCNGR	"18" Error on GROUP card continuation
1712	(6B0)	X'13'	0	JRWDJNAL	"19" Not allowed JECL card
Reason codes in this byte need to be added to HASP119 msg					
1713	(6B1)	BITSTRING	1	JRWACCTL	Length of accounting string
1714	(6B2)	BITSTRING	1	JRWRAUTH	Reader command authority
1715	(6B3)	BITSTRING	1		Reserved
1716	(6B4)	SIGNED	2	JRWDLM(0)	Input data set delimiter
1718	(6B6)	BITSTRING	1	JRWFLAGX	Reader exits flag byte

Table 262. Structure JRW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1		JRWXJCL	"B'00000001'" JCL card detected
1718	(6B6)	X'1'	0	RDWXJCL	"JRWXJCL" Compatibility
		.... ..1.		JRWXJECL	"B'00000010'" JECL card detected
1718	(6B6)	X'2'	0	RDWXJECL	"JRWXJECL" Compatibility
		.... .1..		JRWXJOBC	"B'00000100'" JOB card detected
1718	(6B6)	X'4'	0	RDWXJOBC	"JRWXJOBC" Compatibility
		.... 1...		JRWXCONT	"B'00001000'" Continuation card detected
1718	(6B6)	X'8'	0	RDWXCONT	"JRWXCONT" Compatibility
		...1		JRWXXSNC	"B'00010000'" Exit supplied next card
1718	(6B6)	X'10'	0	RDWXXSNC	"JRWXXSNC" Compatibility
		..1.		JRWXXSEM	"B'00100000'" Exit supplied error message
1718	(6B6)	X'20'	0	RDWXXSEM	"JRWXXSEM" Compatibility
		.1..		JRWXJOBP	"B'01000000'" JOBPARM card detected
1718	(6B6)	X'40'	0	RDWXJOBP	"JRWXJOBP" Compatibility
		JECL processing options for the job Bits should be defined the same as X002ECLT, X052ECLT, X003ECLT and X053ECLT			
1719	(6B7)	BITSTRING	1	JRWECLT	Job JECL processing:
		1...		JRWECLJ2	"B'10000000'" Process JES2 JECL
		.1..		JRWECLJ3	"B'01000000'" Process JES3 JECL
		JECL processing options for JES2 and JES3. Format is the same as $J2CLOPT and $J2CLOPT in $HCT			
1720	(6B8)	BITSTRING	4	JRWJ2CLO	JES2 JECL options
1720	(6B8)	X'6B8'	0	JRWJ2CL1	"JRWJ2CLO+0,1" first byte of JRWJ2CLO
1720	(6B8)	X'6B9'	0	JRWJ2CL2	"JRWJ2CLO+1,1" second byte of JRWJ2CLO
1720	(6B8)	X'6BA'	0	JRWJ2CL3	"JRWJ2CLO+2,1" third byte of JRWJ2CLO
1720	(6B8)	X'6BB'	0	JRWJ2CL4	"JRWJ2CLO+3,1" fourth byte of JRWJ2CLO
1724	(6BC)	BITSTRING	4	JRWJ3CLO	JES3 JECL options
1728	(6C0)	ADDRESS	4	JRWENTRY	Addr of entry point vector
		For internal readers, information on the submitter			
1732	(6C4)	CHARACTER	8	JRWSJBID	Id of current owner
1740	(6CC)	CHARACTER	8	JRWSJNAM	Name of current owner
1748	(6D4)	CHARACTER	8	JRWSUSR	'USER' from owner's ACEE
1756	(6DC)	CHARACTER	8	JRWSGRP	'GROUP' from owner's ACEE
		Information on last record read (RGET or passed to reader processing)			
1764	(6E4)	BITSTRING	1	JRWINFLG	Input record flags
1765	(6E5)	BITSTRING	1	JRWCCTL	Carriage control
1766	(6E6)	SIGNED	2	JRWCDLRL	Card logical record length
1766	(6E6)	X'6E7'	0	JRWCDLR1	"JRWCDLRL+1,1,C'X'" One byte LRECL for HASPRDR
1768	(6E8)	ADDRESS	4	JRWRECRD	Record address

Table 262. Structure JRW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		LRECL and RECFM information			
1772	(6EC)	BITSTRING	1	JRWCDLEN	Card length
1773	(6ED)	BITSTRING	1	JRWCDLRC	Card logical record control byte
1774	(6EE)	SIGNED	2	JRWDEFLR	Default LRECL for SYSIN DS
1776	(6F0)	BITSTRING	1	JRWDEFRF	Default RECFM for SYSIN DS, bits defined in DCB under DCBRECFM
1777	(6F1)	BITSTRING	1	JRWUDFRF	Ultimate default RECFM for SYSIN datasets for the job
1778	(6F2)	SIGNED	2	JRWMAXRL	Longest sysin record scanned so far
1780	(6F4)	SIGNED	2	JRWUDFLR	Ultimate default LRECL for SYSIN datasets for the job
1784	(6F8)	SIGNED	4	JRWDSKEY	Data set key
		Estimates for LINES/BYTES/CARDS/PAGES scanned from the job statement.			
1788	(6FC)	SIGNED	4	JRWESTLN	Line estimate
1792	(700)	SIGNED	4	JRWESTPU	Punch estimate
1796	(704)	SIGNED	4	JRWESTPG	Page estimate
1800	(708)	SIGNED	4	JRWESTBY	Byte estimate
1800	(708)	X'6FC'	0	JRWESTXX	"JRWESTLN,*-JRWESTLN" Length of all estimate flds
1804	(70C)	ADDRESS	4	JRWTCB	Owning TCB
1808	(710)	DBL WORD	8	JRWTEMP	Double word work area
		The following list represents entry points to routines that are environment peculiar. Users of routines in SRIP must fill in the addresses with entry point values that support the function. If the function is not supported in a particular environment, then the address is left as zero.			
1816	(718)	ADDRESS	4	JRW_BASE(0)	First routine address
1816	(718)	ADDRESS	4	JRW_RJQEUPD	JQE update routine
1820	(71C)	ADDRESS	4	JRW_RCLSSYSI	Close open SYSIN data set
1824	(720)	ADDRESS	4	JRW_WRTBUFRS	Write out buffers to SPOOL
1828	(724)	ADDRESS	4	JRW_WRJCTIOT	Finish write of JCT/IOTs
1832	(728)	ADDRESS	4	JRW_RWRTJOB	Ensure tracks obtained
1836	(72C)	ADDRESS	4	JRW_RQMODJOB	$QMOD JQE to proper queue
1840	(730)	ADDRESS	4	JRW_RJOBWTO	Job Receiver Notification
1844	(734)	ADDRESS	4	JRW_RJCBPROC	Process Q'ed Msgs/CMB JRCBs
1848	(738)	ADDRESS	4	JRW_RJCTTERM	JCT cleanup
1848	(738)	X'718'	0	JRW_LIST	"JRW_BASE,*-JRW_BASE" Environment list
1852	(73C)	SIGNED	4	(4)	Reserved
1872	(750)	DBL WORD	8	(0)	
1872	(750)	DBL WORD	8	(0)	Force Dword alignment
1872	(750)	BITSTRING	48	JRWCRTSY	Parm block for HASPRDDS.
1920	(780)	CHARACTER	1	JRWOPNSP	Open spool parm list
1920	(780)	X'7A0'	0	JRWLEN	"*-JRW" Length of area
		The following fields exist only in a JRW that is not in the JES2 address space (NETSERV, INTRDR, Request JOBID, etc)			
1952	(7A0)	ADDRESS	4	JRWSAVEA	JRW save area stack

Table 262. Structure JRW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1956	(7A4)	SIGNED	4	JRWHRGSV(4)	High half R14-R1 save area
1972	(7B4)	SIGNED	4	JRWARGSV(4)	AR14-AR1 save area
1988	(7C4)	BITSTRING	28	JRWPJCL	JCLIN data set parm list
2016	(7E0)	BITSTRING	28	JRWPSYSN	SYSIN data set parm list
2044	(7FC)	ADDRESS	4	JRWPCUR	Last JRWPUTPL used in I/O
2048	(800)	ADDRESS	4	JRWSJB	SJB address
2052	(804)	ADDRESS	4	(3)	Reserved
2064	(810)	BITSTRING	1	JRWNFLG1	Status flags
		1...		JRWN1ERR	"B'10000000'" Processing detected error
2065	(811)	BITSTRING	1	JRWNFLG2	Status flags
2066	(812)	BITSTRING	2		Reserved
2068	(814)	ADDRESS	4	JRWRJQE	Real JQE address in live
2072	(818)	SIGNED	4	JRWRJQEA	version and ALET
2080	(820)	DBL WORD	8	(0)	Align
2080	(820)	X'820'	0	JRWCLEN	"*-JRW" Length of JRW in NETSRV address space

Table 263. Structure RCSL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	RCSL	, Reader card scan DSECT
0	(0)	CHARACTER	12	RCSLKEY	Keyword
12	(C)	ADDRESS	4	RCSLRTN	Processing routine
16	(10)	BITSTRING	1	RCSLPOSN	Positional parm number (0 implies all positional)
17	(11)	BITSTRING	1	RCSLFLG1	Flag byte
		1...		RCSL1ASI	"B'10000000'" Leave apostrophes as is
		.1..		RCSL1NSP	"B'01000000'" Leave enclosing parens
		..1.		RCSL1REQ	"B'00100000'" Required operand
		...1		RCSL1BLK	"B'00010000'" Skip blanks after keyword
		.... 1...		RCSL1LST	"B'00001000'" Value is a list
18	(12)	BITSTRING	1	RCSLLSIZ	List element size
19	(13)	BITSTRING	1		Reserved
19	(13)	X'14'	0	RCSLELEN	"*-RCSL" Length of table entry

Table 264. Structure JRWPUTPL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JRWPUTPL	, CPUT parameter list DSECT
0	(0)	ADDRESS	4	JRWPLACB	ACB address
4	(4)	ADDRESS	4	JRWPLRPL	RPL address
8	(8)	ADDRESS	4	JRWPLDEB	DEB address
12	(C)	ADDRESS	4	JRWPLSDB	SDB address
16	(10)	ADDRESS	4	JRWPLREC	IAZYTDBC or record to put
20	(14)	BITSTRING	1	JRWPLCC	Carriage control
21	(15)	BITSTRING	1	JRWPLLRC	LRC to be used
22	(16)	SIGNED	2	JRWPLRCL	Record LRECL

Table 264. Structure JRWPUTPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
24	(18)	BITSTRING	1	JRWPLFG1	Control flags
		1...		JRWPL1DB	"B'10000000'" JRWPLREC points to a IAZYTDBC with record
		.1..		JRWPL1AS	"B'01000000'" Use ASYNC put (ie NETSRV)
		..1.		JRWPL1TR	"B'00100000'" Truncate current buffer
		...1		JRWPL1JL	"B'00010000'" JCL data set (will be read by converter)
	Work areas used by CPUT and close processing				
25	(19)	BITSTRING	1	JRWPLFG2	Data flag byte
		1...		JRWPL2FR	"B'10000000'" At least one record proc
		.1..		JRWPL2VA	"B'01000000'" Record sized vary
		..1.		JRWPL2CA	"B'00100000'" ASA control character found
		...1		JRWPL2CM	"B'00010000'" Machine control chars found
26	(1A)	SIGNED	2	JRWPLMLR	Max LRECL seen by RPUT
28	(1C)	SIGNED	4	(0)	Align
28	(1C)	X'1C'	0	JRWPLSIZ	"*-JRWPUTPL" Parameter list size

Table 265. Structure JRWGRP

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JRWGRP	, JOB GROUP DSECT
0	(0)	ADDRESS	8	JRWZOD	Address of ZOD associated with GRUP
8	(8)	CHARACTER	8	JRWGRPNM	GROUP/ZOD name
16	(10)	CHARACTER	8	JRWJOBNM	Name of last GJOB or JOBSET proceesed
24	(18)	CHARACTER	8	JRWTEMPX	Work variable
32	(20)	CHARACTER	80	JRWNAMAR	BEFORE/AFTER/CONCURRENT name array
112	(70)	SIGNED	4	JRWNUMEN	Number of entries in JRWNAMAR array
116	(74)	BITSTRING	1	JRWGFLA1	Group JCL parsing status
		1...		JRW1GRER	"B'10000000'" An error has been encountered and the GROUP must not live on.
		.1..		JRW1SCAN	"B'01000000'" TYPE=SCAN was specified on GROUP card
		..1.		JRW1GROP	"B'00100000'" A valid JOB GROUP is being processed - ZOD exists
		...1		JRW1PRVV	"B'00010000'" Previous card (GJOB or JOBSET) was valid. See JRWPRVCD to determine type of previous card
		.... 1...		JRW1ANYF	"B'00001000'" ANYFLUSH specified on GJOB or JOBSET denoted by JRWJOBNM

Table 265. Structure JRWGRP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		JRW1ALLF	"B'00000100'" ALLFLUSH specified on GJOB or JOBSET
		.... ..1.		JRW1BAOK	"B'00000010'" Before OR After name= processing was successful
		1		JRW1SJOB	"B'00000001'" Current JOBSET - at least one SJOB seen
117	(75)	BITSTRING	1	JRWPRVCD	Previous card processed.
		....		JRWNOTAP	"X'00'" Previous card not relevant
		1		JRWACTGJ	"X'01'" GJOB was previous card
		.... ..1.		JRWACTJS	"X'02'" JOBSET was previous card
117	(75)	X'8'	0	JRWNAMSZ	"8" Size of a NAME array entry
117	(75)	X'A'	0	JRWNAME#	"10" Number of NAME array entries
118	(76)	BITSTRING	1	JRWGFLA2	Flag 2
		1...		JRW2ENDG	"B'10000000'" End group card seen
119	(77)	BITSTRING	1		Slack byte
120	(78)	SIGNED	4	(0)	Align
120	(78)	X'78'	0	JRWGRSIZ	"*-JRWGRP" Group JRW size

Table 266. Cross Reference for $JRW

Name	Offset	Hex Tag
$RJOBERR	6A8	2
$RJOBFND	6A8	8
$RNPASER	6A8	20
$RPASFND	6A8	1
$RPSWCNT	6A8	10
$RPSWPRC	6A8	4
JRW	0	
JRW$DATA	91	8
JRW$DSH	91	20
JRW$DST	91	10
JRW$EOF	91	4
JRW$EXP	90	
JRW$JES2	91	2
JRW$JH	91	80
JRW$JT	91	40
JRW$LST	91	
JRW$SPOF	91	1
JRW_BASE	718	
JRW_LIST	738	718
JRW_RCLSSYSI	71C	
JRW_RJCBPROC	734	
JRW_RJCTTERM	738	
JRW_RJOBWTO	730	
JRW_RJQEUPD	718	
JRW_RQMODJOB	72C	
JRW_RWRTJOB	728	

Table 266. Cross Reference for $JRW (continued)

Name	Offset	Hex Tag
JRW_WRJCTIOT	724	
JRW_WRTBUFRS	720	
JRWACCTL	6B1	
JRWACTGJ	75	1
JRWACTJS	75	2
JRWAREA	20	
JRWARGSV	7B4	
JRWCCTL	6E5	
JRWCDLEN	6EC	
JRWCDLRC	6ED	
JRWCDLRL	6E6	
JRWCDLR1	6E6	6E7
JRWCLASX	63C	
JRWCLEAR	90	48
JRWCLEN	820	820
JRWCLRST	48	
JRWCPSWK	95	
JRWCRSV1	12	
JRWCRSV2	6D	
JRWCRTSY	750	0
JRWCUREC	60	
JRWDACCT	6B0	C
JRWDBL	78	
JRWDBLE	80	
JRWDBLE1	88	
JRWDCNGR	6B0	12
JRWDCONT	6B0	3
JRWDDATA	6B0	10
JRWDDELP	6B0	4
JRWDEFLR	6EE	
JRWDEFRF	6F0	
JRWDELRS	6B0	
JRWDERR	6B0	6
JRWDEVID	F	
JRWDEVN	4	
JRWDEVTP	E	
JRWDIOER	6B0	7
JRWDJECL	6B0	8
JRWDJNAL	6B0	13
JRWDJOBC	6B0	1
JRWDJSMT	6B0	11
JRWDLM	6B4	
JRWDOPER	6B0	5
JRWDPROT	6B0	E
JRWDSAF	6B0	D
JRWDSKEY	6F8	
JRWDSTOP	6B0	B
JRWDSYSN	6B0	A
JRWDXEQN	6B0	9

Table 266. Cross Reference for $JRW (continued)

Name	Offset	Hex Tag
JRWDXIT4	6B0	2
JRWDXMIT	6B0	F
JRWECBCC	30	
JRWECLJ2	6B7	80
JRWECLJ3	6B7	40
JRWECLT	6B7	
JRWENTRY	6C0	
JRWESTBY	708	
JRWESTLN	6FC	
JRWESTPG	704	
JRWESTPU	700	
JRWESTXX	708	6FC
JRWEYE	0	D1D9E640
JRWFLAGX	6B6	
JRWFLAG2	92	
JRWFLAG3	93	
JRWFLAG4	94	
JRWFLAG5	96	
JRWFLAG6	97	
JRWGFLA1	74	
JRWGFLA2	76	
JRWGRARE	51C	
JRWGRP	0	
JRWGRPNM	8	
JRWGRSIZ	78	78
JRWHRGSV	7A4	
JRWINFLG	6E4	
JRWINJNO	69C	
JRWIOT	50	
JRWIOTBF	50	50
JRWIOTCT	644	
JRWIOTL	640	
JRWJCLAS	65C	
JRWJCT	4C	
JRWJCTSV	638	
JRWJECLT	634	
JRWJOBID	64	
JRWJOBNM	10	
JRWJPRIO	654	
JRWJQA	48	
JRWJQE	48	48
JRWJRMNO	426	
JRWJRUCR	67C	
JRWJ2CLO	6B8	
JRWJ2CL1	6B8	6B8
JRWJ2CL2	6B8	6B9
JRWJ2CL3	6B8	6BA
JRWJ2CL4	6B8	6BB
JRWJ3CLO	6BC	

Table 266. Cross Reference for $JRW (continued)

Name	Offset	Hex Tag
JRWLEN	780	7A0
JRWMAXRL	6F2	
JRWMCLAS	656	
JRWMSG	444	
JRWMXIND	6AE	
JRWNAMAR	20	
JRWNAME#	75	A
JRWNAMSZ	75	8
JRWNECBI	6C	7
JRWNECLO	6C	5
JRWNEGG	6C	A
JRWNEIOE	6C	6
JRWNEJOB	6C	1
JRWNEJOE	6C	2
JRWNENJH	6C	8
JRWNEOPE	6C	4
JRWNERRC	6C	
JRWNESAF	6C	C
JRWNESEQ	6C	9
JRWNESJF	6C	B
JRWNESUB	6C	3
JRWNEXTQ	6AF	
JRWNFLG1	810	
JRWNFLG2	811	
JRWNITAD	34	
JRWNITAL	38	
JRWNITBL	3C	
JRWNJH	54	
JRWNJOFF	6A0	
JRWNJT	58	
JRWNOTAP	75	0
JRWNSST	24	
JRWNUMEN	70	
JRWN1ERR	810	80
JRWOCT	648	
JRWOJCLS	66C	
JRWOPNSP	780	
JRWPARCT	F6	
JRWPAREA	1C	
JRWPCUR	7FC	
JRWPDDB	650	
JRWPJCL	7C4	
JRWPLACB	0	
JRWPLCC	14	
JRWPLDEB	8	
JRWPLFG1	18	
JRWPLFG2	19	
JRWPLLRC	15	
JRWPLMLR	1A	

Table 266. Cross Reference for $JRW (continued)

Name	Offset	Hex Tag
JRWPLRCL	16	
JRWPLREC	10	
JRWPLRPL	4	
JRWPLSDB	C	
JRWPLSIZ	1C	1C
JRWPL1AS	18	40
JRWPL1DB	18	80
JRWPL1JL	18	10
JRWPL1TR	18	20
JRWPL2CA	19	20
JRWPL2CM	19	10
JRWPL2FR	19	80
JRWPL2VA	19	40
JRWPOCT	64C	
JRWPRINC	657	
JRWPRINT	42C	
JRWPRLIM	658	
JRWPRNOD	42C	
JRWPRRTE	42E	
JRWPRSER	430	
JRWPRVCD	75	0
JRWPSWD	6A8	
JRWPSYSN	7E0	
JRWPUNCH	438	
JRWPUNOD	438	
JRWPURTE	43A	
JRWPUSER	43C	
JRWPUTPL	0	
JRWRAUTH	6B2	
JRWRCOUN	5C	
JRWRDNOD	428	
JRWRDRT	428	
JRWRDRTE	42A	
JRWRECRD	6E8	
JRWRJCB	C0	
JRWRJCBC	DC	
JRWRJCBF	C8	
JRWRJCBI	E0	
JRWRJCBM	D8	
JRWRJCBN	C4	
JRWRJCBP	D4	
JRWRJCBS	D0	
JRWRJCBX	CC	
JRWRJCB1	C0	
JRWRJCNM	E0	9
JRWRJQE	814	
JRWRJQEA	818	
JRWRSCER	122	
JRWRSCKY	122	2

Table 266. Cross Reference for $JRW (continued)

Name	Offset	Hex Tag
JRWRSCNK	110	
JRWRSCNL	11C	
JRWRSCNM	120	
JRWRSCNP	11E	
JRWRSCNV	124	
JRWRSCOP	122	1
JRWRSFL1	123	
JRWRSLNG	123	80
JRWSAF	6A4	
JRWSAFI	594	
JRWSAVEA	7A0	
JRWSGRP	6DC	
JRWSJB	800	
JRWSJBID	6C4	
JRWSJNAM	6CC	
JRWSQD	18	
JRWSTIML	A0	0
JRWSTMT	EC	
JRWSTMTC	10C	
JRWSTMTE	F0	
JRWSTMTL	104	
JRWSTMTS	F4	
JRWSTMTV	F8	
JRWSUSR	6D4	
JRWSVCLS	664	
JRWSW1	6A9	
JRWSW2	6AA	
JRWSW3	6AB	
JRWSW4	6AC	
JRWSW5	6AD	
JRWTAREA	2C	
JRWTBUF	28	
JRWTCB	70C	
JRWTEMP	710	
JRWTEMPX	18	
JRWTMP32	A0	
JRWTMP8	98	
JRWTOKA	630	
JRWTWA	62C	
JRWUDFLR	6F4	
JRWUDFRF	6F1	
JRWWAVE	14	
JRWWRK16	88	80
JRWWRK24	88	78
JRWXBMPR	674	
JRWXCONT	6B6	8
JRWXDATE	44	
JRWXEQND	424	
JRWXJCL	6B6	1

Table 266. Cross Reference for $JRW (continued)

Name	Offset	Hex Tag
JRWXJECL	6B6	2
JRWXJOBC	6B6	4
JRWXJOBP	6B6	40
JRWXTIME	40	
JRWXXSEM	6B6	20
JRWXXSNC	6B6	10
JRWZOD	0	
JRW1ALLF	74	4
JRW1ANYF	74	8
JRW1BAOK	74	2
JRW1GRER	74	80
JRW1GROP	74	20
JRW1IXEQ	6A9	10
JRW1JKIL	6A9	8
JRW1JVFY	6A9	40
JRW1PRVV	74	10
JRW1SAFF	6A9	2
JRW1SCAN	74	40
JRW1SJOB	74	1
JRW1SREQ	6A9	20
JRW1SYS	6A9	1
JRW1XBCH	6A9	80
JRW1XBGN	6A9	4
JRW2ASAF	6AA	2
JRW2CMNT	92	2
JRW2CNTS	92	E
JRW2CONT	92	8
JRW2COPY	6AA	4
JRW2DATA	92	40
JRW2ENDG	76	80
JRW2IND	6AA	40
JRW2JBON	6AA	8
JRW2JCAN	6AA	1
JRW2JCL	92	20
JRW2JCLH	6AA	10
JRW2JECL	92	10
JRW2JSRD	6AA	80
JRW2QUOT	92	4
JRW2SPCN	92	1
JRW2SYSN	92	80
JRW2XMIT	6AA	20
JRW3DHDR	6AB	2
JRW3FAIL	93	10
JRW3FEOF	93	20
JRW3FLSH	93	40
JRW3JHLD	6AB	4
JRW3MAIN	6AB	80
JRW3MULT	6AB	10
JRW3PURG	93	1

Table 266. Cross Reference for $JRW (continued)

Name	Offset	Hex Tag
JRW3SHLD	6AB	8
JRW3SKGT	93	8
JRW3SKIP	93	80
JRW3STNF	93	4
JRW3SUBT	6AB	40
JRW3USER	6AB	20
JRW3XMIT	93	2
JRW4FBCL	94	4
JRW4FJCE	94	8
JRW4ILCB	94	10
JRW4ILCD	94	40
JRW4ILLC	94	80
JRW4JCLE	6AC	80
JRW4JQSA	94	20
JRW4M21	94	1
JRW4NOCL	94	2
JRW5AVF	96	4
JRW5CERR	96	8
JRW5E20T	6AD	10
JRW5GRP	96	2
JRW5GRPH	96	1
JRW5JCPR	96	40
JRW5JPPR	96	80
JRW5OFLF	96	10
JRW5UCRS	96	20
JRW6ICSC	97	40
JRW6JBAD	97	20
JRW6JES3	97	4
JRW6MSGP	97	10
JRW6SKIP	97	8
JRW6SPAR	97	80
RCSL	0	
RCSLELEN	13	14
RCSLFLG1	11	
RCSLKEY	0	
RCSLLSIZ	12	
RCSLPOSN	10	
RCSLRTN	C	
RCSL1ASI	11	80
RCSL1BLK	11	10
RCSL1LST	11	8
RCSL1NSP	11	40
RCSL1REQ	11	20
RDWXCONT	6B6	8
RDWXJCL	6B6	1
RDWXJECL	6B6	2
RDWXJOBC	6B6	4
RDWXJOBP	6B6	40
RDWXXSEM	6B6	20

Table 266. Cross Reference for $JRW (continued)

Name	Offset	Hex Tag
RDWXXSNC	6B6	10

Chapter 122. $JTW Information

$JTW Programming Interface Information

$JTW is a programming interface.

$JTW Heading Information

Common Name:	JES2 Job Transmitter Work Area
Macro ID:	$JTW
DSECT Name:	JTW
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	none
Storage Attributes:	Subpool: See $PCE (JES2 address space) 0 (NETSRV address space) Key: See $PCE (JES2 address space) 0 (NETSRV address space) Residency: See $PCE (JES2 address space) Virtual and real storage are anywhere (above or below 16M) in private storage (NETSRV address space)
Size:	See JTWLEN
Created by:	See $PCE (JES2 address space) Subtask initialization exit (NETSRV address space)
Pointed to by:	NSSTJTWA field of the $NSST data area X046AREA field of the $XPL data area X056AREA field of the $XPL data area Imbedded in the PCE in the JES2 address space. See $PCE for other pointer fields that apply to all PCE types.
Serialization:	Normal PCE dispatch serialization
Function:	The fields in this work area are used by a JES2 Job Transmitter Processor and by its support routines and exits. $JTW maps the fields that are used by common service routines in both the JES2 address space and the NETSRV address spaces.

$JTW mapping

Table 267. Structure JTW

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JTW	, JTW mapped as $NJEWORK
0	(0)	CHARACTER	4	JTWEYE	Eyecatcher
4	(4)	CHARACTER	10	JTWDEVN	Device name
14	(E)	BITSTRING	1	JTWDEVTP	Device type
15	(F)	BITSTRING	3	JTWDEVID	Device id
18	(12)	BITSTRING	2	JTWCRSV1	Reserved
20	(14)	ADDRESS	4	JTWWAVE	WAVE address
24	(18)	ADDRESS	4	JTWSQD	SQD address
28	(1C)	ADDRESS	4	JTWPAREA	Address of PCL area for this subdevice

Table 267. Structure JTW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
32	(20)	ADDRESS	4	JTWAREA	Address of TSCT area for this subdevice (NETSRV address space only)
36	(24)	ADDRESS	4	JTWNSST	Address of NSST (NETSRV address space only)
40	(28)	ADDRESS	4	JTWTBUF	Address of associated TBUF
44	(2C)	ADDRESS	4	JTWTAREA	Address of rolling trace area (NETSRV addrspc only)
48	(30)	SIGNED	4	JTWECBCC	Contents of POSTed ECB
52	(34)	ADDRESS	4	JTWNITAD	Address of adjacent NIT
56	(38)	ADDRESS	4	JTWNITAL	ALET of adjacent NIT
60	(3C)	ADDRESS	4	JTWNITBL	Address of NIT table
THE FOLLOWING TWO FIELDS MUST BE KEPT TOGETHER					
64	(40)	SIGNED	4	JTWXTIME	Time offload DS allocated
68	(44)	SIGNED	4	JTWXDATE	Date offload DS allocated
72	(48)	SIGNED	4	JTWCLRST(0)	Start of area to clear
72	(48)	ADDRESS	4	JTWJQA	Address of JQA
72	(48)	X'48'	0	JTWJQE	"JTWJQA" Address of JQE
76	(4C)	ADDRESS	4	JTWJCT	Address of JCT
80	(50)	ADDRESS	4	JTWIOT	Address of IOT
80	(50)	X'50'	0	JTWIOTBF	"JTWIOT" Address of IOT
84	(54)	ADDRESS	4	JTWNJH	Network job header address
88	(58)	ADDRESS	4	JTWNJT	Network job trailer address
92	(5C)	SIGNED	4	JTWRCOUN	Number of records sent/received
96	(60)	ADDRESS	4	JTWCUREC	Current record count, not including header/trailer records
100	(64)	CHARACTER	8	JTWJOBID	Job id of active job
108	(6C)	BITSTRING	1	JTWNERRC	Error code
108	(6C)	X'1'	0	JTWNEJOB	"1" JQE/JOE Mismatch
108	(6C)	X'2'	0	JTWNEJOE	"2" Invalid mix of spin/nonspin
108	(6C)	X'3'	0	JTWNESUB	"3" Subtask failure
108	(6C)	X'4'	0	JTWNEOPE	"4" OPEN failure
108	(6C)	X'5'	0	JTWNECLO	"5" CLOSE failure
108	(6C)	X'6'	0	JTWNEIOE	"6" I/O error
108	(6C)	X'7'	0	JTWNECBI	"7" CBIO failure
108	(6C)	X'8'	0	JTWNENJH	"8" NJE Header/Trailer build
108	(6C)	X'9'	0	JTWNESEQ	"9" Record sequencing error
108	(6C)	X'A'	0	JTWNEGG	"10" Grouping error
108	(6C)	X'B'	0	JTWNESJF	"11" SJF error
108	(6C)	X'C'	0	JTWNESAF	"12" SAF check failure
109	(6D)	BITSTRING	7	JTWCRSV2	Reserved
120	(78)	DBL WORD	8	JTWDBL	Doubleword work area
128	(80)	DBL WORD	8	JTWDBLE	Doubleword work area 2
136	(88)	DBL WORD	8	JTWDBLE1	Doubleword work area 3
136	(88)	X'80'	0	JTWWRK16	"JTWDBLE,16,C'X'" 16-byte work area
136	(88)	X'78'	0	JTWWRK24	"JTWDBL,24,C'X'" 24-byte work area
144	(90)	DBL WORD	8	(0)	Force alignment
144	(90)	X'48'	0	JTWCLEAR	"JTWCLRST,*-JTWCLRST,C'X'" Area to clear

Table 267. Structure JTW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
144	(90)	ADDRESS	4	JTWLOGST	Address of LOGSTR used in NJJTAUTH
THE FOLLOWING TWO FIELDS MUST BE KEPT TOGETHER					
152	(98)	DBL WORD	8		SNA WORK AREA
160	(A0)	BITSTRING	256	JTWWORK	WORK AREA
416	(1A0)	SIGNED	4	JTWNJTON(2)	PROCESSOR SIGN-ON TIME AND DATE
424	(1A8)	BITSTRING	1	JTWORCFM	Previous RECFM
425	(1A9)	BITSTRING	1	JTWNRCFM	New RECFM
426	(1AA)	SIGNED	2	JTWOLRCL	Previous LRECL
428	(1AC)	SIGNED	2	JTWNLRCL	New LRECL
430	(1AE)	BITSTRING	1	JTWFLAG1	FLAG BYTE
		1...		JTWF1MSG	"B'10000000'" INACTIVE MESSAGE HAS BEEN ISSUED
		.1..		JTWF1DAT	"B'01000000'" INVALID DATA BLOCK MSG REQUIRED
		..1.		JTWF1HLD	"B'00100000'" HOLD JOB AFTER RESTART OF DEVICE
		...1		JTWF1PEF	"B'00010000'" PASSWORD ENCRYPTION FAILED
		.... 1...		JTWF1JDM	"B'00001000'" Write JOB deleted message
		.... .1..		JTWF1CUQ	"B'00000100'" Return job to current queue
		.... ..1.		JTWF1NDT	"B'00000010'" No data records have been transmitted yet.
		1		JTWF1SRC	"B'00000001'" Found an SCR; LRECL/RECFM may have changed
431	(1AF)	BITSTRING	1		Reserved for future use
432	(1B0)	BITSTRING	1	JTWFLAG2	More flags
		1...		JTWF2AUT	"B'10000000'" Authorization failed
		.1..		JTWF2TRC	"B'01000000'" Truncate long SYSIN records
434	(1B2)	SIGNED	2	JTWPCEID	Processor Type
434	(1B2)	X'1B4'	0	JTWLEN	"*-JTW" Length of work DSECT
The following fields exist only in the JTW in the NETSRV address space					
436	(1B4)	ADDRESS	4	JTWACB	ACB address
440	(1B8)	ADDRESS	4	JTWRPL	RPL address
444	(1BC)	ADDRESS	4	JTWSJB	SJB address
448	(1C0)	ADDRESS	4	JTWSDB	SDB address
452	(1C4)	ADDRESS	4	JTWB32K	32K buffer containing record during RCCS send
456	(1C8)	BITSTRING	1	JTWNFLG1	Progress flags
		1...		JTWN1JHI	"B'10000000'" NJH creation in progress
		.1..		JTWN1JHC	"B'01000000'" NJH creation complete
		..1.		JTWN1JHS	"B'00100000'" NJH has been sent
		...1		JTWN1GTI	"B'00010000'" Get is in progress
		.... 1...		JTWN1JTI	"B'00001000'" NJT creation in progress

Table 267. Structure JTW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		JTWN1JTC	"B'00000100'" NJT creation complete
		.... ..1.		JTWN1JTS	"B'00000010'" NJT has been sent
		1		JTWN1EOT	"B'00000001'" EOT has been sent
457	(1C9)	BITSTRING	1	JTWNFLG2	Status flags
		1...		JTWN2ERR	"B'10000000'" Error, abort transmission
		.1..		JTWN2WJ2	"B'01000000'" Wait while JES2 down
		..1.		JTWN2XMS	"B'00100000'" Found 1st card to XMIT
464	(1D0)	DBL WORD	8	(0)	End of JTW area
464	(1D0)	X'1D0'	0	JTWCLEN	"*-JTW" Length of JTW in NETSRV address space

Table 268. Cross Reference for $JTW

Name	Offset	Hex Tag
JTW	0	
JTWACB	1B4	
JTWAREA	20	
JTWB32K	1C4	
JTWCLEAR	90	48
JTWCLEN	1D0	1D0
JTWCLRST	48	
JTWCRSV1	12	
JTWCRSV2	6D	
JTWCUREC	60	
JTWDBL	78	
JTWDBLE	80	
JTWDBLE1	88	
JTWDEVID	F	
JTWDEVN	4	
JTWDEVTP	E	
JTWECBCC	30	
JTWEYE	0	D1E3E640
JTWFLAG1	1AE	
JTWFLAG2	1B0	
JTWF1CUQ	1AE	4
JTWF1DAT	1AE	40
JTWF1HLD	1AE	20
JTWF1JDM	1AE	8
JTWF1MSG	1AE	80
JTWF1NDT	1AE	2
JTWF1PEF	1AE	10
JTWF1SRC	1AE	1
JTWF2AUT	1B0	80
JTWF2TRC	1B0	40
JTWIOT	50	
JTWIOTBF	50	50

Table 268. Cross Reference for $JTW (continued)

Name	Offset	Hex Tag
JTWJCT	4C	
JTWJOBID	64	
JTWJQA	48	
JTWJQE	48	48
JTWLEN	1B2	1B4
JTWLOGST	90	
JTWNECBI	6C	7
JTWNECLO	6C	5
JTWNEGG	6C	A
JTWNEIOE	6C	6
JTWNEJOB	6C	1
JTWNEJOE	6C	2
JTWNENJH	6C	8
JTWNEOPE	6C	4
JTWNERRC	6C	
JTWNESAF	6C	C
JTWNESEQ	6C	9
JTWNESJF	6C	B
JTWNESUB	6C	3
JTWNFLG1	1C8	
JTWNFLG2	1C9	
JTWNITAD	34	
JTWNITAL	38	
JTWNITBL	3C	
JTWNJH	54	
JTWNJT	58	
JTWNJTON	1A0	
JTWNLRCL	1AC	
JTWNRCFM	1A9	
JTWNSST	24	
JTWN1EOT	1C8	1
JTWN1GTI	1C8	10
JTWN1JHC	1C8	40
JTWN1JHI	1C8	80
JTWN1JHS	1C8	20
JTWN1JTC	1C8	4
JTWN1JTI	1C8	8
JTWN1JTS	1C8	2
JTWN2ERR	1C9	80
JTWN2WJ2	1C9	40
JTWN2XMS	1C9	20
JTWOLRCL	1AA	
JTWORCFM	1A8	
JTWPAREA	1C	
JTWPCEID	1B2	
JTWRCOUN	5C	
JTWRPL	1B8	
JTWSDB	1C0	
JTWSJB	1BC	

Table 268. Cross Reference for $JTW (continued)

Name	Offset	Hex Tag
JTWSQD	18	
JTWTAREA	2C	
JTWTBUF	28	
JTWWAVE	14	
JTWWORK	A0	
JTWWRK16	88	80
JTWWRK24	88	78
JTWXDATE	44	
JTWXTIME	40	

Chapter 123. $KAWA Information

$KAWA Heading Information

Common Name:	Checkpoint Allocation Work Area
Macro ID:	$KAWA
DSECT Name:	KAW
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	KAWA Offset: 0 Length: 4
Storage Attributes:	Subpool: 0 Key: 1 Residency: During Allocation, virtual and real storage are below 16M in the JES2 address space. During Unallocation, virtual and real storage are anywhere in the JES2 address space.
Size:	See KAWALEN
Created by:	JES2 Checkpoint Allocation and Unallocation
Pointed to by:	N/A
Serialization:	None required
Function:	The KAWA is used to map out a work area obtained by CKPTALOC and CKPTUNAL. It is also returned to CKPTALOC's caller if the routine detects an error.

$KAWA mapping

Table 269. Structure KAW

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	KAW	CHECKPOINT ALOC WORK AREA
0	(0)	CHARACTER	4	KAWID	EYE CATCHER
4	(4)	ADDRESS	1	KAWAVER	VERSION NUMBER
4	(4)	X'2'	0	KAWAVERN	"2" VERSION EQUATE
5	(5)	BITSTRING	1	KAWFLAG1	FLAG BYTE
		1...		KAW1ALOC	"B'10000000'" ALLOCATE WAS DONE
		.1..		KAW1NEW	"B'01000000'" ALLOCATE DISP=NEW WAS USED
		..1.		KAW1OPEN	"B'00100000'" MVS OPEN WAS DONE
6	(6)	BITSTRING	1	KAWPARM	PARAMETERS PASSED TO CKPTALOC
7	(7)	BITSTRING	1		RESERVED FOR FUTURE USE
8	(8)	SIGNED	4		Reserved for future IBM use
12	(C)	SIGNED	4	KAWALORT	RETURN CODE FROM MVS DYNALLOC
16	(10)	ADDRESS	4	KAWCKIA	Address of the new CKI
20	(14)	CHARACTER	8	KAWDDNAM	DDNAME FOR DATA SET
28	(1C)	ADDRESS	4	KAWTOTA	ADDRESS OF THE TRACK ONE TABLE
32	(20)	ADDRESS	4	KAWCKG	ADDRESS OF THE CKG
36	(24)	ADDRESS	4	KAWUCB	Address of the UCB
40	(28)	ADDRESS	4	KAWUCBPX	Address of the UCB Prefix
44	(2C)	SIGNED	4	KAWBYTRK	Number of Bytes or Tracks needed for DS (HASP295-6)

Table 269. Structure KAW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
48	(30)	SIGNED	4	KAWOBFCC	Error Code from OBTAIN
52	(34)	ADDRESS	4	KAWRBPTR	REQUEST BLOCK POINTER
56	(38)	SIGNED	4	(0)	Ensure alignment
56	(38)	BITSTRING	20	KAWRB	DYNALLOC REQUEST BLOCK
76	(4C)	SIGNED	4	(0)	Ensure alignment
76	(4C)	BITSTRING	36	KAWRBX	Request block extension
112	(70)	ADDRESS	4	KAWMSG1	Address of returned MSG #1 for DYNALLOC failure
116	(74)	ADDRESS	4	KAWMSG2	Address of returned MSG #2 for DYNALLOC failure
120	(78)	BITSTRING	540	KAWSP	The parm list + returned formatted messages area
660	(294)	SIGNED	4	KAWTXTPT(0)	TEXT POINTERS
660	(294)	ADDRESS	4	KAWTXTP1	ADDRESS OF TEXT UNIT 1
664	(298)	ADDRESS	4	KAWTXTP2	ADDRESS OF TEXT UNIT 2
668	(29C)	ADDRESS	4	KAWTXTP3	ADDRESS OF TEXT UNIT 3
672	(2A0)	ADDRESS	4	KAWTXTP4	ADDRESS OF TEXT UNIT 4
676	(2A4)	ADDRESS	4	KAWTXTP5	ADDRESS OF TEXT UNIT 5
680	(2A8)	ADDRESS	4	KAWTXTP6	ADDRESS OF TEXT UNIT 6
684	(2AC)	ADDRESS	4	KAWTXTP7	ADDRESS OF TEXT UNIT 7
688	(2B0)	ADDRESS	4	KAWTXTP8	ADDRESS OF TEXT UNIT 8 -EAS
692	(2B4)	ADDRESS	4	KAWTXTP9	ADDRESS OF TEXT UNIT 9
696	(2B8)	ADDRESS	4	KAWTXP10	ADDRESS OF TEXT UNIT 10
700	(2BC)	SIGNED	4	KAWTXT(0)	TEXT UNITS
700	(2BC)	BITSTRING	6	KAWTXT1	TEXT UNIT 1
706	(2C2)	BITSTRING	8	KAWTXT1D	TEXT UNIT 1 PARM
714	(2CA)	BITSTRING	6	KAWTXT2	TEXT UNIT 2
720	(2D0)	BITSTRING	8	KAWTXT2D	TEXT UNIT 2 PARM
728	(2D8)	BITSTRING	6	KAWTXT3	TEXT UNIT 3
734	(2DE)	BITSTRING	8	KAWTXT3D	TEXT UNIT 3 PARM
742	(2E6)	BITSTRING	6	KAWTXT4	TEXT UNIT 4
748	(2EC)	BITSTRING	8	KAWTXT4D	TEXT UNIT 4 PARM
756	(2F4)	BITSTRING	6	KAWTXT5	TEXT UNIT 5
762	(2FA)	BITSTRING	8	KAWTXT5D	TEXT UNIT 5 PARM
770	(302)	BITSTRING	6	KAWTXT6	TEXT UNIT 6
776	(308)	CHARACTER	44	KAWDSN(0)	DATASET NAME
776	(308)	BITSTRING	44	KAWTXT6D	TEXT UNIT 6 PARM
820	(334)	BITSTRING	6	KAWTXT7	TEXT UNIT 7
826	(33A)	BITSTRING	8	KAWTXT7D	TEXT UNIT 7 PARM
834	(342)	BITSTRING	7	KAWTXT8	TEXT UNIT 8 - EAS
841	(349)	BITSTRING	6	KAWTXT9	TEXT UNIT 9
847	(34F)	BITSTRING	8	KAWTXT9D	TEXT UNIT 9 PARM
855	(357)	BITSTRING	6	KAWTXT10	TEXT UNIT 10
861	(35D)	BITSTRING	8	KAWTX10D	TEXT UNIT 10 PARM
872	(368)	SIGNED	4	KAWCMLST(0)	ALIGN ON FULL WORD
872	(368)	ADDRESS	1		THREE BYTES OF FLAGS
873	(369)	ADDRESS	1		INDICATING THE FUNC-
874	(36A)	ADDRESS	1		TION TO BE PERFORMED
875	(36B)	ADDRESS	1		NO OPTION THREE
876	(36C)	ADDRESS	4		PARAMETER TWO
880	(370)	ADDRESS	4		PARAMETER THREE
884	(374)	ADDRESS	4		PARAMETER FOUR

Table 269. Structure KAW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
888	(378)	SIGNED	4	(0)	Alignment
888	(378)	CHARACTER	8	KAWEXTNT(0)	Extent start/end absolute addresses
888	(378)	BITSTRING	4	KAWLOLIM	Lower CCccch of extent
892	(37C)	BITSTRING	4	KAWUPLIM	Upper CCccch of extent
896	(380)	DBL WORD	8	(0)	DOUBLE WORD FOR DSCB
896	(380)	BITSTRING	148	KAWDSCB	DSCB FROM OBTAIN
1044	(414)	SIGNED	4	(0)	Ensure alignment
1044	(414)	BITSTRING	36	KAWDEVO	DEVTYPE output area
1080	(438)	BITSTRING	64	KAWAMSGW	HASP414 msg work area
1144	(478)	SIGNED	4	(10)	Reserved
MF=L work areas					
1184	(4A0)	DBL WORD	8	KAWMFORG(0)	MF=L work areas
------- DEVTYPE MF=L DEVTYPE list form					
1184	(4A0)	SIGNED	4	KAWDEVT(0)	LENGTH OF PARAMETER LIST
1185	(4A1)	ADDRESS	1		VERSION OF PARAMETER LIST
1186	(4A2)	BITSTRING	2		Flags & reserved
1188	(4A4)	ADDRESS	4		ADDRESS OF UCB LIST OR DD NAME
1192	(4A8)	ADDRESS	4		NUMBER OF UCBS IN LIST
1196	(4AC)	ADDRESS	4		ADDRESS OF RESULT AREA
1200	(4B0)	ADDRESS	4		SIZE OF RESULT AREA
1204	(4B4)	ADDRESS	4		ADDRESS OF INFO LIST (DEVTYPE INFO=)
1204	(4B4)	X'18'	0	KAWDEVTL	"*-KAWDEVT" Length of list form
------- IOSCAPU MF=(L,KAWCAPU) IOSCAPU PARM LIST MACDATE -01/22/01-<1>					
0	(0)	X'4A0'	0	M00M1252	"KAWCAPU" ++ IOSCAPU NAME
1184	(4A0)	DBL WORD	8	KAWCAPU(0)	++ IOSCAPU PARM LIST
1184	(4A0)	BITSTRING	1	KAWCAPU_XVERSION	++ INPUT XVERSION
1185	(4A1)	BITSTRING	1	KAWCAPU_XFLAGS1	++ FIELD_LABEL
		1...		KAWCAPU_KEYUSED_CAPTUCB	"B'10000000'" ++ KEYUSED.CAPTUCB KEYWORD
		.1..		KAWCAPU_KEYUSED_UCAPTUCB	"B'01000000'" ++ KEYUSED.UCAPTUCB KEYWORD
		..1.		KAWCAPU_KEYUSED_CAPTOACT	"B'00100000'" ++ KEYUSED.CAPTOACT KEYWORD
		...1		KAWCAPU_KEYUSED_ASID	"B'00010000'" ++ KEYUSED.ASID KEYWORD
		.... 1...		KAWCAPU_KEYUSED_UCBPTR	"B'00001000'" ++ KEYUSED.UCBPTR KEYWORD
		.... .1..		KAWCAPU_KEYUSED_CAPTPTR	"B'00000100'" ++ KEYUSED.CAPTPTR KEYWORD
1186	(4A2)	CHARACTER	2	KAWCAPU_XRESERVED1	++ FIELD_LABEL XRESERVED1
1188	(4A4)	ADDRESS	4	KAWCAPU_XUCBPTR	++ XUCBPTR
1192	(4A8)	ADDRESS	4	KAWCAPU_XCAPTPTR	++ XCAPTPTR
1196	(4AC)	CHARACTER	1	KAWCAPU_XRESERVED2	++ FIELD_LABEL XRESERVED2
1197	(4AD)	BITSTRING	1	KAWCAPU_XMASK	++ FIELD_LABEL
		1...		KAWCAPU_XMSIFREE_YES	"B'10000000'" ++ XMSIFREE.YES KEYWORD
		.1..		KAWCAPU_XLASTING_YES	"B'01000000'" ++ XLASTING.YES KEYWORD

Table 269. Structure KAW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		KAWCAPU_XCAPTCOM_YES	"B'00100000'" ++ XCAPTCOM.YES KEYWORD
		...1		KAWCAPU_XCAPTCOM_NEVER	"B'00010000'" ++ XCAPTCOM.NEVER KEYWORD
1198	(4AE)	BITSTRING	2	KAWCAPU_XASID	++ XASID
1200	(4B0)	CHARACTER	16	KAWCAPU_XRESERVED3	++ FIELD_LABEL XRESERVED3
1200	(4B0)	X'20'	0	KAWCAPUL	"*-KAWCAPU" ++ LENGTH OF PLIST
				IOSCAPU-1	
------- $BLDMSG MF=L List form of $BLDMSG					
1184	(4A0)	SIGNED	4	KAWBLMSG(0)	Control block ID
1188	(4A4)	BITSTRING	4		Console ID
1192	(4A8)	ADDRESS	4		Address of the CART
1196	(4AC)	ADDRESS	4		Pointer for JOBID
1200	(4B0)	ADDRESS	4		Control block address
1204	(4B4)	ADDRESS	4		Display routine address
1208	(4B8)	ADDRESS	4	(6)	6 word work area
1232	(4D0)	ADDRESS	4		Caller's R11 value
1236	(4D4)	BITSTRING	2		ROUT code for Message
1238	(4D6)	BITSTRING	2		Not used
1240	(4D8)	CHARACTER	4		Message ID
1244	(4DC)	CHARACTER	1		Separator character
1245	(4DD)	ADDRESS	1		Flag byte 1
1246	(4DE)	ADDRESS	1		'DISPER'
1247	(4DF)	ADDRESS	1		Flag byte 2
1248	(4E0)	ADDRESS	1		Flag byte 3
1249	(4E1)	CHARACTER	8		Symbolic name of dest.
1257	(4E9)	BITSTRING	15		Not used
1272	(4F8)	ADDRESS	4	(0)	Ensure multiple of 4
1272	(4F8)	ADDRESS	2	(0)	
------- UCBLOOK MF=(L,KAWUCBLK) UCBLOOK parameter list MACDATE -03/18/08-<3>					
0	(0)	X'4A0'	0	M00M1255	"KAWUCBLK" ++ UCBLOOK NAME
1184	(4A0)	DBL WORD	8	KAWUCBLK(0)	++ UCBLOOK PARM LIST
1184	(4A0)	BITSTRING	1	KAWUCBLK_XVERSION	++ INPUT XVERSION
1185	(4A1)	BITSTRING	1	KAWUCBLK_XSCHSET	++
1186	(4A2)	BITSTRING	2	KAWUCBLK_XDEVN	++
1188	(4A4)	CHARACTER	4	KAWUCBLK_XDEVNCHAR	++
1192	(4A8)	CHARACTER	6	KAWUCBLK_XVOLSER	++
1198	(4AE)	BITSTRING	1	KAWUCBLK_XDEVCLASS	++ XDEVCLASS
1198	(4AE)	X'0'	0	KAWUCBLK_XDEVCLASS_DASDTAPE	"0" ++ XDEVCLASS.DASDTAPE KEYWORD
1198	(4AE)	X'1'	0	KAWUCBLK_XDEVCLASS_TAPE	"1" ++ XDEVCLASS.TAPE KEYWORD
1198	(4AE)	X'2'	0	KAWUCBLK_XDEVCLASS_DASD	"2" ++ XDEVCLASS.DASD KEYWORD
1199	(4AF)	BITSTRING	1	KAWUCBLK_XRESERVED2	++ FIELD_LABEL
		1...		KAWUCBLK_XNOTFIND_YES	"B'10000000'" ++ XNOTFIND.YES KEYWORD
1200	(4B0)	ADDRESS	4	KAWUCBLK_XUCBPTR	++
1204	(4B4)	CHARACTER	5	KAWUCBLK_XCOMPID	++
1209	(4B9)	BITSTRING	1	KAWUCBLK_XMASK	++ FIELD_LABEL

Table 269. Structure KAW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		KAWUCBLK_XNONBASE_YES	"B'10000000'" ++ XNONBASE.YES KEYWORD
		.1..		KAWUCBLK_XDYNAMIC_NO	"B'01000000'" ++ XDYNAMIC.NO KEYWORD
		..1.		KAWUCBLK_XRANGE_3DIGIT	"B'00100000'" ++ XRANGE.3DIGIT KEYWORD
		...1		KAWUCBLK_XLOC_ANY	"B'00010000'" ++ XLOC.ANY KEYWORD
		.... 1...		KAWUCBLK_XSPECIAL_YES	"B'00001000'" ++ XSPECIAL.YES KEYWORD
		1		KAWUCBLK_XUNBOUND_ALIAS_YES	"B'00000001'" ++ XUNBOUND_ALIAS.YES KEYWORD
1210	(4BA)	BITSTRING	1	KAWUCBLK_XFLAGS	++ FIELD_LABEL
		1...		KAWUCBLK_KEYUSED_DEVN	"B'10000000'" ++ KEYUSED.DEVN KEYWORD
		.1..		KAWUCBLK_KEYUSED_DEVNCHAR	"B'01000000'" ++ KEYUSED.DEVNCHAR KEYWORD
		..1.		KAWUCBLK_KEYUSED_VOLSER	"B'00100000'" ++ KEYUSED.VOLSER KEYWORD
		...1		KAWUCBLK_KEYUSED_LASTING	"B'00010000'" ++ KEYUSED.LASTING KEYWORD
		.... 1...		KAWUCBLK_KEYUSED_COMPID	"B'00001000'" ++ KEYUSED.COMPID KEYWORD
		.... .1..		KAWUCBLK_KEYUSED_HELP	"B'00000100'" ++ KEYUSED.HELP KEYWORD
		.... ..1.		KAWUCBLK_KEYUSED_PIN	"B'00000010'" ++ KEYUSED.PIN KEYWORD
		1		KAWUCBLK_KEYUSED_PINPATHS	"B'00000001'" ++ KEYUSED.PINPATHS KEYWORD
1211	(4BB)	BITSTRING	1	KAWUCBLK_XFLAGS2	++ FIELD_LABEL
		1...		KAWUCBLK_KEYUSED_UCBCXPTR	"B'10000000'" ++ KEYUSED.UCBCXPTR KEYWORD
		.1..		KAWUCBLK_KEYUSED_UCBPXPTR	"B'01000000'" ++ KEYUSED.UCBPXPTR KEYWORD
		..1.		KAWUCBLK_KEYUSED_LDEVNCHAR	"B'00100000'" ++ KEYUSED.LDEVNCHAR KEYWORD
		...1		KAWUCBLK_KEYUSED_SCHSET	"B'00010000'" ++ KEYUSED.SCHSET KEYWORD
1212	(4BC)	ADDRESS	4	KAWUCBLK_XTEXT_ADDR	++ ADDR
1216	(4C0)	SIGNED	4	KAWUCBLK_XTEXT_ALET	++ ALET
1220	(4C4)	CHARACTER	8	KAWUCBLK_XPTOKEN	++
1228	(4CC)	CHARACTER	8	KAWUCBLK_XHELP	++
1236	(4D4)	ADDRESS	4	KAWUCBLK_XIOCTOKEN_ADDR	++ ADDR
1240	(4D8)	SIGNED	4	KAWUCBLK_XIOCTOKEN_ALET	++ ALET
1244	(4DC)	ADDRESS	4	KAWUCBLK_XUCBPAREA_ADDR	++ ADDR
1248	(4E0)	SIGNED	4	KAWUCBLK_XUCBPAREA_ALET	++ ALET
1252	(4E4)	ADDRESS	4	KAWUCBLK_XUCBCXPTR	++
1256	(4E8)	ADDRESS	4	KAWUCBLK_XUCBPXPTR	++
1260	(4EC)	CHARACTER	5	KAWUCBLK_XLDEVNCHAR	++
1265	(4F1)	CHARACTER	3	KAWUCBLK_XRESERVED1	++ FIELD_LABEL
1265	(4F1)	X'54'	0	KAWUCBLKL	"*-KAWUCBLK" ++ LENGTH OF PLIST
				UCBLOOK-3	

Table 269. Structure KAW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1184	(4A0)	BITSTRING	16	KAWPURGE	PURGE parameter list
1184	(4A0)	SIGNED	4	KAWOPEN(0)	ALIGN LIST TO WORD
1184	(4A0)	ADDRESS	1		Option byte
1185	(4A1)	ADDRESS	3		Reserved
1188	(4A4)	ADDRESS	4		DCB or ACB address
1184	(4A0)	SIGNED	4	KAWCLOSE(0)	ALIGN LIST TO FULLWORD
1184	(4A0)	ADDRESS	1		OPTION BYTE
1185	(4A1)	ADDRESS	3		RESERVED BYTES
1188	(4A4)	ADDRESS	4		DCB OR ACB ADDRESS
1272	(4F8)	DBL WORD	8	(0)	Alignment
1272	(4F8)	X'4F8'	0	KAWALEN	"*-KAW" LENGTH OF THE KAWA

Table 270. Structure OBTM414

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	OBTM414	, HASP414 parms - obtain error
0	(0)	CHARACTER	8	OBTNFNAM	Checkpoint file name exists if OBTNCK is FF
8	(8)	CHARACTER	44	OBTNDNAM	Dataset name
52	(34)	CHARACTER	6	OBTNVSER	VOLSER NAME
58	(3A)	CHARACTER	4	OBTNCC	Condition code returned from obtain
62	(3E)	BITSTRING	1	OBTNCK	FF denotes checkpoint name has been supplied
62	(3E)	X'3F'	0	OBTMLEN	"*-OBTM414" Length of a HASP414 parms

Table 271. Cross Reference for $KAWA

Name	Offset	Hex Tag
KAW	0	
KAWALEN	4F8	4F8
KAWALORT	C	
KAWAMSGW	438	
KAWAVER	4	
KAWAVERN	4	2
KAWBLMSG	4A0	C2D3C440
KAWBYTRK	2C	
KAWCAPU	4A0	
KAWCAPU_KEYUSED_ASID	4A1	10
KAWCAPU_KEYUSED_CAPTOACT	4A1	20
KAWCAPU_KEYUSED_CAPTPTR	4A1	4
KAWCAPU_KEYUSED_CAPTUCB	4A1	80
KAWCAPU_KEYUSED_UCAPTUCB	4A1	40
KAWCAPU_KEYUSED_UCBPTR	4A1	8
KAWCAPU_XASID	4AE	
KAWCAPU_XCAPTCOM_NEVER	4AD	10
KAWCAPU_XCAPTCOM_YES	4AD	20
KAWCAPU_XCAPTPTR	4A8	
KAWCAPU_XFLAGS1	4A1	

Table 271. Cross Reference for $KAWA (continued)

Name	Offset	Hex Tag
KAWCAPU_XLASTING_YES	4AD	40
KAWCAPU_XMASK	4AD	
KAWCAPU_XMSIFREE_YES	4AD	80
KAWCAPU_XRESERVED1	4A2	
KAWCAPU_XRESERVED2	4AC	
KAWCAPU_XRESERVED3	4B0	
KAWCAPU_XUCBPTR	4A4	
KAWCAPU_XVERSION	4A0	
KAWCAPUL	4B0	20
KAWCKG	20	
KAWCKIA	10	
KAWCLOSE	4A0	
KAWCMLST	368	
KAWDDNAM	14	
KAWDEVO	414	
KAWDEVT	4A0	18
KAWDEVTL	4B4	18
KAWDSCB	380	
KAWDSN	308	
KAWEXTNT	378	
KAWFLAG1	5	
KAWID	0	D2C1E6C1
KAWLOLIM	378	
KAWMFORG	4A0	
KAWMSG1	70	
KAWMSG2	74	
KAWOBFCC	30	
KAWOPEN	4A0	
KAWPARM	6	
KAWPURGE	4A0	
KAWRB	38	
KAWRBPTR	34	
KAWRBX	4C	
KAWSP	78	
KAWTOTA	1C	
KAWTXP10	2B8	
KAWTXT	2BC	
KAWTXTPT	294	
KAWTXTP1	294	
KAWTXTP2	298	
KAWTXTP3	29C	
KAWTXTP4	2A0	
KAWTXTP5	2A4	
KAWTXTP6	2A8	
KAWTXTP7	2AC	
KAWTXTP8	2B0	
KAWTXTP9	2B4	
KAWTXT1	2BC	
KAWTXT1D	2C2	

Table 271. Cross Reference for $KAWA (continued)

Name	Offset	Hex Tag
KAWTXT10	357	
KAWTXT2	2CA	
KAWTXT2D	2D0	
KAWTXT3	2D8	
KAWTXT3D	2DE	
KAWTXT4	2E6	
KAWTXT4D	2EC	
KAWTXT5	2F4	
KAWTXT5D	2FA	
KAWTXT6	302	
KAWTXT6D	308	
KAWTXT7	334	
KAWTXT7D	33A	
KAWTXT8	342	
KAWTXT9	349	
KAWTXT9D	34F	
KAWTX10D	35D	
KAWUCB	24	
KAWUCBLK	4A0	
KAWUCBLK_KEYUSED_COMPID	4BA	8
KAWUCBLK_KEYUSED_DEVN	4BA	80
KAWUCBLK_KEYUSED_DEVNCHAR	4BA	40
KAWUCBLK_KEYUSED_HELP	4BA	4
KAWUCBLK_KEYUSED_LASTING	4BA	10
KAWUCBLK_KEYUSED_LDEVNCHAR	4BB	20
KAWUCBLK_KEYUSED_PIN	4BA	2
KAWUCBLK_KEYUSED_PINPATHS	4BA	1
KAWUCBLK_KEYUSED_SCHSET	4BB	10
KAWUCBLK_KEYUSED_UCBCXPTR	4BB	80
KAWUCBLK_KEYUSED_UCBPXPTR	4BB	40
KAWUCBLK_KEYUSED_VOLSER	4BA	20
KAWUCBLK_XCOMPID	4B4	
KAWUCBLK_XDEVCLASS	4AE	
KAWUCBLK_XDEVCLASS_DASD	4AE	2
KAWUCBLK_XDEVCLASS_DASDTAPE	4AE	0
KAWUCBLK_XDEVCLASS_TAPE	4AE	1
KAWUCBLK_XDEVN	4A2	
KAWUCBLK_XDEVNCHAR	4A4	
KAWUCBLK_XDYNAMIC_NO	4B9	40
KAWUCBLK_XFLAGS	4BA	
KAWUCBLK_XFLAGS2	4BB	
KAWUCBLK_XHELP	4CC	
KAWUCBLK_XIOCTOKEN_ADDR	4D4	
KAWUCBLK_XIOCTOKEN_ALET	4D8	
KAWUCBLK_XLDEVNCHAR	4EC	
KAWUCBLK_XLOC_ANY	4B9	10
KAWUCBLK_XMASK	4B9	
KAWUCBLK_XNONBASE_YES	4B9	80
KAWUCBLK_XNOTFIND_YES	4AF	80

Table 271. Cross Reference for $KAWA (continued)

Name	Offset	Hex Tag
KAWUCBLK_XPTOKEN	4C4	
KAWUCBLK_XRANGE_3DIGIT	4B9	20
KAWUCBLK_XRESERVED1	4F1	
KAWUCBLK_XRESERVED2	4AF	
KAWUCBLK_XSCHSET	4A1	
KAWUCBLK_XSPECIAL_YES	4B9	8
KAWUCBLK_XTEXT_ADDR	4BC	
KAWUCBLK_XTEXT_ALET	4C0	
KAWUCBLK_XUCBCXPTR	4E4	
KAWUCBLK_XUCBPAREA_ADDR	4DC	
KAWUCBLK_XUCBPAREA_ALET	4E0	
KAWUCBLK_XUCBPTR	4B0	
KAWUCBLK_XUCBPXPTR	4E8	
KAWUCBLK_XUNBOUND_ALIAS_YES	4B9	1
KAWUCBLK_XVERSION	4A0	
KAWUCBLK_XVOLSER	4A8	
KAWUCBLKL	4F1	54
KAWUCBPX	28	
KAWUPLIM	37C	
KAW1ALOC	5	80
KAW1NEW	5	40
KAW1OPEN	5	20
M00M1252	0	4A0
M00M1255	0	4A0
OBTMLEN	3E	3F
OBTM414	0	
OBTNCC	3A	
OBTNCK	3E	
OBTNDNAM	8	
OBTNFNAM	0	
OBTNVSER	34	

Chapter 124. $LMT Information

$LMT Heading Information

Common Name:	Load Module Table
Macro ID:	$LMT
DSECT Name:	LMT
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'LMT ' Offset: LMT-$CSBPRFX+$CSBID Length: 4
Storage Attributes:	Subpool: 0 (private chain), 241 (CSA chain) Key: 1 Residency: Virtual storage is below 16M and real storage is anywhere (above or below 16M). There are two chains of LMTs. One is in the private storage of the JES2 address space, the other is in CSA.
Size:	LMTLEN plus standard CSA prefix (CSBPRFX equate in the $HASPEQU data area) per entry, whether PVT or CSA
Created by:	$MODLOAD
Pointed to by:	Private LMT chain pointers: $LMT1 field of the HCT data area - Points to head of chain, which connects also to the CSA chain. This is the only anchor that should be used by LMT search routines. $LMTPBOT field of the HCT data area - Points to the last private entry, for internal use by $MODLOAD only --- Common LMT chain pointers: CCTLMT1 field of the HCCT data area - Points to head of CSA chain (middle of composite private/CSA chain). $LMTC field of the HCT data area - An HCT copy of the CCTLMT1 value, for internal use by $MODLOAD only. --- LMTCHAIN field of the $LMT data area
Serialization:	Entries cannot be removed from the chains once added, and should be added in a way that allows multi-tasking references.

$LMT Heading Information

Function: The LMT contains an entry for each JES2 module loaded via $MODLOAD. $MODLOAD adds the entries. $MODELET invalidates an entry. Invalidation is a 2 step process. First the module is logically deleted (bit LMT2DELT is set). Once it is determined the module can be physically deleted (see MCKDELET for details), then the module is deleted and the LMT invalidated (bit LMT1INVD is set).
There are two LMT chains. One is chained from the HCCT for entries for those modules loaded into common storage. The other has entries for those loaded into private storage and is chained from the HCT. On abnormal termination the common LMTs are not freed. On a hot start the common LMTs are still valid, so only the private LMTs are rebuilt from new LOADMOD initialization parameters.
The LMT chains are built with dynamic storage for each $MODLOAD call. At any given time the last element in the private LMT chain points to the first in the CSA chain, thereby allowing a single LMT chain loop to access all LMT entries (starting from the HCT anchor).

$LMT mapping

Table 272. Structure LMT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	LMT	HASP LOAD MODULE TABLE DSECT
		The following fields are used by internal tools. Do not change the offsets of these fields.			
0	(0)	CHARACTER	8	LMTMODNM	LOAD MODULE NAME
8	(8)	ADDRESS	4	LMTMITAD	POINTER TO MIT
12	(C)	SIGNED	4	LMTESIZE(0)	Module subpool and length
12	(C)	BITSTRING	1	LMTSUBPL	Subpool, only if direct ld
13	(D)	ADDRESS	3	LMTMODLN	Module length in all cases
16	(10)	ADDRESS	4	LMTBASEA	ALT. MODULE BASE FOR REP FACIL.
20	(14)	BITSTRING	1	LMTFLG1	FLAG FOR LMT ENTRY
		1...		LMT1DIRL	"B'10000000'" MODULE DIRECTLY LOADED
		.1..		LMT1CMN	"B'01000000'" MODULE LOADED INTO COMMON STOR
		..1.		LMT1PVT	"B'00100000'" MODULE LOADED INTO PRIVATE
		...1		LMT1INVD	"B'00010000'" INVALID LMT ENTRY
		.... 1...		LMT1LOAD	"B'00001000'" Loaded via LOADMOD parm stmt or operator command
		.... .1..		LMT1IBM	"B'00000100'" THIS IS AN IBM LOAD MODULE
		.... ..1.		LMT1BSPL	"B'00000010'" Bypass SPLEVEL check
		1		LMT1OS	"B'00000001'" Module is an OS module
21	(15)	BITSTRING	1	LMTFLG2	FLAG 2 FOR LMT ENTRY

Table 272. Structure LMT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		LMT2CMNR	"B'10000000'" REQUEST FROM LOADMOD STATEMENT TO PLACE MODULE IN COMMON STOR
		.1..		LMT2PVTR	"B'01000000'" REQUEST FROM LOADMOD STATEMENT TO PLACE MODULE IN PRIVATE STOR
		..1.		LMT2LPAR	"B'00100000'" REQUEST FROM LOADMOD STATEMENT TO USE LPA COPY OF MODULE
		...1		LMT2RM24	"B'00010000'" Load module was loaded below the line
		.... 1...		LMT2RM31	"B'00001000'" Load module was loaded above the line
		.... .1..		LMT2REFR	"B'00000100'" Request from LOADMOD to refresh this module
		.... ..1.		LMT2DELT	"B'00000010'" Module logically deleted (may still be in storage)
		1		LMT2NDYN	"B'00000001'" Module does not support DYNAMIC commands
22	(16)	BITSTRING	1	LMTFLG3	Flag 3 for LMT entry
		1...		LMT3DTBL	"B'10000000'" Module has dynamic tables
		.1..		LMT3NXRT	"B'01000000'" No XRTs for this LMT
		..1.		LMT3FDEL	"B'00100000'" Force delete the LMT
		...1		LMT3FREE	"B'00010000'" Module has been freed
		.... 1...		LMT3MCKD	"B'00001000'" $MODCHK delete succeeded
		.... .1..		LMT3DRNN	"B'00000100'" $$$$DEL returned RC=4 (do not delete now)
		.... ..1.		LMT3DRND	"B'00000010'" $$$$DEL returned RC=8 (never delete)
		1		LMT3RFIP	"B'00000001'" Module was refreshed in place (refreshed LPA module with same copy)
23	(17)	BITSTRING	1	LMTFLG4	Flag 4 for LMT entry
		1...		LMT4LWPC	"B'10000000'" $$$$LOAD was called
		.1..		LMT4LFIX	"B'01000000'" LMT has been page fixed
24	(18)	ADDRESS	4	LMTCHAIN	CHAIN POINTER TO NEXT LMT
End of fields used by internal tools.					
28	(1C)	ADDRESS	4	LMTENTRY	Entry addr returned by LOAD
32	(20)	ADDRESS	4	LMTADELR	Additional $$$$DEL routine
36	(24)	SIGNED	4		Reserved
40	(28)	DBL WORD	8	LMTTIME	Time LMT was created
48	(30)	DBL WORD	8	LMTTIMDL	Time LMT logically deleted
56	(38)	DBL WORD	8	LMTDRTIM	Time for next $$$$DEL call
64	(40)	DBL WORD	8	(0)	Assure LMTLEN DWORD align
64	(40)	X'40'	0	LMTLEN	"*-LMT" LENGTH

Table 272. Structure LMT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
64	(40)	X'1'	0	LMTVERSN	"1" VERSION NUMBER OF LMT

Table 273. Cross Reference for $LMT

Name	Offset	Hex Tag
LMT	0	
LMTADELR	20	
LMTBASEA	10	
LMTCHAIN	18	
LMTDRTIM	38	
LMTENTRY	1C	
LMTESIZE	C	
LMTFLG1	14	
LMTFLG2	15	
LMTFLG3	16	
LMTFLG4	17	
LMTLEN	40	40
LMTMITAD	8	
LMTMODLN	D	
LMTMODNM	0	
LMTSUBPL	C	
LMTTIMDL	30	
LMTTIME	28	
LMTVERSN	40	1
LMT1BSPL	14	2
LMT1CMN	14	40
LMT1DIRL	14	80
LMT1IBM	14	4
LMT1INVD	14	10
LMT1LOAD	14	8
LMT1OS	14	1
LMT1PVT	14	20
LMT2CMNR	15	80
LMT2DELT	15	2
LMT2LPAR	15	20
LMT2NDYN	15	1
LMT2PVTR	15	40
LMT2REFR	15	4
LMT2RM24	15	10
LMT2RM31	15	8
LMT3DRND	16	2
LMT3DRNN	16	4
LMT3DTBL	16	80
LMT3FDEL	16	20
LMT3FREE	16	10
LMT3MCKD	16	8
LMT3NXRT	16	40
LMT3RFIP	16	1

Table 273. Cross Reference for $LMT (continued)

Name	Offset	Hex Tag
LMT4LFIX	17	40
LMT4LWPC	17	80

Chapter 125. $MCT Information

$MCT Programming Interface Information

ONLY the following fields are part of the programming interface information:

- MCTAPLTU
- MCTBADTU
- MCTBFHTU
- MCTBFXTU
- MCTBRTTU
- MCTBSCTU
- MCTBUFTU
- MCTCATTU
- MCTCKLTU
- MCTCKTTU
- MCTCNDTU
- MCTCOMTU
- MCTCONTU
- MCTDCTTU
- MCTDESTU
- MCTDSTTU
- MCTDTETU
- MCTEBYTU
- MCTEKNTU
- MCTELCTU
- MCTEPGTU
- MCTEPNTU
- MCTERRTU
- MCTETMTU
- MCTFENTU
- MCTFSSTU
- MCTHDRTU
- MCTIAUTU
- MCTINCTU
- MCTINRTU
- MCTJOBTU
- MCTJPYTU
- MCTJQETU
- MCTJRWTU
- MCTJSPTU
- MCTJTWTU
- MCTKPNTU
- MCTLINTU

- MCTLJRTU
- MCTLJTTU
- MCTLJWTU
- MCTLNETU
- MCTLODTU
- MCTLOGTU
- MCTLOTTU
- MCTLSRTU
- MCTLSTTU
- MCTLSWTU
- MCTMASTU
- MCTMEMTU
- MCTMGTU
- MCTMODTU
- MCTMPSTU
- MCTNAUTU
- MCTNDPTU
- MCTNETTU
- MCTNJETU
- MCTNODTU
- MCTOFFTU
- MCTOFLTU
- MCTOJMTU
- MCTOJRTU
- MCTOJTTU
- MCTOPDTU
- MCTOPTTU
- MCTOPYTU
- MCTOSMTU
- MCTOSRTU
- MCTOSTTU
- MCTOTPTU
- MCTOUTTU
- MCTPARTU
- MCTPCCTU
- MCTPCDTU
- MCTPCETU
- MCTPCNTU
- MCTPCRTU
- MCTPDDTU
- MCTPITTU
- MCTPRLTU
- MCTPRTTU
- MCTPRWTU
- MCTPTDTU

- MCTPTHTU
- MCTPUDTU
- MCTPUNTU
- MCTPUWTU
- MCTRAUTU
- MCTRCNTU
- MCTRCVTU
- MCTRDITU
- MCTRDRTU
- MCTRDTTU
- MCTRDVTU
- MCTREDTU
- MCTRMTTU
- MCTRPRTU
- MCTRPUTU
- MCTRQJIU
- MCTRRDTU
- MCTSAWTU
- MCTSBDTU
- MCTSCTTU
- MCTSEPTU
- MCTSMFTU
- MCTSNATU
- MCTSPDTU
- MCTSPLTU
- MCTSRWTU
- MCTSSITU
- MCTSTATU
- MCTSTCTU
- MCTSTWTU
- MCTSTYTU
- MCTSUBTU
- MCTTGLTU
- MCTTGSTU
- MCTTIDTU
- MCTTLGTU
- MCTTPDTU
- MCTTRCTU
- MCTTRITU
- MCTTSUTU
- MCTVIATU
- MCTVKPTU
- MCTVLTTU
- MCTVUNTU
- MCTXITTU

$MCT Heading Information

Common Name: HASP Master Control Table
Macro ID: $MCT
DSECT Name: MCT
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: None
Storage Attributes:
```
Subpool:   Part of the HASJES20 load module
Key:       1
Residency: Part of the HASJES20 load module in
the JES2 address space.
```

Size: See field MCTLEN
Created by: Load of module HASJES20.
Pointed to by: $MCT field of the $HCT data area
Serialization: None required.
Function:
```
The master control table contains pointers to table
pairs within JES2.
The naming convention for tables and table pairs is
as follows:
Select a unique three character id for the entity
(for example ZZZ).
The MCT fields are:
MCTZZZTP  - Label for the table pair
MCTZZZTU  - Label for the USER table
MCTZZZTH  - Label for the JES2 (HASP) table
MCTZZZTD  - Label for dynamic table list
The VCONS (and weak externals for user tables) are:
USERZZZT  - Label for the USER table and WXTRN
HASPZZZT  - Label for the JES2 (HASP) table
User table addresses can be placed in the $MCT
either by an exit routine storing the address into
field MCTZZZTU or by the user table being named
USERZZZT and being link-edited with the HASJES20
load module.
Dynamic tables can be placed in the $MCT via the
$PUTABLE service, which is caled automatically when
a load module containing dynamic tables is processed
by the JES2 LOAD initialization statement.
```

$MCT mapping

Table 274. Structure MCT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MCT	HASP MASTER CONSOLE TABLE
		$GETABLE TABLE-PAIRS, AND ASSOCIATED TABLE ACCESS ROUTINES.			
0	(0)	ADDRESS	4	MCTPCETP(0)	$PCETAB table pair
0	(0)	ADDRESS	4	MCTPCETU	"V(USERPCET)" User table
4	(4)	ADDRESS	4	MCTPCETH	"V(HASPPCET)" HASP table
8	(8)	ADDRESS	4	MCTPCETD	Dynamic table array
12	(C)	ADDRESS	4	MCTDCTTP(0)	$DCTTAB table pair
12	(C)	ADDRESS	4	MCTDCTTU	"V(USERDCTT)" User table
16	(10)	ADDRESS	4	MCTDCTTH	"V(HASPDCTT)" HASP table
20	(14)	ADDRESS	4	MCTDCTTD	Dynamic table array

Table 274. Structure MCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
24	(18)	ADDRESS	4	MCTDTETP(0)	$DTETAB table pair
24	(18)	ADDRESS	4	MCTDTETU	"V(USERDTET)" User table
28	(1C)	ADDRESS	4	MCTDTETH	"V(HASPDTET)" HASP table
32	(20)	ADDRESS	4	MCTDTETD	Dynamic table array
36	(24)	ADDRESS	4	MCTRDTTP(0)	$RDIRTAB table pair
36	(24)	ADDRESS	4	MCTRDTTU	"V(USERRDTT)" User table
40	(28)	ADDRESS	4	MCTRDTTH	"V(HASPRDTT)" HASP table
44	(2C)	ADDRESS	4	MCTRDTTD	Dynamic table array
48	(30)	ADDRESS	4	MCTTIDTP(0)	$TIDTAB table pair
48	(30)	ADDRESS	4	MCTTIDTU	"V(USERTIDT)" User table
52	(34)	ADDRESS	4	MCTTIDTH	"V(HASPTIDT)" HASP table
56	(38)	ADDRESS	4	MCTTIDTD	Dynamic table array
60	(3C)	ADDRESS	4	MCTPCRTP(0)	$PCTAB table pair
60	(3C)	ADDRESS	4	MCTPCRTU	"V(USERPCRT)" User table
64	(40)	ADDRESS	4	MCTPCRTH	"V(HASPPCRT)" HASP table
68	(44)	ADDRESS	4	MCTPCRTD	Dynamic table array
72	(48)	ADDRESS	4	MCTBRTTP(0)	$BERTTAB table pair
72	(48)	ADDRESS	4	MCTBRTTU	"V(USERBRTT)" User table
76	(4C)	ADDRESS	4	MCTBRTTH	"V(HASPBRTT)" HASP table
80	(50)	ADDRESS	4	MCTBRTTD	Dynamic table array
	$SCAN FACILITY PRIMARY HASP/USER TABLE PAIRS - TABLE PAIRS FOR THE INITIALIZATION OPTIONS AND FOR PARAMETERS STMTS.				
84	(54)	ADDRESS	4	MCTOPTTP(0)	HASP OPTIONS $SCAN TABLE
84	(54)	ADDRESS	4	MCTOPTTU	"V(USEROPTT)" User table
88	(58)	ADDRESS	4	MCTOPTTH	"V(HASPOPTT)" HASP table
92	(5C)	ADDRESS	4	MCTOPTTD	Dynamic table array
96	(60)	ADDRESS	4	MCTMPSTP(0)	HASP MAIN-PARM-STMT TABLE
96	(60)	ADDRESS	4	MCTMPSTU	"V(USERMPST)" User table
100	(64)	ADDRESS	4	MCTMPSTH	"V(HASPMPST)" HASP table
104	(68)	ADDRESS	4	MCTMPSTD	Dynamic table array
108	(6C)	ADDRESS	4	MCTMGTP(0)	HASP MSG-GEN TABLE PAIR
108	(6C)	ADDRESS	4	MCTMGTU	"V(USERMGST)" User table
112	(70)	ADDRESS	4	MCTMGTH	"V(HASPMGST)" HASP table
116	(74)	ADDRESS	4	MCTMGTD	Dynamic table array
	$SCAN FACILITY HASP/USER TABLE PAIRS FOR SUBSCANNING OF DEVICE RELATED PARAMETER STATEMENTS.				
120	(78)	ADDRESS	4	MCTINRTP(0)	INTRDR PARM-STMT SUBSCAN
120	(78)	ADDRESS	4	MCTINRTU	"V(USERINRT)" User table
124	(7C)	ADDRESS	4	MCTINRTH	"V(HASPINRT)" HASP table
128	(80)	ADDRESS	4	MCTINRTD	Dynamic table array
132	(84)	ADDRESS	4	MCTLNETP(0)	LINENNNN PARM-STMT SUBSCAN
132	(84)	ADDRESS	4	MCTLNETU	"V(USERLNET)" User table
136	(88)	ADDRESS	4	MCTLNETH	"V(HASPLNET)" HASP table
140	(8C)	ADDRESS	4	MCTLNETD	Dynamic table array
144	(90)	ADDRESS	4	MCTLTRTP(0)	LINEnnnnn TRACE KEYWORD SUBSCAN
144	(90)	ADDRESS	4	MCTLTRTU	"V(USERLTRT)" User table
148	(94)	ADDRESS	4	MCTLTRTH	"V(HASPLTRT)" HASP table
152	(98)	ADDRESS	4	MCTLTRTD	Dynamic table array
156	(9C)	ADDRESS	4	MCTLINTP(0)	Ln.DVn PARM-STMT SUBSCAN
156	(9C)	ADDRESS	4	MCTLINTU	"V(USERLINT)" User table
160	(A0)	ADDRESS	4	MCTLINTH	"V(HASPLINT)" HASP table

Table 274. Structure MCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
164	(A4)	ADDRESS	4	MCTLINTD	Dynamic table array
168	(A8)	ADDRESS	4	MCTLJRTP(0)	Ln.JR PARM-STMT SUBSCAN
168	(A8)	ADDRESS	4	MCTLJRTU	"V(USERLJRT)" User table
172	(AC)	ADDRESS	4	MCTLJRTH	"V(HASPLJRT)" HASP table
176	(B0)	ADDRESS	4	MCTLJRTD	Dynamic table array
180	(B4)	ADDRESS	4	MCTLJTTP(0)	Ln.JT PARM-STMT SUBSCAN
180	(B4)	ADDRESS	4	MCTLJTTU	"V(USERLJTT)" User table
184	(B8)	ADDRESS	4	MCTLJTTH	"V(HASPLJTT)" HASP table
188	(BC)	ADDRESS	4	MCTLJTTD	Dynamic table array
192	(C0)	ADDRESS	4	MCTLSRTP(0)	Ln.SR PARM-STMT SUBSCAN
192	(C0)	ADDRESS	4	MCTLSRTU	"V(USERLSRT)" User table
196	(C4)	ADDRESS	4	MCTLSRTH	"V(HASPLSRT)" HASP table
200	(C8)	ADDRESS	4	MCTLSRTD	Dynamic table array
204	(CC)	ADDRESS	4	MCTLSTTP(0)	Ln.ST PARM-STMT SUBSCAN
204	(CC)	ADDRESS	4	MCTLSTTU	"V(USERLSTT)" User table
208	(D0)	ADDRESS	4	MCTLSTTH	"V(HASPLSTT)" HASP table
212	(D4)	ADDRESS	4	MCTLSTTD	Dynamic table array
216	(D8)	ADDRESS	4	MCTLOGTP(0)	LOGONN PARM-STMT SUBSCAN
216	(D8)	ADDRESS	4	MCTLOGTU	"V(USERLOGT)" User table
220	(DC)	ADDRESS	4	MCTLOGTH	"V(HASPLOGT)" HASP table
224	(E0)	ADDRESS	4	MCTLOGTD	Dynamic table array
228	(E4)	ADDRESS	4	MCTOFLTP(0)	OFFLOADN PARM-STMT SUBSCAN PAIR
228	(E4)	ADDRESS	4	MCTOFLTU	"V(USEROFLT)" User table
232	(E8)	ADDRESS	4	MCTOFLTH	"V(HASPOFLT)" HASP table
236	(EC)	ADDRESS	4	MCTOFLTD	Dynamic table array
240	(F0)	ADDRESS	4	MCTOFFTP(0)	OFFN.DV PARM-STMT SUBSCAN PAIR
240	(F0)	ADDRESS	4	MCTOFFTU	"V(USEROFFT)" User table
244	(F4)	ADDRESS	4	MCTOFFTH	"V(HASPOFFT)" HASP table
248	(F8)	ADDRESS	4	MCTOFFTD	Dynamic table array
252	(FC)	ADDRESS	4	MCTOJRTP(0)	OFFN.JR PARM-STMT SUBSCAN PAIR
252	(FC)	ADDRESS	4	MCTOJRTU	"V(USEROJRT)" User table
256	(100)	ADDRESS	4	MCTOJRTH	"V(HASPOJRT)" HASP table
260	(104)	ADDRESS	4	MCTOJRTD	Dynamic table array
264	(108)	ADDRESS	4	MCTOJTTP(0)	OFFN.JT PARM-STMT SUBSCAN PAIR
264	(108)	ADDRESS	4	MCTOJTTU	"V(USEROJTT)" User table
268	(10C)	ADDRESS	4	MCTOJTTH	"V(HASPOJTT)" HASP table
272	(110)	ADDRESS	4	MCTOJTTD	Dynamic table array
276	(114)	ADDRESS	4	MCTOSRTP(0)	OFFN.SR PARM-STMT SUBSCAN PAIR
276	(114)	ADDRESS	4	MCTOSRTU	"V(USEROSRT)" User table
280	(118)	ADDRESS	4	MCTOSRTH	"V(HASPOSRT)" HASP table
284	(11C)	ADDRESS	4	MCTOSRTD	Dynamic table array
288	(120)	ADDRESS	4	MCTOSTTP(0)	OFFN.ST PARM-STMT SUBSCAN PAIR
288	(120)	ADDRESS	4	MCTOSTTU	"V(USEROSTT)" User table
292	(124)	ADDRESS	4	MCTOSTTH	"V(HASPOSTT)" HASP table
296	(128)	ADDRESS	4	MCTOSTTD	Dynamic table array
300	(12C)	ADDRESS	4	MCTPRTTP(0)	PRINTERNN PARM-STMT SUBSCAN
300	(12C)	ADDRESS	4	MCTPRTTU	"V(USERPRTT)" User table
304	(130)	ADDRESS	4	MCTPRTTH	"V(HASPPRTT)" HASP table
308	(134)	ADDRESS	4	MCTPRTTD	Dynamic table array
312	(138)	ADDRESS	4	MCTPRLTP(0)	PROCLIB(nnnnnnnn) PARM-STMT SUBSCAN
312	(138)	ADDRESS	4	MCTPRLTU	"V(USERPRLT)" User table

Table 274. Structure MCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
316	(13C)	ADDRESS	4	MCTPRLTH	"V(HASPPRLT)" HASP table
320	(140)	ADDRESS	4	MCTPRLTD	Dynamic table array
324	(144)	ADDRESS	4	MCTPUNTP(0)	PUNCHNN PARM-STMT SUBSCAN
324	(144)	ADDRESS	4	MCTPUNTU	"V(USERPUNT)" User table
328	(148)	ADDRESS	4	MCTPUNTH	"V(HASPPUNT)" HASP table
332	(14C)	ADDRESS	4	MCTPUNTD	Dynamic table array
336	(150)	ADDRESS	4	MCTRDITP(0)	RDI PARM-STMT SUBSCAN PAIR
336	(150)	ADDRESS	4	MCTRDITU	"V(USERRDIT)" User table
340	(154)	ADDRESS	4	MCTRDITH	"V(HASPRDIT)" HASP table
344	(158)	ADDRESS	4	MCTRDITD	Dynamic table array
348	(15C)	ADDRESS	4	MCTRDRTP(0)	READERNN PARM-STMT SUBSCAN
348	(15C)	ADDRESS	4	MCTRDRTU	"V(USERRDRT)" User table
352	(160)	ADDRESS	4	MCTRDRTH	"V(HASPRDRT)" HASP table
356	(164)	ADDRESS	4	MCTRDRTD	Dynamic table array
360	(168)	ADDRESS	4	MCTRQJTP(0)	REQJOBID PARM-STMT SUBSCAN
360	(168)	ADDRESS	4	MCTRQJTU	"V(USERRQJT)" User table
364	(16C)	ADDRESS	4	MCTRQJTH	"V(HASPRQJT)" HASP table
368	(170)	ADDRESS	4	MCTRQJTD	Dynamic table array
372	(174)	ADDRESS	4	MCTRDVTP(0)	RNNNNDVX PARM-STMT SUBSCAN PAIR
372	(174)	ADDRESS	4	MCTRDVTU	"V(USERRDVT)" User table
376	(178)	ADDRESS	4	MCTRDVTH	"V(HASPRDVT)" HASP table
380	(17C)	ADDRESS	4	MCTRDVTD	Dynamic table array
384	(180)	ADDRESS	4	MCTRPRTP(0)	RNNNNPRX PARM-STMT SUBSCAN
384	(180)	ADDRESS	4	MCTRPRTU	"V(USERRPRT)" User table
388	(184)	ADDRESS	4	MCTRPRTH	"V(HASPRPRT)" HASP table
392	(188)	ADDRESS	4	MCTRPRTD	Dynamic table array
396	(18C)	ADDRESS	4	MCTRPUTP(0)	RNNNNPUX PARM-STMT SUBSCAN
396	(18C)	ADDRESS	4	MCTRPUTU	"V(USERRPUT)" User table
400	(190)	ADDRESS	4	MCTRPUTH	"V(HASPRPUT)" HASP table
404	(194)	ADDRESS	4	MCTRPUTD	Dynamic table array
408	(198)	ADDRESS	4	MCTRRDTP(0)	RNNNNRDX PARM-STMT SUBSCAN
408	(198)	ADDRESS	4	MCTRRDTU	"V(USERRRDT)" User table
412	(19C)	ADDRESS	4	MCTRRDTH	"V(HASPRRDT)" HASP table
416	(1A0)	ADDRESS	4	MCTRRDTD	Dynamic table array
420	(1A4)	ADDRESS	4	MCTRCNTP(0)	RNNNNCN PARM-STMT SUBSCAN
420	(1A4)	ADDRESS	4	MCTRCNTU	"V(USERRCNT)" User table
424	(1A8)	ADDRESS	4	MCTRCNTH	"V(HASPRCNT)" HASP table
428	(1AC)	ADDRESS	4	MCTRCNTD	Dynamic table array
432	(1B0)	ADDRESS	4	MCTSUBTP(0)	SUBNET PARM-STMT SUBSCAN
432	(1B0)	ADDRESS	4	MCTSUBTU	"V(USERSUBT)" User table
436	(1B4)	ADDRESS	4	MCTSUBTH	"V(HASPSUBT)" HASP table
440	(1B8)	ADDRESS	4	MCTSUBTD	Dynamic table array
444	(1BC)	ADDRESS	4	MCTNSVTP(0)	NETSRV PARM-STMT SUBSCAN
444	(1BC)	ADDRESS	4	MCTNSVTU	"V(USERNSVT)" User table
448	(1C0)	ADDRESS	4	MCTNSVTH	"V(HASPNSVT)" HASP table
452	(1C4)	ADDRESS	4	MCTNSVTD	Dynamic table array
456	(1C8)	ADDRESS	4	MCTNTRTP(0)	NETSRVnnn TRACE KEYWORD SUBSCAN
456	(1C8)	ADDRESS	4	MCTNTRTU	"V(USERNTRT)" User table
460	(1CC)	ADDRESS	4	MCTNTRTH	"V(HASPNTRT)" HASP table
464	(1D0)	ADDRESS	4	MCTNTRTD	Dynamic table array
468	(1D4)	ADDRESS	4	MCTSOKTP(0)	SOCKET PARM-STMT SUBSCAN
468	(1D4)	ADDRESS	4	MCTSOKTU	"V(USERSOKT)" User table

Table 274. Structure MCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
472	(1D8)	ADDRESS	4	MCTSOKTH	"V(HASPSOKT)" HASP table
476	(1DC)	ADDRESS	4	MCTSOKTD	Dynamic table array
480	(1E0)	ADDRESS	4	(3)	Reserved for future use
		$SCAN FACILITY HASP TABLE FOR SUBSCANNING OF VECTOR TYPE PARAMETER STATEMENTS.			
492	(1EC)	ADDRESS	4	MCTADRTP(0)	BAD TRACK ADDRESS OPERAND VECTR
492	(1EC)	ADDRESS	4	MCTADRTH	"V(HASPVADR)" HASP VECTOR table
496	(1F0)	ADDRESS	4	MCTVTMTP(0)	TIME OPERAND VECTOR
496	(1F0)	ADDRESS	4	MCTVTMTH	"V(HASPVTIM)" HASP VECTOR table
500	(1F4)	ADDRESS	4	MCTAUTTP(0)	AUTHORITY OPERAND VECTOR
500	(1F4)	ADDRESS	4	MCTAUTTH	"V(HASPVAUT)" HASP VECTOR table
504	(1F8)	ADDRESS	4	MCTMSGTP(0)	MESSAGE OPERAND VECTOR
504	(1F8)	ADDRESS	4	MCTMSGTH	"V(HASPVMSG)" HASP VECTOR table
508	(1FC)	ADDRESS	4	MCTCHRTP(0)	CHARACTER OPERAND VECTOR
508	(1FC)	ADDRESS	4	MCTCHRTH	"V(HASPVCHR)" HASP VECTOR table
512	(200)	ADDRESS	4	MCTXRTTP(0)	ROUTINE OPERAND VECTOR
512	(200)	ADDRESS	4	MCTXRTTH	"V(HASPVXRT)" HASP VECTOR table
516	(204)	ADDRESS	4	MCTJRNTP(0)	JOB RANGE OPERAND VECTOR (INIT)
516	(204)	ADDRESS	4	MCTJRNTH	"V(HASPVJRN)" HASP VECTOR table
520	(208)	ADDRESS	4	MCTRANTP(0)	JOB RANGE OPERAND VECTOR($T/$D)
520	(208)	ADDRESS	4	MCTRANTH	"V(HASPVJBR)" HASP VECTOR table
524	(20C)	ADDRESS	4	MCTDRMTP(0)	DORMANCY OPERAND VECTOR
524	(20C)	ADDRESS	4	MCTDRMTH	"V(HASPVDRM)" HASP VECTOR table
528	(210)	ADDRESS	4	MCTRNGTP(0)	RANGE OPERAND VECTOR
528	(210)	ADDRESS	4	MCTRNGTH	"V(HASPVRNG)" HASP VECTOR table
532	(214)	ADDRESS	4	MCTRN2TP(0)	RANGE OPERAND VECTOR 2
532	(214)	ADDRESS	4	MCTRN2TH	"V(HASPVRN2)" HASP VECTOR table
536	(218)	ADDRESS	4	MCTPRCTP(0)	ROUTE CODE OPERAND VECTOR
536	(218)	ADDRESS	4	MCTPRCTH	"V(HASPVPRC)" HASP VECTOR table
540	(21C)	ADDRESS	4	MCTSAFTP(0)	SYSTEM AFFINITY OPERAND VECTOR
540	(21C)	ADDRESS	4	MCTSAFTH	"V(HASPVSAF)" HASP VECTOR table
544	(220)	ADDRESS	4	MCTVOLTP(0)	VOLUME OPERAND VECTOR
544	(220)	ADDRESS	4	MCTVOLTH	"V(HASPVVOL)" HASP VECTOR table
548	(224)	ADDRESS	4	MCTFRMTP(0)	FORMS OPERAND VECTOR
548	(224)	ADDRESS	4	MCTFRMTH	"V(HASPVFRM)" HASP VECTOR table
552	(228)	ADDRESS	4	MCTPPRTP(0)	PRMODE OPERAND VECTOR
552	(228)	ADDRESS	4	MCTPPRTH	"V(HASPVPPR)" HASP VECTOR table
556	(22C)	ADDRESS	4	MCTLIMTP(0)	LIMIT OPERAND VECTOR
556	(22C)	ADDRESS	4	MCTLIMTH	"V(HASPVLIM)" HASP VECTOR table
560	(230)	ADDRESS	4	MCTMSMTP(0)	MODULE ASSEMBLE= VECTOR
560	(230)	ADDRESS	4	MCTMSMTH	"V(HASPMSMT)" HASP VECTOR table
564	(234)	ADDRESS	4	MCTPLMTP(0)	PLIM OPERAND VECTOR
564	(234)	ADDRESS	4	MCTPLMTH	"V(HASPVPLM)" HASP VECTOR table
568	(238)	ADDRESS	4	MCTOUNTP(0)	OFFLOAD UNIT= OPERAND
568	(238)	ADDRESS	4	MCTOUNTH	"V(HASPOUNT)" HASP VECTOR table
572	(23C)	ADDRESS	4	MCTVWSTP(0)	WS OPERAND VECTOR
572	(23C)	ADDRESS	4	MCTVWSTH	"V(HASPVWST)" HASP VECTOR table
576	(240)	ADDRESS	4	MCTVOSTP(0)	OUTDISP OPERAND VECTOR
576	(240)	ADDRESS	4	MCTVOSTH	"V(HASPVODS)" HASP VECTOR table
580	(244)	ADDRESS	4	MCTVOJTP(0)	OUTDISP OPERAND
580	(244)	ADDRESS	4	MCTVOJTH	"V(HASPVODJ)" HASP VECTOR table

Table 274. Structure MCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
584	(248)	ADDRESS	4	MCTVSRTP(0)	OUTDISP OPERAND VECTOR
584	(248)	ADDRESS	4	MCTVSRTH	"V(HASPVOSR)" HASP VECTOR table
588	(24C)	ADDRESS	4	MCTVSTTP(0)	OUTDISP OPERAND VECTOR
588	(24C)	ADDRESS	4	MCTVSTTH	"V(HASPVOST)" HASP VECTOR table
592	(250)	ADDRESS	4	MCTVSFTP(0)	RDRnn SYSAFF=OPERAND VECTOR
592	(250)	ADDRESS	4	MCTVSFTH	"V(HASPRSFT)" HASP VECTOR table
596	(254)	ADDRESS	4	MCTVWSAP(0)	SRVCLASS ACTIVE= OPERAND VECTOR
596	(254)	ADDRESS	4	MCTVWSAH	"V(HASPWSAP)" HASP VECTOR table
600	(258)	ADDRESS	4	MCTVCATP(0)	JOBCLASS ACTIVE= operand vector
600	(258)	ADDRESS	4	MCTVCATH	"V(HASPCATP)" HASP VECTOR table
604	(25C)	ADDRESS	4	MCTVSSTP(0)	SPOOL SYSAFF=OPERAND VECTOR
604	(25C)	ADDRESS	4	MCTVSSTH	"V(HASPRSST)" HASP VECTOR table
608	(260)	ADDRESS	4	MCTVISTP(0)	SPOOL INIT SYSAFF=operand Vector
608	(260)	ADDRESS	4	MCTVISTH	"V(HASPISAF)" HASP VECTOR table
612	(264)	ADDRESS	4	MCTVJCTP(0)	JOBnn CMDAUTH= VECTOR
612	(264)	ADDRESS	4	MCTVJCTH	"V(HASPJCMT)" HASP VECTOR table
616	(268)	ADDRESS	4	MCTVJSTP(0)	JOBnn SYSAFF=OPERAND VECTOR
616	(268)	ADDRESS	4	MCTVJSTH	"V(HASPJSFT)" HASP VECTOR table
620	(26C)	ADDRESS	4	MCTVJOFP(0)	JOBnn OFFS= OPERAND VECTOR
620	(26C)	ADDRESS	4	MCTVJOFH	"V(HASPJOFT)" HASP VECTOR table
624	(270)	ADDRESS	4	MCTVSOFP(0)	OUTPUT OFFS= OPERAND VECTOR
624	(270)	ADDRESS	4	MCTVSOFH	"V(HASPSOFT)" HASP VECTOR table
628	(274)	ADDRESS	4	MCTVVUDP(0)	SPOOL UNITDATA TRKRANGE
628	(274)	ADDRESS	4	MCTVVUDH	"V(HASPVUDT)" HASP VECTOR table
632	(278)	ADDRESS	4	MCTVJVLP(0)	JOBnnn VOLUMES= vector
632	(278)	ADDRESS	4	MCTVJVLH	"V(HASPVJVT)" HASP VECTOR table
636	(27C)	ADDRESS	4	MCTVJABP(0)	JOBnnn ABEND= vector
636	(27C)	ADDRESS	4	MCTVJABH	"V(HASPVABT)" HASP VECTOR table
640	(280)	ADDRESS	4	MCTVOJLP(0)	JESLOG OPERAND
640	(280)	ADDRESS	4	MCTVOJLH	"V(HASPVJL)" HASP VECTOR table
644	(284)	ADDRESS	4	MCTDVRTP(0)	LINEn/LOGONn/NETSRVn RESTART KEYWORD SUBSCAN
644	(284)	ADDRESS	4	MCTDVRTH	"V(HASPVDVR)" HASP VECTOR table
648	(288)	ADDRESS	4	MCTLNCTP(0)	LINEnnnnn CONNECT KEYWORD SUBSCAN
648	(288)	ADDRESS	4	MCTLNCTH	"V(HASPVLNC)" HASP VECTOR table
652	(28C)	ADDRESS	4	MCTSKCTP(0)	SOCKET CONNECT KEYWORD SUBSCAN
652	(28C)	ADDRESS	4	MCTSKCTH	"V(HASPVSKC)" HASP VECTOR table
656	(290)	ADDRESS	4	MCTSPSTP(0)	SPOOL SPACE= subparm
656	(290)	ADDRESS	4	MCTSPSTH	"V(HASPVSPS)" HASP VECTOR table
660	(294)	ADDRESS	4	MCTAPCTP(0)	APPL CONNECT KEYWORD SUBSCAN
660	(294)	ADDRESS	4	MCTAPCTH	"V(HASPVAPC)" HASP VECTOR table
664	(298)	ADDRESS	4	MCTNJCTP(0)	NJEDEF CONNECT KEYWORD SUBSCAN
664	(298)	ADDRESS	4	MCTNJCTH	"V(HASPVNJC)" HASP VECTOR table
668	(29C)	ADDRESS	4	MCTNOCTP(0)	NODEnnnn CONNECT KEYWORD SUBSCAN
668	(29C)	ADDRESS	4	MCTNOCTH	"V(HASPVNOC)" HASP VECTOR table
672	(2A0)	ADDRESS	4	MCTPTCTP(0)	INIT(xxx) CLASS KEYWORD SUBSCAN
672	(2A0)	ADDRESS	4	MCTPTCTH	"V(HASPVPTC)" HASP VECTOR table
676	(2A4)	ADDRESS	4	MCTOFCTP(0)	OFFx.Jx CLASS KEYWORD SUBSCAN
676	(2A4)	ADDRESS	4	MCTOFCTH	"V(HASPVOFC)" HASP VECTOR table
680	(2A8)	ADDRESS	4	MCTCKSTP(0)	CKPTn SPACE= subparm
680	(2A8)	ADDRESS	4	MCTCKSTH	"V(HASPVCKS)" HASP VECTOR table

Table 274. Structure MCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
684	(2AC)	ADDRESS	4	MCTCFSTP(0)	CKPTSPACE CKPTn SIZE= vector
684	(2AC)	ADDRESS	4	MCTCFSTH	"V(HASPVCFS)" HASP VECTOR table
688	(2B0)	ADDRESS	4	MCTP1CTP(0)	INIT(xxx) 1-CHAR CLASS KEYWRD SUBSCAN
688	(2B0)	ADDRESS	4	MCTP1CTH	"V(HASPVP1C)" HASP VECTOR table
692	(2B4)	ADDRESS	4		Reserved for future use
696	(2B8)	ADDRESS	4		Reserved for future use
700	(2BC)	ADDRESS	4		Reserved for future use
704	(2C0)	ADDRESS	4		Reserved for future use
	$SCAN FACILITY HASP/USER TABLE PAIRS FOR SUBSCANNING OF MISCELLANEOUS PARAMETER STATEMENTS.				
708	(2C4)	ADDRESS	4	MCTACTTP(0)	ACTRMT statement table pair
708	(2C4)	ADDRESS	4	MCTACTTU	"V(USERACTT)" User table
712	(2C8)	ADDRESS	4	MCTACTTH	"V(HASPACTT)" HASP table
716	(2CC)	ADDRESS	4	MCTACTTD	Dynamic table array
720	(2D0)	ADDRESS	4	MCTAPLTP(0)	APPL PARM-STMT SUBSCAN
720	(2D0)	ADDRESS	4	MCTAPLTU	"V(USERAPLT)" User table
724	(2D4)	ADDRESS	4	MCTAPLTH	"V(HASPAPLT)" HASP table
728	(2D8)	ADDRESS	4	MCTAPLTD	Dynamic table array
732	(2DC)	ADDRESS	4	MCTBADTP(0)	BADTRACK PARM-STMT SUBSCAN
732	(2DC)	ADDRESS	4	MCTBADTU	"V(USERBADT)" User table
736	(2E0)	ADDRESS	4	MCTBADTH	"V(HASPBADT)" HASP table
740	(2E4)	ADDRESS	4	MCTBADTD	Dynamic table array
744	(2E8)	ADDRESS	4	MCTBUFTP(0)	BUFDEF PARM-STMT SUBSCAN PAIR
744	(2E8)	ADDRESS	4	MCTBUFTU	"V(USERBUFT)" User table
748	(2EC)	ADDRESS	4	MCTBUFTH	"V(HASPBUFT)" HASP table
752	(2F0)	ADDRESS	4	MCTBUFTD	Dynamic table array
756	(2F4)	ADDRESS	4	MCTBFHTP(0)	BUFDEF BELOWBUF SUBSCAN PR
756	(2F4)	ADDRESS	4	MCTBFHTU	"V(USERBFHT)" User table
760	(2F8)	ADDRESS	4	MCTBFHTH	"V(HASPBFHT)" HASP table
764	(2FC)	ADDRESS	4	MCTBFHTD	Dynamic table array
768	(300)	ADDRESS	4	MCTBFXTP(0)	BUFDEF ABOVEBUF SUBSCAN PR
768	(300)	ADDRESS	4	MCTBFXTU	"V(USERBFXT)" User table
772	(304)	ADDRESS	4	MCTBFXTH	"V(HASPBFXT)" HASP table
776	(308)	ADDRESS	4	MCTBFXTD	Dynamic table array
780	(30C)	ADDRESS	4	MCTBSCTP(0)	TPDEF BSC SUBSCAN PAIR
780	(30C)	ADDRESS	4	MCTBSCTU	"V(USERBSCT)" User table
784	(310)	ADDRESS	4	MCTBSCTH	"V(HASPBSCT)" HASP table
788	(314)	ADDRESS	4	MCTBSCTD	Dynamic table array
792	(318)	ADDRESS	4	MCTSNATP(0)	TPDEF SNA SUBSCAN PAIR
792	(318)	ADDRESS	4	MCTSNATU	"V(USERSNAT)" User table
796	(31C)	ADDRESS	4	MCTSNATH	"V(HASPSNAT)" HASP table
800	(320)	ADDRESS	4	MCTSNATD	Dynamic table array
804	(324)	ADDRESS	4	MCTSESTP(0)	TPDEF SESSIONS= subscan
804	(324)	ADDRESS	4	MCTSESTU	"V(USERSEST)" User table
808	(328)	ADDRESS	4	MCTSESTH	"V(HASPSEST)" HASP table
812	(32C)	ADDRESS	4	MCTSESTD	Dynamic table array
816	(330)	ADDRESS	4	MCTJCXTP(0)	JOBCLASS XEQCOUNT= subscan
816	(330)	ADDRESS	4	MCTJCXTU	"V(USERJCXT)" User table
820	(334)	ADDRESS	4	MCTJCXTH	"V(HASPJCXT)" HASP table
824	(338)	ADDRESS	4	MCTJCXTD	Dynamic table array

Table 274. Structure MCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
828	(33C)	ADDRESS	4	MCTJCCTP(0)	JOB CC (completion code)
828	(33C)	ADDRESS	4	MCTJCCTU	"V(USERJCCT)" User table
832	(340)	ADDRESS	4	MCTJCCTH	"V(HASPJCCT)" HASP table
836	(344)	ADDRESS	4	MCTJCCTD	Dynamic table array
840	(348)	ADDRESS	4	MCTCATTP(0)	JOB CLASS PARM-STMTS SUBSCAN
840	(348)	ADDRESS	4	MCTCATTU	"V(USERCATT)" User table
844	(34C)	ADDRESS	4	MCTCATTH	"V(HASPCATT)" HASP table
848	(350)	ADDRESS	4	MCTCATTD	Dynamic table array
852	(354)	ADDRESS	4	MCTVXMTP(0)	JOBCLASS XEQMEMBER= SUBSCAN
852	(354)	ADDRESS	4	MCTVXMTU	"V(USERVXMT)" User table
856	(358)	ADDRESS	4	MCTVXMTH	"V(HASPXMTP)" HASP table
860	(35C)	ADDRESS	4	MCTVXMTD	Dynamic table array
864	(360)	ADDRESS	4	MCTCKTTP(0)	CKPTDEF PARM-STMT SUBSCAN PAIR
864	(360)	ADDRESS	4	MCTCKTTU	"V(USERCKTT)" User table
868	(364)	ADDRESS	4	MCTCKTTH	"V(HASPCKTT)" HASP table
872	(368)	ADDRESS	4	MCTCKTTD	Dynamic table array
876	(36C)	ADDRESS	4	MCTCKLTP(0)	CKPTLOCK PARM-STMT TABLE PR
876	(36C)	ADDRESS	4	MCTCKLTU	"V(USERCKLT)" User table
880	(370)	ADDRESS	4	MCTCKLTH	"V(HASPCKLT)" HASP table
884	(374)	ADDRESS	4	MCTCKLTD	Dynamic table array
888	(378)	ADDRESS	4	MCTSPCTP(0)	CKPTSPACE Parm-stmt tbl pr
888	(378)	ADDRESS	4	MCTSPCTU	"V(USERSPCT)" User table
892	(37C)	ADDRESS	4	MCTSPCTH	"V(HASPSPCT)" HASP table
896	(380)	ADDRESS	4	MCTSPCTD	Dynamic table array
900	(384)	ADDRESS	4	MCTKPNTP(0)	CKPTDEF CKPTN= SUBSCAN PAIR
900	(384)	ADDRESS	4	MCTKPNTU	"V(USERKPNT)" User table
904	(388)	ADDRESS	4	MCTKPNTH	"V(HASPKPNT)" HASP table
908	(38C)	ADDRESS	4	MCTKPNTD	Dynamic table array
912	(390)	ADDRESS	4	MCTEKNTP(0)	CKPTDEF NEWCKPTN= SUBSCAN
912	(390)	ADDRESS	4	MCTEKNTU	"V(USEREKNT)" User table
916	(394)	ADDRESS	4	MCTEKNTH	"V(HASPEKNT)" HASP table
920	(398)	ADDRESS	4	MCTEKNTD	Dynamic table array
924	(39C)	ADDRESS	4	MCTVLTTP(0)	CKPTDEF VOLATILE= subscan
924	(39C)	ADDRESS	4	MCTVLTTU	"V(USERVLTT)" User table
928	(3A0)	ADDRESS	4	MCTVLTTH	"V(HASPVLTT)" HASP table
932	(3A4)	ADDRESS	4	MCTVLTTD	Dynamic table array
936	(3A8)	ADDRESS	4	MCTVKPTP(0)	CKPTDEF VERSIONS= SUBSCAN
936	(3A8)	ADDRESS	4	MCTVKPTU	"V(USERVKPT)" User table
940	(3AC)	ADDRESS	4	MCTVKPTH	"V(HASPVKPT)" HASP table
944	(3B0)	ADDRESS	4	MCTVKPTD	Dynamic table array
948	(3B4)	ADDRESS	4	MCTCLGTP(0)	CLASSGRP PARM-STMT SUBSCAN
948	(3B4)	ADDRESS	4	MCTCLGTU	"V(USERCLGT)" User table
952	(3B8)	ADDRESS	4	MCTCLGTH	"V(HASPCLGT)" HASP table
956	(3BC)	ADDRESS	4	MCTCLGTD	Dynamic table array
960	(3C0)	ADDRESS	4	MCTCNDTP(0)	CONDEF PARM-STMT SUBSCAN PAIR
960	(3C0)	ADDRESS	4	MCTCNDTU	"V(USERCNDT)" User table
964	(3C4)	ADDRESS	4	MCTCNDTH	"V(HASPCNDT)" HASP table
968	(3C8)	ADDRESS	4	MCTCNDTD	Dynamic table array
972	(3CC)	ADDRESS	4	MCTCOMTP(0)	COMPACT PARM-STMT SUBSCAN
972	(3CC)	ADDRESS	4	MCTCOMTU	"V(USERCOMT)" User table
976	(3D0)	ADDRESS	4	MCTCOMTH	"V(HASPCOMT)" HASP table
980	(3D4)	ADDRESS	4	MCTCOMTD	Dynamic table array

Table 274. Structure MCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
984	(3D8)	ADDRESS	4	MCTCONTP(0)	CONNECT PARM-STMT SUBSCAN
984	(3D8)	ADDRESS	4	MCTCONTU	"V(USERCONT)" User table
988	(3DC)	ADDRESS	4	MCTCONTH	"V(HASPCONT)" HASP table
992	(3E0)	ADDRESS	4	MCTCONTD	Dynamic table array
996	(3E4)	ADDRESS	4	MCTDBGTP(0)	DEBUG stmt table pair
996	(3E4)	ADDRESS	4	MCTDBGTU	"V(USERDBGT)" User table
1000	(3E8)	ADDRESS	4	MCTDBGTH	"V(HASPDBGT)" HASP table
1004	(3EC)	ADDRESS	4	MCTDBGTD	Dynamic table array
1008	(3F0)	ADDRESS	4	MCTDESTP(0)	DESTID PARM-STMT SUBSCAN
1008	(3F0)	ADDRESS	4	MCTDESTU	"V(USERDEST)" User table
1012	(3F4)	ADDRESS	4	MCTDESTH	"V(HASPDEST)" HASP table
1016	(3F8)	ADDRESS	4	MCTDESTD	Dynamic table array
1020	(3FC)	ADDRESS	4	MCTDSTTP(0)	DESTDEF stmt table pair
1020	(3FC)	ADDRESS	4	MCTDSTTU	"V(USERDSTT)" User table
1024	(400)	ADDRESS	4	MCTDSTTH	"V(HASPDSTT)" HASP table
1028	(404)	ADDRESS	4	MCTDSTTD	Dynamic table array
1032	(408)	ADDRESS	4	MCTDUPTP(0)	DUPJOB stmt table pair
1032	(408)	ADDRESS	4	MCTDUPTU	"V(USERDUPT)" User table
1036	(40C)	ADDRESS	4	MCTDUPTH	"V(HASPDUPT)" HASP table
1040	(410)	ADDRESS	4	MCTDUPTD	Dynamic table array
1044	(414)	ADDRESS	4	MCTELCTP(0)	ESTLNCT PARM-STMT SUBSCAN
1044	(414)	ADDRESS	4	MCTELCTU	"V(USERELCT)" User table
1048	(418)	ADDRESS	4	MCTELCTH	"V(HASPELCT)" HASP table
1052	(41C)	ADDRESS	4	MCTELCTD	Dynamic table array
1056	(420)	ADDRESS	4	MCTEBYTP(0)	ESTBYTE SUBSCAN PAIR
1056	(420)	ADDRESS	4	MCTEBYTU	"V(USEREBYT)" User table
1060	(424)	ADDRESS	4	MCTEBYTH	"V(HASPEBYT)" HASP table
1064	(428)	ADDRESS	4	MCTEBYTD	Dynamic table array
1068	(42C)	ADDRESS	4	MCTEPGTP(0)	ESTPAGE PARM-STMT SUBSCAN
1068	(42C)	ADDRESS	4	MCTEPGTU	"V(USEREPGT)" User table
1072	(430)	ADDRESS	4	MCTEPGTH	"V(HASPEPGT)" HASP table
1076	(434)	ADDRESS	4	MCTEPGTD	Dynamic table array
1080	(438)	ADDRESS	4	MCTEPNTP(0)	ESTPUN PARM-STMT SUBSCAN
1080	(438)	ADDRESS	4	MCTEPNTU	"V(USEREPNT)" User table
1084	(43C)	ADDRESS	4	MCTEPNTH	"V(HASPEPNT)" HASP table
1088	(440)	ADDRESS	4	MCTEPNTD	Dynamic table array
1092	(444)	ADDRESS	4	MCTETMTP(0)	ESTIME PARM-STMT SUBSCAN
1092	(444)	ADDRESS	4	MCTETMTU	"V(USERETMT)" User table
1096	(448)	ADDRESS	4	MCTETMTH	"V(HASPETMT)" HASP table
1100	(44C)	ADDRESS	4	MCTETMTD	Dynamic table array
1104	(450)	ADDRESS	4	MCTXITTP(0)	EXITNNN PARM-STMT SUBSCAN
1104	(450)	ADDRESS	4	MCTXITTU	"V(USERXITT)" User table
1108	(454)	ADDRESS	4	MCTXITTH	"V(HASPXITT)" HASP table
1112	(458)	ADDRESS	4	MCTXITTD	Dynamic table array
1116	(45C)	ADDRESS	4	MCTXRLTP(0)	EXITnnn ROUTINE= parm subscan
1116	(45C)	ADDRESS	4	MCTXRLTU	"V(USERXRLT)" User table
1120	(460)	ADDRESS	4	MCTXRLTH	"V(HASPXRLT)" HASP table
1124	(464)	ADDRESS	4	MCTXRLTD	Dynamic table array
1128	(468)	ADDRESS	4	MCTFSSTP(0)	FSS parm-stmt subscan pair
1128	(468)	ADDRESS	4	MCTFSSTU	"V(USERFSST)" User table
1132	(46C)	ADDRESS	4	MCTFSSTH	"V(HASPFSST)" HASP table
1136	(470)	ADDRESS	4	MCTFSSTD	Dynamic table array

Table 274. Structure MCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1140	(474)	ADDRESS	4	MCTINCTP(0)	INCLUDE init-stmt subscan pair
1140	(474)	ADDRESS	4	MCTINCTU	"V(USERINCT)" User table
1144	(478)	ADDRESS	4	MCTINCTH	"V(HASPINCT)" HASP table
1148	(47C)	ADDRESS	4	MCTINCTD	Dynamic table array
1152	(480)	ADDRESS	4	MCTHDRTP(0)	NJEDEF HDRBUF subscan pair
1152	(480)	ADDRESS	4	MCTHDRTU	"V(USERHDRT)" User table
1156	(484)	ADDRESS	4	MCTHDRTH	"V(HASPHDRT)" HASP table
1160	(488)	ADDRESS	4	MCTHDRTD	Dynamic table array
1164	(48C)	ADDRESS	4	MCTPARTP(0)	INITDEF PARM-STMT SUBSCAN PAIR
1164	(48C)	ADDRESS	4	MCTPARTU	"V(USERPART)" User table
1168	(490)	ADDRESS	4	MCTPARTH	"V(HASPPART)" HASP table
1172	(494)	ADDRESS	4	MCTPARTD	Dynamic table array
1176	(498)	ADDRESS	4	MCTIINTP(0)	INITINFO PARM-STMT SUBSCAN PAIR
1176	(498)	ADDRESS	4	MCTIINTU	"V(USERIINT)" User table
1180	(49C)	ADDRESS	4	MCTIINTH	"V(HASPIINT)" HASP table
1184	(4A0)	ADDRESS	4	MCTIINTD	Dynamic table array
1188	(4A4)	ADDRESS	4	MCTPITTP(0)	INNNN PARM-STMT SUBSCAN
1188	(4A4)	ADDRESS	4	MCTPITTU	"V(USERPITT)" User table
1192	(4A8)	ADDRESS	4	MCTPITTH	"V(HASPPITT)" HASP table
1196	(4AC)	ADDRESS	4	MCTPITTD	Dynamic table array
1200	(4B0)	ADDRESS	4	MCTGRPTP(0)	GRPDEF PARM-STMT SUBSCAN PAIR
1200	(4B0)	ADDRESS	4	MCTGRPTU	"V(USERGRPT)" User table
1204	(4B4)	ADDRESS	4	MCTGRPTH	"V(HASPGRPT)" HASP table
1208	(4B8)	ADDRESS	4	MCTGRPTD	Dynamic table array
1212	(4BC)	ADDRESS	4	MCTINPTP(0)	INPUTDEF PARM-STMT SUBSCAN PAIR
1212	(4BC)	ADDRESS	4	MCTINPTU	"V(USERINPT)" User table
1216	(4C0)	ADDRESS	4	MCTINPTH	"V(HASPINPT)" HASP table
1220	(4C4)	ADDRESS	4	MCTINPTD	Dynamic table array
1224	(4C8)	ADDRESS	4	MCTJECTP(0)	JECLDEF PARM-STMT SUBSCAN PAIR
1224	(4C8)	ADDRESS	4	MCTJECTU	"V(USERJECT)" User table
1228	(4CC)	ADDRESS	4	MCTJECTH	"V(HASPJECT)" HASP table
1232	(4D0)	ADDRESS	4	MCTJECTD	Dynamic table array
1236	(4D4)	ADDRESS	4	MCTJ2CTP(0)	JECLDEF JES2= KEYWORD SUBSCAN PAIR
1236	(4D4)	ADDRESS	4	MCTJ2CTU	"V(USERJ2CT)" User table
1240	(4D8)	ADDRESS	4	MCTJ2CTH	"V(HASPJ2CT)" HASP table
1244	(4DC)	ADDRESS	4	MCTJ2CTD	Dynamic table array
1248	(4E0)	ADDRESS	4	MCTJ3CTP(0)	JECLDEF JES3= KEYWORD SUBSCAN PAIR
1248	(4E0)	ADDRESS	4	MCTJ3CTU	"V(USERJ3CT)" User table
1252	(4E4)	ADDRESS	4	MCTJ3CTH	"V(HASPJ3CT)" HASP table
1256	(4E8)	ADDRESS	4	MCTJ3CTD	Dynamic table array
1260	(4EC)	ADDRESS	4	MCTJOBTP(0)	JOBDEF PARM-STMT SUBSCAN PAIR
1260	(4EC)	ADDRESS	4	MCTJOBTU	"V(USERJOBT)" User table
1264	(4F0)	ADDRESS	4	MCTJOBTH	"V(HASPJOBT)" HASP table
1268	(4F4)	ADDRESS	4	MCTJOBTD	Dynamic table array
1272	(4F8)	ADDRESS	4	MCTJQETP(0)	JOBnnn PARM-STMT SUBSCAN PAIR
1272	(4F8)	ADDRESS	4	MCTJQETU	"V(USERJQET)" User table
1276	(4FC)	ADDRESS	4	MCTJQETH	"V(HASPJQET)" HASP table
1280	(500)	ADDRESS	4	MCTJQETD	Dynamic table array
1284	(504)	ADDRESS	4	MCTJSPTP(0)	JOBnnn SPOOL= SUBSCAN PAIR
1284	(504)	ADDRESS	4	MCTJSPTU	"V(USERJSPT)" User table

Table 274. Structure MCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1288	(508)	ADDRESS	4	MCTJSPTH	"V(HASPJSPT)" HASP table
1292	(50C)	ADDRESS	4	MCTJSPTD	Dynamic table array
1296	(510)	ADDRESS	4	MCTJOFTP(0)	Gnnn JOBFULL SUBSCAN PAIR
1296	(510)	ADDRESS	4	MCTJOFTU	"V(USERGJOF)" User table
1300	(514)	ADDRESS	4	MCTJOFTH	"V(HASPGJOF)" HASP table
1304	(518)	ADDRESS	4	MCTJOFTD	Dynamic table array
1308	(51C)	ADDRESS	4	MCTMJFTP(0)	Gnnn JOBFULL SUBSCAN PAIR
1308	(51C)	ADDRESS	4	MCTMJFTU	"V(USERMJOF)" User table
1312	(520)	ADDRESS	4	MCTMJFTH	"V(HASPMJOF)" HASP table
1316	(524)	ADDRESS	4	MCTMJFTD	Dynamic table array
1320	(528)	ADDRESS	4	MCTJFLTP(0)	Gnnn JOBFULL SUBSCAN PAIR
1320	(528)	ADDRESS	4	MCTJFLTU	"V(USERJOFL)" User table
1324	(52C)	ADDRESS	4	MCTJFLTH	"V(HASPJOFL)" HASP table
1328	(530)	ADDRESS	4	MCTJFLTD	Dynamic table array
1332	(534)	ADDRESS	4	MCTJFETP(0)	Gnnn JOBFULL SUBSCAN PAIR
1332	(534)	ADDRESS	4	MCTJFETU	"V(USERJOFE)" User table
1336	(538)	ADDRESS	4	MCTJFETH	"V(HASPJOFE)" HASP table
1340	(53C)	ADDRESS	4	MCTJFETD	Dynamic table array
1344	(540)	ADDRESS	4	MCTJPYTP(0)	JOBPRTY PARM-STMT SUBSCAN PAIR
1344	(540)	ADDRESS	4	MCTJPYTU	"V(USERJPYT)" User table
1348	(544)	ADDRESS	4	MCTJPYTH	"V(HASPJPYT)" HASP table
1352	(548)	ADDRESS	4	MCTJPYTD	Dynamic table array
1356	(54C)	ADDRESS	4	MCTLODTP(0)	LOADMOD PARM-STMT SUBSCAN PAIR
1356	(54C)	ADDRESS	4	MCTLODTU	"V(USERLODT)" User table
1360	(550)	ADDRESS	4	MCTLODTH	"V(HASPLODT)" HASP table
1364	(554)	ADDRESS	4	MCTLODTD	Dynamic table array
1368	(558)	ADDRESS	4	MCTMASTP(0)	MASDEF PARM-STMT SUBSCAN PAIR
1368	(558)	ADDRESS	4	MCTMASTU	"V(USERMAST)" User table
1372	(55C)	ADDRESS	4	MCTMASTH	"V(HASPMAST)" HASP table
1376	(560)	ADDRESS	4	MCTMASTD	Dynamic table array
1380	(564)	ADDRESS	4	MCTMEMTP(0)	MEMBER parm-stmt subscan
1380	(564)	ADDRESS	4	MCTMEMTU	"V(USERMEMT)" User table
1384	(568)	ADDRESS	4	MCTMEMTH	"V(HASPMEMT)" HASP table
1388	(56C)	ADDRESS	4	MCTMEMTD	Dynamic table array
1392	(570)	ADDRESS	4	MCTSTYTP(0)	MEMBER LASTART= subscan
1392	(570)	ADDRESS	4	MCTSTYTU	"V(USERSTYT)" User table
1396	(574)	ADDRESS	4	MCTSTYTH	"V(HASPSTYT)" HASP table
1400	(578)	ADDRESS	4	MCTSTYTD	Dynamic table array
1404	(57C)	ADDRESS	4	MCTMIGTP(0)	SPOOL MIGDATA= subparm
1404	(57C)	ADDRESS	4	MCTMIGTU	"V(USERMIGT)" User table
1408	(580)	ADDRESS	4	MCTMIGTH	"V(HASPMIGT)" HASP table
1412	(584)	ADDRESS	4	MCTMIGTD	Dynamic table array
1416	(588)	ADDRESS	4	MCTMODTP(0)	MODULE PARM-STMT SUBSCAN
1416	(588)	ADDRESS	4		User table
1420	(58C)	ADDRESS	4	MCTMODTH	"V(HASPMODT)" HASP table
1424	(590)	ADDRESS	4		Dynamic table array
1428	(594)	ADDRESS	4	MCTNJETP(0)	NJEDEF PARM-STMT SUBSCAN PAIR
1428	(594)	ADDRESS	4	MCTNJETU	"V(USERNJET)" User table
1432	(598)	ADDRESS	4	MCTNJETH	"V(HASPNJET)" HASP table
1436	(59C)	ADDRESS	4	MCTNJETD	Dynamic table array
1440	(5A0)	ADDRESS	4	MCTNWKTP(0)	NETWORK PARM-STMT SUBSCAN PAIR
1440	(5A0)	ADDRESS	4	MCTNWKTU	"V(USERNWKT)" User table

Table 274. Structure MCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1444	(5A4)	ADDRESS	4	MCTNWKTH	"V(HASPNWKT)" HASP table
1448	(5A8)	ADDRESS	4	MCTNWKTD	Dynamic table array
1452	(5AC)	ADDRESS	4	MCTNODTP(0)	NNNNN PARM-STMT SUBSCAN
1452	(5AC)	ADDRESS	4	MCTNODTU	"V(USERNODT)" User table
1456	(5B0)	ADDRESS	4	MCTNODTH	"V(HASPNODT)" HASP table
1460	(5B4)	ADDRESS	4	MCTNODTD	Dynamic table array
1464	(5B8)	ADDRESS	4	MCTNDPTP(0)	NODEnnnn PASSWORD subscan
1464	(5B8)	ADDRESS	4	MCTNDPTU	"V(USERNDPT)" User table
1468	(5BC)	ADDRESS	4	MCTNDPTH	"V(HASPNDPT)" HASP table
1472	(5C0)	ADDRESS	4	MCTNDPTD	Dynamic table array
1476	(5C4)	ADDRESS	4	MCTNAUTP(0)	NODENNNN AUTH SUBSCAN PAIR
1476	(5C4)	ADDRESS	4	MCTNAUTU	"V(USERNAUT)" User table
1480	(5C8)	ADDRESS	4	MCTNAUTH	"V(HASPNAUT)" HASP table
1484	(5CC)	ADDRESS	4	MCTNAUTD	Dynamic table array
1488	(5D0)	ADDRESS	4	MCTNETTP(0)	NETACCT PARM-STMT SUBSCAN
1488	(5D0)	ADDRESS	4	MCTNETTU	"V(USERNETT)" User table
1492	(5D4)	ADDRESS	4	MCTNETTH	"V(HASPNETT)" HASP table
1496	(5D8)	ADDRESS	4	MCTNETTD	Dynamic table array
1500	(5DC)	ADDRESS	4	MCTOJMTP(0)	OFFN.JR MOD= PARM SUBSCAN PAIR
1500	(5DC)	ADDRESS	4	MCTOJMTU	"V(USEROJMT)" User table
1504	(5E0)	ADDRESS	4	MCTOJMTH	"V(HASPOJMT)" HASP table
1508	(5E4)	ADDRESS	4	MCTOJMTD	Dynamic table array
1512	(5E8)	ADDRESS	4	MCTOSMTP(0)	OFFN.SR MOD= PARM SUBSCAN PAIR
1512	(5E8)	ADDRESS	4	MCTOSMTU	"V(USEROSMT)" User table
1516	(5EC)	ADDRESS	4	MCTOSMTH	"V(HASPOSMT)" HASP table
1520	(5F0)	ADDRESS	4	MCTOSMTD	Dynamic table array
1524	(5F4)	ADDRESS	4	MCTOPDTP(0)	OPTSDEF PARM-STMT SUBSCAN PAIR
1524	(5F4)	ADDRESS	4	MCTOPDTU	"V(USEROPDT)" User table
1528	(5F8)	ADDRESS	4	MCTOPDTH	"V(HASPOPDT)" HASP table
1532	(5FC)	ADDRESS	4	MCTOPDTD	Dynamic table array
1536	(600)	ADDRESS	4	MCTOUTTP(0)	OUTDEF PARM-STMT SUBSCAN PAIR
1536	(600)	ADDRESS	4	MCTOUTTU	"V(USEROUTT)" User table
1540	(604)	ADDRESS	4	MCTOUTTH	"V(HASPOUTT)" HASP table
1544	(608)	ADDRESS	4	MCTOUTTD	Dynamic table array
1548	(60C)	ADDRESS	4	MCTOPYTP(0)	OUTPRTY PARM-STMT SUBSCAN PAIR
1548	(60C)	ADDRESS	4	MCTOPYTU	"V(USEROPYT)" User table
1552	(610)	ADDRESS	4	MCTOPYTH	"V(HASPOPYT)" HASP table
1556	(614)	ADDRESS	4	MCTOPYTD	Dynamic table array
1560	(618)	ADDRESS	4	MCTOTPTP(0)	OUTPUT display subscan pair
1560	(618)	ADDRESS	4	MCTOTPTU	"V(USEROTPT)" User table
1564	(61C)	ADDRESS	4	MCTOTPTH	"V(HASPOTPT)" HASP table
1568	(620)	ADDRESS	4	MCTOTPTD	Dynamic table array
1572	(624)	ADDRESS	4	MCTLOTTP(0)	OUTPUT PARM-STMT PAIR ($LJ)
1572	(624)	ADDRESS	4	MCTLOTTU	"V(USERLOTT)" User table
1576	(628)	ADDRESS	4	MCTLOTTH	"V(HASPLOTT)" HASP table
1580	(62C)	ADDRESS	4	MCTLOTTD	Dynamic table array
1584	(630)	ADDRESS	4	MCTPTHTP(0)	Path parm-stmt subscan pair
1584	(630)	ADDRESS	4	MCTPTHTU	"V(USERPTHT)" User table
1588	(634)	ADDRESS	4	MCTPTHTH	"V(HASPPTHT)" HASP table
1592	(638)	ADDRESS	4	MCTPTHTD	Dynamic table array
1596	(63C)	ADDRESS	4	MCTPCCTP(0)	PCE parm-stmt subscan pair
1596	(63C)	ADDRESS	4	MCTPCCTU	"V(USERPCCT)" User table

Table 274. Structure MCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1600	(640)	ADDRESS	4	MCTPCCTH	"V(HASPPCCT)" HASP table
1604	(644)	ADDRESS	4	MCTPCCTD	Dynamic table array
1608	(648)	ADDRESS	4	MCTPCNTP(0)	PCE COUNT parm subscan pair
1608	(648)	ADDRESS	4	MCTPCNTU	"V(USERPCNT)" User table
1612	(64C)	ADDRESS	4	MCTPCNTH	"V(HASPPCNT)" HASP table
1616	(650)	ADDRESS	4	MCTPCNTD	Dynamic table array
1620	(654)	ADDRESS	4	MCTPDTTP(0)	PCE DETAILS parm subscan pair
1620	(654)	ADDRESS	4	MCTPDTTU	"V(USERPDTT)" User table
1624	(658)	ADDRESS	4	MCTPDTTH	"V(HASPPDTT)" HASP table
1628	(65C)	ADDRESS	4	MCTPDTTD	Dynamic table array
1632	(660)	ADDRESS	4	MCTPCDTP(0)	PCEDEF PARM-STMT SUBSCAN PAIR
1632	(660)	ADDRESS	4	MCTPCDTU	"V(USERPCDT)" User table
1636	(664)	ADDRESS	4	MCTPCDTH	"V(HASPPCDT)" HASP table
1640	(668)	ADDRESS	4	MCTPCDTD	Dynamic table array
1644	(66C)	ADDRESS	4	MCTPTDTP(0)	PRINTDEF PARM-STMT SUBSCAN PAIR
1644	(66C)	ADDRESS	4	MCTPTDTU	"V(USERPTDT)" User table
1648	(670)	ADDRESS	4	MCTPTDTH	"V(HASPPTDT)" HASP table
1652	(674)	ADDRESS	4	MCTPTDTD	Dynamic table array
1656	(678)	ADDRESS	4	MCTPDDTP(0)	PROCLIB DD Parm-stmt subscan pair
1656	(678)	ADDRESS	4	MCTPDDTU	"V(USERPDDT)" User table
1660	(67C)	ADDRESS	4	MCTPDDTH	"V(HASPPDDT)" HASP table
1664	(680)	ADDRESS	4	MCTPDDTD	Dynamic table array
1668	(684)	ADDRESS	4	MCTPUDTP(0)	PUNCHDEF PARM-STMT SUBSCAN PAIR
1668	(684)	ADDRESS	4	MCTPUDTU	"V(USERPUDT)" User table
1672	(688)	ADDRESS	4	MCTPUDTH	"V(HASPPUDT)" HASP table
1676	(68C)	ADDRESS	4	MCTPUDTD	Dynamic table array
1680	(690)	ADDRESS	4	MCTIAUTP(0)	RDInn AUTH SUBSCAN PAIR
1680	(690)	ADDRESS	4	MCTIAUTU	"V(USERIAUT)" User table
1684	(694)	ADDRESS	4	MCTIAUTH	"V(HASPIAUT)" HASP table
1688	(698)	ADDRESS	4	MCTIAUTD	Dynamic table array
1692	(69C)	ADDRESS	4	MCTIJBTP(0)	RDInn JOB SCANTAB PAIR
1692	(69C)	ADDRESS	4	MCTIJBTU	"V(USERIJBT)" User table
1696	(6A0)	ADDRESS	4	MCTIJBTH	"V(HASPIJBT)" HASP table
1700	(6A4)	ADDRESS	4	MCTIJBTD	Dynamic table array
1704	(6A8)	ADDRESS	4	MCTIJSTP(0)	RDInn JOBSTAT SUBSCAN PAIR
1704	(6A8)	ADDRESS	4	MCTIJSTU	"V(USERIJST)" User table
1708	(6AC)	ADDRESS	4	MCTIJSTH	"V(HASPIJST)" HASP table
1712	(6B0)	ADDRESS	4	MCTIJSTD	Dynamic table array
1716	(6B4)	ADDRESS	4	MCTIOWTP(0)	RDInn OWNER SCANTAB PAIR
1716	(6B4)	ADDRESS	4	MCTIOWTU	"V(USERIOWT)" User table
1720	(6B8)	ADDRESS	4	MCTIOWTH	"V(HASPIOWT)" HASP table
1724	(6BC)	ADDRESS	4	MCTIOWTD	Dynamic table array
1728	(6C0)	ADDRESS	4	MCTRAUTP(0)	RDRnn AUTH SUBSCAN PAIR
1728	(6C0)	ADDRESS	4	MCTRAUTU	"V(USERRAUT)" User table
1732	(6C4)	ADDRESS	4	MCTRAUTH	"V(HASPRAUT)" HASP table
1736	(6C8)	ADDRESS	4	MCTRAUTD	Dynamic table array
1740	(6CC)	ADDRESS	4	MCTREDTP(0)	REDIR PARM-STMT SUBSCAN PR
1740	(6CC)	ADDRESS	4	MCTREDTU	"V(USERREDT)" User table
1744	(6D0)	ADDRESS	4	MCTREDTH	"V(HASPREDT)" HASP table
1748	(6D4)	ADDRESS	4	MCTREDTD	Dynamic table array
1752	(6D8)	ADDRESS	4	MCTRCVTP(0)	RECVOPTS PARM-STMT SUBSCAN

Table 274. Structure MCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1752	(6D8)	ADDRESS	4	MCTRCVTU	"V(USERRCVT)" User table
1756	(6DC)	ADDRESS	4	MCTRCVTH	"V(HASPRCVT)" HASP table
1760	(6E0)	ADDRESS	4	MCTRCVTD	Dynamic table array
1764	(6E4)	ADDRESS	4	MCTRMTTP(0)	RMTNNNN PARM-STMT SUBSCAN
1764	(6E4)	ADDRESS	4	MCTRMTTU	"V(USERRMTT)" User table
1768	(6E8)	ADDRESS	4	MCTRMTTH	"V(HASPRMTT)" HASP table
1772	(6EC)	ADDRESS	4	MCTRMTTD	Dynamic table array
1776	(6F0)	ADDRESS	4	MCTSCTTP(0)	OUTCLASS PARM-STMT SUBSCAN PAIR
1776	(6F0)	ADDRESS	4	MCTSCTTU	"V(USERSCTT)" User table
1780	(6F4)	ADDRESS	4	MCTSCTTH	"V(HASPSCTT)" HASP table
1784	(6F8)	ADDRESS	4	MCTSCTTD	Dynamic table array
1788	(6FC)	ADDRESS	4	MCTSMFTP(0)	SMFDEF PARM-STMT SUBSCAN PAIR
1788	(6FC)	ADDRESS	4	MCTSMFTU	"V(USERSMFT)" User table
1792	(700)	ADDRESS	4	MCTSMFTH	"V(HASPSMFT)" HASP table
1796	(704)	ADDRESS	4	MCTSMFTD	Dynamic table array
1800	(708)	ADDRESS	4	MCTSPLTP(0)	SPOOL PARM-STMT PAIR
1800	(708)	ADDRESS	4	MCTSPLTU	"V(USERSPLT)" User table
1804	(70C)	ADDRESS	4	MCTSPLTH	"V(HASPSPLT)" HASP table
1808	(710)	ADDRESS	4	MCTSPLTD	Dynamic table array
1812	(714)	ADDRESS	4	MCTSPDTP(0)	SPOOLDEF PARM-STMT SUBSCAN PAIR
1812	(714)	ADDRESS	4	MCTSPDTU	"V(USERSPDT)" User table
1816	(718)	ADDRESS	4	MCTSPDTH	"V(HASPSPDT)" HASP table
1820	(71C)	ADDRESS	4	MCTSPDTD	Dynamic table array
1824	(720)	ADDRESS	4	MCTFENTP(0)	SPOOLDEF FENCE=subscan
1824	(720)	ADDRESS	4	MCTFENTU	"V(USERFENT)" User table
1828	(724)	ADDRESS	4	MCTFENTH	"V(HASPFENT)" HASP table
1832	(728)	ADDRESS	4	MCTFENTD	Dynamic table array
1836	(72C)	ADDRESS	4	MCTTGSTP(0)	SPOOLDEF TGSPACE=subscan
1836	(72C)	ADDRESS	4	MCTTGSTU	"V(USERTGST)" User table
1840	(730)	ADDRESS	4	MCTTGSTH	"V(HASPTGST)" HASP table
1844	(734)	ADDRESS	4	MCTTGSTD	Dynamic table array
1848	(738)	ADDRESS	4	MCTWSCTP(0)	SERVICE Class Parms-statements subscan
1848	(738)	ADDRESS	4	MCTWSCTU	"V(USERWSCT)" User table
1852	(73C)	ADDRESS	4	MCTWSCTH	"V(HASPWSCT)" HASP table
1856	(740)	ADDRESS	4	MCTWSCTD	Dynamic table array
1860	(744)	ADDRESS	4	MCTWCTTP(0)	SERVICE class COUNT= SUBSCAN
1860	(744)	ADDRESS	4	MCTWCTTU	"V(USERWCTT)" User table
1864	(748)	ADDRESS	4	MCTWCTTH	"V(HASPWCTT)" HASP table
1868	(74C)	ADDRESS	4	MCTWCTTD	Dynamic table array
1872	(750)	ADDRESS	4	MCTWMCTP(0)	SERVICE class MASCOUNT= SUBSCAN
1872	(750)	ADDRESS	4	MCTWMCTU	"V(USERWMCT)" User table
1876	(754)	ADDRESS	4	MCTWMCTH	"V(HASPWMCT)" HASP table
1880	(758)	ADDRESS	4	MCTWMCTD	Dynamic table array
1884	(75C)	ADDRESS	4	MCTSBDTP(0)	SUBTDEF STMT SUBSCAN PAIR
1884	(75C)	ADDRESS	4	MCTSBDTU	"V(USERSBDT)" User table
1888	(760)	ADDRESS	4	MCTSBDTH	"V(HASPSBDT)" HASP table
1892	(764)	ADDRESS	4	MCTSBDTD	Dynamic table array
1896	(768)	ADDRESS	4	MCTTPDTP(0)	TPDEF PARM-STMT SUBSCAN PAIR
1896	(768)	ADDRESS	4	MCTTPDTU	"V(USERTPDT)" User table
1900	(76C)	ADDRESS	4	MCTTPDTH	"V(HASPTPDT)" HASP table
1904	(770)	ADDRESS	4	MCTTPDTD	Dynamic table array

Table 274. Structure MCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1908	(774)	ADDRESS	4	MCTTRCTP(0)	TRACEDEF PARM-STMT SUBSCAN PAIR
1908	(774)	ADDRESS	4	MCTTRCTU	"V(USERTRCT)" User table
1912	(778)	ADDRESS	4	MCTTRCTH	"V(HASPTRCT)" HASP table
1916	(77C)	ADDRESS	4	MCTTRCTD	Dynamic table array
1920	(780)	ADDRESS	4	MCTTRITP(0)	TRACE(N) PARM-STMT SUBSCAN PR
1920	(780)	ADDRESS	4	MCTTRITU	"V(USERTRIT)" User table
1924	(784)	ADDRESS	4	MCTTRITH	"V(HASPTRIT)" HASP table
1928	(788)	ADDRESS	4	MCTTRITD	Dynamic table array
1932	(78C)	ADDRESS	4	MCTSTATP(0)	TRACE STAT PARM-STMT SUBSCAN PR
1932	(78C)	ADDRESS	4	MCTSTATU	"V(USERSTAT)" User table
1936	(790)	ADDRESS	4	MCTSTATH	"V(HASPSTAT)" HASP table
1940	(794)	ADDRESS	4	MCTSTATD	Dynamic table array
1944	(798)	ADDRESS	4	MCTTLGTP(0)	TRC LOG PARM-STMT SUBSCAN PAIR
1944	(798)	ADDRESS	4	MCTTLGTU	"V(USERTLGT)" User table
1948	(79C)	ADDRESS	4	MCTTLGTH	"V(HASPTLGT)" HASP table
1952	(7A0)	ADDRESS	4	MCTTLGTD	Dynamic table array
1956	(7A4)	ADDRESS	4	MCTSSITP(0)	SSI PARM-STMT SUBSCAN PAIR
1956	(7A4)	ADDRESS	4	MCTSSITU	"V(USERSSIT)" User table
1960	(7A8)	ADDRESS	4	MCTSSITH	"V(HASPSSIT)" HASP table
1964	(7AC)	ADDRESS	4	MCTSSITD	Dynamic table array
1968	(7B0)	ADDRESS	4	MCTSEPTP(0)	SEPPAGE PARM-STMT SUBSCN PR
1968	(7B0)	ADDRESS	4	MCTSEPTU	"V(USERSEPT)" User table
1972	(7B4)	ADDRESS	4	MCTSEPTH	"V(HASPSEPT)" HASP table
1976	(7B8)	ADDRESS	4	MCTSEPTD	Dynamic table array
1980	(7BC)	ADDRESS	4	MCTVIATP(0)	Path parm-stmt VIA subparm
1980	(7BC)	ADDRESS	4	MCTVIATU	"V(USERVIAT)" User table
1984	(7C0)	ADDRESS	4	MCTVIATH	"V(HASPVIAT)" HASP table
1988	(7C4)	ADDRESS	4	MCTVIATD	Dynamic table array
1992	(7C8)	ADDRESS	4	MCTVUNTP(0)	SPOOL UNITDATA= subparm
1992	(7C8)	ADDRESS	4	MCTVUNTU	"V(USERVUNT)" User table
1996	(7CC)	ADDRESS	4	MCTVUNTH	"V(HASPVUNT)" HASP table
2000	(7D0)	ADDRESS	4	MCTVUNTD	Dynamic table array
2004	(7D4)	ADDRESS	4	MCTZJBTP(0)	ZAPJOB SUBSCAN pair
2004	(7D4)	ADDRESS	4	MCTZJBTU	"V(USERZJBT)" User table
2008	(7D8)	ADDRESS	4	MCTZJBTH	"V(HASPZJBT)" HASP table
2012	(7DC)	ADDRESS	4	MCTZJBTD	Dynamic table array
2016	(7E0)	ADDRESS	4	MCT4KPTP(0)	CKPTSPACE 4K_RECS subparm
2016	(7E0)	ADDRESS	4	MCT4KPTU	"V(USER4KPT)" User table
2020	(7E4)	ADDRESS	4	MCT4KPTH	"V(HASP4KPT)" HASP table
2024	(7E8)	ADDRESS	4	MCT4KPTD	Dynamic table array
2028	(7EC)	ADDRESS	4	MCTPRFTP(0)	PRTnn FSSINFO subparm
2028	(7EC)	ADDRESS	4	MCTPRFTU	"V(USERPRFT)" User table
2032	(7F0)	ADDRESS	4	MCTPRFTH	"V(HASPPRFT)" HASP table
2036	(7F4)	ADDRESS	4	MCTPRFTD	Dynamic table array
2040	(7F8)	ADDRESS	4	MCTLRPTP(0)	$L JOBQ RECORDS/PAGES subparms
2040	(7F8)	ADDRESS	4	MCTLRPTU	"V(USERLRPT)" User table
2044	(7FC)	ADDRESS	4	MCTLRPTH	"V(HASPLRPT)" HASP table
2048	(800)	ADDRESS	4	MCTLRPTD	Dynamic table array
2052	(804)	ADDRESS	4	MCTGSUTP(0)	Gnnn SUMMARY SUBSCAN PAIR
2052	(804)	ADDRESS	4	MCTGSUTU	"V(USERGSUT)" User table
2056	(808)	ADDRESS	4	MCTGSUTH	"V(HASPGSUT)" HASP table
2060	(80C)	ADDRESS	4	MCTGSUTD	Dynamic table array

Table 274. Structure MCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2064	(810)	ADDRESS	4	(3)	Reserved for future use
2076	(81C)	ADDRESS	4	(3)	Reserved for future use
	WORK SELECTION USER AND HASP TABLES				
2088	(828)	ADDRESS	4	MCTPRWTP(0)	PRINTER WS TABLE ADDR PAIR
2088	(828)	ADDRESS	4	MCTPRWTU	"V(USERPRWT)" User table
2092	(82C)	ADDRESS	4	MCTPRWTH	"V(HASPPRWT)" HASP table
2096	(830)	ADDRESS	4	MCTPRWTD	Dynamic table array
2100	(834)	ADDRESS	4	MCTPUWTP(0)	PUNCH WS TABLE ADDR PAIR
2100	(834)	ADDRESS	4	MCTPUWTU	"V(USERPUWT)" User table
2104	(838)	ADDRESS	4	MCTPUWTH	"V(HASPPUWT)" HASP table
2108	(83C)	ADDRESS	4	MCTPUWTD	Dynamic table array
2112	(840)	ADDRESS	4	MCTJTWTP(0)	OFFJT WS TABLE ADDR PAIR
2112	(840)	ADDRESS	4	MCTJTWTU	"V(USERJTWT)" User table
2116	(844)	ADDRESS	4	MCTJTWTH	"V(HASPJTWT)" HASP table
2120	(848)	ADDRESS	4	MCTJTWTD	Dynamic table array
2124	(84C)	ADDRESS	4	MCTJRWTP(0)	OFFJR WS TABLE ADDR PAIR
2124	(84C)	ADDRESS	4	MCTJRWTU	"V(USERJRWT)" User table
2128	(850)	ADDRESS	4	MCTJRWTH	"V(HASPJRWT)" HASP table
2132	(854)	ADDRESS	4	MCTJRWTD	Dynamic table array
2136	(858)	ADDRESS	4	MCTSTWTP(0)	OFFST WS TABLE ADDR PAIR
2136	(858)	ADDRESS	4	MCTSTWTU	"V(USERSTWT)" User table
2140	(85C)	ADDRESS	4	MCTSTWTH	"V(HASPSTWT)" HASP table
2144	(860)	ADDRESS	4	MCTSTWTD	Dynamic table array
2148	(864)	ADDRESS	4	MCTSRWTP(0)	OFFSR WS TABLE ADDR PAIR
2148	(864)	ADDRESS	4	MCTSRWTU	"V(USERSRWT)" User table
2152	(868)	ADDRESS	4	MCTSRWTH	"V(HASPSRWT)" HASP table
2156	(86C)	ADDRESS	4	MCTSRWTD	Dynamic table array
2160	(870)	ADDRESS	4	MCTLJWTP(0)	Lx.JT WS table ADDR PAIR
2160	(870)	ADDRESS	4	MCTLJWTU	"V(USERLJWT)" User table
2164	(874)	ADDRESS	4	MCTLJWTH	"V(HASPLJWT)" HASP table
2168	(878)	ADDRESS	4	MCTLJWTD	Dynamic table array
2172	(87C)	ADDRESS	4	MCTLSWTP(0)	Lx.ST WS table ADDR PAIR
2172	(87C)	ADDRESS	4	MCTLSWTU	"V(USERLSWT)" User table
2176	(880)	ADDRESS	4	MCTLSWTH	"V(HASPLSWT)" HASP table
2180	(884)	ADDRESS	4	MCTLSWTD	Dynamic table array
2184	(888)	ADDRESS	4	MCTSAWTP(0)	Sysout API table Addr Pair
2184	(888)	ADDRESS	4	MCTSAWTU	"V(USERSAWT)" User table
2188	(88C)	ADDRESS	4	MCTSAWTH	"V(HASPSAWT)" HASP table
2192	(890)	ADDRESS	4	MCTSAWTD	Dynamic table array
2196	(894)	ADDRESS	4	(3)	Reserved for future use
2208	(8A0)	ADDRESS	4	MCTSWCTP(0)	SAPI cache attributes table
2208	(8A0)	ADDRESS	4	MCTSWCTU	"V(USERSWCT)" User table
2212	(8A4)	ADDRESS	4	MCTSWCTH	"V(HASPSWCT)" HASP table
2216	(8A8)	ADDRESS	4	MCTSWCTD	Dynamic table array
2220	(8AC)	ADDRESS	4	MCTLWCTP(0)	Local cache attributes table
2220	(8AC)	ADDRESS	4	MCTLWCTU	"V(USERLWCT)" User table
2224	(8B0)	ADDRESS	4	MCTLWCTH	"V(HASPLWCT)" HASP table
2228	(8B4)	ADDRESS	4	MCTLWCTD	Dynamic table array
2232	(8B8)	ADDRESS	4	MCTJFATP(0)	JOE field access table
2232	(8B8)	ADDRESS	4	MCTJFATU	"V(USERJFAT)" User table
2236	(8BC)	ADDRESS	4	MCTJFATH	"V(HASPJFAT)" HASP table

Table 274. Structure MCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2240	(8C0)	ADDRESS	4	MCTJFATD	Dynamic table array
2244	(8C4)	ADDRESS	4	MCTJVDTP(0)	JOE view definition table
2244	(8C4)	ADDRESS	4	MCTJVDTU	"V(USERJVDT)" User table
2248	(8C8)	ADDRESS	4	MCTJVDTH	"V(HASPJVDT)" HASP table
2252	(8CC)	ADDRESS	4	MCTJVDTD	Dynamic table array
	MISCELLANEOUS SECTION FOR USER TABLE POINTERS				
2256	(8D0)	ADDRESS	4	MCTERRTP(0)	USER ERROR TEXT TABLE
2256	(8D0)	ADDRESS	4	MCTERRTU	"V(USERERRT)" User table
2260	(8D4)	ADDRESS	4		HASP table
2264	(8D8)	ADDRESS	4	MCTERRTD	Dynamic table array
2264	(8D8)	X'8DC'	0	MCTLEN	"*-MCT" LENGTH OF THE MCT

Table 275. Cross Reference for $MCT

Name	Offset	Hex Tag
MCT	0	
MCTACTTD	2CC	
MCTACTTH	2C8	
MCTACTTP	2C4	
MCTACTTU	2C4	
MCTADRTH	1EC	
MCTADRTP	1EC	
MCTAPCTH	294	
MCTAPCTP	294	
MCTAPLTD	2D8	
MCTAPLTH	2D4	
MCTAPLTP	2D0	
MCTAPLTU	2D0	
MCTAUTTH	1F4	
MCTAUTTP	1F4	
MCTBADTD	2E4	
MCTBADTH	2E0	
MCTBADTP	2DC	
MCTBADTU	2DC	
MCTBFHTD	2FC	
MCTBFHTH	2F8	
MCTBFHTP	2F4	
MCTBFHTU	2F4	
MCTBFXTD	308	
MCTBFXTH	304	
MCTBFXTP	300	
MCTBFXTU	300	
MCTBRTTD	50	
MCTBRTTH	4C	
MCTBRTTP	48	
MCTBRTTU	48	
MCTBSCTD	314	
MCTBSCTH	310	

Table 275. Cross Reference for $MCT (continued)

Name	Offset	Hex Tag
MCTBSCTP	30C	
MCTBSCTU	30C	
MCTBUFTD	2F0	
MCTBUFTH	2EC	
MCTBUFTP	2E8	
MCTBUFTU	2E8	
MCTCATTD	350	
MCTCATTH	34C	
MCTCATTP	348	
MCTCATTU	348	
MCTCFSTH	2AC	
MCTCFSTP	2AC	
MCTCHRTH	1FC	
MCTCHRTP	1FC	
MCTCKLTD	374	
MCTCKLTH	370	
MCTCKLTP	36C	
MCTCKLTU	36C	
MCTCKSTH	2A8	
MCTCKSTP	2A8	
MCTCKTTD	368	
MCTCKTTH	364	
MCTCKTTP	360	
MCTCKTTU	360	
MCTCLGTD	3BC	
MCTCLGTH	3B8	
MCTCLGTP	3B4	
MCTCLGTU	3B4	
MCTCNDTD	3C8	
MCTCNDTH	3C4	
MCTCNDTP	3C0	
MCTCNDTU	3C0	
MCTCOMTD	3D4	
MCTCOMTH	3D0	
MCTCOMTP	3CC	
MCTCOMTU	3CC	
MCTCONTD	3E0	
MCTCONTH	3DC	
MCTCONTP	3D8	
MCTCONTU	3D8	
MCTDBGTD	3EC	
MCTDBGTH	3E8	
MCTDBGTP	3E4	
MCTDBGTU	3E4	
MCTDCTTD	14	
MCTDCTTH	10	
MCTDCTTP	C	
MCTDCTTU	C	
MCTDESTD	3F8	

Table 275. Cross Reference for $MCT (continued)

Name	Offset	Hex Tag
MCTDESTH	3F4	
MCTDESTP	3F0	
MCTDESTU	3F0	
MCTDRMTH	20C	
MCTDRMTP	20C	
MCTDSTTD	404	
MCTDSTTH	400	
MCTDSTTP	3FC	
MCTDSTTU	3FC	
MCTDTETD	20	
MCTDTETH	1C	
MCTDTETP	18	
MCTDTETU	18	
MCTDUPTD	410	
MCTDUPTH	40C	
MCTDUPTP	408	
MCTDUPTU	408	
MCTDVRTH	284	
MCTDVRTP	284	
MCTEBYTD	428	
MCTEBYTH	424	
MCTEBYTP	420	
MCTEBYTU	420	
MCTEKNTD	398	
MCTEKNTH	394	
MCTEKNTP	390	
MCTEKNTU	390	
MCTELCTD	41C	
MCTELCTH	418	
MCTELCTP	414	
MCTELCTU	414	
MCTEPGTD	434	
MCTEPGTH	430	
MCTEPGTP	42C	
MCTEPGTU	42C	
MCTEPNTD	440	
MCTEPNTH	43C	
MCTEPNTP	438	
MCTEPNTU	438	
MCTERRTD	8D8	
MCTERRTP	8D0	
MCTERRTU	8D0	
MCTETMTD	44C	
MCTETMTH	448	
MCTETMTP	444	
MCTETMTU	444	
MCTFENTD	728	
MCTFENTH	724	
MCTFENTP	720	

Table 275. Cross Reference for $MCT (continued)

Name	Offset	Hex Tag
MCTFENTU	720	
MCTFRMTH	224	
MCTFRMTP	224	
MCTFSSTD	470	
MCTFSSTH	46C	
MCTFSSTP	468	
MCTFSSTU	468	
MCTGRPTD	4B8	
MCTGRPTH	4B4	
MCTGRPTP	4B0	
MCTGRPTU	4B0	
MCTGSUTD	80C	
MCTGSUTH	808	
MCTGSUTP	804	
MCTGSUTU	804	
MCTHDRTD	488	
MCTHDRTH	484	
MCTHDRTP	480	
MCTHDRTU	480	
MCTIAUTD	698	
MCTIAUTH	694	
MCTIAUTP	690	
MCTIAUTU	690	
MCTIINTD	4A0	
MCTIINTH	49C	
MCTIINTP	498	
MCTIINTU	498	
MCTIJBTD	6A4	
MCTIJBTH	6A0	
MCTIJBTP	69C	
MCTIJBTU	69C	
MCTIJSTD	6B0	
MCTIJSTH	6AC	
MCTIJSTP	6A8	
MCTIJSTU	6A8	
MCTINCTD	47C	
MCTINCTH	478	
MCTINCTP	474	
MCTINCTU	474	
MCTINPTD	4C4	
MCTINPTH	4C0	
MCTINPTP	4BC	
MCTINPTU	4BC	
MCTINRTD	80	
MCTINRTH	7C	
MCTINRTP	78	
MCTINRTU	78	
MCTIOWTD	6BC	
MCTIOWTH	6B8	

Table 275. Cross Reference for $MCT (continued)

Name	Offset	Hex Tag
MCTIOWTP	6B4	
MCTIOWTU	6B4	
MCTJCCTD	344	
MCTJCCTH	340	
MCTJCCTP	33C	
MCTJCCTU	33C	
MCTJCXTD	338	
MCTJCXTH	334	
MCTJCXTP	330	
MCTJCXTU	330	
MCTJECTD	4D0	
MCTJECTH	4CC	
MCTJECTP	4C8	
MCTJECTU	4C8	
MCTJFATD	8C0	
MCTJFATH	8BC	
MCTJFATP	8B8	
MCTJFATU	8B8	
MCTJFETD	53C	
MCTJFETH	538	
MCTJFETP	534	
MCTJFETU	534	
MCTJFLTD	530	
MCTJFLTH	52C	
MCTJFLTP	528	
MCTJFLTU	528	
MCTJOBTD	4F4	
MCTJOBTH	4F0	
MCTJOBTP	4EC	
MCTJOBTU	4EC	
MCTJOFTD	518	
MCTJOFTH	514	
MCTJOFTP	510	
MCTJOFTU	510	
MCTJPYTD	548	
MCTJPYTH	544	
MCTJPYTP	540	
MCTJPYTU	540	
MCTJQETD	500	
MCTJQETH	4FC	
MCTJQETP	4F8	
MCTJQETU	4F8	
MCTJRNTH	204	
MCTJRNTP	204	
MCTJRWTD	854	
MCTJRWTH	850	
MCTJRWTP	84C	
MCTJRWTU	84C	
MCTJSPTD	50C	

Table 275. Cross Reference for $MCT (continued)

Name	Offset	Hex Tag
MCTJSPTH	508	
MCTJSPTP	504	
MCTJSPTU	504	
MCTJTWTD	848	
MCTJTWTH	844	
MCTJTWTP	840	
MCTJTWTU	840	
MCTJVDTD	8CC	
MCTJVDTH	8C8	
MCTJVDTP	8C4	
MCTJVDTU	8C4	
MCTJ2CTD	4DC	
MCTJ2CTH	4D8	
MCTJ2CTP	4D4	
MCTJ2CTU	4D4	
MCTJ3CTD	4E8	
MCTJ3CTH	4E4	
MCTJ3CTP	4E0	
MCTJ3CTU	4E0	
MCTKPNTD	38C	
MCTKPNTH	388	
MCTKPNTP	384	
MCTKPNTU	384	
MCTLEN	8D8	8DC
MCTLIMTH	22C	
MCTLIMTP	22C	
MCTLINTD	A4	
MCTLINTH	A0	
MCTLINTP	9C	
MCTLINTU	9C	
MCTLJRTD	B0	
MCTLJRTH	AC	
MCTLJRTP	A8	
MCTLJRTU	A8	
MCTLJTTD	BC	
MCTLJTTH	B8	
MCTLJTTP	B4	
MCTLJTTU	B4	
MCTLJWTD	878	
MCTLJWTH	874	
MCTLJWTP	870	
MCTLJWTU	870	
MCTLNCTH	288	
MCTLNCTP	288	
MCTLNETD	8C	
MCTLNETH	88	
MCTLNETP	84	
MCTLNETU	84	
MCTLODTD	554	

Table 275. Cross Reference for $MCT (continued)

Name	Offset	Hex Tag
MCTLODTH	550	
MCTLODTP	54C	
MCTLODTU	54C	
MCTLOGTD	E0	
MCTLOGTH	DC	
MCTLOGTP	D8	
MCTLOGTU	D8	
MCTLOTTD	62C	
MCTLOTTH	628	
MCTLOTTP	624	
MCTLOTTU	624	
MCTLRPTD	800	
MCTLRPTH	7FC	
MCTLRPTP	7F8	
MCTLRPTU	7F8	
MCTLSRTD	C8	
MCTLSRTH	C4	
MCTLSRTP	C0	
MCTLSRTU	C0	
MCTLSTTD	D4	
MCTLSTTH	D0	
MCTLSTTP	CC	
MCTLSTTU	CC	
MCTLSWTD	884	
MCTLSWTH	880	
MCTLSWTP	87C	
MCTLSWTU	87C	
MCTLTRTD	98	
MCTLTRTH	94	
MCTLTRTP	90	
MCTLTRTU	90	
MCTLWCTD	8B4	
MCTLWCTH	8B0	
MCTLWCTP	8AC	
MCTLWCTU	8AC	
MCTMASTD	560	
MCTMASTH	55C	
MCTMASTP	558	
MCTMASTU	558	
MCTMEMTD	56C	
MCTMEMTH	568	
MCTMEMTP	564	
MCTMEMTU	564	
MCTMGTD	74	
MCTMGTH	70	
MCTMGTP	6C	
MCTMGTU	6C	
MCTMIGTD	584	
MCTMIGTH	580	

Table 275. Cross Reference for $MCT (continued)

Name	Offset	Hex Tag
MCTMIGTP	57C	
MCTMIGTU	57C	
MCTMJFTD	524	
MCTMJFTH	520	
MCTMJFTP	51C	
MCTMJFTU	51C	
MCTMODTH	58C	
MCTMODTP	588	
MCTMPSTD	68	
MCTMPSTH	64	
MCTMPSTP	60	
MCTMPSTU	60	
MCTMSGTH	1F8	
MCTMSGTP	1F8	
MCTMSMTH	230	
MCTMSMTP	230	
MCTNAUTD	5CC	
MCTNAUTH	5C8	
MCTNAUTP	5C4	
MCTNAUTU	5C4	
MCTNDPTD	5C0	
MCTNDPTH	5BC	
MCTNDPTP	5B8	
MCTNDPTU	5B8	
MCTNETTD	5D8	
MCTNETTH	5D4	
MCTNETTP	5D0	
MCTNETTU	5D0	
MCTNJCTH	298	
MCTNJCTP	298	
MCTNJETD	59C	
MCTNJETH	598	
MCTNJETP	594	
MCTNJETU	594	
MCTNOCTH	29C	
MCTNOCTP	29C	
MCTNODTD	5B4	
MCTNODTH	5B0	
MCTNODTP	5AC	
MCTNODTU	5AC	
MCTNSVTD	1C4	
MCTNSVTH	1C0	
MCTNSVTP	1BC	
MCTNSVTU	1BC	
MCTNTRTD	1D0	
MCTNTRTH	1CC	
MCTNTRTP	1C8	
MCTNTRTU	1C8	
MCTNWKTD	5A8	

Table 275. Cross Reference for $MCT (continued)

Name	Offset	Hex Tag
MCTNWKTH	5A4	
MCTNWKTP	5A0	
MCTNWKTU	5A0	
MCTOFCTH	2A4	
MCTOFCTP	2A4	
MCTOFFTD	F8	
MCTOFFTH	F4	
MCTOFFTP	F0	
MCTOFFTU	F0	
MCTOFLTD	EC	
MCTOFLTH	E8	
MCTOFLTP	E4	
MCTOFLTU	E4	
MCTOJMTD	5E4	
MCTOJMTH	5E0	
MCTOJMTP	5DC	
MCTOJMTU	5DC	
MCTOJRTD	104	
MCTOJRTH	100	
MCTOJRTP	FC	
MCTOJRTU	FC	
MCTOJTTD	110	
MCTOJTTH	10C	
MCTOJTTP	108	
MCTOJTTU	108	
MCTOPDTD	5FC	
MCTOPDTH	5F8	
MCTOPDTP	5F4	
MCTOPDTU	5F4	
MCTOPTTD	5C	
MCTOPTTH	58	
MCTOPTTP	54	
MCTOPTTU	54	
MCTOPYTD	614	
MCTOPYTH	610	
MCTOPYTP	60C	
MCTOPYTU	60C	
MCTOSMTD	5F0	
MCTOSMTH	5EC	
MCTOSMTP	5E8	
MCTOSMTU	5E8	
MCTOSRTD	11C	
MCTOSRTH	118	
MCTOSRTP	114	
MCTOSRTU	114	
MCTOSTTD	128	
MCTOSTTH	124	
MCTOSTTP	120	
MCTOSTTU	120	

Table 275. Cross Reference for $MCT (continued)

Name	Offset	Hex Tag
MCTOTPTD	620	
MCTOTPTH	61C	
MCTOTPTP	618	
MCTOTPTU	618	
MCTOUNTH	238	
MCTOUNTP	238	
MCTOUTTD	608	
MCTOUTTH	604	
MCTOUTTP	600	
MCTOUTTU	600	
MCTPARTD	494	
MCTPARTH	490	
MCTPARTP	48C	
MCTPARTU	48C	
MCTPCCTD	644	
MCTPCCTH	640	
MCTPCCTP	63C	
MCTPCCTU	63C	
MCTPCDTD	668	
MCTPCDTH	664	
MCTPCDTP	660	
MCTPCDTU	660	
MCTPCETD	8	
MCTPCETH	4	
MCTPCETP	0	
MCTPCETU	0	
MCTPCNTD	650	
MCTPCNTH	64C	
MCTPCNTP	648	
MCTPCNTU	648	
MCTPCRTD	44	
MCTPCRTH	40	
MCTPCRTP	3C	
MCTPCRTU	3C	
MCTPDDTD	680	
MCTPDDTH	67C	
MCTPDDTP	678	
MCTPDDTU	678	
MCTPDTTD	65C	
MCTPDTTH	658	
MCTPDTTP	654	
MCTPDTTU	654	
MCTPITTD	4AC	
MCTPITTH	4A8	
MCTPITTP	4A4	
MCTPITTU	4A4	
MCTPLMTH	234	
MCTPLMTP	234	
MCTPPRTH	228	

Table 275. Cross Reference for $MCT (continued)

Name	Offset	Hex Tag
MCTPPRTP	228	
MCTPRCTH	218	
MCTPRCTP	218	
MCTPRFTD	7F4	
MCTPRFTH	7F0	
MCTPRFTP	7EC	
MCTPRFTU	7EC	
MCTPRLTD	140	
MCTPRLTH	13C	
MCTPRLTP	138	
MCTPRLTU	138	
MCTPRTTD	134	
MCTPRTTH	130	
MCTPRTTP	12C	
MCTPRTTU	12C	
MCTPRWTD	830	
MCTPRWTH	82C	
MCTPRWTP	828	
MCTPRWTU	828	
MCTPTCTH	2A0	
MCTPTCTP	2A0	
MCTPTDTD	674	
MCTPTDTH	670	
MCTPTDTP	66C	
MCTPTDTU	66C	
MCTPTHTD	638	
MCTPTHTH	634	
MCTPTHTP	630	
MCTPTHTU	630	
MCTPUDTD	68C	
MCTPUDTH	688	
MCTPUDTP	684	
MCTPUDTU	684	
MCTPUNTD	14C	
MCTPUNTH	148	
MCTPUNTP	144	
MCTPUNTU	144	
MCTPUWTD	83C	
MCTPUWTH	838	
MCTPUWTP	834	
MCTPUWTU	834	
MCTP1CTH	2B0	
MCTP1CTP	2B0	
MCTRANTH	208	
MCTRANTP	208	
MCTRAUTD	6C8	
MCTRAUTH	6C4	
MCTRAUTP	6C0	
MCTRAUTU	6C0	

Table 275. Cross Reference for $MCT (continued)

Name	Offset	Hex Tag
MCTRCNTD	1AC	
MCTRCNTH	1A8	
MCTRCNTP	1A4	
MCTRCNTU	1A4	
MCTRCVTD	6E0	
MCTRCVTH	6DC	
MCTRCVTP	6D8	
MCTRCVTU	6D8	
MCTRDITD	158	
MCTRDITH	154	
MCTRDITP	150	
MCTRDITU	150	
MCTRDRTD	164	
MCTRDRTH	160	
MCTRDRTP	15C	
MCTRDRTU	15C	
MCTRDTTD	2C	
MCTRDTTH	28	
MCTRDTTP	24	
MCTRDTTU	24	
MCTRDVTD	17C	
MCTRDVTH	178	
MCTRDVTP	174	
MCTRDVTU	174	
MCTREDTD	6D4	
MCTREDTH	6D0	
MCTREDTP	6CC	
MCTREDTU	6CC	
MCTRMTTD	6EC	
MCTRMTTH	6E8	
MCTRMTTP	6E4	
MCTRMTTU	6E4	
MCTRNGTH	210	
MCTRNGTP	210	
MCTRN2TH	214	
MCTRN2TP	214	
MCTRPRTD	188	
MCTRPRTH	184	
MCTRPRTP	180	
MCTRPRTU	180	
MCTRPUTD	194	
MCTRPUTH	190	
MCTRPUTP	18C	
MCTRPUTU	18C	
MCTRQJTD	170	
MCTRQJTH	16C	
MCTRQJTP	168	
MCTRQJTU	168	
MCTRRDTD	1A0	

Table 275. Cross Reference for $MCT (continued)

Name	Offset	Hex Tag
MCTRRDTH	19C	
MCTRRDTP	198	
MCTRRDTU	198	
MCTSAFTH	21C	
MCTSAFTP	21C	
MCTSAWTD	890	
MCTSAWTH	88C	
MCTSAWTP	888	
MCTSAWTU	888	
MCTSBDTD	764	
MCTSBDTH	760	
MCTSBDTP	75C	
MCTSBDTU	75C	
MCTSCTTD	6F8	
MCTSCTTH	6F4	
MCTSCTTP	6F0	
MCTSCTTU	6F0	
MCTSEPTD	7B8	
MCTSEPTH	7B4	
MCTSEPTP	7B0	
MCTSEPTU	7B0	
MCTSESTD	32C	
MCTSESTH	328	
MCTSESTP	324	
MCTSESTU	324	
MCTSKCTH	28C	
MCTSKCTP	28C	
MCTSMFTD	704	
MCTSMFTH	700	
MCTSMFTP	6FC	
MCTSMFTU	6FC	
MCTSNATD	320	
MCTSNATH	31C	
MCTSNATP	318	
MCTSNATU	318	
MCTSOKTD	1DC	
MCTSOKTH	1D8	
MCTSOKTP	1D4	
MCTSOKTU	1D4	
MCTSPCTD	380	
MCTSPCTH	37C	
MCTSPCTP	378	
MCTSPCTU	378	
MCTSPDTD	71C	
MCTSPDTH	718	
MCTSPDTP	714	
MCTSPDTU	714	
MCTSPLTD	710	
MCTSPLTH	70C	

Table 275. Cross Reference for $MCT (continued)

Name	Offset	Hex Tag
MCTSPLTP	708	
MCTSPLTU	708	
MCTSPSTH	290	
MCTSPSTP	290	
MCTSRWTD	86C	
MCTSRWTH	868	
MCTSRWTP	864	
MCTSRWTU	864	
MCTSSITD	7AC	
MCTSSITH	7A8	
MCTSSITP	7A4	
MCTSSITU	7A4	
MCTSTATD	794	
MCTSTATH	790	
MCTSTATP	78C	
MCTSTATU	78C	
MCTSTWTD	860	
MCTSTWTH	85C	
MCTSTWTP	858	
MCTSTWTU	858	
MCTSTYTD	578	
MCTSTYTH	574	
MCTSTYTP	570	
MCTSTYTU	570	
MCTSUBTD	1B8	
MCTSUBTH	1B4	
MCTSUBTP	1B0	
MCTSUBTU	1B0	
MCTSWCTD	8A8	
MCTSWCTH	8A4	
MCTSWCTP	8A0	
MCTSWCTU	8A0	
MCTTGSTD	734	
MCTTGSTH	730	
MCTTGSTP	72C	
MCTTGSTU	72C	
MCTTIDTD	38	
MCTTIDTH	34	
MCTTIDTP	30	
MCTTIDTU	30	
MCTTLGTD	7A0	
MCTTLGTH	79C	
MCTTLGTP	798	
MCTTLGTU	798	
MCTTPDTD	770	
MCTTPDTH	76C	
MCTTPDTP	768	
MCTTPDTU	768	
MCTTRCTD	77C	

Table 275. Cross Reference for $MCT (continued)

Name	Offset	Hex Tag
MCTTRCTH	778	
MCTTRCTP	774	
MCTTRCTU	774	
MCTTRITD	788	
MCTTRITH	784	
MCTTRITP	780	
MCTTRITU	780	
MCTVCATH	258	
MCTVCATP	258	
MCTVIATD	7C4	
MCTVIATH	7C0	
MCTVIATP	7BC	
MCTVIATU	7BC	
MCTVISTH	260	
MCTVISTP	260	
MCTVJABH	27C	
MCTVJABP	27C	
MCTVJCTH	264	
MCTVJCTP	264	
MCTVJOFH	26C	
MCTVJOFP	26C	
MCTVJSTH	268	
MCTVJSTP	268	
MCTVJVLH	278	
MCTVJVLP	278	
MCTVKPTD	3B0	
MCTVKPTH	3AC	
MCTVKPTP	3A8	
MCTVKPTU	3A8	
MCTVLTTD	3A4	
MCTVLTTH	3A0	
MCTVLTTP	39C	
MCTVLTTU	39C	
MCTVOJLH	280	
MCTVOJLP	280	
MCTVOJTH	244	
MCTVOJTP	244	
MCTVOLTH	220	
MCTVOLTP	220	
MCTVOSTH	240	
MCTVOSTP	240	
MCTVSFTH	250	
MCTVSFTP	250	
MCTVSOFH	270	
MCTVSOFP	270	
MCTVSRTH	248	
MCTVSRTP	248	
MCTVSSTH	25C	
MCTVSSTP	25C	

Table 275. Cross Reference for $MCT (continued)

Name	Offset	Hex Tag
MCTVSTTH	24C	
MCTVSTTP	24C	
MCTVTMTH	1F0	
MCTVTMTP	1F0	
MCTVUNTD	7D0	
MCTVUNTH	7CC	
MCTVUNTP	7C8	
MCTVUNTU	7C8	
MCTVVUDH	274	
MCTVVUDP	274	
MCTVWSAH	254	
MCTVWSAP	254	
MCTVWSTH	23C	
MCTVWSTP	23C	
MCTVXMTD	35C	
MCTVXMTH	358	
MCTVXMTP	354	
MCTVXMTU	354	
MCTWCTTD	74C	
MCTWCTTH	748	
MCTWCTTP	744	
MCTWCTTU	744	
MCTWMCTD	758	
MCTWMCTH	754	
MCTWMCTP	750	
MCTWMCTU	750	
MCTWSCTD	740	
MCTWSCTH	73C	
MCTWSCTP	738	
MCTWSCTU	738	
MCTXITTD	458	
MCTXITTH	454	
MCTXITTP	450	
MCTXITTU	450	
MCTXRLTD	464	
MCTXRLTH	460	
MCTXRLTP	45C	
MCTXRLTU	45C	
MCTXRTTH	200	
MCTXRTTP	200	
MCTZJBTD	7DC	
MCTZJBTH	7D8	
MCTZJBTP	7D4	
MCTZJBTU	7D4	
MCT4KPTD	7E8	
MCT4KPTH	7E4	
MCT4KPTP	7E0	
MCT4KPTU	7E0	

Chapter 126. $MIGROBJ Information

$MIGROBJ Heading Information

Common Name: Migration object
Macro ID: $MIGROBJ
DSECT Name: MIGROBJ
Owning Component: JES2 (SC1BH)
Eye-Catcher ID:
```
Volume serial
Offset:  MIGKEY-MIGROBJ
Length:  L'MIGKEY
```
Storage Attributes:
```
Subpool:   0
Key:       1
Residency: Virtual and real storage are in 31 bit storage in the
private storage of the JES2 address space.
```

Size: See MIGSIZ
Created by: $DOGDAS - create migration recovery object
Pointed to by: Pointer retuned by $DOGMIG service
Serialization: Update access is serialized by the BERT lock
Function:
```
The $MIGROBJ is stored in BERTs in the JES2 checkpoint
structure.  The object is accessed via the source
volume serial of the migrating SPOOL volume.
This macro maps a migration object. The scope
of a recovery object is one migration being either
a move or merge. Each and every migration has one.
A migration recovery object serves two purposes.
First it will house a target DAS for a move migration.
Secondly it contains recovery fields to restart
or cancel a migration should the migrator -- member go
away. The layout is as follows:
-------------------------------------------
|  BERT backed target DAS - support of MOVE
-------------------------------------------
|  Source VOLID
-------------------------------------------
|  Recovery data (For move and merge)
-------------------------------------------
This object is BERT backed. Keyed BERT - keyed on
source VOLID.
```

$MIGROBJ mapping

Table 276. Structure MIGROBJ

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MIGROBJ	
0	(0)	BITSTRING	212	MIGDAS	BERT backed DAS in support of move migration
212	(D4)	CHARACTER	6	MIGKEY	Migration source DAS VOLID - key BERT access for merge and move.
		Information used to drive migration recovery These fields are memory only (not in BERTs)			

Table 276. Structure MIGROBJ (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
220	(DC)	SIGNED	4	(0)	Alignment
220	(DC)	BITSTRING	1	RCGENINF	General recovery info
		Following 3 fields define migration recovery types which DADMSET1 will perform. Rotuine MIGRRECV (migration recovery) sets the recovery type and are interpreted by DADMSET1 (Recovery setup).			
		1...		RCFULL	"B'10000000'" FULL-RECOVERY. Given source DAS our member becomes migrator and our migration assistant is also initialized.
		.1..		RCMIGRAT	"B'01000000'" MIGRATOR-TAKEOVER. Given source DAS our member becomes migrator. Our migration assistant is OK.
		..1.		RCASSIST	"B'00100000'" ASSISTANT-RECOVERY. Given source DAS just recover our migration assistant
221	(DD)	BITSTRING	3		Reserved
224	(E0)	ADDRESS	4	RCMIGDTE	MIGR DTE address
		Source DAS recovery information (BERT backed)			
232	(E8)	DBL WORD	8	RCSRCSTR(0)	Start of source info
232	(E8)	BITSTRING	1	RCRSRINF	Source dataset info
233	(E9)	BITSTRING	1	RCRSRSTS	Source migration status
		1...		RCRGMDN	"B'10000000'" DADMCLU1 - TARGTGM - This migration has run TARGTGM once either in normal or recovery mode and must must never run again. If we crash during TARGTGM the sniffer will recover target TGM in time.
234	(EA)	BITSTRING	2		Reserved
236	(EC)	SIGNED	4	RCRSRCST	Relative track at which source dataset starts. Set by SPOL PCE in DAS7SET2 OR DAS7SET3. Only valid if source DAS is using relative addressing
240	(F0)	SIGNED	4	RCRHITG	SRC DAS TG associated with highwater mark.
244	(F4)	SIGNED	4	RCRSRTRK	Number of tracks required to house source dataset - up to highwater mark. Set by SPOL PCE in DAS7SET2 or DAS7SET3.
248	(F8)	SIGNED	4	RCRSBITR	Number of records needed to store the TLBM (track levelbitmap)
252	(FC)	SIGNED	4	RCRNUMRQ	Total number of tracks which must be migrated for this migration.
256	(100)	SIGNED	4	RCRSRECT	Number of records per track
260	(104)	SIGNED	4	RCRSRTRC	Tracks per cylinder
264	(108)	BITSTRING	1	RCRSRFIX	One to ensure max BERT

Table 276. Structure MIGROBJ (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
272	(110)	DBL WORD	8	(0)	Align section
272	(110)	X'E8'	0	RCSRCINF	"RCSRCSTR,*-RCSRCSTR" Source info segment in BERTs
	End source DAS Target DAS recovery information (BERT backed)				
272	(110)	DBL WORD	8	RCTRGSTR(0)	Start of target info
272	(110)	CHARACTER	6	RCVOLID	EBCDIC VOLSER ID of target.
278	(116)	BITSTRING	2		Reserved
280	(118)	SIGNED	4	RCRMIGRC	Number of tracks required on target dataset to house TLBM.
284	(11C)	SIGNED	4	RCRTGTG	Number of TGs in target
288	(120)	SIGNED	4	RCRTGSTT	Start TG reserved in target DAS TGM for pending migration - is one based. Valid for merge only.
292	(124)	SIGNED	4	RCRTGENT	End TG reserved in target DAS TGM for pending migration. This is one one based. Valid for merge only.
296	(128)	SIGNED	4	RCRTGWRT	Relative track at which to write data. Set by SPOL PCE in DAS7SET2 or DAS7SET3.
300	(12C)	SIGNED	4	RCATGWRT	Absolute track at which to write data. Set by SPOL PCE in DAS7SET2 OR DAS7SET3.
304	(130)	SIGNED	4	RCRSBTAS	Relative track at which the track level bitmap starts on target volume
308	(134)	SIGNED	4	RCRTDAST	Target DASSTRK value
312	(138)	BITSTRING	1	RCRTGINF	Target dataset info
313	(139)	BITSTRING	2		Reserved
316	(13C)	SIGNED	4	RCRTGTRC	Tracks per cylinder
320	(140)	SIGNED	4	RCRTRECT	Records per track for target
324	(144)	BITSTRING	1	RCRTGFIX	One to ensure max BERT
328	(148)	DBL WORD	8	(0)	Align section
328	(148)	X'110'	0	RCTRGINF	"RCTRGSTR,*-RCTRGSTR" Target info segment in BERTs
	End target DAS				
328	(148)	X'148'	0	MIGSIZ	"*-MIGROBJ" Size of migration object

Table 277. Cross Reference for $MIGROBJ

Name	Offset	Hex Tag
MIGDAS	0	
MIGKEY	D4	
MIGROBJ	0	
MIGSIZ	148	148
RCASSIST	DC	20
RCATGWRT	12C	
RCFULL	DC	80
RCGENINF	DC	

Table 277. Cross Reference for $MIGROBJ (continued)

Name	Offset	Hex Tag
RCMIGDTE	E0	
RCMIGRAT	DC	40
RCRGMDN	E9	80
RCRHITG	F0	
RCRMIGRC	118	
RCRNUMRQ	FC	
RCRSBITR	F8	
RCRSBTAS	130	
RCRSRCST	EC	
RCRSRECT	100	
RCRSRFIX	108	
RCRSRINF	E8	
RCRSRSTS	E9	
RCRSRTRC	104	
RCRSRTRK	F4	
RCRTDAST	134	
RCRTGENT	124	
RCRTGFIX	144	
RCRTGINF	138	
RCRTGSTT	120	
RCRTGTG	11C	
RCRTGTRC	13C	
RCRTGWRT	128	
RCRTRECT	140	
RCSRCINF	110	E8
RCSRCSTR	E8	
RCTRGINF	148	110
RCTRGSTR	110	
RCVOLID	110	40404040

Chapter 127. $MIT Information

$MIT Heading Information

Common Name:	Module Information Table
Macro ID:	$MIT
DSECT Name:	MIT
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'MIT ' Offset: MITID-MIT Length: 4
Storage Attributes:	Subpool: The subpool of the load module involved Key: The key of the load module involved Residency: In the JES2 address space, common storage, or the address space of a JES2 FSS, above or below the 16M line, dependent on the environment and RMODE of the load module involved.
Size:	See the MITLNGTH equate and the MITLEN field.
Created by:	A MIT is created by the assembly of a JES2 base, sample, or installation exit module, using the $MODULE macro to define the module setup.
Pointed to by:	The MIT for a module is at the start of its CSECT. MITs for modules in JES2 multi-csect load modules are pointed to by the $MODMAP entries. MITs for modules in single-csect load modules, such as exits, are pointed to by the load module's $LMT control block.
Serialization:	MITs should be considered read-only control blocks.
Function:	The MITs are used to define and validate code modules used in the JES2 component, whether an IBM module or an installation exit module. They are also used to collect and display exit point and exit routine information, module offsets for various addresses, and other data for problem determination. All JES2 modules must have a MIT at their front, and MTEs at the end.

$MIT mapping

Table 278. Structure MIT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MIT	HASP MODULE INFO TABLE DSECT
0	(0)	CHARACTER	4	MITID	MIT IDENTIFIER FIELD
4	(4)	CHARACTER	8	MITNAME	NAME OF MODULE
12	(C)	CHARACTER	8	MITVRSN	VERSION OF THIS JES2 RELEASE
20	(14)	CHARACTER	8	MITUVRSN	USER VERSION OF THIS JES2 REL
28	(1C)	CHARACTER	8	MITUSER	RESERVED FOR USER
36	(24)	ADDRESS	1	MITCBV	Control block version
36	(24)	X'1'	0	MITCBVE	"1" Control block version equ
37	(25)	CHARACTER	1	MITENVIR	Module assembly environment
37	(25)	X'D1'	0	MITENVJ	"C'J'" JES2 main task environment

Table 278. Structure MIT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
37	(25)	X'E2'	0	MITENVS	"C'S'" JES2 subtask environment
37	(25)	X'E4'	0	MITENVU	"C'U'" all-addrspc USER environ
37	(25)	X'C6'	0	MITENVF	"C'F'" FSS addrspc environment
37	(25)	X'C9'	0	MITENVI	"C'I'" IPCS environment
37	(25)	X'D4'	0	MITENVM	"C'M'" JES2 monitor environment
37	(25)	X'E5'	0	MITENVV	"C'V'" Various environs in module
37	(25)	X'C4'	0	MITENVD	"C'D'" Documentation
38	(26)	ADDRESS	2	MITLEN	Length of this MIT
40	(28)	CHARACTER	1	MITMVRSN	VERSION OF THE MACLIBS USED TO ASSEMBLE THIS MODULE, FROM THE SPLEVEL MACRO
41	(29)	ADDRESS	1	MITFLAG1	MIT FLAG 1
		1...		MIT1OCO	"B'10000000'" O C O module
		.1..		MIT1BSPL	"B'01000000'" Bypass MVS SPLEVEL check during module load
		..1.		MIT1IBMB	"B'00100000'" Base module in the IBM JES2 product
		...1		MIT1IBMS	"B'00010000'" Sample module (e.g. exit) in the IBM JES2 product
		.... 1...		MIT1PTF	"B'00001000'" PTFNUM field exists
		.... .1..		MIT1NDYN	"B'00000100'" Module does not support dynamic operations
42	(2A)	ADDRESS	2		Reserved for future use
44	(2C)	CHARACTER	8	MITFMID	JES2 SMP product FMID
52	(34)	CHARACTER	8	MITDATE	DATE OF ASSEMBLY
60	(3C)	CHARACTER	5	MITTIME	TIME OF ASSEMBLY
65	(41)	ADDRESS	3	MITMODSZ	Length of assembly module (up through $MODEND)
68	(44)	ADDRESS	4	MITENTAD	ADDRESS OF MIT ENTRY TABLE
72	(48)	ADDRESS	4	MITXMAPA	Addr of 32 byte (256 bit) bit mask for exit points in this module
76	(4C)	ADDRESS	4	MITAPARN	Pointer to 8 byte APARNUM if it exists, else to this MIT's MITUVRSN field
80	(50)	DBL WORD	8	(0)	ENSURE MIT ENDS ON DOUBLEWORD
80	(50)	X'50'	0	MITLNGTH	"*-MIT" Length of a MIT

Table 279. Cross Reference for $MIT

Name	Offset	Hex Tag
MIT	0	
MITAPARN	4C	
MITCBV	24	
MITCBVE	24	1
MITDATE	34	
MITENTAD	44	
MITENVD	25	C4
MITENVF	25	C6

Table 279. Cross Reference for $MIT (continued)

Name	Offset	Hex Tag
MITENVI	25	C9
MITENVIR	25	
MITENVJ	25	D1
MITENVM	25	D4
MITENVS	25	E2
MITENVU	25	E4
MITENVV	25	E5
MITFLAG1	29	
MITFMID	2C	
MITID	0	
MITLEN	26	
MITLNGTH	50	50
MITMODSZ	41	
MITMVRSN	28	
MITNAME	4	
MITTIME	3C	
MITUSER	1C	
MITUVRSN	14	
MITVRSN	C	
MITXMAPA	48	
MIT1BSPL	29	40
MIT1IBMB	29	20
MIT1IBMS	29	10
MIT1NDYN	29	4
MIT1OCO	29	80
MIT1PTF	29	8

Chapter 128. $MITETBL Information

$MITETBL Heading Information

Common Name:	Module Information Table Entries
Macro ID:	$MITETBL
DSECT Name:	MTE
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'$$$$MTES' (as the first MTE's MTENAME) Offset: MTENAME of the first MTE - MTE Length: 8
Storage Attributes:	Subpool: The subpool of the load module involved Key: The key of the load module involved Residency: In the JES2 address space, common storage, or the address space of a JES2 FSS, above or below the 16M line, dependent on the environment and RMODE of the load module involved.
Size:	See the MTELEN equate.
Created by:	The MTEs for a module are created by the assembly of a JES2 base, sample, or installation exit module, using the $MODULE macro to define the module setup, the $ENTRY macro to define the entry points (MTEs), and $MODEND to perform the module epilog.
Pointed to by:	The MTEs for a module are at the end of its CSECT. The MITENDAD field in the module's MIT at the front of module points to the first MTE.
Serialization:	MTEs should be considered read-only control blocks.
Function:	The MTEs are used to define and validate code modules used in the JES2 component, whether an IBM module or an installation exit module. They are also used to collect and display exit point and exit routine information, module offsets for various addresses, and other data for problem determination. All JES2 modules must have a MIT at their front, and MTEs at the end.

$MITETBL mapping

Table 280. Structure MTE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MTE	HASP MIT ENTRY TABLE DSECT
0	(0)	CHARACTER	8	MTENAME	NAME FROM $ENTRY
8	(8)	ADDRESS	4	MTEADDR	Address of the entry point
12	(C)	BITSTRING	1	MTEFLAG1	Type of entry pt, multiple flags may be set, or none
		1...		MTEF1CAD	"B'10000000'" MTEADLOF is CADDR offset
		.1..		MTEF1COF	"B'01000000'" MTEADLOF is an OCOOFFST offset, and that field contains a CADDR offset

Table 280. Structure MTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		MTEF1PAD	"B'00100000'" MTEADLOF is PADDR offset
		...1		MTEF1POF	"B'00010000'" MTEADLOF is an OCOOFFST offset, and that field contains a PADDR offset
		.... .1..		MTEF1CCT	"B'00000100'" MTEADLOF is CCT table pair offset
		.... ..1.		MTEF1MCT	"B'00000010'" MTEADLOF is MCT table pair offset
		1		MTEF1UCT	"B'00000001'" MTEADLOF is UCT table pair offset
13	(D)	CHARACTER	1	MTEENVIR	Assembly environment (see the MITENVIR equates)
14	(E)	BITSTRING	1	MTEFLAG2	More flags
		1...		MTEF2TAB	"B'10000000'" MTE represents a table
		.1..		MTEF2DUP	"B'01000000'" MTE is a duplicate entry
		..1.		MTEF2SSI	"B'00100000'" SSI entry point
		...1		MTEF2$EX	"B'00010000'" $EXIT pt #, not callable
15	(F)	BITSTRING	1		Reserved for future use
16	(10)	BITSTRING	2	MTEADLOF	Offset in CADDR, PADDR, or OCOOFFST, if any
18	(12)	BITSTRING	1	MTESSI$E	SSI # minus 1 if MTEF1SSI, or $EXIT pt # if MTEF1$EX
19	(13)	BITSTRING	1	MTETBTYP	Table type if MTEF1TAB is set - the type is also used by the $GETABLE and $PUTABLE services
19	(13)	X'0'	0	MTETPCE	"0" Table is $PCETAB
19	(13)	X'1'	0	MTETDCT	"1" Table is $DCTTAB
19	(13)	X'2'	0	MTETDTE	"2" Table is $DTETAB
19	(13)	X'3'	0	MTETTID	"3" Table is $TIDTAB
19	(13)	X'4'	0	MTETPCR	"4" Table is $PCTAB
19	(13)	X'5'	0	MTETBERT	"5" Table is $BERTTAB
19	(13)	X'6'	0	MTETWST	"6" Table is $WSTAB
19	(13)	X'7'	0	MTETSCAN	"7" Table is $SCANTAB
19	(13)	X'8'	0	MTETXCA	"8" Table is $XCATAB
19	(13)	X'9'	0	MTETJFA	"9" Table is $JFATAB
19	(13)	X'A'	0	MTETJVD	"10" Table is $JVDTAB
19	(13)	X'A'	0	MTETMAX	"10" Highest defined tbl type
19	(13)	X'14'	0	MTELEN	"*-MTE" LENGTH OF ENTRY

Table 281. Cross Reference for $MITETBL

Name	Offset	Hex Tag
MTE	0	
MTEADDR	8	
MTEADLOF	10	
MTEENVIR	D	
MTEFLAG1	C	
MTEFLAG2	E	
MTEF1CAD	C	80

Table 281. Cross Reference for $MITETBL (continued)

Name	Offset	Hex Tag
MTEF1CCT	C	4
MTEF1COF	C	40
MTEF1MCT	C	2
MTEF1PAD	C	20
MTEF1POF	C	10
MTEF1UCT	C	1
MTEF2$EX	E	10
MTEF2DUP	E	40
MTEF2SSI	E	20
MTEF2TAB	E	80
MTELEN	13	14
MTENAME	0	
MTESSI$E	12	
MTETBERT	13	5
MTETBTYP	13	
MTETDCT	13	1
MTETDTE	13	2
MTETJFA	13	9
MTETJVD	13	A
MTETMAX	13	A
MTETPCE	13	0
MTETPCR	13	4
MTETSCAN	13	7
MTETTID	13	3
MTETWST	13	6
MTETXCA	13	8

Chapter 129. $MLMWORK Information

$MLMWORK Programming Interface Information

$MLMWORK is a programming interface.

$MLMWORK Heading Information

Common Name:	Line manager PCE work area
Macro ID:	$MLMWORK
DSECT Name:	PCE
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	PCE Offset: PCEEYE Length: L'PCEEYE
Storage Attributes:	Subpool: 25 Key: 1 Residency: Virtual and real storage are anywhere, above or below 16M, in private storage of the JES2 address space.
Size:	See MLMLEN
Created by:	$PCEDYN service during JES2 initialization
Pointed to by:	$MLLMPCE field of the $HCT data area
Serialization:	JES2 main task
Function:	The fields in this work area are used by the JES2 line manager processor. $MLMWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $MLMWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEMLMID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

$MLMWORK mapping

Table 282. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	HASP MULTI-LEAVING LINE MANAGER
320	(140)	DBL WORD	8	MLMCLOCK	LINE MANAGER LAST DISPATCH TIME
328	(148)	BITSTRING	12	MLMTQE	LINE MANAGER TIMER QUE ELEMENT
340	(154)	ADDRESS	4	MLMDTIME	LINE MANAGER NEXT DISC LOOK TIME
344	(158)	ADDRESS	4	MLMATIME	LINE MANAGER NEXT AUTOLOGON SCAN TIME
348	(15C)	ADDRESS	4	MLMQUES(0)	Start of MLM queues
348	(15C)	ADDRESS	4	MLMBSCAL	LINE MANAGER ACTIVE BSC LINES PTR
352	(160)	ADDRESS	4	MLMSNALG	LINE MANAGER ACTIVE LOGON DCT PTR
356	(164)	ADDRESS	4	MLMSNAAL	LINE MANAGER ACTIVE LINE DCT PTR
360	(168)	ADDRESS	4	MLMSNAIL	LINE MANAGER IDLE SNA LINES PTR

Table 282. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
364	(16C)	ADDRESS	4	MLMTCPAL	LINE MANAGER ACTIVE TCP LINES PTR
368	(170)	ADDRESS	4	MLMTCPIL	LINE MANAGER IDLE TCP LINES PTR
372	(174)	ADDRESS	4	MLMTCPSV	LINE MANAGER ACTIVE SERVER DCT
376	(178)	ADDRESS	4	MLMTCPST	LINE MANAGER STARTING SERVER
380	(17C)	ADDRESS	4	MLMLOGQ	LINE MANAGER LOGON DCT QUEUE
384	(180)	ADDRESS	4	MLMICEQ	LINE MANAGER SCHED ICE QUEUE
388	(184)	ADDRESS	4	MLMRPLQ	Line mgr SNA/RPL buffer q
392	(188)	ADDRESS	4	MLMBSCQ	Line mgr BSC buffer queue
396	(18C)	ADDRESS	4	MLMWORKQ	LINE MANAGER ACTIVE WORK QUEUE
400	(190)	ADDRESS	4	MLMASWLQ	Line mgr active SWEL queue
	Posted SWEL queues. These queues must be kept together.				
404	(194)	ADDRESS	4	MLMPSWLQ(0)	Line mgr Posted SWEL Queues
404	(194)	ADDRESS	4	MLMPSWLB	Line mgr BSC Posted SWEL Q
408	(198)	ADDRESS	4	MLMPSWLS	Line mgr SNA Posted SWEL Q
	MLMSCNI1, MLMSCNI2, and and MLMEVNTI represent actions to be performed on the NEXT scan of the line manager and must be kept together.				
412	(19C)	BITSTRING	1	MLMSCNI1	LINE MANAGER DCT SCAN INDICATOR
		1...		MLMSBUNT	"B'10000000'" SCAN INACTIVE BSC LINE DCT
		.1..		MLMSBACT	"B'01000000'" SCAN ACTIVE BSC LINE DCTS
		..1.		MLMSSIDL	"B'00100000'" SCAN IDLE SNA LINE DCTS
		...1		MLMSSLOG	"B'00010000'" SCAN ACTIVE SNA LOGON DCTS
		.... 1...		MLMSSLNE	"B'00001000'" SCAN ACTIVE SNA LINE DCTS
		...1 1...		MLMSSALL	"B'00011000'" SCAN ACTIVE SNA LOGON/LINE
		.... .1..		MLMSRAT	"B'00000100'" SCAN RAT
		.... ..1.		MLMSSUNT	"B'00000010'" SCAN INACTIVE SNA LINE/LOGON DCTS
		1		MLMSSVFY	"B'00000001'" DO QUEUE VALIDATION
413	(19D)	BITSTRING	1	MLMSCNI2	LINE MANAGER DCT SCAN INDICATOR
		1...		MLMSTUNT	"B'10000000'" SCAN INACTIVE TCP LINE DCTS
		.1..		MLMSTIDL	"B'01000000'" SCAN IDLE TCP LINE DCTS
		..1.		MLMSTACT	"B'00100000'" SCAN ACTIVE TCP LINE DCTS
		...1		MLMSTSRV	"B'00010000'" SCAN ACTIVE TCP SERVER DCTS
414	(19E)	BITSTRING	1	MLMEVNTI	LINE MANAGER GEN EVENT INDICATOR
		1...		MLMEPJOB	"B'10000000'" EVENT $JOT POST OCCURED
		.1..		MLMETIME	"B'01000000'" EVENT TIMER INTERRUPT OCCURED
		..1.		MLMEDISC	"B'00100000'" EVENT DISCON INTERVAL OCCURED

Table 282. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		MLMEALM	"B'00010000'" A REMOTE IS IN AUTOLOGON MODE
		.... 1...		MLMEMXSS	"B'00001000'" MAXSESS HAS BEEN EXCEEDED
		.... .1..		MLMECKPT	"B'00000100'" CHECKPOINT POST OCCURED
		MLMSCNR1, MLMSCNR2, and MLMEVNTR represent actions to be performed on the CURRENT scan of the line manager and must be kept together. The flag definitions are the same as for MLMSCNI1, MLMSCNI2, and MLMEVNTI.			
415	(19F)	BITSTRING	1	MLMSCNR1	LINE MANAGER REQ SCAN INDICATOR
416	(1A0)	BITSTRING	1	MLMSCNR2	LINE MANAGER REQ SCAN INDICATOR
417	(1A1)	BITSTRING	1	MLMEVNTR	LINE MANAGER REQ EVENT INDICATOR
420	(1A4)	ADDRESS	4	MLMSCANA	LINE MANAGER SCAN TABLE ADDRESS
424	(1A8)	ADDRESS	4	MLMICEQ2	LINE MANAGER RE-SCHED ICE Q
428	(1AC)	ADDRESS	2	MLMSEQWK	BSC CPU SEQUENCE CHECK WORK AREA
430	(1AE)	ADDRESS	2	MLMFCSWL	FUNCTION CNTL SEQUENCE WORK AREA
432	(1B0)	ADDRESS	1	MLMCMDTP	BSC RJE CCW COMMAND TYPE
433	(1B1)	ADDRESS	1	MLMFLAG1	LINE MANAGER FLAGS
		1...		MLM1LOGI	"B'10000000'" RPL DIAGNOSTIC LOGGING INDICATOR
		.1..		MLM1WRK1	"B'01000000'" MULTI-PURPOSE WORK FLAG
		..1.		MLM1TIST	"B'00100000'" ONE SECOND INTERVAL TIMER SET
		...1		MLM1TIRQ	"B'00010000'" ONE SECOND TIMER REQUESTED
		.... 1...		MLM1PWIG	"B'00001000'" New password ignored msg
		.... .1..		MLM1LOJS	"B'00000100'" Logon decision by JES2
		.... ..1.		MLM1PNPM	"B'00000010'" MLLM should post NPM
		1		MLM1DERR	"B'00000001'" MLLM has checked for double-queued buffer
434	(1B2)	SIGNED	2	MLMICESQ	Current ICE trace seq numb
436	(1B4)	SIGNED	4	MLMWCNT1	MLM scan rtn work counter 1
440	(1B8)	SIGNED	4	MLMWCNT2	MLM scan rtn work counter 2
444	(1BC)	SIGNED	4	MLMXPARM(0)	EXIT POINT PARAMETER LIST
444	(1BC)	SIGNED	4	MLMXRAT	ADDRESS OF RAT TABLE OR ENTRY
448	(1C0)	SIGNED	4	MLMXLDCT	ADDRESS OF LINE DCT
452	(1C4)	SIGNED	4	MLMXICE	ADDRESS OF ICE FOR SNA
456	(1C8)	SIGNED	4	MLMXCRDA	ADDRESS OF CARD IMAGE
460	(1CC)	SIGNED	4	MLMXCRDL	LENGTH OF CARD IMAGE
464	(1D0)	CHARACTER	80	MLMSONCD	SIGN-ON CARD INPUT AREA
544	(220)	CHARACTER	1	MLMLGWRK	Logon/Signon work space
544	(220)	X'22C'	0	MLMLGNAM	"CAPENAM-CAPE+MLMLGWRK" Remote terminal name
544	(220)	X'234'	0	MLMLGLPW	"CAPELPW-CAPE+MLMLGWRK" Line group password
544	(220)	X'23C'	0	MLMLGRPW	"CAPERPW-CAPE+MLMLGWRK" Terminal Remote Pswd

Table 282. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
544	(220)	X'244'	0	MLMLGNPW	"CAPENPW-CAPE+MLMLGWRK" Terminal New Password
544	(220)	X'24C'	0	MLMLGRMT	"CAPEUID-CAPE+MLMLGWRK" Short form rmt name
608	(260)	SIGNED	4	(0)	ALIGN TO FULLWORD
608	(260)	CHARACTER	136	MLMSODCT	BASIC DUMMY RMT DCT
744	(2E8)	ADDRESS	4	MLMWRKIQ	Line Mgr SNA/ICE work queue
748	(2EC)	SIGNED	4	MLMQTTIM	Time of buffer q truncation
752	(2F0)	BITSTRING	54	MLMTWORK	Work area for ICE trace
806	(326)	BITSTRING	1	MLMRFP	Recovery footprint
807	(327)	BITSTRING	1	MLMRFPX	Prior recovery footprint
808	(328)	BITSTRING	1	MLMRFPCT	Recovery retry count
809	(329)	BITSTRING	1	MLMRFFG1	Flag for MLLM scan rtn with its own recovery
		1...		MLMRF1AB	"B'10000000'" Recursion flag
809	(329)	X'1EA'	0	MLMLEN	"*-PCEWORK" LENGTH OF PCE WORK SPACE

Table 283. Cross Reference for $MLMWORK

Name	Offset	Hex Tag
MLMASWLQ	190	
MLMATIME	158	
MLMBSCAL	15C	
MLMBSCQ	188	
MLMCLOCK	140	
MLMCMDTP	1B0	
MLMDTIME	154	
MLMEALM	19E	10
MLMECKPT	19E	4
MLMEDISC	19E	20
MLMEMXSS	19E	8
MLMEPJOB	19E	80
MLMETIME	19E	40
MLMEVNTI	19E	
MLMEVNTR	1A1	
MLMFCSWL	1AE	
MLMFLAG1	1B1	
MLMICEQ	180	
MLMICEQ2	1A8	
MLMICESQ	1B2	
MLMLEN	329	1EA
MLMLGLPW	220	234
MLMLGNAM	220	22C
MLMLGNPW	220	244
MLMLGRMT	220	24C
MLMLGRPW	220	23C
MLMLGWRK	220	
MLMLOGQ	17C	
MLMPSWLB	194	

Table 283. Cross Reference for $MLMWORK (continued)

Name	Offset	Hex Tag
MLMPSWLQ	194	
MLMPSWLS	198	
MLMQTTIM	2EC	
MLMQUES	15C	
MLMRFFG1	329	
MLMRFP	326	
MLMRFPCT	328	
MLMRFPX	327	
MLMRF1AB	329	80
MLMRPLQ	184	
MLMSBACT	19C	40
MLMSBUNT	19C	80
MLMSCANA	1A4	
MLMSCNI1	19C	
MLMSCNI2	19D	
MLMSCNR1	19F	
MLMSCNR2	1A0	
MLMSEQWK	1AC	
MLMSNAAL	164	
MLMSNAIL	168	
MLMSNALG	160	
MLMSODCT	260	
MLMSONCD	1D0	
MLMSRAT	19C	4
MLMSSALL	19C	18
MLMSSIDL	19C	20
MLMSSLNE	19C	8
MLMSSLOG	19C	10
MLMSSUNT	19C	2
MLMSSVFY	19C	1
MLMSTACT	19D	20
MLMSTIDL	19D	40
MLMSTSRV	19D	10
MLMSTUNT	19D	80
MLMTCPAL	16C	
MLMTCPIL	170	
MLMTCPST	178	
MLMTCPSV	174	
MLMTQE	148	
MLMTWORK	2F0	
MLMWCNT1	1B4	
MLMWCNT2	1B8	
MLMWORKQ	18C	
MLMWRKIQ	2E8	
MLMXCRDA	1C8	
MLMXCRDL	1CC	
MLMXICE	1C4	
MLMXLDCT	1C0	
MLMXPARM	1BC	

Table 283. Cross Reference for $MLMWORK (continued)

Name	Offset	Hex Tag
MLMXRAT	1BC	
MLM1DERR	1B1	1
MLM1LOGI	1B1	80
MLM1LOJS	1B1	4
MLM1PNPM	1B1	2
MLM1PWIG	1B1	8
MLM1TIRQ	1B1	10
MLM1TIST	1B1	20
MLM1WRK1	1B1	40
PCE	0	

Chapter 130. $MODMAP Information

$MODMAP Heading Information

Common Name: Module map for HASJES20 and HASPINIT
Macro ID: $MODMAP
DSECT Name: MAP
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: None
Storage Attributes: Subpool: The subpool of the HASJES20 load module
Key: 1
Residency: Virtual and real storage are below 16M, in the private storage of the JES2 address space.

Size: See the MAPLEN equate.
Created by: The MODMAP is created by assembly of the HASPTABS module in the HASJES20 load module.
Pointed to by: The $HASPMAP field in the $HCT data area points to the MODMAP.
Serialization: The MODMAP should usually be considered as read-only. Exceptions to this are the times when the HASPINIT load module is loaded and deleted, and when the REP facility establishes a REP BASE.
Function: The MODMAP is used to provide a csect-granular map of the JES2 multi-csect load modules. The multi-csect load modules are HASJES20 and HASPINIT. All other JES2 modules, both for the IBM base JES2 product and for installation exits, are represented by LMT control blocks instead.
The MODMAP also contains entry point addresses for main-task processors and subtasks in the JES2 address space.

$MODMAP mapping

Table 284. Structure MAP

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MAP	HASP MODULE DIRECTORY DSECT
0	(0)	X'0'	0	MAPMOD1	"*" START OF MODMAP ENTRIES
0	(0)	CHARACTER	8	MAPABS	(not code, for REPs only)
16	(10)	CHARACTER	8	MAPARM	
32	(20)	CHARACTER	8	MAPARMO	
48	(30)	CHARACTER	8	MAPBSC	
64	(40)	CHARACTER	8	MAPCDYN	
80	(50)	CHARACTER	8	MAPCFAL	
96	(60)	CHARACTER	8	MAPCFBF	
112	(70)	CHARACTER	8	MAPCFDE	
128	(80)	CHARACTER	8	MAPCFE	
144	(90)	CHARACTER	8	MAPCFFC	
160	(A0)	CHARACTER	8	MAPCFLE	
176	(B0)	CHARACTER	8	MAPCFMT	

Table 284. Structure MAP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
192	(C0)	CHARACTER	8	MAPCFQL	
208	(D0)	CHARACTER	8	MAPCFQU	
224	(E0)	CHARACTER	8	MAPCFRD	
240	(F0)	CHARACTER	8	MAPCFRE	
256	(100)	CHARACTER	8	MAPCFRL	
272	(110)	CHARACTER	8	MAPCFRS	
288	(120)	CHARACTER	8	MAPCFR2	
304	(130)	CHARACTER	8	MAPCFSI	
320	(140)	CHARACTER	8	MAPCFT1	
336	(150)	CHARACTER	8	MAPCFUN	
352	(160)	CHARACTER	8	MAPCFWP	
368	(170)	CHARACTER	8	MAPCFWR	
384	(180)	CHARACTER	8	MAPCKCF	
400	(190)	CHARACTER	8	MAPCKDA	
416	(1A0)	CHARACTER	8	MAPCKDS	
432	(1B0)	CHARACTER	8	MAPCKPT	
448	(1C0)	CHARACTER	8	MAPCKRR	
464	(1D0)	CHARACTER	8	MAPCKVR	
480	(1E0)	CHARACTER	8	MAPCNVT	
496	(1F0)	CHARACTER	8	MAPCOMM	
512	(200)	CHARACTER	8	MAPCON	
528	(210)	CHARACTER	8	MAPCSV	
544	(220)	CHARACTER	8	MAPDYN	
560	(230)	CHARACTER	8	MAPEVTL	
576	(240)	CHARACTER	8	MAPEXTA	
592	(250)	CHARACTER	8	MAPFSSP	
608	(260)	CHARACTER	8	MAPHCCT	(not code, for REPs only)
624	(270)	CHARACTER	8	MAPHOPE	
640	(280)	CHARACTER	8	MAPIRA	
640	(280)	X'280'	0	MAPINIT	"MAPIRA,8,C'C'"
656	(290)	CHARACTER	8	MAPIRDA	
672	(2A0)	CHARACTER	8	MAPIRMA	
688	(2B0)	CHARACTER	8	MAPIRPL	
704	(2C0)	CHARACTER	8	MAPIRRE	
720	(2D0)	CHARACTER	8	MAPIRSI	
736	(2E0)	CHARACTER	8	MAPJOS	
752	(2F0)	CHARACTER	8	MAPJQS	
768	(300)	CHARACTER	8	MAPMISC	
784	(310)	CHARACTER	8	MAPMSG	
800	(320)	CHARACTER	8	MAPNATS	
816	(330)	CHARACTER	8	MAPNET	
832	(340)	CHARACTER	8	MAPNJT	
848	(350)	CHARACTER	8	MAPNPM	
864	(360)	CHARACTER	8	MAPNRM	
880	(370)	CHARACTER	8	MAPNSR	
896	(380)	CHARACTER	8	MAPNST	
912	(390)	CHARACTER	8	MAPNUC	
928	(3A0)	CHARACTER	8	MAPODSM	
944	(3B0)	CHARACTER	8	MAPPRPU	
960	(3C0)	CHARACTER	8	MAPPSO	
976	(3D0)	CHARACTER	8	MAPRAS	
992	(3E0)	CHARACTER	8	MAPRDR	

Table 284. Structure MAP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1008	(3F0)	CHARACTER	8	MAPRTAM	
1024	(400)	CHARACTER	8	MAPSASR	
1040	(410)	CHARACTER	8	MAPSERV	
1056	(420)	CHARACTER	8	MAPSIR	
1072	(430)	CHARACTER	8	MAPSJFR	
1088	(440)	CHARACTER	8	MAPSNA	
1104	(450)	CHARACTER	8	MAPSPIN	
1120	(460)	CHARACTER	8	MAPSPOL	
1136	(470)	CHARACTER	8	MAPSSRV	
1152	(480)	CHARACTER	8	MAPSTAB	
1168	(490)	CHARACTER	8	MAPSTAC	
1184	(4A0)	CHARACTER	8	MAPSTAM	
1200	(4B0)	CHARACTER	8	MAPSTUB	
1216	(4C0)	CHARACTER	8	MAPSUBS	
1232	(4D0)	CHARACTER	8	MAPSXDV	
1248	(4E0)	CHARACTER	8	MAPSXIT	
1264	(4F0)	CHARACTER	8	MAPSXJB	
1280	(500)	CHARACTER	8	MAPSXNJ	
1296	(510)	CHARACTER	8	MAPSXOT	
1312	(520)	CHARACTER	8	MAPTABS	
1328	(530)	CHARACTER	8	MAPTCP	
1344	(540)	CHARACTER	8	MAPTERM	
1360	(550)	CHARACTER	8	MAPTRAK	
1376	(560)	CHARACTER	8	MAPWARM	
1392	(570)	CHARACTER	8	MAPXCF	
1408	(580)	CHARACTER	8	MAPXEQ	
1408	(580)	X'59'	0	MAP#J2M	"(*-MAPMOD1)/MAPENTL" NUMBER OF JES2 MODULES
		TABLE OF USER EXIT MODULES LINKED WITH HASJES20. THESE ARE DEFINED AS WEAK EXTERNAL SYMBOLS BELOW. THE TABLE INCLUDES THE SPECIAL ENTRY FOR HASPXIT0, WHICH MAY BE LINKEDITED IN THE HASPINIT LOAD MODULE INSTEAD - IF SO, HASPINIT UPDATES THIS MODMAP ENTRY AND THE REP FACILITY WILL FUNCTION FOR THAT MODULE. THE HASPXIT0 STORAGE WILL BE DELETED WITH HASPINIT IF LINKEDITED WITH HASPINIT, AND WILL REMAIN IN STORAGE IF LINKEDITED WITH HASJES20 OR IF LOADED IN ITS OWN LOAD MODULE BY HASPINIT.				
1424	(590)	CHARACTER	8	MAPJXMOD	
1440	(5A0)	CHARACTER	8		
1456	(5B0)	CHARACTER	8		
1472	(5C0)	CHARACTER	8		
1488	(5D0)	CHARACTER	8		
1504	(5E0)	CHARACTER	8		
1520	(5F0)	CHARACTER	8		
1536	(600)	CHARACTER	8		
1552	(610)	CHARACTER	8		
1568	(620)	CHARACTER	8		
1584	(630)	CHARACTER	8		
1600	(640)	CHARACTER	8		
1616	(650)	CHARACTER	8		
1632	(660)	CHARACTER	8		
1648	(670)	CHARACTER	8		
1664	(680)	CHARACTER	8		

Table 284. Structure MAP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1680	(690)	CHARACTER	8		
1696	(6A0)	CHARACTER	8		
1712	(6B0)	CHARACTER	8		
1728	(6C0)	CHARACTER	8		
1744	(6D0)	CHARACTER	8		
1760	(6E0)	CHARACTER	8		
1776	(6F0)	CHARACTER	8		
1792	(700)	CHARACTER	8		
1808	(710)	CHARACTER	8		
1824	(720)	CHARACTER	8		
1840	(730)	CHARACTER	8		
1856	(740)	CHARACTER	8		
1872	(750)	CHARACTER	8		
1888	(760)	CHARACTER	8		
1904	(770)	CHARACTER	8		
1920	(780)	CHARACTER	8		
1936	(790)	CHARACTER	8	MAPEXIT0	
1936	(790)	X'210'	0	MAPJXLEN	"*-MAPJXMOD" LENGTH OF LINKED MODULE TABLE
1936	(790)	X'21'	0	MAPJXCNT	"MAPJXLEN/MAPENTL" NUMBER OF INSTALLATION ENTRIES
1936	(790)	X'7A'	0	MAPMODS	"(*-MAPMOD1)/MAPENTL" NUMBER OF REP TABLE ENTRIES
1952	(7A0)	BITSTRING	8		ZERO ENTRY FOR $SCANTAB
	MISCELLANEOUS ENTRY POINT ADDRESSES FOR SUBTASKS, IOS ROUTINES, ETC.				
1968	(7B0)	ADDRESS	4	MAPACCTA	"V(HASPACCT)" ADDR OF HASPACCT SUBTASK
1972	(7B4)	ADDRESS	4	MAPSPLA	"V(HOSPOOL)" ADDR OF SPOOL ALLOCATION SUBTASK
1976	(7B8)	ADDRESS	4	MAPSPMG	"V(HOSPMIGR)" Addr of spool migration subtask rtn
1980	(7BC)	ADDRESS	4	MAPSPAST	"V(HOSPASST)" Addr of spool migration assist rtn
1984	(7C0)	ADDRESS	4	MAPWTOA	"V($HASPWTO)" ADDR OF HASP WTO SUBTASK
1988	(7C4)	ADDRESS	4	MAPIMAGA	"V(HASPIMAG)" ADDR OF IMAGE LOADER SUBTASK
1992	(7C8)	ADDRESS	4	MAPVTAMA	"V(HASPVTAM)" ADDR OF HASP VTAM INTERFACE
1996	(7CC)	ADDRESS	4	MAPALOCA	"V(HOSALLOC)" ADDR OF ALLOCATION TASK
2000	(7D0)	ADDRESS	4	MAPCNVA	"V(HOSCNVT)" ADDR OF CONVERT SUBTASK
2004	(7D4)	ADDRESS	4	MAPOFFA	"V(HASPOFF)" ADDR OF OFFLOAD SUBTASK
2008	(7D8)	ADDRESS	4	MAPCKCFA	"V(HA$PCKCF)" Addr of CKPT on CF subtask
2012	(7DC)	ADDRESS	4	MAPCKDAA	"V(HA$PCKDA)" Addr of CKPT on DASD subtsk
2016	(7E0)	ADDRESS	4	MAPCKVRA	"V(HA$PCKVR)" ADDR OF CKPT VERSN SUBTSK

Table 284. Structure MAP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2020	(7E4)	ADDRESS	4	MAPSUBSA	"V(HA$PSUBS)" ADDR OF GENL SUBTASK
2024	(7E8)	ADDRESS	4	MAPODSMX	"V(ODSMEXC)" ADDR OF SWBMOD PC ROUTINE
2028	(7EC)	ADDRESS	4	MAPODSMR	"V(ODSMEST)" ADDR OF SWBMOD PC ARR
2032	(7F0)	ADDRESS	4	MAPATTNA	"V(HASPATTN)" ADDR OF HASP ATTENTION ROUTINE
2036	(7F4)	ADDRESS	4	MAPPXITA	"V(HASPPXIT)" ADDR OF HASP POST EXIT ROUTINE
2040	(7F8)	ADDRESS	4	MAPIOAPG	"V($IOAPPEN)" ADDR OF I/O APPENDAGE TABLE
2044	(7FC)	ADDRESS	4	MAPEMS	"V(HASPEOM)" Addr of EOM subtask
		TABLE OF HASP PROCESSOR ENTRY POINT ADDRESSES. THESE FIELDS ARE POINTED TO BY $PCETAB ENTRIES IN HASPTABS.			
2048	(800)	ADDRESS	4	MAPRDRA	"V(HA$PRDR)" READERNN PROCESSOR
2052	(804)	ADDRESS	4	MAPASYNA	"V($ASYNC)" ASYNCH I/O PROCESSOR
2056	(808)	ADDRESS	4	MAPCNVTA	"V(HA$PCNVT)" JCL CONVERSION PROCESSOR
2060	(80C)	ADDRESS	4	MAPEXECA	"V(HASPEXEC)" EXECUTION PROCESSOR
2064	(810)	ADDRESS	4	MAPSTACA	"V(HA$PSTAC)" STATUS/CANCEL PROCESSOR
2068	(814)	ADDRESS	4	MAPPSOA	"V(HA$PPSO)" PSO PROCESSOR
2072	(818)	ADDRESS	4	MAPHOPEA	"V(HA$PHOPE)" OUTPUT PROCESSOR
2076	(81C)	ADDRESS	4	MAPPRPUA	"V(HASPPPI1)" PRINT/PUNCH PROCESSOR
2080	(820)	ADDRESS	4	MAPPURGA	"V(HASPVPRG)" PURGE PROCESSOR
2084	(824)	ADDRESS	4	MAPCOMMA	"V(HA$PCOMM)" COMMAND PROCESSOR
2088	(828)	ADDRESS	4	MAPMLLMA	"V(HASPMLLM)" LINE MANAGER PROCESSOR
2092	(82C)	ADDRESS	4	MAPTIMEA	"V($TIMER)" STIMER PROCESSOR
2096	(830)	ADDRESS	4	MAPCKPTA	"V(HA$PCKPT)" CHECKPOINT PROCESSOR
2100	(834)	ADDRESS	4	MAPSPINA	"V(HA$PSPIN)" SPIN PROCESSOR
2104	(838)	ADDRESS	4	MAPPRTYA	"V(HASPGPRC)" PRIORITY AGING PROCESSOR
2108	(83C)	ADDRESS	4	MAPPRIOA	"V(HASPGOPR)" OUTPUT PRIO AGING PROCESSOR
2112	(840)	ADDRESS	4	MAPWARMA	"V(HA$PWARM)" WARM START PROCESSOR
2116	(844)	ADDRESS	4	MAPNJTA	"V(HA$PNJT)" JOB TRANSMITTER PROCESSOR
2120	(848)	ADDRESS	4	MAPNJRA	"V(HA$PRDR)" JOB RECEIVER PROCESSOR
2124	(84C)	ADDRESS	4	MAPNSTA	"V(HA$PNST)" SYSOUT TRANSMITTR PROCESSOR
2128	(850)	ADDRESS	4	MAPNSRA	"V(HA$PNSR)" SYSOUT RECEIVER PROCESSOR
2132	(854)	ADDRESS	4	MAPNPMA	"V(HASPNPMP)" NETWORK PATH MGR PROCESSOR
2136	(858)	ADDRESS	4	MAPNRMA	"V(HA$PNRM)" Network Resource Monitor

Table 284. Structure MAP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2140	(85C)	ADDRESS	4	MAPMCONA	"V(HASPMCON)" REMOTE CONSOLE PROCESSOR
2144	(860)	ADDRESS	4	MAPXTIMA	"V(HASPTIME)" TIME EXCESSION PROCESSOR
2148	(864)	ADDRESS	4	MAPEVTLA	"V(HA$PEVTL)" EVENT TRACE LOG PROCESSOR
2152	(868)	ADDRESS	4	MAPXFRMA	"V(HASPXFRM)" XFR I/O MANAGER PROCESSOR
2156	(86C)	ADDRESS	4	MAPSPOLA	"V(HA$PSPOL)" SPOOL MANAGER PROCESSOR
2160	(870)	ADDRESS	4	MAPNRRA	"V(HA$PRDR)" ROUTE RECEIVER PROCESSOR
2164	(874)	ADDRESS	4	MAPNRTA	"V(HA$PNJT)" ROUTE TRANSMITTER PROCESSOR
2168	(878)	ADDRESS	4	MAPRESMA	"V(HASPRESM)" RESOURCE MANAGER PROCESSOR
2172	(87C)	ADDRESS	4	MAPSFSRA	"V(HA$PSJFR)" SCHEDULER SERVICES PROCSR
2176	(880)	ADDRESS	4	MAPFSSPA	"V(HA$PFSSP)" FSS SERVICE PROCESSOR
2180	(884)	ADDRESS	4	MAPFCL	"V(FCLEANUP)" FSS CLEANUP ON EOM
2184	(888)	ADDRESS	4	MAPJCMD	"V(COMJCMD)" Job command processor
2188	(88C)	ADDRESS	4	MAPXCFA	"V(HA$PXCF)" XCF COUPLING PROCESSOR
2192	(890)	ADDRESS	4	MAPXCMA	"V(XCMMAIN)" XCF Command Processor
2196	(894)	ADDRESS	4	MAPARMSA	"V(HA$PARM)" ARM SUPPORT PROCESSOR
2200	(898)	ADDRESS	4	MAPSNF	"V(HA$PSNF)" SPOOL Management Processor
2204	(89C)	ADDRESS	4	MAPSPI	"V(HA$PSASR)" Sysout API Processor
2208	(8A0)	ADDRESS	4	MAPDILSA	"V(HA$PDILB)" BERT lock POST Processor
2212	(8A4)	ADDRESS	4	MAPENFA	"V(HA$PENF)" ENF LISTEN Processor
2216	(8A8)	ADDRESS	4	MAPMISCA	"V(HA$PMISC)" Miscellaneous processor
2220	(8AC)	ADDRESS	4	MAPALIA	"V(HA$PALI)" Acquire Lock & Initiate Cleanup Executor
2224	(8B0)	ADDRESS	4	MAPEOM	"V(HA$PEOM)" EOM processor
2228	(8B4)	ADDRESS	4	MAPJQR	"V(HA$PJQR)" JQE request processor
2232	(8B8)	ADDRESS	4	MAPIRC	"V(HA$PIRC)" INTRDR cleanup processor
2236	(8BC)	ADDRESS	4	MAPDAWN	"V(HA$PDAWN)" DAWN processor
2240	(8C0)	ADDRESS	4	MAPCDCA	"V(HA$PCDC)" Cross-sys Device Communication
2244	(8C4)	ADDRESS	4	MAPDLSA	"V(HA$PDLS)" Deadline scheduling
2248	(8C8)	ADDRESS	4	MAPJOEI	"V(HA$PJOEI)" JOEINDEX processor
2248	(8C8)	X'8CC'	0	MAPLEN	"*-MAP" MODMAP LENGTH

Table 285. Cross Reference for $MODMAP

Name	Offset	Hex Tag
MAP	0	
MAP#J2M	580	59
MAPABS	0	C8C1E25B
MAPACCTA	7B0	
MAPALIA	8AC	
MAPALOCA	7CC	
MAPARM	10	C8C1E2D7
MAPARMO	20	C8C1E2D7
MAPARMSA	894	
MAPASYNA	804	
MAPATTNA	7F0	
MAPBSC	30	C8C1E2D7
MAPCDCA	8C0	
MAPCDYN	40	C8C1E2D7
MAPCFAL	50	C8C1E2D7
MAPCFBF	60	C8C1E2D7
MAPCFDE	70	C8C1E2D7
MAPCFE	80	C8C1E2D7
MAPCFFC	90	C8C1E2D7
MAPCFLE	A0	C8C1E2D7
MAPCFMT	B0	C8C1E2D7
MAPCFQL	C0	C8C1E2D7
MAPCFQU	D0	C8C1E2D7
MAPCFRD	E0	C8C1E2D7
MAPCFRE	F0	C8C1E2D7
MAPCFRL	100	C8C1E2D7
MAPCFRS	110	C8C1E2D7
MAPCFR2	120	C8C1E2D7
MAPCFSI	130	C8C1E2D7
MAPCFT1	140	C8C1E2D7
MAPCFUN	150	C8C1E2D7
MAPCFWP	160	C8C1E2D7
MAPCFWR	170	C8C1E2D7
MAPCKCF	180	C8C1E2D7
MAPCKCFA	7D8	
MAPCKDA	190	C8C1E2D7
MAPCKDAA	7DC	
MAPCKDS	1A0	C8C1E2D7
MAPCKPT	1B0	C8C1E2D7
MAPCKPTA	830	
MAPCKRR	1C0	C8C1E2D7
MAPCKVR	1D0	C8C1E2D7
MAPCKVRA	7E0	
MAPCNVA	7D0	
MAPCNVT	1E0	C8C1E2D7
MAPCNVTA	808	
MAPCOMM	1F0	C8C1E2D7
MAPCOMMA	824	
MAPCON	200	C8C1E2D7

Table 285. Cross Reference for $MODMAP (continued)

Name	Offset	Hex Tag
MAPCSV	210	C8C1E2D7
MAPDAWN	8BC	
MAPDILSA	8A0	
MAPDLSA	8C4	
MAPDYN	220	C8C1E2D7
MAPEMS	7FC	
MAPENFA	8A4	
MAPEOM	8B0	
MAPEVTL	230	C8C1E2D7
MAPEVTLA	864	
MAPEXECA	80C	
MAPEXIT0	790	C8C1E2D7
MAPEXTA	240	C8C1E2D7
MAPFCL	884	
MAPFSSP	250	C8C1E2D7
MAPFSSPA	880	
MAPHCCT	260	C8C1E25B
MAPHOPE	270	C8C1E2D7
MAPHOPEA	818	
MAPIMAGA	7C4	
MAPINIT	280	280
MAPIOAPG	7F8	
MAPIRA	280	C8C1E2D7
MAPIRC	8B8	
MAPIRDA	290	C8C1E2D7
MAPIRMA	2A0	C8C1E2D7
MAPIRPL	2B0	C8C1E2D7
MAPIRRE	2C0	C8C1E2D7
MAPIRSI	2D0	C8C1E2D7
MAPJCMD	888	
MAPJOEI	8C8	
MAPJOS	2E0	C8C1E2D7
MAPJQR	8B4	
MAPJQS	2F0	C8C1E2D7
MAPJXCNT	790	21
MAPJXLEN	790	210
MAPJXMOD	590	C8C1E2D7
MAPLEN	8C8	8CC
MAPMCONA	85C	
MAPMISC	300	C8C1E2D7
MAPMISCA	8A8	
MAPMLLMA	828	
MAPMODS	790	7A
MAPMOD1	0	0
MAPMSG	310	C8C1E2D7
MAPNATS	320	C8C1E2D7
MAPNET	330	C8C1E2D7
MAPNJRA	848	
MAPNJT	340	C8C1E2D7

Table 285. Cross Reference for $MODMAP (continued)

Name	Offset	Hex Tag
MAPNJTA	844	
MAPNPM	350	C8C1E2D7
MAPNPMA	854	
MAPNRM	360	C8C1E2D7
MAPNRMA	858	
MAPNRRA	870	
MAPNRTA	874	
MAPNSR	370	C8C1E2D7
MAPNSRA	850	
MAPNST	380	C8C1E2D7
MAPNSTA	84C	
MAPNUC	390	C8C1E2D7
MAPODSM	3A0	C8C1E2D7
MAPODSMR	7EC	
MAPODSMX	7E8	
MAPOFFA	7D4	
MAPPRIOA	83C	
MAPPRPU	3B0	C8C1E2D7
MAPPRPUA	81C	
MAPPRTYA	838	
MAPPSO	3C0	C8C1E2D7
MAPPSOA	814	
MAPPURGA	820	
MAPPXITA	7F4	
MAPRAS	3D0	C8C1E2D7
MAPRDR	3E0	C8C1E2D7
MAPRDRA	800	
MAPRESMA	878	
MAPRTAM	3F0	C8C1E2D7
MAPSASR	400	C8C1E2D7
MAPSERV	410	C8C1E2D7
MAPSFSRA	87C	
MAPSIR	420	C8C1E2D7
MAPSJFR	430	C8C1E2D7
MAPSNA	440	C8C1E2D7
MAPSNF	898	
MAPSPAST	7BC	
MAPSPI	89C	
MAPSPIN	450	C8C1E2D7
MAPSPINA	834	
MAPSPLA	7B4	
MAPSPMG	7B8	
MAPSPOL	460	C8C1E2D7
MAPSPOLA	86C	
MAPSSRV	470	C8C1E2D7
MAPSTAB	480	C8C1E2D7
MAPSTAC	490	C8C1E2D7
MAPSTACA	810	
MAPSTAM	4A0	C8C1E2D7

Table 285. Cross Reference for $MODMAP (continued)

Name	Offset	Hex Tag
MAPSTUB	4B0	C8C1E2D7
MAPSUBS	4C0	C8C1E2D7
MAPSUBSA	7E4	
MAPSXDV	4D0	C8C1E2D7
MAPSXIT	4E0	C8C1E2D7
MAPSXJB	4F0	C8C1E2D7
MAPSXNJ	500	C8C1E2D7
MAPSXOT	510	C8C1E2D7
MAPTABS	520	C8C1E2D7
MAPTCP	530	C8C1E2D7
MAPTERM	540	C8C1E2D7
MAPTIMEA	82C	
MAPTRAK	550	C8C1E2D7
MAPVTAMA	7C8	
MAPWARM	560	C8C1E2D7
MAPWARMA	840	
MAPWTOA	7C0	
MAPXCF	570	C8C1E2D7
MAPXCFA	88C	
MAPXCMA	890	
MAPXEQ	580	C8C1E2D7
MAPXFRMA	868	
MAPXTIMA	860	

Chapter 131. $MONCB Information

$MONCB Heading Information

Common Name:	Monitor address space control block
Macro ID:	$MONCB
DSECT Name:	MONCB
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	MONB Offset: MNBID Length: L'MNBID
Storage Attributes:	Subpool: 241 Key: 1 Residency: Virtual is in 31 bit storage and real can in in 64 bit storage. The $MONCB resides in common storage.
Size:	See MNBLEN
Created by:	HASCSRJM
Pointed to by:	CCTMONCB field of the HCCT data area JMTMONCB field of the HJCT data area
Serialization:	Only updated by HASCSRJM while running under the JES2 main task.
Function:	This DSECT maps the CSA data associated with the JES2 monitor address address space. It is used during JES2 initialization and termination processing to create and later delete the monitor address space.

$MONCB mapping

Table 286. Structure MONCB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MONCB	, Define DSECT
0	(0)	CHARACTER	4	MNBID	Eyecatcher
4	(4)	ADDRESS	1	MNBVER	Version
4	(4)	X'1'	0	MNBVERN	"1" Current version
5	(5)	BITSTRING	2		Reserved for future use
7	(7)	CHARACTER	1	MNBCOMCH	CONCHAR for termination messages
8	(8)	CHARACTER	8	MNBNAME	Address space name
16	(10)	CHARACTER	8	MNBPROG	PROG= to run the address space
24	(18)	BITSTRING	8	MNBPRTKN	Token for CSVDYLPA DELETE request
32	(20)	BITSTRING	24	MNBODA	ASCRE output area (IHAASEO)
56	(38)	SIGNED	4	MNBECB	Main task wait ECB
60	(3C)	SIGNED	4	MNBWECB	Monitor work ECB
60	(3C)	X'4'	0	MNBWTERM	"4" Monitor TERM post code
60	(3C)	X'8'	0	MNBWJDWN	"8" JES2 address space went down
60	(3C)	X'C'	0	MNBWJUP	"12" JES2 address space came up
MACDATE 12/25/13					
64	(40)	ADDRESS	4	MNBPOST	. 1ST WORD - ECB ADDRESS
68	(44)	ADDRESS	4		. 2ND WORD - ASCB ADDRESS

Table 286. Structure MONCB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
72	(48)	ADDRESS	4		. 3RD WORD - ERRET ADDRESS
76	(4C)	SIGNED	4	MNBJES2A	Alet for JES2 address space
80	(50)	ADDRESS	4	MNBMLMAD	Address of monitor load module
84	(54)	SIGNED	4	MNBMLMLN	Length of monitor load module
88	(58)	ADDRESS	4	MNBMONEP	Entry addr for the monitor code
92	(5C)	ADDRESS	4	MNBHJCT	Address of HJCT in monitor A.S.
96	(60)	ADDRESS	4	MNBCMBQ	Queue of commands from SSI
100	(64)	SIGNED	4	MNBCECB	Command ECB address
104	(68)	ADDRESS	4	MNBMITS	MIT information for monitor
112	(70)	DBL WORD	8	(0)	
112	(70)	X'70'	0	MNBLEN	"*-MONCB" Length of MONCB

Table 287. Structure MNMT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MNMT	, Monitor MIT DSECT
0	(0)	CHARACTER	8	MNMTNAME	Module name
8	(8)	ADDRESS	4	MNMTADDR	Module address
12	(C)	ADDRESS	4	MNMTSIZE	Module length
16	(10)	CHARACTER	8	MNMTDATE	Date of assembly
24	(18)	CHARACTER	5	MNMTTIME	Time of assembly
29	(1D)	BITSTRING	3		Reserved
32	(20)	CHARACTER	8	MNMTAPAR	APAR number from module
40	(28)	CHARACTER	8	MNMTPTF	PTF number from module
40	(28)	X'30'	0	MNMTLEN	"*-MNMT" Length of area
40	(28)	X'A'	0	MNMTCNT	"10" Number of MNMTs to get

Table 288. Cross Reference for $MONCB

Name	Offset	Hex Tag
MNBCECB	64	
MNBCMBQ	60	
MNBCOMCH	7	
MNBECB	38	
MNBHJCT	5C	
MNBID	0	D4D6D5C2
MNBJES2A	4C	
MNBLEN	70	70
MNBMITS	68	
MNBMLMAD	50	
MNBMLMLN	54	
MNBMONEP	58	
MNBNAME	8	D1C5E2F2
MNBODA	20	
MNBPOST	40	
MNBPROG	10	C8C1E291
MNBPRTKN	18	
MNBVER	4	
MNBVERN	4	1

Table 288. Cross Reference for $MONCB (continued)

Name	Offset	Hex Tag
MNBWECB	3C	
MNBWJDWN	3C	8
MNBWJUP	3C	C
MNBWTERM	3C	4
MNMT	0	
MNMTADDR	8	
MNMTAPAR	20	
MNMTCNT	28	A
MNMTDATE	10	
MNMTLEN	28	30
MNMTNAME	0	
MNMTPTF	28	
MNMTSIZE	C	
MNMTTIME	18	
MONCB	0	

Chapter 132. $MSCWORK Information

$MSCWORK Heading Information

Common Name:	JES2 Miscellaneous PCE Work Area
Macro ID:	$MSCWORK
DSECT Name:	PCE ($MSCWORK is part of the PCE DSECT)
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4
Storage Attributes:	Subpool: See $PCE Key: See $PCE Residency: See $PCE
Size:	See symbol MSCPCEWL for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by:	See $PCE
Pointed to by:	The $MISCPCE field of the $HCT data area See $PCE for other pointer fields that apply to all PCE types.
Serialization:	Normal PCE dispatch serialization
Function:	The fields in this work area are used by the JES2 miscellaneous Processor. $MSCWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $MSCWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEMSCID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

$MSCWORK mapping

Table 289. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
320	(140)	BITSTRING	12	MSCTQE	Timer queue element
332	(14C)	BITSTRING	1	MSCFLAG	Misc PCE work flags
		1...		MSCWANTQ	"B'10000000'" PCE needs access to the CKPT
		.1..		MSCNBERT	"B'01000000'" Stop trying to recover PREBERTs
		..1.		MSCBSEQE	"B'00100000'" Dynamic BERT queue sequence error $DISTERR issued
		...1		MSCJGLOG	"B'00010000'" Jobgroup log takeover already processed
333	(14D)	SIGNED	1	MSCJOATY	BERT type for JOAs
334	(14E)	BITSTRING	2		Reserved for future use
336	(150)	DBL WORD	8	MSCPADTM	Time stamp for PAD and Master JQE processing

Table 289. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
344	(158)	DBL WORD	8	MSCMONTM	Time stamp monitor restart
352	(160)	DBL WORD	8	MSCCPLTM	Time stamp $CPOOL contract
	MACRO-DATE = 03/16/15				
360	(168)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
360	(168)	X'168'	0	MSCENQ	"*" X02113
360	(168)	ADDRESS	1		PELLAST flag byte. X02113
361	(169)	ADDRESS	1		PELMILEN - RNAME length.
362	(16A)	BITSTRING	1		
				PELFLAG - flag byte 2.	
363	(16B)	ADDRESS	1		PELRET - return code byte.
364	(16C)	ADDRESS	4		QNAME ADDRESS
368	(170)	ADDRESS	4		RNAME ADDRESS
368	(170)	X'168'	0	MSCENQL	"MSCENQ,*-MSCENQ" Field to reference ENQ MF=L
	MACDATE 12/25/13				
372	(174)	ADDRESS	4	MSCPOST	. 1ST WORD - ECB ADDRESS
376	(178)	ADDRESS	4		. 2ND WORD - ASCB ADDRESS
380	(17C)	ADDRESS	4		. 3RD WORD - ERRET ADDRESS
384	(180)	ADDRESS	4		. 4TH WORD - BYTE0,ECBKEY
392	(188)	DBL WORD	8	(0)	Alignment
392	(188)	X'48'	0	MSCPCEWL	"*-PCEWORK" Length of misc PCE work area

Table 290. Cross Reference for $MSCWORK

Name	Offset	Hex Tag
MSCBSEQE	14C	20
MSCCPLTM	160	
MSCENQ	168	168
MSCENQL	170	168
MSCFLAG	14C	
MSCJGLOG	14C	10
MSCJOATY	14D	
MSCMONTM	158	
MSCNBERT	14C	40
MSCPADTM	150	
MSCPCEWL	188	48
MSCPOST	174	
MSCTQE	140	
MSCWANTQ	14C	80
PCE	0	

Chapter 133. $MSD Information

$MSD Heading Information

Common Name:	Monitor Sampling data
Macro ID:	$MSD
DSECT Name:	MSD
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	MSD Offset: MSDID-MSD Length: L'MSDID
Storage Attributes:	Subpool: 0 Key: 1 Residency: Virtual is in 31 bit storage, real can be in 64 bit storage.
Size:	See MSDLEN
Created by:	HASJSPLR
Pointed to by:	JMTMSD field of the HJCT data area
Serialization:	None
Function:	The MSD maps the sampling data collected by the JES2 monitor subtask.

$MSD mapping

Table 291. Structure MSD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MSD	, Monitor Sampling Data DSECT
0	(0)	CHARACTER	4	MSDID	Eyecatcher
4	(4)	ADDRESS	1	MSDVRSN	Version of data area
4	(4)	X'1'	0	MSDVERSN	"1" Current version number
5	(5)	BITSTRING	3		Reserved
	Limit monitoring data				
8	(8)		1	MSDLTIME	Time of next sample (STCKE)
24	(18)	DBL WORD	8	MSDLINT	Interval to sample (STCK)
32	(20)	ADDRESS	4	MSDLMDA	Address of most recent LMD
36	(24)	SIGNED	4	MSDLMDCT	Count of LMDs
	Main task sampling data				
40	(28)		1	MSDCTIME	Time of last sample (STCKE)
56	(38)	DBL WORD	8	MSDCINT	Interval to sample (STCKE)
56	(38)	X'14'	0	MSDCSPSC	"20" 20 samples per second
56	(38)	X'C350'	0	MSDCSPMC	"1000000/MSDCSPSC" Micro seconds per sample
	"Sampling time" is the time relative to the sampling process. This is maintained using 2 fields. MSDCSCNT is incremented every sample. When MSDCSCNT reaches the number of samples per second, MSDCSTIM is incremented.				
64	(40)	SIGNED	4	MSDCSTIM	"Sampling" time - seconds

Table 291. Structure MSD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
68	(44)	SIGNED	4	MSDCSCNT	"Sampling" time - samples
72	(48)	ADDRESS	4	MSDCBUFS	Address of CPU sample buffer start
76	(4C)	ADDRESS	4	MSDCBUFE	Address of CPU sample buffer end(+1)
80	(50)	ADDRESS	4	MSDCBUFC	Current (last used) CPU sample rec
84	(54)	ADDRESS	4	MSDCBUFA	Alternate sampling buffer

Table 292. Structure MSDCSD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MSDCSD	, Limit monitoring data
0	(0)	BITSTRING	16	MSDCSD_TIME	Time sample taken
16	(10)	SIGNED	4	MSDCSD_ADDR	PSW addr (Main task PRB)
20	(14)	SIGNED	4	MSDCSD_CRB_ADR	PSW addr (Current RB)
24	(18)	CHARACTER	8	MSDCSD_MOD	Module name and offset
32	(20)	SIGNED	4	MSDCSD_OFFSET	(calculated at report time)
36	(24)	ADDRESS	4	MSDCSD_PCE	Current PCE address
40	(28)	CHARACTER	8	MSDCSD_JOB	JOBID or JQE index
48	(30)	BITSTRING	1	MSDCSD_EXIT	Current exit number
49	(31)	BITSTRING	1	MSDCSD_TYPE	Sample type
49	(31)	X'1'	0	MSDCSD_TY_WAIT	"1" At main task WAIT
49	(31)	X'2'	0	MSDCSD_TY_WTOT	"2" Other MVS WAIT
49	(31)	X'3'	0	MSDCSD_TY_WLOK	"3" Waiting for local lock
49	(31)	X'4'	0	MSDCSD_TY_WNDS	"4" Not dispatchable
49	(31)	X'5'	0	MSDCSD_TY_WPGE	"5" Paging wait
49	(31)	X'6'	0	MSDCSD_TY_DMVS	"6" MVS dispatch
50	(32)	BITSTRING	2	MSDCSD_SVC	JES2 PRB interrupt code
52	(34)	ADDRESS	4	MSDCSD_TRAN	RBRTRAN of current RB
56	(38)	DBL WORD	8	(0)	Align
56	(38)	X'38'	0	MSDCSD_LEN	"*-MSDCSD" Length of entry
56	(38)	BITSTRING	0	MSDCSD_COUNT	"X'5000'" Number of CPU samples to collect

Table 293. Structure MSD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MSD	, Return to MSD
		Loop detection fields. The longer we are in a potential loop, the higher MSDCLCNT will get.			
88	(58)	DBL WORD	8	MSDCLTOT	Average sum
96	(60)	SIGNED	4	MSDCLCNT	Address count
100	(64)	ADDRESS	4	MSDCLAVG	Average CPU address
104	(68)		1	MSDCLTIM	Loop start time (STCKE)
104	(68)	X'58'	0	MSDCLOPD	"MSDCLTOT,*-MSDCLTOT" Aggregate loop det fields
		Pointer to copy of JES2 error counts. Copied from JES2 each time a new LMD is obtained.			

Table 293. Structure MSD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
120	(78)	ADDRESS	4	MSDECOPA	Address of error counts
124	(7C)	BITSTRING	4		Reserved

Table 294. Structure MSDERELE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MSDERELE	, Mapping of an error element
0	(0)	SIGNED	4	MSDERCNT	Count of errors
0	(0)	X'4'	0	MSDER_LN	"*-MSDERELE" Length of entry

Table 295. Structure MSD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MSD	, Return to MSD
	Wait timing fields. The longer we are at a wait the higher MSDWSMPL will get. The type of wait is in MSDETYPE.				
128	(80)		1	MSDWSTCK	Time event started (STCKE)
144	(90)	ADDRESS	4	MSDWADDR	Address of wait (from RB)
148	(94)	SIGNED	4	MSDWSMPL	Samples at current wait
148	(94)	X'80'	0	MSDWDETD	"MSDWSTCK,*-MSDWSTCK" Aggregate wait det fields
152	(98)		1	MSDLPCED	Last PCE dispatch time
168	(A8)	BITSTRING	8	MSDLPNAM	Last PCE dispatch name
176	(B0)	BITSTRING	1	MSDLPCID	Last PCE dispatch ID
	Most recent sample type. See MSDCSD_TYPE for values				
177	(B1)	BITSTRING	1	MSDETYPE	Sample type
178	(B2)	BITSTRING	6		Reserved
	CPU starvation fields. If the main task is not being dispatched, these fields will indicate it.				
184	(B8)	DBL WORD	8	MSDCSTTM	Last updated TCBTTIME
192	(C0)	BITSTRING	16	MSDCSCLK	STCK time when MSDCSTTM set
208	(D0)	DBL WORD	8	(0)	
208	(D0)	X'D0'	0	MSDLEN	"*-MSD" Length of MSD

Table 296. Structure LMD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	LMD	, Limit control block
0	(0)	CHARACTER	4	LMDID	Eyecatcher
4	(4)	ADDRESS	4	LMDNEXT	Address of next LMD
8	(8)	BITSTRING	16	LMDSTCK	Time LMD was created
24	(18)	SIGNED	4	LMDCNT	Count of samples included
28	(1C)	SIGNED	4		Reserved
32	(20)	DBL WORD	8	LMD_1ST(0)	Start of limit data
32	(20)	BITSTRING	48	LMD_BERT	Limit data for BERT

Table 296. Structure LMD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
80	(50)	BITSTRING	48	LMD_BSCB	Limit data for BSCB
128	(80)	BITSTRING	48	LMD_BUFX	Limit data for BUFX
176	(B0)	BITSTRING	48	LMD_CKVR	Limit data for CKVR
224	(E0)	BITSTRING	48	LMD_CMBS	Limit data for CMBS
272	(110)	BITSTRING	48	LMD_CMDS	Limit data for CMDS
320	(140)	BITSTRING	48	LMD_ICES	Limit data for ICES
368	(170)	BITSTRING	48	LMD_JNUM	Limit data for JNUM
416	(1A0)	BITSTRING	48	LMD_JOES	Limit data for JOES
464	(1D0)	BITSTRING	48	LMD_JQES	Limit data for JQES
512	(200)	BITSTRING	48	LMD_LBUF	Limit data for LBUF
560	(230)	BITSTRING	48	LMD_NHBS	Limit data for NHBS
608	(260)	BITSTRING	48	LMD_SMFB	Limit data for SMFB
656	(290)	BITSTRING	48	LMD_TBUF	Limit data for TBUF
704	(2C0)	BITSTRING	48	LMD_TGS	Limit data for TGS
752	(2F0)	BITSTRING	48	LMD_TTAB	Limit data for TTAB
800	(320)	BITSTRING	1	LMD_VTMB	Limit data for VTMB
800	(320)	X'11'	0	LMD_NUM	"(*-LMD_1ST)/LMDELE_LEN" Number of elements
	CPU sampling information				
848	(350)	SIGNED	4	LMDCSAMP	Count of CPU samples
852	(354)	SIGNED	4	LMDCS_ACT	Active sample count
856	(358)	SIGNED	4	LMDCS_DMVS	Waiting to be dispatched
860	(35C)	SIGNED	4	LMDCS_IDLE	Idle sample count
864	(360)	SIGNED	4	LMDCS_WAIT	Wait sample count
868	(364)	SIGNED	4	LMDCS_LLOK	Local lock sample count
872	(368)	SIGNED	4	LMDCS_NDSP	Non-dispatchable count
876	(36C)	SIGNED	4	LMDCS_PAGE	Page wait sample count
	Storage monitoring information				
880	(370)	SIGNED	4	LMDSSAMP	Count of storage samples
884	(374)	SIGNED	4	LMDSRGN	<16M region size
888	(378)	SIGNED	4	LMDSERGN	>16M region size
892	(37C)	BITSTRING	40	LMDSS_URGN	<16M user region info
932	(3A4)	BITSTRING	40	LMDSS_SRGN	<16M system region info
972	(3CC)	BITSTRING	40	LMDSS_EURGN	>16M user region info
1012	(3F4)	BITSTRING	1	LMDSS_ESRGN	>16M system region info
1012	(3F4)	X'4'	0	LMDSSNUM	"(*-LMDSS_URGN)/LMDSSE_LEN" Number of entries
	Error count information				
1052	(41C)	SIGNED	4	LMDES_ENT	Number of entries
1056	(420)	SIGNED	4	LMDES_FST(0)	Start of error data
1056	(420)	X'420'	0	LMD_SIZE	"*-LMD" Size of fixed portion LMD

Table 297. Structure LMDESELE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	LMDESELE	, Error information element
0	(0)	CHARACTER	8	LMDESELE_NAME	Error name
8	(8)	SIGNED	4	LMDESELE_COUNT	Current error count

Table 297. Structure LMDESELE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
12	(C)	ADDRESS	1	LMDESELE_CATGR	Error category
13	(D)	BITSTRING	3		Reserved for future use
16	(10)	SIGNED	4	(0)	Align
16	(10)	X'10'	0	LMDESELE_LEN	"*-LMDESELE" Length of one entry

Table 298. Structure LMDELE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	LMDELE	, Limit monitoring data
0	(0)	CHARACTER	8	LMDELE_NAME	Resource name
8	(8)	SIGNED	4	LMDELE_LIMIT	Current upper limit
12	(C)	SIGNED	4	LMDELE_INUSE	Current number in use
16	(10)	SIGNED	4	LMDELE_LOW	Low usage value
20	(14)	SIGNED	4	LMDELE_HIGH	High usage value
24	(18)	SIGNED	2	LMDELE_WARN	WARN= value for resource (zero if none)
26	(1A)	BITSTRING	1	LMDELE_FLG1	Flag bytes
		1...		LMDELE_F1OVER	"B'10000000'" Usage over warn level
27	(1B)	SIGNED	1		Reserved
28	(1C)	SIGNED	4	LMDELE_OVER	Count of samples over warn level (HASP050 needed)
32	(20)	SIGNED	4	LMDELE_AVERAGE	Average in use value
40	(28)	DBL WORD	8	LMDELE_TOTAL	Total count (for average)
48	(30)	DBL WORD	8	(0)	Align
48	(30)	X'30'	0	LMDELE_LEN	"*-LMDELE" Length of monitor data

Table 299. Structure LMDSSE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	LMDSSE	, Limit monitoring data
0	(0)	CHARACTER	12	LMDSSE_NAME	Area name
12	(C)	SIGNED	4	LMDSSE_REGION	Region size
16	(10)	SIGNED	4	LMDSSE_USE	Current area usage
20	(14)	SIGNED	4	LMDSSE_LOW	Low usage value
24	(18)	SIGNED	4	LMDSSE_HIGH	High usage value
28	(1C)	SIGNED	4	LMDSSE_AVERAGE	Average in use value
32	(20)	DBL WORD	8	LMDSSE_TOTAL	Total count (for average)
40	(28)	DBL WORD	8	(0)	Align
40	(28)	X'28'	0	LMDSSE_LEN	"*-LMDSSE" Length of monitor data

Table 300. Structure MWT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MWT	, MVS wait records
0	(0)	BITSTRING	16	MWTSTCK	Time of most recent sample
16	(10)	ADDRESS	4	MWTADDR	Address of wait (from RB)
20	(14)	SIGNED	4	MWTWCNT	Count of waits detected

Table 300. Structure MWT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
24	(18)	CHARACTER	8	MWTNAME	Module name from wait
32	(20)	SIGNED	4	MWTOFFS	Offset of wait in module
36	(24)	SIGNED	4	MWTSCNT	Count of matching samples
		MWTEXIT is exit number in control at the time of the wait if MWTFXITC is set. If multiple exits, then MWTEXIT is zero. MWTPCEID is PCE ID that was in control. MWTPCEID is zero if multiple.			
40	(28)	BITSTRING	1	MWTEXIT	Exit for wait (if MWTFXITC on)
41	(29)	BITSTRING	1	MWTPCEID	PCE ID for wait
42	(2A)	BITSTRING	1	MWTFLAGS	General flag byte
		1...		MWTFXITC	"B'10000000'" Wait while exit in control
		.1..		MWTFJESC	"B'01000000'" Wait while JES2 in control
		..1.		MWTFINIT	"B'00100000'" Wait during intialization
		...1		MWTFTERM	"B'00010000'" Wait during ABEND/TERM
43	(2B)	BITSTRING	1		Reserved
44	(2C)	CHARACTER	8	MWTPCENM	Name of PCE (or MULTIPLE)
52	(34)	SIGNED	4	(3)	Reserved
52	(34)	X'40'	0	MWTLEN	"*-MWT" Length of wait mapping
52	(34)	BITSTRING	0	MWTSIZE	"X'3000'" Size of wait mapping area

Table 301. Structure MWTHDR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MWTHDR	, MVS wait record header
0	(0)	CHARACTER	4	MWTHID	Eyecatcher
4	(4)	ADDRESS	4	MWTHCUR	Current MWT
8	(8)	BITSTRING	16	MWTHLTIM	Candidate reuse time
24	(18)	ADDRESS	4	MWTHLADR	and address
28	(1C)	SIGNED	4	(3)	Reserved
28	(1C)	X'28'	0	MWTHLEN	"*-MWTHDR" Header length

Table 302. Structure PRBM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PRBM	, Probe message work area
0	(0)	CHARACTER	4	PRBMID	Eyecatcher
4	(4)	ADDRESS	4	PRBMNEXT	Next PRBM for this type
8	(8)	BITSTRING	16	PRBMSTRT	Time condition started
24	(18)	BITSTRING	16	PRBMSTCK	Last time message issued
40	(28)	SIGNED	4	PRBMSPLC	Sampler "time" of track
44	(2C)	SIGNED	4	PRBMDATA	Probe related data
48	(30)	BITSTRING	1	PRBMFLAG	Flags used by Probes
		1...		PRBMFVAL	"B'10000000'" PRBM has been validated

Table 302. Structure PRBM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		PRBMUDUR	"B'01000000'" Update duration in line 2
		..1.		PRBMUSTA	"B'00100000'" Update PCE/EXIT/JOB
		...1		PRBMUCMD	"B'00010000'" Update current command
		.... 1...		PRBMNAGR	"B'00001000'" Normal interval for alert
		.... .1..		PRBMNAGO	"B'00000100'" Slow interval for alerts
		.... ..1.		PRBMFPCE	"B'00000010'" Fixed PCE address
52	(34)	SIGNED	4	PRBMDOM	DOM id for message (0 if pending)
56	(38)	ADDRESS	2	PRBMTXL1	Line 1 message length
58	(3A)	CHARACTER	71	PRBMTXT1	and message text
58	(3A)	X'3F'	0	PRBMMID	"PRBMTXT1+5,4,C'C'" Message id from text
130	(82)	ADDRESS	2	PRBMTXL2	Line 2 message length
132	(84)	CHARACTER	71	PRBMTXT2	and message text
204	(CC)	ADDRESS	2	PRBMTXL3	Line 3 message length
206	(CE)	CHARACTER	71	PRBMTXT3	and message text
278	(116)	ADDRESS	2	PRBMTXL4	Line 4 message length
280	(118)	CHARACTER	71	PRBMTXT4	and message text
352	(160)	DBL WORD	8	(0)	Alignment
352	(160)	X'160'	0	PRBMLEN	"*-PRBM" Length of message area

Table 303. Cross Reference for $MSD

Name	Offset	Hex Tag
LMD	0	
LMD_BERT	20	
LMD_BSCB	50	
LMD_BUFX	80	
LMD_CKVR	B0	
LMD_CMBS	E0	
LMD_CMDS	110	
LMD_ICES	140	
LMD_JNUM	170	
LMD_JOES	1A0	
LMD_JQES	1D0	
LMD_LBUF	200	
LMD_NHBS	230	
LMD_NUM	320	11
LMD_SIZE	420	420
LMD_SMFB	260	
LMD_TBUF	290	
LMD_TGS	2C0	
LMD_TTAB	2F0	
LMD_VTMB	320	
LMD_1ST	20	
LMDCNT	18	

Table 303. Cross Reference for $MSD (continued)

Name	Offset	Hex Tag
LMDCS_ACT	354	
LMDCS_DMVS	358	
LMDCS_IDLE	35C	
LMDCS_LLOK	364	
LMDCS_NDSP	368	
LMDCS_PAGE	36C	
LMDCS_WAIT	360	
LMDCSAMP	350	
LMDELE	0	
LMDELE_AVERAGE	20	
LMDELE_FLG1	1A	
LMDELE_F1OVER	1A	80
LMDELE_HIGH	14	
LMDELE_INUSE	C	
LMDELE_LEN	30	30
LMDELE_LIMIT	8	
LMDELE_LOW	10	
LMDELE_NAME	0	
LMDELE_OVER	1C	
LMDELE_TOTAL	28	
LMDELE_WARN	18	
LMDES_ENT	41C	
LMDES_FST	420	
LMDESELE	0	
LMDESELE_CATGR	C	
LMDESELE_COUNT	8	
LMDESELE_LEN	10	10
LMDESELE_NAME	0	
LMDID	0	D3D4C440
LMDNEXT	4	
LMDSERGN	378	
LMDSRGN	374	
LMDSS_ESRGN	3F4	
LMDSS_EURGN	3CC	
LMDSS_SRGN	3A4	
LMDSS_URGN	37C	
LMDSSAMP	370	
LMDSSE	0	
LMDSSE_AVERAGE	1C	
LMDSSE_HIGH	18	
LMDSSE_LEN	28	28
LMDSSE_LOW	14	
LMDSSE_NAME	0	
LMDSSE_REGION	C	
LMDSSE_TOTAL	20	
LMDSSE_USE	10	
LMDSSNUM	3F4	4
LMDSTCK	8	
MSD	0	

Table 303. Cross Reference for $MSD (continued)

Name	Offset	Hex Tag
MSD	0	
MSD	0	
MSDCBUFA	54	
MSDCBUFC	50	
MSDCBUFE	4C	
MSDCBUFS	48	
MSDCINT	38	
MSDCLAVG	64	
MSDCLCNT	60	
MSDCLOPD	68	58
MSDCLTIM	68	
MSDCLTOT	58	
MSDCSCLK	C0	
MSDCSCNT	44	
MSDCSD	0	
MSDCSD_ADDR	10	
MSDCSD_COUNT	38	5000
MSDCSD_CRB_ADR	14	
MSDCSD_EXIT	30	
MSDCSD_JOB	28	
MSDCSD_LEN	38	38
MSDCSD_MOD	18	
MSDCSD_OFFSET	20	
MSDCSD_PCE	24	
MSDCSD_SVC	32	
MSDCSD_TIME	0	
MSDCSD_TRAN	34	
MSDCSD_TY_DMVS	31	6
MSDCSD_TY_WAIT	31	1
MSDCSD_TY_WLOK	31	3
MSDCSD_TY_WNDS	31	4
MSDCSD_TY_WPGE	31	5
MSDCSD_TY_WTOT	31	2
MSDCSD_TYPE	31	
MSDCSPMC	38	C350
MSDCSPSC	38	14
MSDCSTIM	40	
MSDCSTTM	B8	
MSDCTIME	28	
MSDECOPA	78	
MSDER_LN	0	4
MSDERCNT	0	
MSDERELE	0	
MSDETYPE	B1	
MSDID	0	D4E2C440
MSDLEN	D0	D0
MSDLINT	18	
MSDLMDA	20	
MSDLMDCT	24	

Table 303. Cross Reference for $MSD (continued)

Name	Offset	Hex Tag
MSDLPCED	98	
MSDLPCID	B0	
MSDLPNAM	A8	
MSDLTIME	8	
MSDVERSN	4	1
MSDVRSN	4	
MSDWADDR	90	
MSDWDETD	94	80
MSDWSMPL	94	
MSDWSTCK	80	
MWT	0	
MWTADDR	10	
MWTEXIT	28	
MWTFINIT	2A	20
MWTFJESC	2A	40
MWTFLAGS	2A	
MWTFTERM	2A	10
MWTFXITC	2A	80
MWTHCUR	4	
MWTHDR	0	
MWTHID	0	D4E6E340
MWTHLADR	18	
MWTHLEN	1C	28
MWTHLTIM	8	
MWTLEN	34	40
MWTNAME	18	
MWTOFFS	20	
MWTPCEID	29	
MWTPCENM	2C	
MWTSCNT	24	
MWTSIZE	34	3000
MWTSTCK	0	
MWTWCNT	14	
PRBM	0	
PRBMDATA	2C	
PRBMDOM	34	
PRBMFLAG	30	
PRBMFPCE	30	2
PRBMFVAL	30	80
PRBMID	0	
PRBMLEN	160	160
PRBMMID	3A	3F
PRBMNAGO	30	4
PRBMNAGR	30	8
PRBMNEXT	4	
PRBMSPLC	28	
PRBMSTCK	18	
PRBMSTRT	8	
PRBMTXL1	38	

Table 303. Cross Reference for $MSD (continued)

Name	Offset	Hex Tag
PRBMTXL2	82	
PRBMTXL3	CC	
PRBMTXL4	116	
PRBMTXT1	3A	
PRBMTXT2	84	
PRBMTXT3	CE	
PRBMTXT4	118	
PRBMUCMD	30	10
PRBMUDUR	30	40
PRBMUSTA	30	20

Chapter 134. $MTQH Information

$MTQH Heading Information

Common Name:	Main Task Queue Header
Macro ID:	$MTQH
DSECT Name:	MTQH
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	MTQH Offset: MTQHID-MTQH Length: L'MTQHID
Storage Attributes:	Subpool: 241 (CSA, not fetch protected) Key: 1 Residency: anywhere
Size:	See MTQHSIZE
Created by:	Users of $RQUE services
Pointed to by:	CCTPJCLQ field of the $HCCT data area CCTSAPIQ field of the $HCCT data area CCTPSOQ field of the $HCCT data area
Serialization:	Serialization is controlled through the $RQUE service. Refer to the line comments for details about specific fields.
Function:	Represents a queue of requests for a main task service. Used in conjunction with the $RQUE services.

$MTQH mapping

Table 304. Structure MTQH

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MTQH	
		The following fields are set by the creator of the MTQH. They cannot be altered after the MTQH is created.			
0	(0)	CHARACTER	4	MTQHID	Data area identifier
4	(4)	SIGNED	2	MTQHLEN	Length of MTQH
6	(6)	BITSTRING	1	MTQHVER	Version number
6	(6)	X'1'	0	MTQHCVER	"1" Current version number
7	(7)	BITSTRING	1	MTQHRSC	JES2 resource to post to have a request processed ($DRxxxx value)
		Number of MTRBs in various stages of processing on FIFO and active chains			
8	(8)	SIGNED	4	MTQHREQN	Nr of MTRBs to process SERIALIZATION: none, main task only
		The following fields are internal to the $RQUE services.			

Table 304. Structure MTQH (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
12	(C)	BITSTRING	8	MTQHPEND(0)	Pending work queues
12	(C)	ADDRESS	4	MTQHLIFO	Address of first LIFO MTRB SERIALIZATION: compare and swap
16	(10)	ADDRESS	4	MTQHFIFO	Address of first FIFO MTRB SERIALIZATION: none, changed by main task only
20	(14)	ADDRESS	4	MTQHACT	Address of first active MTRB SERIALIZATION: none, changed by main task only
20	(14)	X'18'	0	MTQHSIZE	"*-MTQH" Length of MTQH

Table 305. Cross Reference for $MTQH

Name	Offset	Hex Tag
MTQH	0	
MTQHACT	14	
MTQHCVER	6	1
MTQHFIFO	10	
MTQHID	0	D4E3D8C8
MTQHLEN	4	
MTQHLIFO	C	
MTQHPEND	C	
MTQHREQN	8	
MTQHRSC	7	
MTQHSIZE	14	18
MTQHVER	6	

Chapter 135. $MTRB Information

$MTRB Heading Information

Common Name:	Main Task Request Block
Macro ID:	$MTRB
DSECT Name:	MTRB
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	MTRB Offset: MTRBID-MTRB Length: L'MTRBID
Storage Attributes:	Subpool: 231 (subpool used by $GETCEL) Key: 1 Residency: anywhere
Size:	See MTRBSIZE
Created by:	Users of $RQUE services
Pointed to by:	the MTRBNEXT field of the MTRB data area the MTQHLIFO, MTQHFIFO, and MTQHACT fields of the MTQH data area the SAPMTRB field of the $SAPID data area the PSOMTRB field of the $PSO data area
Serialization:	Serialization is controlled through the $RQUE service. SSI and main task callers have the following access to an MTRB: SSI caller: The caller has exclusive control of the MTRB before and after the call to the EXE function. If the caller is abended while within the EXE function, the caller's recovery routine is obligated to call the CMP function to wait for the request to complete before using or freeing the MTRB. Main task caller: The caller has exclusive control of the MTRB that is returned by the GET function. The caller gives up control of the MTRB when invoking the RET function.
Function:	Represents a request for a main task service. Used in conjunction with the $RQUE services.

$MTRB mapping

Table 306. Structure MTRB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MTRB	
		The following fields can be used by callers of the $RQUE services.			
0	(0)	SIGNED	4	MTRBCCE	Address of cell control element if storage for MTRB was obtained using $GETCEL service, else 0
4	(4)	CHARACTER	4	MTRBID	Data area identifier
8	(8)	SIGNED	2	MTRBLEN	Length of MTRB

Table 306. Structure MTRB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
10	(A)	BITSTRING	1	MTRBVER	Version number
10	(A)	X'2'	0	MTRBCVER	"2" Current version number
11	(B)	BITSTRING	1	MTRBRSV1	Reserved for future use
12	(C)	ADDRESS	4	MTRBPARM	Address of request-specific control block
16	(10)	CHARACTER	4	MTRBPID	Identifier of request-specific control block
20	(14)	SIGNED	4	MTRBRC	Return code
24	(18)	CHARACTER	4	MTRBRSV2	Reserved for future use
		The following fields are internal to the $RQUE services.			
28	(1C)	ADDRESS	4	MTRBQUE	Address of queue header (helps locating queue in a dump)
32	(20)	ADDRESS	4	MTRBNEXT	Address of next MTRB on queue
36	(24)	SIGNED	4	MTRBECB	ECB for $XMPOST
40	(28)	BITSTRING	1	MTRBFLG1	Flags SERIALIZATION: None.
40	(28)	X'1'	0	MTRB1WFC	"1" SSI must wait for completion
41	(29)	BITSTRING	7	MTRBRSV3	Reserved for future use
48	(30)	BITSTRING	8	MTRBASCT	Address space token
56	(38)	DBL WORD	8	MTRBSTCK	Time MTRB was queued
56	(38)	X'40'	0	MTRBSIZE	"*-MTRB" Length of MTRB

Table 307. Cross Reference for $MTRB

Name	Offset	Hex Tag
MTRB	0	
MTRBASCT	30	
MTRBCCE	0	
MTRBCVER	A	2
MTRBECB	24	
MTRBFLG1	28	
MTRBID	4	D4E3D9C2
MTRBLEN	8	
MTRBNEXT	20	
MTRBPARM	C	
MTRBPID	10	
MTRBQUE	1C	
MTRBRC	14	
MTRBRSV1	B	
MTRBRSV2	18	
MTRBRSV3	29	
MTRBSIZE	38	40
MTRBSTCK	38	
MTRBVER	A	
MTRB1WFC	28	1

Chapter 136. $MWE Information

$MWE Heading Information

Common Name: HASP Monitor Work Element
Macro ID: $MWE
DSECT Name: MWE
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'MWE '
Offset: MWEID-MWE
Length: 4
Storage Attributes: Subpool: 129
Key: 1
Residency: Virtual is in 31 bit storage and real can be in 64 bit storage. The $MWEs reside in the JES2 monitor address space.

Size: Each MWE is 16K bytes long.
Created by: Monitor initialization processing.
Pointed to by: - The TCBBDT field of the MVS TCB control block for the associated monitor address space subtask.
- The MWENEXT pointer in the MWE data area
- The JMTMWE pointer in the HJCT data area
- General register 13 when executing code in the 'MONITOR' execution environment.
Serialization: None required
Function: The MWE contains data specific to a JES2 monitor subtask. It is also used to communicate data between the monitor main task and the subtasks.

$MWE mapping

Table 308. Structure MWE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MWE	, Monitor Work Element DSECT
0	(0)	CHARACTER	4	MWEID(0)	MWE control block identifier
0	(0)	BITSTRING	1	(0)	Available save area
168	(A8)	ADDRESS	4	MWENEXT	Address of next MWE on chain
172	(AC)	CHARACTER	8	MWENAME	Name of the monitor task
180	(B4)	CHARACTER	8	MWEEPNM	Entry point name
188	(BC)	ADDRESS	4	MWECODE	Address of the support code
Status information for this elements					
192	(C0)	CHARACTER	12	MWESTAT	Current status of task
204	(CC)	CHARACTER	24	MWEALERT	Any error alerts for this task
228	(E4)	BITSTRING	1	MWECFLAG	Common status flags
		1...		MWECFJ2D	"B'10000000'" Task knows JES2 is down
229	(E5)	BITSTRING	3		Reserved

Table 308. Structure MWE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		MWETECB is the ECB passed to ATTACHX that is posted when the task terminates MWEECB is the ECB the task waits on when it is not processing work			
232	(E8)	SIGNED	4	MWETECB	Termination ECB address
236	(EC)	SIGNED	4	MWEWECB	Communication ECB address
240	(F0)	ADDRESS	4	MWETCB	TCB address
244	(F4)	ADDRESS	4	MWEHJCT	HCJT address
248	(F8)	DBL WORD	8	MWEDWORK	Work area (used by subroutines)
256	(100)	DBL WORD	8	MWEDWRK2	Work area (used by subroutines)
264	(108)	BITSTRING	16	MWEWRK16	Work area (used by subroutines)
280	(118)	BITSTRING	16	MWEQWORD	Quad word work area
296	(128)	CHARACTER	128	MWEWTOW	WTO work area (used by subroutines)
424	(1A8)	DBL WORD	8	MWEMFLS(0)	MF=L work areas
		MACDATE 05/30/98			
424	(1A8)	SIGNED	4	(0)	
424	(1A8)	BITSTRING	28		
424	(1A8)	SIGNED	4	(0)	
424	(1A8)	ADDRESS	1		FLAGS FOR ESTAEX
425	(1A9)	ADDRESS	1		SECOND FLAG BYTE
426	(1AA)	ADDRESS	1		THIRD FLAG BYTE
427	(1AB)	ADDRESS	1		VERSION NUMBER
428	(1AC)	ADDRESS	4		TOKEN VALUE AREA
432	(1B0)	ADDRESS	4		PARM. LIST ADDR. NOT SPECIFIED
436	(1B4)	ADDRESS	4		ALET FOR PARM LIST
440	(1B8)	ADDRESS	4		FOUR BYTE EXIT ADDR
		MACDATE 02/15/04			
424	(1A8)	SIGNED	4	(0)	
424	(1A8)	BITSTRING	28		
452	(1C4)	SIGNED	4	(20)	Reserved
536	(218)	DBL WORD	8	MWEDATA(0)	Local data area origin
536	(218)	X'4000'	0	MWESIZE	"16384" Length of an MWE

Table 309. Cross Reference for $MWE

Name	Offset	Hex Tag
MWE	0	
MWEALERT	CC	
MWECFJ2D	E4	80
MWECFLAG	E4	
MWECODE	BC	
MWEDATA	218	
MWEDWORK	F8	
MWEDWRK2	100	
MWEEPNM	B4	
MWEHJCT	F4	
MWEID	0	
MWEMFLS	1A8	

Table 309. Cross Reference for $MWE (continued)

Name	Offset	Hex Tag
MWENAME	AC	
MWENEXT	A8	
MWEQWORD	118	
MWESIZE	218	4000
MWESTAT	C0	
MWETCB	F0	
MWETECB	E8	
MWEWECB	EC	
MWEWRK16	108	
MWEWTOW	128	

Chapter 137. $NAT Information

$NAT Programming Interface Information

The following field is **NOT** programming interface information:

- NATNTQ

$NAT Heading Information

Common Name:	Nodes Attached Table Element
Macro ID:	$NAT
DSECT Name:	NAT
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	None
Storage Attributes:	Subpool: n/a Key: 1 Residency: In the jesxNAT data space in cpool SAPID
Size:	See NATNATL for NAT NATNTQL for NTQ NATNATPL for NATP
Created by:	$NATADD (NATs) HASPCOMM (NTQs) HASPNPM (NATPs)
Pointed to by:	MDCTNATP field of the DCT data area MDCTNPCH field of the DCT data area NATNEXT field of the NAT data area NATPREV field of the NAT data area NATPCHAN field of the NAT data area NATPNEXT field of the NAT data area NATPDNXT field of the NAT data area NATSCHAN field of the NAT data area NATNATP field of the NAT data area NATNTQ field of the NAT data area NITNAT field of the NIT data area NTKNAT field of the NTK data area PCTNATAT field of the PCT data area PCTNATAH field of the PCT data area PCTNATUT field of the PCT data area PCTNATUH field of the PCT data area PCTNATHT field of the PCT data area PCTNATHH field of the PCT data area PCTNATNH field of the PCT data area PCTNATNH field of the PCT data area
Serialization:	NTQs and NATPs are serialized by normal JES2 PCE serialization. When a NAT that was created by $NATADD is updated, then PCT1NTUP must be set.
Function:	The NAT describes the connections that currently exist or have once existed between nodes in a network. It also maps the NTQ and the NATP which are special purpose NATs.

$NAT mapping

Table 310. Structure NAT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NAT	
0	(0)	X'1'	0	NATVERN	"1" Version number of the NAT
0	(0)	BITSTRING	8	NATID(0)	UNIQUE NAT IDENTIFICATION
0	(0)	ADDRESS	3	NATPRI(0)	PRIMARY NODE ID
0	(0)	SIGNED	2	NATPRIN	PRIMARY NODE NUMBER
2	(2)	BITSTRING	1	NATPRIQ	PRIMARY NODE QUALIFIER
3	(3)	BITSTRING	1		RESERVED FOR FUTURE USE
4	(4)	ADDRESS	3	NATSEC(0)	SECONDARY NODE ID
4	(4)	SIGNED	2	NATSECN	SECONDARY NODE NUMBER
6	(6)	BITSTRING	1	NATSECQ	SECONDARY NODE QUALIFIER
7	(7)	BITSTRING	1		RESERVED FOR FUTURE USE
8	(8)	BITSTRING	1	NATNTYPE	TYPE OF NAT
		1...		NATNTNAT	"B'10000000'" REAL NAT ELEMENT
		.1..		NATNTNTQ	"B'01000000'" TEMPORARY NAT (NTQ)
		..1.		NATNTNPT	"B'00100000'" Temporary MAS connection NATP (used during signon validation)
		...1		NATNTNTP	"B'00010000'" Permanent MAS connection NATP(used after signon)
9	(9)	BITSTRING	1	NATTYPE	Type of NAT element
		1...		NATTSTAT	"B'10000000'" NAT is a static connect
		.1..		NATTPM	"B'01000000'" NAT is specifically defined as a PATHMGR=YES connect
		..1.		NATTPMNO	"B'00100000'" NAT is specifically defined as a PATHMGR=NO connect
		...1		NATTPMDE	"B'00010000'" NTQ is specifically defined as a PATHMGR=RESET connect
		.... 1...		NATTPRIV	"B'00001000'" NAT is a private connect
		.... .1..		NATTUNRE	"B'00000100'" NAT is a unreachable
		.... ..1.		NATTADJ	"B'00000010'" NAT is adjacent to this node and member
10	(A)	ADDRESS	2	NATREST	RESISTANCE OF CONNECTION
12	(C)	ADDRESS	4	NATEVNT	EVENT SEQUENCE
16	(10)	SIGNED	4		Reserved for future use
20	(14)	SIGNED	4	NATECOM(0)	End of common section
Node Attached Table unique Fields					
20	(14)	BITSTRING	1	NATSTATE	Current state of active NAT
		1...		NATSUMAX	"B'10000000'" NAT is unreachable due to $MAXREST
		.1..		NATSINUS	"B'01000000'" NAT is currently in use in some path
		..1.		NATSURCH	"B'00100000'" Static NAT with both nodes not connected

Table 310. Structure NAT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		NATSPEND	"B'00010000'" Adjacent static NAT has no active line
		.... 1...		NATSXTRA	"B'00001000'" NAT is not currently used in any path
21	(15)	BITSTRING	1	NATNSTAT	New state of the NAT (set by full path processing)
22	(16)	BITSTRING	2		Reserved for future use
24	(18)	ADDRESS	4	NATNEXT	Addr of next NAT on cur que
28	(1C)	ADDRESS	4	NATPREV	Addr of prev NAT on cur que
32	(20)	ADDRESS	4	NATPCHAN	Prim chain of NATs from NIT
36	(24)	ADDRESS	4	NATSCHAN	Sec chain of NATs from NIT
40	(28)	ADDRESS	4	NATPNIT	Addr of NIT for primary
44	(2C)	ADDRESS	4	NATSNIT	Addr of NIT for secondary
48	(30)	ADDRESS	4	NATANATP	Chain field for temp active queue (Used by NPMFPATH)
52	(34)	ADDRESS	4	NATNMPTR	Pointer to notify bit map
		The field NATALINE contains a DCT address that is considered to own this NAT. If neither NATPRI nor NATSEC is the local node, then NATALINE is DCT over which this status was first received. If either NATPRI or NATSEC is the local node, then NATALINE contains the LINE DCT address that has the least resistance to the other node on this member. It is not necessarily the primary trunk. NATNATP is a chain of NATPs (at most one per MAS member) which represent the best line from each member of a MAS. NATALINE will be zero if there is no line to the other node on this member. The fields defined by NATAUXCP must be copied between real NATs and AUX NATs whenever a AUX NAT is created.				
56	(38)	SIGNED	4	NATAUXCS(0)	Start of fields copied to/from AUX NATs
56	(38)	ADDRESS	4	NATALINE	Address of owning DCT or zero.
60	(3C)	SIGNED	2	NATALNUM	Line number associated with NATALINE
62	(3E)	BITSTRING	2		Reserved
64	(40)	ADDRESS	4	NATNATP	Chain of NATPs representing connections from other MAS members
68	(44)	BITSTRING	1	NATMEMBP	For adjacent NATs, member with primary line
68	(44)	X'38'	0	NATAUXCP	"NATAUXCS,*-NATAUXCS" End of fields to copy
69	(45)	BITSTRING	1	NATCSTAT	Current status of NAT
		1...		NATCACT	"B'10000000'" NAT on active queue
		.1..		NATCUNC	"B'01000000'" NAT unconnected
		..1.		NATCHLD	"B'00100000'" NAT on held queue
70	(46)	BITSTRING	1	NATNRANK	Order on NIT to NAT queue
70	(46)	X'0'	0	NATNRNUL	"0" NAT has yet to be ranked
70	(46)	X'4'	0	NATNRNMS	"4" ACTIVE, non-MAS connect
70	(46)	X'8'	0	NATNRMAS	"8" ACTIVE, MAS connection
70	(46)	X'C'	0	NATNRSTA	"12" Static/Private connect

Table 310. Structure NAT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
70	(46)	X'10'	0	NATNRHLD	"16" HELD connection
70	(46)	X'14'	0	NATNRINA	"20" INACTIVE connection
71	(47)	BITSTRING	1	NATVFYQ	Flags used by NPMVFY to verify the NAT is on all queues
		1...		NATVFSTA	"B'10000000'" NAT is on a status queue
		.1..		NATVFPRI	"B'01000000'" NAT is on the queue from the primary node's NIT
		..1.		NATVFSEC	"B'00100000'" NAT is on the queue from the secondary node's NIT
72	(48)	ADDRESS	4	NATNTIME	Time record was recieved or status last modified
76	(4C)	ADDRESS	4	NATAUX	Address of auxiliary NAT (PM defined NAT chained off identical static NAT)
80	(50)	ADDRESS	4	NATRTKN	TOKEN used during NAT verification
80	(50)	X'54'	0	NATNATL	"*-NAT" Length of NAT DSECT
		Prototype NAT used for FULLPATH determination The following fields are ony used during full path processing.			
20	(14)	BITSTRING	1	NATNPMF	Flag byte work area
21	(15)	BITSTRING	1		Reserved for future use
22	(16)	SIGNED	2	NATNPLEN	Path length work area
22	(16)	X'18'	0	NATFPTL	"*-NAT" Length of full path NAT
		Nodes attached table queue element for use during initialization for the CONNECT statement. Also used for the $ADD, $DEL, $D, and $T connect commands.			
20	(14)	ADDRESS	4	NATNTQ	NTQ Chain field
24	(18)	CHARACTER	8	NATNTQNA	Primary node name (EBCDIC)
32	(20)	CHARACTER	8	NATNTQNB	2ndary node name (EBCDIC)
40	(28)	CHARACTER	8	NATNTQCN	Console id of console issuing command
48	(30)	BITSTRING	1	NATNTQF1	NTQ type field
		1...		NATNTQ1A	"B'10000000'" Add CONNECT
		.1..		NATNTQ1T	"B'01000000'" Change ($T) CONNECT
		..1.		NATNTQ1R	"B'00100000'" Delete CONNECT
		...1		NATNTQ1P	"B'00010000'" PATHMGR= value was explicitly specified
49	(31)	BITSTRING	1	NATNTQF2	General NTQ flags
		1...		NATNTQ2P	"B'10000000'" Processed NTQ
		1		NATNTQ2C	"B'00000001'" NPMSIM Flag
50	(32)	BITSTRING	2		Reserved for future use
50	(32)	X'34'	0	NATNTQL	"*-NAT" Length of NTQ control block
		Nodes attached table element for NJE connections out of other MAS members (NATP).			
20	(14)	ADDRESS	4	NATPNEXT	Next chained NATP (NAT chn)
24	(18)	ADDRESS	4	NATPDNXT	Next chained NATP (DCT chn)

Table 310. Structure NAT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
28	(1C)	ADDRESS	4	NATPNAT	NAT associated with NATP
32	(20)	ADDRESS	4	NATPDCT	DCT associated with NATP
36	(24)	ADDRESS	3	NATPAFTK	Owning memb affinity token
39	(27)	BITSTRING	1	NATPMEMB	Owning member's ID
40	(28)	BITSTRING	1	NATPFLG1	NATP flag byte
		1...		NATP1WAT	"B'10000000'" Don't send it yet
		.1..		NATP1CMP	"B'01000000'" Signon done (got M recrd)
		..1.		NATP1PRS	"B'00100000'" Persistent connection
41	(29)	BITSTRING	3		Reserved
44	(2C)	CHARACTER	8	NATPNNAM	Node name from I record
52	(34)	SIGNED	4	(0)	Ensure fullword boundry
52	(34)	X'34'	0	NATNATPL	"*-NAT" Length of NATP control

Table 311. Cross Reference for $NAT

Name	Offset	Hex Tag
NAT	0	
NATALINE	38	
NATALNUM	3C	
NATANATP	30	
NATAUX	4C	
NATAUXCP	44	38
NATAUXCS	38	
NATCACT	45	80
NATCHLD	45	20
NATCSTAT	45	
NATCUNC	45	40
NATECOM	14	
NATEVNT	C	
NATFPTL	16	18
NATID	0	
NATMEMBP	44	
NATNATL	50	54
NATNATP	40	
NATNATPL	34	34
NATNEXT	18	
NATNMPTR	34	
NATNPLEN	16	
NATNPMF	14	
NATNRANK	46	
NATNRHLD	46	10
NATNRINA	46	14
NATNRMAS	46	8
NATNRNMS	46	4
NATNRNUL	46	0
NATNRSTA	46	C
NATNSTAT	15	

Table 311. Cross Reference for $NAT (continued)

Name	Offset	Hex Tag
NATNTIME	48	
NATNTNAT	8	80
NATNTNPT	8	20
NATNTNTP	8	10
NATNTNTQ	8	40
NATNTQ	14	
NATNTQCN	28	
NATNTQF1	30	
NATNTQF2	31	
NATNTQL	32	34
NATNTQNA	18	
NATNTQNB	20	
NATNTQ1A	30	80
NATNTQ1P	30	10
NATNTQ1R	30	20
NATNTQ1T	30	40
NATNTQ2C	31	1
NATNTQ2P	31	80
NATNTYPE	8	
NATPAFTK	24	
NATPCHAN	20	
NATPDCT	20	
NATPDNXT	18	
NATPFLG1	28	
NATPMEMB	27	
NATPNAT	1C	
NATPNEXT	14	
NATPNIT	28	
NATPNNAM	2C	
NATPREV	1C	
NATPRI	0	
NATPRIN	0	0
NATPRIQ	2	0
NATP1CMP	28	40
NATP1PRS	28	20
NATP1WAT	28	80
NATREST	A	0
NATRTKN	50	
NATSCHAN	24	
NATSEC	4	
NATSECN	4	0
NATSECQ	6	0
NATSINUS	14	40
NATSNIT	2C	
NATSPEND	14	10
NATSTATE	14	
NATSUMAX	14	80
NATSURCH	14	20
NATSXTRA	14	8

Table 311. Cross Reference for $NAT (continued)

Name	Offset	Hex Tag
NATTADJ	9	2
NATTPM	9	40
NATTPMDE	9	10
NATTPMNO	9	20
NATTPRIV	9	8
NATTSTAT	9	80
NATTUNRE	9	4
NATTYPE	9	
NATVERN	0	1
NATVFPRI	47	40
NATVFSEC	47	20
NATVFSTA	47	80
NATVFYQ	47	

Chapter 138. $NCPE Information

$NCPE Heading Information

Common Name:	NJE Server Subtask Table
Macro ID:	$NCPE
DSECT Name:	NCPE
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'NCPE' Offset: -8 (in the JES2 CSA storage prefix) Length: 4
Storage Attributes:	Subpool: 230 Key: 1 Residency: Common storage, Virtual storage below 2GB, real storage anywhere
Size:	See NCPLEN
Created by:	HASCNJAS during NETSRV address space initialization
Pointed to by:	NSCNCPE field of the $NSCT data area PCLNCPE field of the $PCL data area
Serialization:	
Function:	Used to cross-memory post the request manager subtask in an NJE server address space

$NCPE mapping

Table 312. Structure NCPE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NCPE	NCPE DSECT mapping
	$XMPOST parameter list for server request subtask				
0	(0)	SIGNED	4	NCPEXMPE(0)	XMPOST parameter list
0	(0)	ADDRESS	4	NCPERRET	WORD 1 = ERRET address (CCTBR14)
4	(4)	ADDRESS	4	NCPECBAD	WORD 2 = ECB address (NCPEECB)
8	(8)	ADDRESS	4	NCPEASCB	WORD 3 = ASCB address
12	(C)	SIGNED	4	NCPEECB	Request manager ECB
12	(C)	X'10'	0	NCPELEN	"*-NCPE" Length of NCPE

Chapter 139. $NHD Information

$NHD Programming Interface Information

$NHD is a programming interface.

$NHD Heading Information

Common Name:	Network Job Header, Dataset Header, and Job Trailer DSECTs.
Macro ID:	$NHD
DSECT Name:	NJH NJH2 NJHE NJHT NJHU NJHO NJHA NJHOX NJT NJTS NJTU NJTO NDH NDHA NDHS NDHC NDHT NDHU NDHO NDHOX
Owning Component:	JES2 (SCB1H)
Eye-Catcher ID:	None
Storage Attributes:	Subpool: 10 Key: 1 Residency: JES2 spool resident control block. Virtual and real storage may be anywhere when resident in memory.
Size:	Variable, with a maximum size of NJHMAXLN for job headers, NDHMAXLN for dataset headers, or NJTMAXLN for job trailers. These control blocks will always reside in a 32K block of storage.
Created by:	Network job receiver for jobs received from network; Offload job receiver for reloaded jobs; Route receiver for network jobs rerouted locally; Network, offload, or route job/SYSOUT transmitters for locally submitted jobs (at transmission time). In-storage versions of the control block are created by $NHDREAD or $NHDRCV.
Pointed to by:	JCTNJHTR field of the $JCT data area (spool pointer) JCTNJTTR field of the $JCT data area (spool pointer) PDBNDHTR field of the $JCT data area (spool pointer) Storage pointers in various PCE work areas and $NHDxxx service parameter lists.
Serialization:	Serialized under the JES2 TCB
Function:	This DSECT represents the JES2 mappings of Job and Data set Headers/Trailers described in "Network Job Entry Formats and Protocols" (SC23-0070). These control blocks are part of the networking protocol used to communicate between nodes in a network.

$NHD mapping

Table 313. Structure NJH

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NJH	NETWORK JOB HEADER RECORD
		BLOCK CONTROL INFORMATION			
0	(0)	ADDRESS	2	NJHLEN	LENGTH OF ENTIRE BLOCK

Table 313. Structure NJH (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2	(2)	BITSTRING	1	NJHFLAGS	FLAGS
3	(3)	BITSTRING	0	NJHSEQ	TRANSMISSION SEQUENCE INDICATOR
3	(3)	X'4'	0	NJHLBCI	"*-NJH" LENGTH OF BLOCK CONTROL INFORMATION
GENERAL SECTION					
4	(4)	SIGNED	4	NJHG(0)	START OF GENERAL SECTION
4	(4)	ADDRESS	2	NJHGLEN	LENGTH OF GENERAL SECTION
6	(6)	BITSTRING	2	NJHGFLGS(0)	SECTION TYPE FLAGS
6	(6)	ADDRESS	1	NJHGTYPE	ID FOR GENERAL SECTION
7	(7)	ADDRESS	1	NJHGMOD	MODIFIER
		....		NJHG$MOD	"B'00000000'" VALUE OF MODIFIER
8	(8)	ADDRESS	2	NJHGJID	JOB IDENTIFIER
10	(A)	CHARACTER	1	NJHGJCLS	JOB CLASS
11	(B)	CHARACTER	1	NJHGMCLS	MESSAGE CLASS
12	(C)	BITSTRING	1	NJHGFLG1	FLAGS
		1...		NJHGF1PR	"B'10000000'" DO NOT RECOMPUTE PRIORITY
		.1..		NJHGF1JN	"B'01000000'" Extended job number exists
		.... 1...		NJHGF1CF	"B'00001000'" Store-and-forward msg flag
		.... .1..		NJHGF1CA	"B'00000100'" Destination node msg flag
		.... ..1.		NJHGF1PE	"B'00000010'" NJHGPASS is encrypted
		1		NJHGF1NE	"B'00000001'" NJHGNPAS is encrypted
13	(D)	ADDRESS	1	NJHGPRIO	SELECTION PRIORITY
14	(E)	ADDRESS	1	NJHGORGQ	ORIGIN NODE SYSTEM QUALIFIER
15	(F)	ADDRESS	1	NJHGJCPY	JOB COPY COUNT
16	(10)	ADDRESS	1	NJHGLNCT	JOB LINE COUNT
17	(11)	BITSTRING	1		RESERVED
18	(12)	SIGNED	2	NJHGHOPS	NJE HOP COUNT
20	(14)	CHARACTER	8	NJHGACCT	NETWORKING ACCOUNT NUMBER
28	(1C)	CHARACTER	8	NJHGJNAM	JOB NAME
36	(24)	CHARACTER	8	NJHGUSID	USERID (TSO, VM) to NOTIFY
44	(2C)	CHARACTER	8	NJHGPASS	PASSWORD
52	(34)	CHARACTER	8	NJHGNPAS	NEW PASSWORD
60	(3C)	SIGNED	8	NJHGETS	ENTRY TIME/DATE STAMP
68	(44)	CHARACTER	8	NJHGORGN	ORIGIN NODE NAME
76	(4C)	CHARACTER	8	NJHGORGR	ORIGIN REMOTE NAME
84	(54)	CHARACTER	8	NJHGXEQN	EXECUTION NODE NAME
92	(5C)	CHARACTER	8	NJHGXEQU	EXECUTION USER ID(VM/370)
100	(64)	CHARACTER	8	NJHGPRTN	DEFAULT PRINT NODE NAME
108	(6C)	CHARACTER	8	NJHGPRTR	DEFAULT PRINT REMOTE NAME
116	(74)	CHARACTER	8	NJHGPUNN	DEFAULT PUNCH NODE NAME
124	(7C)	CHARACTER	8	NJHGPUNR	DEFAULT PUNCH REMOTE NAME
132	(84)	CHARACTER	8	NJHGFORM	JOB FORMS
140	(8C)	SIGNED	4	NJHGICRD	INPUT CARD COUNT
144	(90)	SIGNED	4	NJHGETIM	ESTIMATED EXECUTION TIME
148	(94)	SIGNED	4	NJHGELIN	ESTIMATED OUTPUT LINES
152	(98)	SIGNED	4	NJHGECRD	ESTIMATED OUTPUT CARDS

Table 313. Structure NJH (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
156	(9C)	CHARACTER	20	NJHGPRGN	PROGRAMMER'S NAME
176	(B0)	CHARACTER	8	NJHGROOM	PROGRAMMER'S ROOM NUMBER
184	(B8)	CHARACTER	8	NJHGDEPT	PROGRAMMER'S DEPARTMENT
192	(C0)	CHARACTER	8	NJHGBLDG	PROGRAMMER'S BUILDING NUMBER
200	(C8)	SIGNED	4	NJHGNREC	RECORD COUNT ON OUTPUT XMISSION
204	(CC)	SIGNED	4	NJHGJNO	Extended job number
208	(D0)	CHARACTER	8	NJHGNTYN	Node to send NOTIFY message
216	(D8)	SIGNED	4	NJHGEND(0)	END OF GENERAL SECTION
216	(D8)	X'24'	0	NJHGORGU	"NJHGUSID" ORGIN USER ID
216	(D8)	X'D4'	0	NJHGLLEN	"*-NJHG" LENGTH OF GENERAL SECTION

Table 314. Structure NJH2

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NJH2	START OF JES2 SECTION
0	(0)	ADDRESS	2	NJH2LEN	LENGTH OF JES2 SECTION
2	(2)	BITSTRING	2	NJH2FLGS(0)	SECTION TYPE FLAGS
2	(2)	ADDRESS	1	NJH2TYPE	ID FOR JES2 SECTION
3	(3)	ADDRESS	1	NJH2MOD	MODIFIER
		....		NJH2$MOD	"B'00000000'" VALUE OF MODIFIER
	The following modifier is reserved and may not be used in conjunction with NTYPJES2 in the job header as it is used internally in JES2 SP4.3.0.				
		1		NJH2$RSV	"B'00000001'" **RESERVED Modifier** Was NJHA$J2M previously
4	(4)	BITSTRING	1	NJH2FLG1	FLAGS
5	(5)	BITSTRING	1	NJH2FLG2	Flag byte 2
6	(6)	BITSTRING	2		RESERVED
8	(8)	CHARACTER	4	NJH2ACCT	ORIGINATOR'S JES2 ACCOUNT NUMBER
12	(C)	CHARACTER	8	NJH2USID	JMR installation data field
20	(14)	CHARACTER	8	NJH2USR(0)	JCL USER ID (BEFORE SAF CALL) VERIFIED USER ID (AFTER)
28	(1C)	CHARACTER	8	NJH2GRP(0)	JCL GROUP ID (BEFORE SAF CALL) VERIFIED GROUP ID (AFTER)
36	(24)	CHARACTER	8	NJH2SUSR(0)	SUBMITTER'S USER ID
44	(2C)	CHARACTER	8	NJH2SGRP(0)	SUBMITTER'S GROUP ID
44	(2C)	X'34'	0	NJH2ACML	"*-NJH2" MINIMUM LENGTH FOR FIELDS REQUIRED FOR AUTH CHECKS IN JES2
52	(34)	CHARACTER	8	NJH2LNAM(0)	Associated JOBGROUP logging job name. If not set then no association.
60	(3C)	SIGNED	4	NJH2END(0)	END OF JES2 SECTION
60	(3C)	X'3C'	0	NJH2LLEN	"*-NJH2" LENGTH OF JES2 SECTION
	NJH2FLG1 BIT DEFINITIONS				
		11		NJH2FJOB	"B'00000011'" JOB IS A BATCH JOB WHEN ZERO
		1		NJH2FSTC	"B'00000001'" JOB IS A STARTED TASK

Table 314. Structure NJH2 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ..1.		NJH2FTSU	"B'00000010'" JOB IS TIME-SHARING USER
		.... .1..		NJH2USE	"B'00000100'" JCTUSEID PRESENT IN HEADER
		.... 1...		NJH2TPO	"B'00001000'" Output originated from a transaction program
		..1.		NJH2DFJG	"B'00100000'" JOB is a JOBGROUP logging job
		NJH2FLG2 BIT DEFINITIONS			
		1...		NJH2ESMF	"B'10000000'" Suppress EVENTLOG SMF recs
		.1..		NJH2ESTP	"B'01000000'" Suppress EVENTLOG STEP recs
		..1.		NJH2ERST	"B'00100000'" Suppress EVENTLOG RESTAT rc
		...1		NJH2ETRC	"B'00010000'" Suppress EVENTLOG TRACE rec
		.... 1...		NJH2EUSR	"B'00001000'" Suppress EVENTLOG USER recs

Table 315. Structure NJHE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NJHE	START OF JOB SCHED SECTION
0	(0)	ADDRESS	2	NJHELEN	LEN OF JOB SCHEDULING SECTION
2	(2)	BITSTRING	2	NJHEFLGS(0)	JOB SCHEDULING FLAGS
2	(2)	ADDRESS	1	NJHETYPE	ID FOR JOB SCHEDULING SECTION
3	(3)	ADDRESS	1	NJHEMOD	MODIFIER FOR JOB SCHEDULING
		....		NJHE$JS	"B'00000000'" VALUE OF MODIFIER
4	(4)	BITSTRING	4	NJHEPAGE	ESTIMATED BEGIN PAGE COUNT
8	(8)	BITSTRING	4	NJHEBYTE	ESTIMATED BYTE COUNT
12	(C)	CHARACTER	8	NJHECLS8	Eight Character Job class
20	(14)	CHARACTER	64	NJHEOCOR	Original job correlator
84	(54)	CHARACTER	8	NJHEXSYS	Name of system where job executed
92	(5C)	SIGNED	4	NJHEEND(0)	END OF JOB SCHEDULING SECTION
92	(5C)	X'5C'	0	NJHELLEN	"*-NJHE" LEN OF JOB SCHEDULING SECTION

Table 316. Structure NJHT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NJHT	Start of Security Section
0	(0)	ADDRESS	2	NJHTLEN	Length of Security Section
2	(2)	BITSTRING	2	NJHTFLGS(0)	Section type flags
2	(2)	ADDRESS	1	NJHTTYPE	ID for Security Section
3	(3)	ADDRESS	1	NJHTMOD	Modifier
		....		NJHT$MOD	"B'00000000'" Value of Modifier
4	(4)	ADDRESS	2	NJHTLENP	Length of prefix sectn
6	(6)	BITSTRING	1	NJHTFLG0	Security section flags

Table 316. Structure NJHT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		NJHTF0JB	"B'10000000'" Token represents job
7	(7)	ADDRESS	1		Reserved
8	(8)	CHARACTER	80	NJHTTOKN	Mapped SAF token
88	(58)	SIGNED	4	NJHTEND(0)	End of Security Section
88	(58)	X'58'	0	NJHTLLEN	"*-NJHT" Length of Security Section

Table 317. Structure NJHA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NJHA	START of Accounting Section
0	(0)	SIGNED	2	NJHALEN	Length of Acctg Section
2	(2)	BITSTRING	2	NJHAFLGS(0)	Section type flags
2	(2)	ADDRESS	1	NJHATYPE	ID for Accounting Section
3	(3)	ADDRESS	1	NJHAMOD	Modifier
		....		NJHA$MOD	"B'00000000'" Value of Modifier
4	(4)	BITSTRING	1	NJHAFLG1	Flags
		1...		NJHAF1OV	"B'10000000'" Accounting string can be overlaid by other than originating node
5	(5)	BITSTRING	1		Reserved for future use
6	(6)	ADDRESS	2	NJHAOFFS	Offset to beginning of accounting information
6	(6)	X'8'	0	NJHAFLEN	"*-NJHA" Length of fixed portion
		Accounting strings from the JOB statement The string is in the form: AL1(number-of-substrings) AL1(length-1st-string),C'1st-string' AL1(length-2nd-string),C'2nd-string' etc. Note: The maximum length supported by JES2/JES3 is 143 bytes.			
8	(8)	SIGNED	2	NJHAJLEN	Length of job accounting string (does not include the length of this half word)
10	(A)	SIGNED	1	NJHAJNR	Number of sub-strings
11	(B)	SIGNED	1	NJHAJAC1(0)	First sub-string

Table 318. Structure NJHU

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NJHU	START OF USER SECTION
0	(0)	ADDRESS	2	NJHULEN	LENGTH OF USER SECTION
2	(2)	BITSTRING	2	NJHUFLGS(0)	SECTION TYPE FLAGS
2	(2)	ADDRESS	1	NJHUTYPE	ID FOR USER SECTION -- BITS 0-1 MUST BE B'11' BITS 2-7 CAN BE ANYTHING
3	(3)	ADDRESS	1	NJHUMOD	MODIFIER --
		....		NJHU$MOD	"B'00000000'" MOD VALUE CAN BE ANYTHING

Table 318. Structure NJHU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	CHARACTER	4	NJHUCODE	SHARE/GUIDE INSTALLATION CODE PLACE USER INFORMATION FIELDS BETWEEN 'NJHUCODE' & 'NJHUEND'
8	(8)	SIGNED	4	NJHUEND(0)	END OF USER SECTION
8	(8)	X'8'	0	NJHULLEN	"*-NJHU" LENGTH OF USER SECTION

Table 319. Structure NJHOX

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NJHOX	Start of JES2 SYSAFF sect.
0	(0)	ADDRESS	2	NJHOXLN	Length of JES2 SYSAFF sect.
2	(2)	BITSTRING	2	NJHOXFGS(0)	Section type flags
2	(2)	ADDRESS	1	NJHOXTYP	ID for JES2 section
3	(3)	ADDRESS	1	NJHOXMOD	MODIFIER for SYSAFF sect.
		11..		NJHO$AFF	"B'11000000'" VALUE OF MODIFIER
4	(4)	BITSTRING	1	NJHOXFG1	FLAGS
		1...		NJHOX1IM	"B'10000000'" Job is independent mode
		.1..		NJHOX1NY	"B'01000000'" SYSAFF=ANYependent mode
5	(5)	BITSTRING	1		RESERVED
6	(6)	ADDRESS	2	NJHOXOFF	Offset to extended affinity
		Extended system affinity... pointed to by NJHOXOFF. The bits in NJHOXSAF reflect affinity for the system numbers from left to right: 12345678....			
8	(8)	ADDRESS	2	NJHOXSAL	Length of extended sys aff
10	(A)	BITSTRING	1	NJHOXSAF	Extended system affinity
10	(A)	X'E'	0	NJHOXLLN	"*-NJHOX" Length of affinity sect.

Table 320. Structure NJHO

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NJHO	START OF JES2 OFFLOAD SECT
0	(0)	ADDRESS	2	NJHOLEN	LENGTH OF JES2 OFFLOAD SECTION
2	(2)	BITSTRING	2	NJHOFLGS(0)	SECTION TYPE FLAGS
2	(2)	ADDRESS	1	NJHOTYPE	ID FOR JES2 SECTION
3	(3)	ADDRESS	1	NJHOMOD	MODIFIER
		1...		NJHO$MOD	"B'10000000'" VALUE OF MODIFIER
4	(4)	BITSTRING	1	NJHOFLG1	FLAGS
5	(5)	BITSTRING	1	NJHOFLG2	MORE FLAGS
6	(6)	BITSTRING	1	NJHOPRIO	CURRENT EXECUTING PRIORITY
7	(7)	BITSTRING	1	NJHOCLAS	CURRENT EXECUTING CLASS
8	(8)	SIGNED	4	NJHOTIME	OFFLOAD VERIFICATION TIME
12	(C)	SIGNED	4	NJHODATE	OFFLOAD VERIFICATION DATE
16	(10)	CHARACTER	8	NJHOPRTU	PRINT SPECIAL LOCAL ROUTING
24	(18)	CHARACTER	8	NJHOPUNU	PUNCH SPECIAL LOCAL ROUTING
32	(20)	SIGNED	2	NJHOOJNO	OFFLOADED JOB NUMBER

Table 320. Structure NJHO (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		The bits in NJHOSAF reflect affinity for the system numbers from right to left, with the topmost bit indicating independent mode: I7654321			
34	(22)	BITSTRING	1	NJHOSAF	System affinity; used by systems SP430 and below
35	(23)	BITSTRING	1		Reserved
36	(24)	CHARACTER	8	NJHOPRTN	Job print command authority node name, will be blanks for special local
44	(2C)	BITSTRING	2	NJHOPRRM	Job print command authority remote number
46	(2E)	CHARACTER	8	NJHOPUNN	Job punch command authority node name, will be blanks for special local
54	(36)	BITSTRING	2	NJHOPURM	Job punch command authority remote number
56	(38)	SIGNED	4	NJHOOJBN	Offloaded job number
60	(3C)	CHARACTER	8	NJHOSRVC	$T'ed Service Class
68	(44)	CHARACTER	16	NJHOSCHE	$T'ed SCHENV
84	(54)	SIGNED	4	NJHOCRTM	JQE creation time
88	(58)	CHARACTER	8	HJHOSLGS	For SYSLOG job, MVS system name that created log
96	(60)	CHARACTER	4	NJHORDSD	Input processor JES name
100	(64)	CHARACTER	4	NJHOCVSD	Conversion processor JES nm
104	(68)	CHARACTER	4	NJHOEXSD	Execution processor JES nm
108	(6C)	CHARACTER	4	HJHOOTSD	Output processor JES name
112	(70)	CHARACTER	8	NJHOCLS8	Current executing job class 8 char version of NJHOCLAS
120	(78)	SIGNED	4	NJHOEND(0)	END OF JES2 OFFLOAD SECTION
120	(78)	X'78'	0	NJHOLLEN	"*-NJHO" LENGTH OF JES2 OFFLOAD SECTION
120	(78)	X'1E8'	0	NJHLLEN	"NJHLBCI+NJHGLLEN+NJH2LLEN+NJHELLEN+NJHOLLEN" LENGTH OF DEFAULT JOB HEADER RECORD
		ADD NJHULLEN TO THE ABOVE EQUATION TO INCLUDE USER SECTION			
		NJHOFLG1 BIT DEFINITIONS			
		1...		NJHOF1HD	"B'10000000'" JOB HELD PRIOR TO TRANSMIT
		.1..		NJHOF1HO	"B'01000000'" ALL JOBS HELD BY OPERATOR PRIOR TO TRANSMIT
		..1.		NJHOF1MC	"B'00100000'" JOB CLASS MODIFIED
		...1		NJHOF1MS	"B'00010000'" JOB AFFINITY MODIFIED
		.... 1...		NJHOF1MH	"B'00001000'" JOB HOLD STATUS MODIFIED
		.... .1..		NJHOF1CV	"B'00000100'" JOB HOLD FOR CONVERSION BEFORE SPOOL OFFLOAD
		NJHOFLG2 BIT DEFINITIONS			
		1...		NJHOF2PR	"B'10000000'" 'PROTECTED' attribute
		.1..		NJHOF2SD	"B'01000000'" Service class $T'ed

Table 320. Structure NJHO (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		NJHOF2ED	"B'00100000'" SCHENV $T'ed
	SECTION TYPE FLAGS				
		....		NTYPGEN	"B'00000000'" GENERAL SECTION
		1...		NTYPSUB	"B'10000000'" SUBSYSTEM SECTION
		1... 1..1		NTYPGDS	"B'10001001'" DATA STREAM/ACCOUNTING SECTION
		1... 1.1.		NTYPGJS	"B'10001010'" JOB SCHEDULING SECTION
		1... 11..		NTYPSAF	"B'10001100'" Security Token Section
		1... 11.1		NTYPACCT	"B'10001101'" Job Accounting Section
		1... ...1		NTYPASP	"B'10000001'" ASP SUBSYSTEM SECTION
		1... ..1.		NTYPHASP	"B'10000010'" HASP SUBSYSTEM SECTION
		1... ..11		NTYPJES1	"B'10000011'" JES/RES SUBSYSTEM SECTION
		1... .1..		NTYPJES2	"B'10000100'" JES2 SUBSYSTEM SECTION
		1... .1.1		NTYPJES3	"B'10000101'" JES3 SUBSYSTEM SECTION
		1... .11.		NTYPPOWR	"B'10000110'" POWER/VS SUBSYSTEM SECTION
		1... .111		NTYPVNET	"B'10000111'" VM/370 SUBSYSTEM SECTION
		11..		NTYPUSER	"B'11000000'" USER SECTION
120	(78) X'7B8B'		0	NJHMAXLN	"(253-4)*127+4" Maximum size of job header: 127 records allowed by sequencing field * maximum size of each record (253) less the size of the sequencing fields (4) + general header prefix.

Table 321. Structure NJT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NJT	
	BLOCK CONTROL INFORMATION				
0	(0)	ADDRESS	2	NJTLEN	LENGTH OF ENTIRE BLOCK
2	(2)	BITSTRING	1	NJTFLAGS	FLAGS
3	(3)	BITSTRING	0	NJTSEQ	TRANSMISSION SEQUENCE INDICATOR
3	(3)	X'4'	0	NJTLBCI	"*-NJT" LENGTH OF BLOCK CONTROL INFORMATION
	GENERAL SECTION				
4	(4)	SIGNED	4	NJTG(0)	START OF GENERAL SECTION
4	(4)	ADDRESS	2	NJTGLEN	LENGTH OF GENERAL SECTION
6	(6)	BITSTRING	2	NJTGFLGS(0)	SECTION TYPE FLAGS
6	(6)	ADDRESS	1	NJTGTYPE	ID FOR GENERAL SECTION

Table 321. Structure NJT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
7	(7)	ADDRESS	1	NJTGMOD	MODIFIER
		....		NJTG$MOD	"B'00000000'" VALUE OF MODIFIER
8	(8)	BITSTRING	1	NJTGFLG1	FLAGS
9	(9)	CHARACTER	1	NJTGXCLS	ACTUAL EXECUTION CLASS
10	(A)	BITSTRING	2		RESERVED
12	(C)	SIGNED	8	NJTGSTRT	EXECUTION START TIME/DATE
20	(14)	SIGNED	8	NJTGSTOP	EXECUTION STOP TIME/DATE
28	(1C)	SIGNED	4	NJTGACPU	ACTUAL CPU TIME
32	(20)	SIGNED	4	NJTGALIN	ACTUAL OUTPUT LINES
36	(24)	SIGNED	4	NJTGACRD	ACTUAL OUTPUT CARDS
40	(28)	SIGNED	4	NJTGEXCP	EXCP COUNT
44	(2C)	ADDRESS	1	NJTGIXPR	INITIAL XEQ SELECTION PRIORITY
45	(2D)	ADDRESS	1	NJTGAXPR	ACTUAL XEQ SELECTION PRIORITY
46	(2E)	ADDRESS	1	NJTGIOPR	INITIAL OUTPUT SELECTION PRIORITY
47	(2F)	ADDRESS	1	NJTGAOPR	ACTUAL OUTPUT SELECTION PRIORITY
48	(30)	BITSTRING	4	NJTGCC(0)	Job completion codes
48	(30)	BITSTRING	1	NJTGCOMP	Job completion indicator
		1...		NJTGCAB	"X'80'" ABEND CODE
		.1..		NJTGCCC	"X'40'" Completion code
48	(30)	X'0'	0	NJTGCUNK	"0" No completion info
48	(30)	X'1'	0	NJTGCNRM	"1" Job ended normally
48	(30)	X'2'	0	NJTGCECC	"2" Job ended by cc
48	(30)	X'3'	0	NJTGCJCL	"3" Job had a JCL error
48	(30)	X'4'	0	NJTGCCAN	"4" Job was canceled
48	(30)	X'5'	0	NJTGCABN	"5" Job ABENDed
48	(30)	X'6'	0	NJTGCCAB	"6" Converter ABENDed
48	(30)	X'7'	0	NJTGCSEC	"7" Security error
48	(30)	X'8'	0	NJTGCEOM	"8" Job ABENDed in end of memory processing
48	(30)	X'9'	0	NJTGCCNV	"9" Converter error
48	(30)	X'A'	0	NJTGCSYS	"10" System failure
48	(30)	X'B'	0	NJTGCFLU	"11" Job has been flushed
49	(31)	BITSTRING	3	NJTGCODE	Completion code (if applicable), or ABEND codes (system code in first 12 bits, user code in last 12 bits).
52	(34)	SIGNED	4	NJTGEND(0)	END OF GENERAL SECTION
52	(34)	X'30'	0	NJTGLLEN	"*-NJTG" LENGTH OF GENERAL SECTION

Table 322. Structure NJTS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NJTS	START OF ACCOUNTING SECTION
0	(0)	ADDRESS	2	NJTSLEN	LENGTH OF ACCOUNTING SECTION
2	(2)	BITSTRING	2	NJTSFLGS(0)	ACCOUNTING SECTION FLAGS
2	(2)	ADDRESS	1	NJTSTYPE	ID FOR GENERAL SECTION
3	(3)	ADDRESS	1	NJTSMOD	MODIFIER
		....		NJT$ACCT	"B'00000000'" VALUE OF MODIFIER
4	(4)	BITSTRING	4	NJTSAPAG	NUMBER OF 'BEGIN PAGE' FIELDS
8	(8)	BITSTRING	4	NJTSABYT	NUMBER OF DATA BYTES

Table 322. Structure NJTS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
12	(C)	SIGNED	4	NJTSEND(0)	END OF ACCOUNTING SECTION
12	(C)	X'C'	0	NJTSLLEN	"*-NJTS" LENGTH OF ACCOUNTING SECTION

Table 323. Structure NJTU

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NJTU	START OF USER SECTION
0	(0)	ADDRESS	2	NJTULEN	LENGTH OF USER SECTION
2	(2)	BITSTRING	2	NJTUFLGS(0)	SECTION TYPE FLAGS
2	(2)	ADDRESS	1	NJTUTYPE	ID FOR USER SECTION -- BITS 0-1 MUST BE B'11' BITS 2-7 CAN BE ANYTHING
3	(3)	ADDRESS	1	NJTUMOD	MODIFIER --
		....		NJTU$MOD	"B'00000000'" MOD VALUE CAN BE ANYTHING
4	(4)	CHARACTER	4	NJTUCODE	SHARE/GUIDE INSTALLATION CODE PLACE USER INFORMATION FIELDS BETWEEN 'NJTUCODE' & 'NJTUEND'
8	(8)	SIGNED	4	NJTUEND(0)	END OF USER SECTION
8	(8)	X'8'	0	NJTULLEN	"*-NJTU" LENGTH OF USER SECTION

Table 324. Structure NJTO

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NJTO	START OF JES2 OFFLOAD SECT
0	(0)	ADDRESS	2	NJTOLEN	LENGTH OF JES2 OFFLOAD SECTION
2	(2)	BITSTRING	2	NJTOFLGS(0)	SECTION TYPE FLAGS
2	(2)	ADDRESS	1	NJTOTYPE	ID FOR JES2 SECTION
3	(3)	ADDRESS	1	NJTOMOD	MODIFIER
		1...		NJTO$MOD	"B'10000000'" VALUE OF MODIFIER
4	(4)	SIGNED	4	NJTOTIME	OFFLOAD VERIFICATION TIME
8	(8)	SIGNED	4	NJTODATE	OFFLOAD VERIFICATION DATE
12	(C)	SIGNED	4	NJTOEND(0)	END OF JES2 OFFLOAD SECTION
12	(C)	X'C'	0	NJTOLLEN	"*-NJTO" LENGTH OF JES2 OFFLOAD SECTION
12	(C)	X'4C'	0	NJTLLEN	"NJTLBCI+NJTGLLEN+NJTSLLEN+NJTOLLEN" LENGTH OF DEFAULT JOB TRAILER RECORD
ADD NJTULLEN TO THE ABOVE EQUATION TO INCLUDE USER SECTION					
12	(C)	X'7B8B'	0	NJTMAXLN	"(253-4)*127+4" Maximum size of job trailer: 127 records allowed by sequencing field * maximum size of each record (253) less the size of the sequencing fields (4) + general header prefix.

Table 325. Structure NDH

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NDH	NETWORK DATA SET HEADER RECORD
	BLOCK CONTROL INFORMATION				
0	(0)	ADDRESS	2	NDHLEN	LENGTH OF ENTIRE BLOCK
2	(2)	BITSTRING	1	NDHFLAGS	FLAGS
3	(3)	BITSTRING	0	NDHSEQ	TRANSMISSION SEQUENCE INDICATOR
3	(3)	X'4'	0	NDHLBCI	"*-NDH" LENGTH OF BLOCK CONTROL INFORMATION
	GENERAL SECTION				
4	(4)	SIGNED	4	NDHG(0)	START OF GENERAL SECTION
4	(4)	ADDRESS	2	NDHGLEN	LENGTH OF GENERAL SECTION
6	(6)	BITSTRING	2	NDHGFLGS(0)	SECTION TYPE FLAGS
6	(6)	ADDRESS	1	NDHGTYPE	ID FOR GENERAL SECTION
7	(7)	ADDRESS	1	NDHGMOD	MODIFIER
	....			NDHG$MOD	"B'00000000'" VALUE OF MODIFIER
8	(8)	CHARACTER	8	NDHGNODE	DESTINATION NODE NAME
16	(10)	CHARACTER	8	NDHGRMT	DESTINATION REMOTE NAME
24	(18)	CHARACTER	8	NDHGPROC	PROC INVOCATION NAME
32	(20)	CHARACTER	8	NDHGSTEP	STEP NAME
40	(28)	CHARACTER	8	NDHGDD	DD NAME
48	(30)	SIGNED	2	NDHGDSNO	DATA SET NUMBER
50	(32)	ADDRESS	1	NDHGSEC	SECURITY LEVEL
51	(33)	CHARACTER	1	NDHGCLAS	OUTPUT CLASS
52	(34)	SIGNED	4	NDHGNREC	RECORD COUNT
56	(38)	BITSTRING	1	NDHGFLG1	FLAGS
57	(39)	BITSTRING	1	NDHGRCFM	RECFM
58	(3A)	SIGNED	2	NDHGLREC	MAX LOGICAL RECORD LENGTH
60	(3C)	ADDRESS	1	NDHGDSCT	DATA SET COPY COUNT
61	(3D)	ADDRESS	1	NDHGFCBI	3211 FCB INDEX
62	(3E)	BITSTRING	1	NDHGLNCT	DATA SET LINCT (PAGE SIZE)
63	(3F)	BITSTRING	1		RESERVED FOR FUTURE USE
64	(40)	CHARACTER	8	NDHGFORM	FORMS ID
72	(48)	CHARACTER	8	NDHGFCB	FCB ID
80	(50)	CHARACTER	8	NDHGUCS	UCS ID
88	(58)	CHARACTER	8	NDHGXWTR	EXTERNAL WRITER ID
96	(60)	CHARACTER	8	NDHGNAME	Sysout DS name (DSNAME=)
104	(68)	BITSTRING	1	NDHGFLG2	SECOND FLAG BYTE
105	(69)	BITSTRING	1	NDHGUCSO	UCS OPTION BYTE
106	(6A)	BITSTRING	2		RESERVED FOR FUTURE USE
108	(6C)	CHARACTER	8	NDHGPMDE	PROCESS MODE
116	(74)	SIGNED	4	NDHGSEGN	Segment ID
120	(78)	SIGNED	4	NDHGEND(0)	END OF GENERAL SECTION
120	(78)	X'74'	0	NDHGLLEN	"*-NDHG" LENGTH OF GENERAL SECTION
120	(78)	X'78'	0	NDHLLEN	"*-NDH" LENGTH OF ENTIRE BLOCK

Table 326. Structure NDHA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NDHA	START OF 3800 CHAR SECTION
0	(0)	ADDRESS	2	NDHALEN	LENGTH OF 3800 CHAR SECTION

Table 326. Structure NDHA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2	(2)	BITSTRING	2	NDHAFLGS(0)	FLAGS AND MODIFIER
2	(2)	ADDRESS	1	NDHATYPE	ID FOR GENERAL SECTION
3	(3)	ADDRESS	1	NDHAMOD	MODIFIER
		1...		NDHA$MOD	"B'10000000'" VALUE OF MODIFIER (3800 CHAR)
4	(4)	BITSTRING	1	NDHAFLG1	FLAGS
5	(5)	ADDRESS	1	NDHAFLCT	FLASH COUNT
6	(6)	BITSTRING	1	NDHATREF	TABLE REFERENCE CHARACTER
7	(7)	BITSTRING	1		RESERVED
8	(8)	CHARACTER	8	NDHATAB1	TRANSLATE TABLE 1
16	(10)	CHARACTER	8	NDHATAB2	TRANSLATE TABLE 2
24	(18)	CHARACTER	8	NDHATAB3	TRANSLATE TABLE 3
32	(20)	CHARACTER	8	NDHATAB4	TRANSLATE TABLE 4
40	(28)	CHARACTER	8	NDHAFLSH	FLASH CARTRIDGE ID
48	(30)	CHARACTER	8	NDHAMODF	COPY MODIFICATION ID
56	(38)	BITSTRING	8	NDHACPYG	COPY GROUPS
64	(40)	SIGNED	4	NDHAEND(0)	END OF 3800 CHAR SECTION
64	(40)	X'40'	0	NDHALLEN	"*-NDHA" LENGTH OF 3800 CHAR SECTION

Table 327. Structure NDHS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NDHS	START OF DATASTREAM SECT
0	(0)	ADDRESS	2	NDHSLEN	LEN OF DATA STREAM SECTION
2	(2)	BITSTRING	2	NDHSFLGS(0)	FLAGS AND MODIFIERS
2	(2)	ADDRESS	1	NDHSTYPE	ID FOR GENERAL SECTION
3	(3)	ADDRESS	1	NDHSMOD	MODIFIER
		....		NDHS$OUT	"B'00000000'" VALUE OF MODIFIER (OUTPUT)
4	(4)	ADDRESS	2	NDHSFLEN	SUBSECTION FIXED LENGTH
6	(6)	BITSTRING	1	NDHSFLG1	DATA STREAM FLAG
		1...		NDHS1CPD	"B'10000000'" DATA SET HAS CPDS CHARA.
7	(7)	BITSTRING	1		RESERVED
8	(8)	BITSTRING	8	NDHSJDVT	JDVT NAME
16	(10)	BITSTRING	4	NDHSNSTR	PAGE DATA PAGE COUNT
20	(14)	BITSTRING	8	NDHSGPID	OUTPUT NAME FOR DATA SET
20	(14)	X'1C'	0	NDHSLEN2	"*-NDHS" LENGTH OF DATA STREAM SECTION
28	(1C)	SIGNED	2	NDHSSDAT(0)	START OF VARIABLE DATA FOR SWBS

Table 328. Structure NDHC

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NDHC	START OF CHAR CHANGE SECT
0	(0)	ADDRESS	2	NDHCLEN	LENGTH OF CHAR CHANGE GENERAL SECT
2	(2)	BITSTRING	2	NDHCFLGS(0)	SECTION TYPE FLAGS
2	(2)	ADDRESS	1	NDHCTYPE	ID FOR GENERAL SECTION
3	(3)	ADDRESS	1	NDHCMOD	MODIFIER

Table 328. Structure NDHC (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		NDHC$MOD	"B'01000000'" VALUE OF MODIFIER (CHAR CHANGE)
4	(4)	BITSTRING	1	NDHCFLG1	FLAGS
5	(5)	BITSTRING	1	NDHCRCFM	RECFM
6	(6)	ADDRESS	2	NDHCLREC	MAXIMUM LRECL
8	(8)	SIGNED	4	NDHCEND(0)	END OF CHAR CHANGE GENERAL SECTION
8	(8)	X'8'	0	NDHCLLEN	"*-NDHC" LENGTH OF CHAR CHANGE GENERAL SECT

Table 329. Structure NDHT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NDHT	Start of Security Section
0	(0)	ADDRESS	2	NDHTLEN	Length of Security Section
2	(2)	BITSTRING	2	NDHTFLGS(0)	Section type flags
2	(2)	ADDRESS	1	NDHTTYPE	ID for Security Section
3	(3)	ADDRESS	1	NDHTMOD	Modifier
		....		NDHT$MOD	"B'00000000'" Value of Modifier
4	(4)	ADDRESS	2	NDHTLENP	Length of prefix sectn
6	(6)	ADDRESS	2		Reserved
8	(8)	CHARACTER	80	NDHTTOKN	Mapped SAF token
88	(58)	SIGNED	4	NDHTEND(0)	End of Security Section
88	(58)	X'58'	0	NDHTLLEN	"*-NDHT" Length of Security Section

Table 330. Structure NDHU

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NDHU	START OF USER SECTION
0	(0)	ADDRESS	2	NDHULEN	LENGTH OF USER SECTION
2	(2)	BITSTRING	2	NDHUFLGS(0)	SECTION TYPE FLAGS
2	(2)	ADDRESS	1	NDHUTYPE	ID FOR USER SECTION -- BITS 0-1 MUST BE B'11' BITS 2-7 CAN BE ANYTHING
3	(3)	ADDRESS	1	NDHUMOD	MODIFIER --
		....		NDHU$MOD	"B'00000000'" MOD VALUE CAN BE ANYTHING
4	(4)	CHARACTER	4	NDHUCODE	SHARE/GUIDE INSTALLATION CODE PLACE USER INFORMATION FIELDS BETWEEN 'NDHUCODE' & 'NDHUEND'
8	(8)	SIGNED	4	NDHUEND(0)	END OF USER SECTION
8	(8)	X'8'	0	NDHULLEN	"*-NDHU" LENGTH OF USER SECTION

Table 331. Structure NDHO

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NDHO	START OF SPOOL OFFLOAD SECT
0	(0)	ADDRESS	2	NDHOLEN	LENGTH OF SPOF SECTION
2	(2)	BITSTRING	2	NDHOFLGS(0)	SECTION TYPE FLAGS

Table 331. Structure NDHO (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2	(2)	ADDRESS	1	NDHOTYPE	ID FOR JES2 SECTION
3	(3)	ADDRESS	1	NDHOMOD	MODIFIER
		1...		NDHO$MOD	"B'10000000'" VALUE OF MODIFIER
4	(4)	CHARACTER	8	NDHOUSER	OWNING USERID
12	(C)	SIGNED	4	NDHOTIME	JOE CREATION TIME
16	(10)	SIGNED	4	NDHODSNO	FULLWORD DATA SET NUMBER
20	(14)	SIGNED	2	NDHOPRIO	PRIORITY OF DATA SET
22	(16)	BITSTRING	1	NDHOFLG1	Flags
		1...		NDHOF1SF	"B'10000000'" DS had store-and-forward token at time of offload
		.1..		NDHOF1NF	"B'01000000'" DS had local token at time of offload
23	(17)	BITSTRING	1		RESERVED FOR FUTURE USE
24	(18)	SIGNED	4	NDHOEND(0)	END OF JES2 SPOF SECTION
24	(18)	X'18'	0	NDHOLLEN	"*-NDHO" LENGTH OF SPOF SECTION

Table 332. Structure NDHOX

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NDHOX	Start of TP offload section
0	(0)	ADDRESS	2	NDHOXLEN	Length of TP section
2	(2)	BITSTRING	2	NDHOXFGX(0)	Section type flags
2	(2)	ADDRESS	1	NDHOXTYP	Id for JES2 section
3	(3)	ADDRESS	1	NDHOXMOD	Modifier
		11..		NDHO$MTP	"B'11000000'" Value of modifier
4	(4)	BITSTRING	1	NDHOXFG1	DSCT flag byte 1
		1...		NDHOX1UN	"B'10000000'" Userid is undefined
5	(5)	BITSTRING	3		Reserved for future use
8	(8)	CHARACTER	8	NDHOXJBN	Job name
16	(10)	CHARACTER	8	NDHOXWKD	Work unit identifier
24	(18)	BITSTRING	8	NDHOXEST	Entry start clock time
32	(20)	BITSTRING	8	NDHOXXST	Execution start clock time
40	(28)	SIGNED	4	NDHOXETS	Entry time in 1/100's sec
44	(2C)	SIGNED	4	NDHOXEDT	Entry date 00yydddf
48	(30)	CHARACTER	8	NDHOXUID	User identification field
56	(38)	CHARACTER	8	NDHOXTUD	Transaction Program Userid
64	(40)	CHARACTER	4	NDHOXACT	Account number
68	(44)	SIGNED	4	NDHOXEND(0)	END OF JES2 TP SPOF SECTION
68	(44)	X'44'	0	NDHOXLLN	"*-NDHOX" LENGTH OF TP SPOF SECTION
GENERAL SECTION, NDHGFLG1					
		1...		NDHGF1SP	"B'10000000'" SPIN DATA SET
		.1..		NDHGF1HD	"B'01000000'" HOLD DATA SET AT DESTINATION
		..1.		NDHGF1LG	"B'00100000'" JOB LOG INDICATOR
		...1		NDHGF1OV	"B'00010000'" PAGE OVERFLOW INDICATOR
		.... 1...		NDHGF1IN	"B'00001000'" PUNCH INTERPRET INDICATOR

Table 332. Structure NDHOX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		NDHGF1LC	"B'00000100'" NDHLINCT SET INDICATOR
		.... ..1.		NDHGF1ST	"B'00000010'" JOB STATISTICS IN JOB LOG
GENERAL SECTION,NDHGFLG2					
		1...		NDHGF2PR	"B'10000000'" DATASET IS BEING PRINTED
		.1..		NDHGF2PU	"B'01000000'" DATASET IS BEING PUNCHED
		..1.		NDHGF2RM	"B'00100000'" FIELD NDHGRMT CONTAINS TRUE REMOTE (NOT USERID)
		...1		NDHGF2HB	"B'00010000'" HOLD DATASET BEFORE PRINT OR PUNCH OPERATION
		.... 1...		NDHGF2HA	"B'00001000'" HOLD DATASET AFTER PRINT OR PUNCH OPERATION
		.... .1..		NDHGF2HX	"B'00000100'" Data set should be held at JES3 nodes for external writer. JES3 only.
		.... ..1.		NDHGF2TR	"B'00000010'" Truncate trailing blanks. JES3 only.
		1		NDHGF2NO	"B'00000001'" Non-printable SYSOUT data set. Contains internal control information.

OUTDISP	NDHGFLG1 NDHGF1HD	NDHGFLG2 NDHGF2HB	NDHGFLG2 NDHGF2HA	NOTE #1 - These bit combinations only occur when SYSOUT created by a version 4 system is released by a down level (pre SP410) system.
WRITE	0	0	0	
KEEP	#1 0	0	1	
WRITE	#1 0	1	0	
KEEP	#1 0	1	1	
HOLD	#2 1	0	0	
KEEP	1	0	1	NOTE #2 - This combination will be considered as HOLD when received from a down level node.
HOLD	1	1	0	
LEAVE	1	1	1	

GENERAL SECTION,NDHGUCSO

		1...		NDHGUCSD	"B'10000000'" BLOCK DATA CHECK OPTION
		.1..		NDHGUCSF	"B'01000000'" FOLD OPTION
3800 CHARACTERISTICS GENERAL SECTION, NDHAFLG1					
		1...		NDHAF1J	"B'10000000'" 'OPTCD=J' SPECIFIED
		.1..		NDHAF1BR	"B'01000000'" 'BURST=YES' SPECIFIED

Table 332. Structure NDHOX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		NDHAF1BN	"B'00100000'" 'BURST=NO' SPECIFIED
		.11.		NDHAF1BD	"B'01100000'" TEST 'BURST DEFAULT' BYTE REAL DEFAULT IS '.00.....'
68	(44)	X'7B8B'	0	NDHMAXLN	"(253-4)*127+4" Maximum size of dataset header: 127 records allowed by sequencing field * maximum size of each record (253) less the size of the sequencing fields (4) + general header prefix.

Table 333. Cross Reference for $NHD

Name	Offset	Hex Tag
HJHOOTSD	6C	40404040
HJHOSLGS	58	40404040
NDH	0	
NDHA	0	
NDHA$MOD	3	80
NDHACPYG	38	0
NDHAEND	40	
NDHAFLCT	5	
NDHAFLGS	2	
NDHAFLG1	4	0
NDHAFLSH	28	40404040
NDHAF1BD	44	60
NDHAF1BN	44	20
NDHAF1BR	44	40
NDHAF1J	44	80
NDHALEN	0	40
NDHALLEN	40	40
NDHAMOD	3	
NDHAMODF	30	40404040
NDHATAB1	8	40404040
NDHATAB2	10	40404040
NDHATAB3	18	40404040
NDHATAB4	20	40404040
NDHATREF	6	0
NDHATYPE	2	
NDHC	0	
NDHC$MOD	3	40
NDHCEND	8	
NDHCFLGS	2	
NDHCFLG1	4	0
NDHCLEN	0	
NDHCLLEN	8	8
NDHCLREC	6	
NDHCMOD	3	

Table 333. Cross Reference for $NHD (continued)

Name	Offset	Hex Tag
NDHCRCFM	5	0
NDHCTYPE	2	
NDHFLAGS	2	0
NDHG	4	
NDHG$MOD	7	0
NDHGCLAS	33	C1
NDHGDD	28	40404040
NDHGDSCT	3C	
NDHGDSNO	30	0
NDHGEND	78	
NDHGFCB	48	40404040
NDHGFCBI	3D	
NDHGFLGS	6	
NDHGFLG1	38	0
NDHGFLG2	68	0
NDHGFORM	40	40404040
NDHGF1HD	44	40
NDHGF1IN	44	8
NDHGF1LC	44	4
NDHGF1LG	44	20
NDHGF1OV	44	10
NDHGF1SP	44	80
NDHGF1ST	44	2
NDHGF2HA	44	8
NDHGF2HB	44	10
NDHGF2HX	44	4
NDHGF2NO	44	1
NDHGF2PR	44	80
NDHGF2PU	44	40
NDHGF2RM	44	20
NDHGF2TR	44	2
NDHGLEN	4	
NDHGLLEN	78	74
NDHGLNCT	3E	
NDHGLREC	3A	0
NDHGMOD	7	
NDHGNAME	60	40404040
NDHGNODE	8	40404040
NDHGNREC	34	0
NDHGPMDE	6C	40404040
NDHGPROC	18	40404040
NDHGRCFM	39	0
NDHGRMT	10	40404040
NDHGSEC	32	
NDHGSEGN	74	0
NDHGSTEP	20	40404040
NDHGTYPE	6	
NDHGUCS	50	40404040
NDHGUCSD	44	80

Table 333. Cross Reference for $NHD (continued)

Name	Offset	Hex Tag
NDHGUCSF	44	40
NDHGUCSO	69	0
NDHGXWTR	58	40404040
NDHLBCI	3	4
NDHLEN	0	
NDHLLEN	78	78
NDHMAXLN	44	7B8B
NDHO	0	
NDHO$MOD	3	80
NDHO$MTP	3	C0
NDHODSNO	10	0
NDHOEND	18	
NDHOFLGS	2	
NDHOFLG1	16	
NDHOF1NF	16	40
NDHOF1SF	16	80
NDHOLEN	0	
NDHOLLEN	18	18
NDHOMOD	3	
NDHOPRIO	14	0
NDHOTIME	C	0
NDHOTYPE	2	
NDHOUSER	4	40404040
NDHOX	0	
NDHOXACT	40	
NDHOXEDT	2C	
NDHOXEND	44	
NDHOXEST	18	
NDHOXETS	28	
NDHOXFGX	2	
NDHOXFG1	4	
NDHOXJBN	8	
NDHOXLEN	0	
NDHOXLLN	44	44
NDHOXMOD	3	
NDHOXTUD	38	
NDHOXTYP	2	
NDHOXUID	30	
NDHOXWKD	10	
NDHOXXST	20	
NDHOX1UN	4	80
NDHS	0	
NDHS$OUT	3	0
NDHSEQ	3	0
NDHSFLEN	4	1C
NDHSFLGS	2	
NDHSFLG1	6	0
NDHSGPID	14	0
NDHSJDVT	8	0

Table 333. Cross Reference for $NHD (continued)

Name	Offset	Hex Tag
NDHSLEN	0	
NDHSLEN2	14	1C
NDHSMOD	3	
NDHSNSTR	10	0
NDHSSDAT	1C	
NDHSTYPE	2	
NDHS1CPD	6	80
NDHT	0	
NDHT$MOD	3	0
NDHTEND	58	
NDHTFLGS	2	
NDHTLEN	0	
NDHTLENP	4	
NDHTLLEN	58	58
NDHTMOD	3	
NDHTTOKN	8	40404040
NDHTTYPE	2	
NDHU	0	
NDHU$MOD	3	0
NDHUCODE	4	40404040
NDHUEND	8	
NDHUFLGS	2	
NDHULEN	0	
NDHULLEN	8	8
NDHUMOD	3	
NDHUTYPE	2	
NJH	0	
NJHA	0	
NJHA$MOD	3	0
NJHAFLEN	6	8
NJHAFLGS	2	
NJHAFLG1	4	
NJHAF1OV	4	80
NJHAJAC1	B	
NJHAJLEN	8	
NJHAJNR	A	
NJHALEN	0	
NJHAMOD	3	
NJHAOFFS	6	
NJHATYPE	2	
NJHE	0	
NJHE$JS	3	0
NJHEBYTE	8	0
NJHECLS8	C	40404040
NJHEEND	5C	
NJHEFLGS	2	
NJHELEN	0	
NJHELLEN	5C	5C
NJHEMOD	3	

Table 333. Cross Reference for $NHD (continued)

Name	Offset	Hex Tag
NJHEOCOR	14	40404040
NJHEPAGE	4	0
NJHETYPE	2	
NJHEXSYS	54	
NJHFLAGS	2	0
NJHG	4	
NJHG$MOD	7	0
NJHGACCT	14	40404040
NJHGBLDG	C0	40404040
NJHGDEPT	B8	40404040
NJHGECRD	98	0
NJHGELIN	94	0
NJHGEND	D8	
NJHGETIM	90	0
NJHGETS	3C	0
NJHGFLGS	6	
NJHGFLG1	C	0
NJHGFORM	84	40404040
NJHGF1CA	C	4
NJHGF1CF	C	8
NJHGF1JN	C	40
NJHGF1NE	C	1
NJHGF1PE	C	2
NJHGF1PR	C	80
NJHGHOPS	12	0
NJHGICRD	8C	0
NJHGJCLS	A	C1
NJHGJCPY	F	
NJHGJID	8	0
NJHGJNAM	1C	40404040
NJHGJNO	CC	0
NJHGLEN	4	
NJHGLLEN	D8	D4
NJHGLNCT	10	
NJHGMCLS	B	C1
NJHGMOD	7	
NJHGNPAS	34	
NJHGNREC	C8	0
NJHGNTYN	D0	40404040
NJHGORGN	44	40404040
NJHGORGQ	E	
NJHGORGR	4C	40404040
NJHGORGU	D8	24
NJHGPASS	2C	
NJHGPRGN	9C	40404040
NJHGPRIO	D	
NJHGPRTN	64	40404040
NJHGPRTR	6C	40404040
NJHGPUNN	74	40404040

Table 333. Cross Reference for $NHD (continued)

Name	Offset	Hex Tag
NJHGPUNR	7C	40404040
NJHGROOM	B0	40404040
NJHGTYPE	6	
NJHGUSID	24	40404040
NJHGXEQN	54	40404040
NJHGXEQU	5C	40404040
NJHLBCI	3	4
NJHLEN	0	
NJHLLEN	78	1E8
NJHMAXLN	78	7B8B
NJHO	0	
NJHO$AFF	3	C0
NJHO$MOD	3	80
NJHOCLAS	7	0
NJHOCLS8	70	40404040
NJHOCRTM	54	0
NJHOCVSD	64	40404040
NJHODATE	C	0
NJHOEND	78	
NJHOEXSD	68	40404040
NJHOFLGS	2	
NJHOFLG1	4	0
NJHOFLG2	5	0
NJHOF1CV	78	4
NJHOF1HD	78	80
NJHOF1HO	78	40
NJHOF1MC	78	20
NJHOF1MH	78	8
NJHOF1MS	78	10
NJHOF2ED	78	20
NJHOF2PR	78	80
NJHOF2SD	78	40
NJHOLEN	0	
NJHOLLEN	78	78
NJHOMOD	3	
NJHOOJBN	38	
NJHOOJNO	20	0
NJHOPRIO	6	0
NJHOPRRM	2C	0
NJHOPRTN	24	40404040
NJHOPRTU	10	40404040
NJHOPUNN	2E	40404040
NJHOPUNU	18	40404040
NJHOPURM	36	0
NJHORDSD	60	40404040
NJHOSAF	22	0
NJHOSCHE	44	
NJHOSRVC	3C	
NJHOTIME	8	0

Table 333. Cross Reference for $NHD (continued)

Name	Offset	Hex Tag
NJHOTYPE	2	
NJHOX	0	
NJHOXFGS	2	
NJHOXFG1	4	0
NJHOXLLN	A	E
NJHOXLN	0	
NJHOXMOD	3	
NJHOXOFF	6	
NJHOXSAF	A	0
NJHOXSAL	8	
NJHOXTYP	2	
NJHOX1IM	4	80
NJHOX1NY	4	40
NJHSEQ	3	0
NJHT	0	
NJHT$MOD	3	0
NJHTEND	58	
NJHTFLGS	2	
NJHTFLG0	6	0
NJHTF0JB	6	80
NJHTLEN	0	
NJHTLENP	4	
NJHTLLEN	58	58
NJHTMOD	3	
NJHTTOKN	8	40404040
NJHTTYPE	2	
NJHU	0	
NJHU$MOD	3	0
NJHUCODE	4	40404040
NJHUEND	8	
NJHUFLGS	2	
NJHULEN	0	
NJHULLEN	8	8
NJHUMOD	3	
NJHUTYPE	2	
NJH2	0	
NJH2$MOD	3	0
NJH2$RSV	3	1
NJH2ACCT	8	40404040
NJH2ACML	2C	34
NJH2DFJG	3C	20
NJH2END	3C	
NJH2ERST	3C	20
NJH2ESMF	3C	80
NJH2ESTP	3C	40
NJH2ETRC	3C	10
NJH2EUSR	3C	8
NJH2FJOB	3C	3
NJH2FLGS	2	

Table 333. Cross Reference for $NHD (continued)

Name	Offset	Hex Tag
NJH2FLG1	4	0
NJH2FLG2	5	0
NJH2FSTC	3C	1
NJH2FTSU	3C	2
NJH2GRP	1C	0
NJH2LEN	0	
NJH2LLEN	3C	3C
NJH2LNAM	34	0
NJH2MOD	3	
NJH2SGRP	2C	0
NJH2SUSR	24	0
NJH2TPO	3C	8
NJH2TYPE	2	
NJH2USE	3C	4
NJH2USID	C	40404040
NJH2USR	14	0
NJT	0	
NJT$ACCT	3	0
NJTFLAGS	2	0
NJTG	4	
NJTG$MOD	7	0
NJTGACPU	1C	0
NJTGACRD	24	0
NJTGALIN	20	0
NJTGAOPR	2F	
NJTGAXPR	2D	
NJTGCAB	30	80
NJTGCABN	30	5
NJTGCC	30	
NJTGCCAB	30	6
NJTGCCAN	30	4
NJTGCCC	30	40
NJTGCCNV	30	9
NJTGCECC	30	2
NJTGCEOM	30	8
NJTGCFLU	30	B
NJTGCJCL	30	3
NJTGCNRM	30	1
NJTGCODE	31	
NJTGCOMP	30	
NJTGCSEC	30	7
NJTGCSYS	30	A
NJTGCUNK	30	0
NJTGEND	34	
NJTGEXCP	28	0
NJTGFLGS	6	
NJTGFLG1	8	0
NJTGIOPR	2E	
NJTGIXPR	2C	

Table 333. Cross Reference for $NHD (continued)

Name	Offset	Hex Tag
NJTGLEN	4	
NJTGLLEN	34	30
NJTGMOD	7	
NJTGSTOP	14	0
NJTGSTRT	C	0
NJTGTYPE	6	
NJTGXCLS	9	C1
NJTLBCI	3	4
NJTLEN	0	
NJTLLEN	C	4C
NJTMAXLN	C	7B8B
NJTO	0	
NJTO$MOD	3	80
NJTODATE	8	0
NJTOEND	C	
NJTOFLGS	2	
NJTOLEN	0	
NJTOLLEN	C	C
NJTOMOD	3	
NJTOTIME	4	0
NJTOTYPE	2	
NJTS	0	
NJTSABYT	8	0
NJTSAPAG	4	0
NJTSEND	C	
NJTSEQ	3	0
NJTSFLGS	2	
NJTSLEN	0	
NJTSLLEN	C	C
NJTSMOD	3	
NJTSTYPE	2	
NJTU	0	
NJTU$MOD	3	0
NJTUCODE	4	40404040
NJTUEND	8	
NJTUFLGS	2	
NJTULEN	0	
NJTULLEN	8	8
NJTUMOD	3	
NJTUTYPE	2	
NTYPACCT	78	8D
NTYPASP	78	81
NTYPGDS	78	89
NTYPGEN	78	0
NTYPGJS	78	8A
NTYPHASP	78	82
NTYPJES1	78	83
NTYPJES2	78	84
NTYPJES3	78	85

Table 333. Cross Reference for $NHD (continued)

Name	Offset	Hex Tag
NTYPPOWR	78	86
NTYPSAF	78	8C
NTYPSUB	78	80
NTYPUSER	78	C0
NTYPVNET	78	87

Chapter 140. $NIT Information

$NIT Programming Interface Information

The following fields are **NOT** programming interface information:

- NITNSACT
- NITPASS
- NITSPASS

$NIT Heading Information

Common Name:	Node Information Table
Macro ID:	$NIT
DSECT Name:	NIT NITPSECT NITC NITC0
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	The pool of NITs is preceded by an eyecatcher '**$NIT POOL**' in the header for the pool. Offset: HDPID-HDP Length: 13
Storage Attributes:	Subpool: 0 Key: 1 Residency: Virtual and real storage anywhere in the private storage of the JES2 address space.
Size:	NITMINL during JES2 initialization NITMINL plus NITPL*$NUMPATH (later) NITCSIZ for checkpointed NITs (NITCs)
Created by:	JES2 initialization
Pointed to by:	$NITABLE field of the $HCT data area $NITCPTR field of the $HCT data area $OWNNIT field of the $HCT data area NSANIT field of the $NSACT data area NITNXTSB field of the $NIT data area NITPLINE field of the $NIT data area NITPPNOD field of the $NIT data area NATPNIT field of the $NAT data area NATSNIT field of the $NAT data area
Serialization:	JES2 main task serialization for most fields. There are some fields that can only be used under the subtask in "full path" processing. $QSUSE is required to access the NITCs.
Function:	To define the nodes in the network this JES2 system is a part of, as well as the paths to those nodes. The NIT is a contiguous piece of virtual storage, with one element for each node ($MAXNODE during initialization, (NJEDEF NODENUM) after initialization). The correct length at any one time is in the $NITESIZ HCT field.

$NIT mapping

Table 334. Structure NIT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NIT	
0	(0)	X'5'	0	NITVERS	"5" Current NIT version
0	(0)	CHARACTER	8	NITNODE	NODE IDENTIFICATION
8	(8)	SIGNED	2	NITNUM	INTERNAL NODE NUMBER (BINARY)
10	(A)	BITSTRING	1	NITPRINC	JOB RECEIVER PRIORITY INCREMENT
11	(B)	BITSTRING	1	NITPRLIM	JOB RECEIVER PRIORITY LIMIT
12	(C)	SIGNED	2	NITLOGN	LOGON DCT NUMBER
14	(E)	BITSTRING	1	NITFLAG	FLAGS
		1...		NITFLAGE	"B'10000000'" SECURE signon required
		.1..		NITFLAGA	"B'01000000'" AUTO DIAL BSC LINE
		..1.		NITFLAGX	"B'00100000'" EXCLUSIVE CONNECTION
		.... 1...		NITFLAGR	"B'00001000'" NODE RESTRICTED FROM LOCAL COMMANDS
		.... .1..		NITFLAGJ	"B'00000100'" NODE RESTRICTED FROM JOB COMMANDS
		.... ..1.		NITFLAGD	"B'00000010'" NODE RESTRICTED FROM DEVICE COMMANDS
		1		NITFLAGS	"B'00000001'" NODE RESTRICTED FROM SYSTEM COMMANDS
15	(F)	BITSTRING	1	NITFLG2	Flag byte
		1...		NIT2NOPM	"B'10000000'" Nonpath manager indicator
		.1..		NIT2PRIV	"B'01000000'" Private node indicator
		..1.		NIT2TRAC	"B'00100000'" $TRACE this node
		...1		NIT2OWN	"B'00010000'" Local node indicator
		.... 1...		NIT2ADJ	"B'00001000'" Adjacent node indicator
		.... .1..		NIT2IRST	"B'00000100'" Ignore resistance from node if non-PM signon
		.... ..1.		NIT2ENDN	"B'00000010'" End node only indicator
		1		NIT2DIR	"B'00000001'" Only allow direct connection to node
16	(10)	BITSTRING	1	NITFLG3	Flag byte 3
		1...		NIT3HRDT	"B'10000000'" Node has STATUS=NODE RDT
		.1..		NIT3ANJE	"B'01000000'" Automatically start NJE
17	(11)	BITSTRING	1	NITSF	SYSTEM CONDITION FLAGS
		1...		NITSFPJT	"B'10000000'" JOB TRANSMITTERS ARE DRAINED
		.1..		NITSFPJR	"B'01000000'" JOB RECEIVERS ARE DRAINED
		..1.		NITSFPST	"B'00100000'" SYSOUT TRANSMITTERS ARE DRAINED
		...1		NITSFPSR	"B'00010000'" SYSOUT RECEIVERS ARE DRAINED

Table 334. Structure NIT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		NITSFHJR	"B'00001000'" JOB RECEIVERS ARE TO HOLD JOBS
		.... .1..		NITSFHSR	"B'00000100'" SYSOUT RECEIVERS ARE TO HOLD JOBS
		.... ..1.		NITSFPEN	"B'00000010'" Use Password encryption
		1		NITSFREA	"B'00000001'" Node is currently reachable
18	(12)	SIGNED	2	NITANINT	Restart interval (minutes)
20	(14)	SIGNED	4	NITANTIM	Disconnect time (STCK)
24	(18)	CHARACTER	8	NITPASS	Password expected from node
32	(20)	CHARACTER	8	NITSPASS	Password sent to node
40	(28)	BITSTRING	1	NITCMPCT	COMPACTION TABLE ID
41	(29)	BITSTRING	1		Reserved
42	(2A)	SIGNED	2	NITREST	DEFAULT APPL RESISTANCE
44	(2C)	SIGNED	4	(0)	
44	(2C)	ADDRESS	4	NITNSACT	Ptr to related NSACT entry
48	(30)	ADDRESS	4	NITNXTSB	Ptr to next NIT in subnet
52	(34)	CHARACTER	8	NITSUBST	Subnet name
60	(3C)	CHARACTER	8	NITLMODE	Default VTAM logmode
68	(44)	SIGNED	2	NITLINE	Dedicated line number
70	(46)	SIGNED	2	NITNSRV	NJE Server number
70	(46)	X'48'	0	NITMINL	"*-NIT" Minimum (INIT) NIT elmt len
72	(48)	ADDRESS	4	NITNAT	Chain of related NATs
76	(4C)	CHARACTER	8	NITSECLB	SECLABEL of node (SDSF use)
The following 3 fields are used by full path.					
84	(54)	ADDRESS	4	NITNITPN	Next NIT in full path chain
88	(58)	ADDRESS	4	NITNITPP	Prev NIT in full path chain
92	(5C)	ADDRESS	4	NITBNITP	Addr of best unexplored NPMNITP
96	(60)	ADDRESS	4	NITRESV3	Reserved for future use
96	(60)	X'64'	0	NITBLEN	"*-NIT" Length of the base NIT
100	(64)	BITSTRING	1	NITPATH1	First path information

Table 335. Structure NITPSECT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NITPSECT	INDIVIDUAL PATH FIELDS
0	(0)	ADDRESS	4	NITPLINE	Associated DCT or NIT
0	(0)	X'0'	0	NITL	"NITPLINE-NITPSECT,4" Offset for line
4	(4)	ADDRESS	4	NITPREST	PATH RESISTANCE
4	(4)	X'4'	0	NITR	"NITPREST-NITPSECT,4" Offset for resistance
4	(4)	BITSTRING	0	NITPMT	"X'7FFFFFFF'" Indicate empty path
8	(8)	ADDRESS	4	NITPPNOD	Addr of prev NIT in path
12	(C)	BITSTRING	1	NITPFLAG	Flag byte
		1...		NITPFSTA	"B'10000000'" Path is via static connect

Table 335. Structure NITPSECT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		NITPFNIT	"B'01000000'" NITPLINE points to a NIT
		..1.		NITPFSUB	"B'00100000'" Path is through a subnet
13	(D)	BITSTRING	1	NITPMEMB	Member number if NITPFSTA is set
13	(D)	X'D'	0	NITM	"NITPMEMB-NITPSECT,1" Offset for member
14	(E)	BITSTRING	1	NITPMEMP	Member with primary line
14	(E)	X'E'	0	NITMP	"NITPMEMP-NITPSECT,1" Offset for primary member
15	(F)	BITSTRING	1		Reserved for future use
		Line and node IDs (indexes) shadowed from DCT or NIT pointed to by NITPLINE.			
16	(10)	SIGNED	2	NITPLNID	DCT or NIT id
18	(12)	SIGNED	2	NITPNDID	Intermediate node id (MDCTNODE from DCT)
20	(14)	SIGNED	4	(0)	Ensure fullword allignment
20	(14)	X'14'	0	NITPL	"*-NITPSECT"
20	(14)	X'0'	0	NITP	"NITPSECT,NITPL" Path element
20	(14)	X'14'	0	NITPNEXT	"*"

Table 336. Structure NITC

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NITC	Checkpointed NIT
0	(0)	X'1'	0	NITCVRSN	"1" Current NITC version
0	(0)	CHARACTER	8	NITCNAME	Node name
8	(8)	CHARACTER	8	NITCSUB	SUBNET name
16	(10)	BITSTRING	4	NITCACAF	Mask of systems that have a path to this node
20	(14)	BITSTRING	1	NITCFLG1	Flags
		1...		NITCF1NP	"B'10000000'" PATHMGR=NO
		.1..		NITCF1EN	"B'01000000'" ENDNODE=YES
		..1.		NITCF1PV	"B'00100000'" PRIVATE=YES
		...1		NITCF1DI	"B'00010000'" DIRECT=YES
21	(15)	BITSTRING	3		Reserved
24	(18)	ADDRESS	4	(2)	Reserved
32	(20)	DBL WORD	8	(0)	Doubleword align
32	(20)	X'20'	0	NITCSIZ	"*-NITC" Length of a NITC

Table 337. Structure NITC0

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NITC0	Checkpointed NIT 0
0	(0)	SIGNED	4	NITC0SEQ	Changes sequence

Table 338. Cross Reference for $NIT

Name	Offset	Hex Tag
NIT	0	

Table 338. Cross Reference for $NIT (continued)

Name	Offset	Hex Tag
NITANINT	12	
NITANTIM	14	
NITBLEN	60	64
NITBNITP	5C	
NITC	0	
NITCACAF	10	
NITCFLG1	14	
NITCF1DI	14	10
NITCF1EN	14	40
NITCF1NP	14	80
NITCF1PV	14	20
NITCMPCT	28	0
NITCNAME	0	
NITCSIZ	20	20
NITCSUB	8	
NITCVRSN	0	1
NITC0	0	
NITC0SEQ	0	
NITFLAG	E	
NITFLAGA	E	40
NITFLAGD	E	2
NITFLAGE	E	80
NITFLAGJ	E	4
NITFLAGR	E	8
NITFLAGS	E	1
NITFLAGX	E	20
NITFLG2	F	
NITFLG3	10	
NITL	0	0
NITLINE	44	
NITLMODE	3C	
NITLOGN	C	
NITM	D	D
NITMINL	46	48
NITMP	E	E
NITNAT	48	
NITNITPN	54	
NITNITPP	58	
NITNODE	0	40404040
NITNSACT	2C	
NITNSRV	46	
NITNUM	8	0
NITNXTSB	30	
NITP	14	0
NITPASS	18	40404040
NITPATH1	64	
NITPFLAG	C	0
NITPFNIT	C	40
NITPFSTA	C	80

Table 338. Cross Reference for $NIT (continued)

Name	Offset	Hex Tag
NITPFSUB	C	20
NITPL	14	14
NITPLINE	0	
NITPLNID	10	
NITPMEMB	D	
NITPMEMP	E	
NITPMT	4	FFFFFF
NITPNDID	12	
NITPNEXT	14	14
NITPPNOD	8	
NITPREST	4	
NITPRINC	A	0
NITPRLIM	B	F
NITPSECT	0	
NITR	4	4
NITREST	2A	
NITRESV3	60	
NITSECLB	4C	
NITSF	11	
NITSFHJR	11	8
NITSFHSR	11	4
NITSFPEN	11	2
NITSFPJR	11	40
NITSFPJT	11	80
NITSFPSR	11	10
NITSFPST	11	20
NITSFREA	11	1
NITSPASS	20	40404040
NITSUBST	34	
NITVERS	0	5
NIT2ADJ	F	8
NIT2DIR	F	1
NIT2ENDN	F	2
NIT2IRST	F	4
NIT2NOPM	F	80
NIT2OWN	F	10
NIT2PRIV	F	40
NIT2TRAC	F	20
NIT3ANJE	10	40
NIT3HRDT	10	80

Chapter 141. $NJTWORK Information

$NJTWORK Programming Interface Information

$NJTWORK is a programming interface.

$NJTWORK Heading Information

Common Name:	JES2 Job Transmitter PCE Work Area
Macro ID:	$NJTWORK
DSECT Name:	PCE ($NJTWORK is part of the PCE DSECT)
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4
Storage Attributes:	Subpool: See $PCE Key: See $PCE Residency: See $PCE
Size:	See symbol JTWPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by:	See $PCE
Pointed to by:	$NJTPCE field of the $HCT data area $OJTPCE field of the $HCT data area $NRTPCE field of the $HCT data area DCTPCE field of the $DCT data area See $PCE for other pointer fields that apply to all PCE types.
Serialization:	Normal PCE dispatch serialization
Function:	The fields in this work area are used by a JES2 Job Transmitter Processor and by its support routines and exits. $NJTWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $NJTWORK are actually part of the PCE DSECT, but only map PCEs with the value PCENJTID or PCENRTID in the second byte of field PCEID. This PCE is device related. This processor type has a one-to-one relationship to devices. Field PCEDCT points to a Device Control Table (DCT) and field DCTPCE in that DCT points to this PCE.

$NJTWORK mapping

Table 339. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
320	(140)	BITSTRING	8	JTWKEY(0)	JOB AND DATA SET KEYS
320	(140)	BITSTRING	4	JTWJBKEY	JOB IDENTIFIER KEY
324	(144)	BITSTRING	4	JTWDSKEY	DATA SET KEY
328	(148)	DBL WORD	8	JTWEXTPL	$EXTP PARAMETER LIST AREA

Table 339. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
336	(150)	BITSTRING	1	JTWRSRCB	SRCB SAVED FOR ROUTE RECEIVER
337	(151)	BITSTRING	1	JTWRECTP	Saved spanned record type
338	(152)	SIGNED	2	JTWHDRLN	SAVE AREA FOR JCT HEADER LENGTH
340	(154)	SIGNED	4	JTWCOUNT	COUNT OF RECORDS TRANSMITTED
344	(158)	ADDRESS	4	JTWSBUF	SMF BUFFER POINTER
348	(15C)	ADDRESS	4	JTWDSBUF	JCL/SYSIN data buffer
352	(160)	DBL WORD	8	JTWCWKAR(0)	Common Work area
JTWRECCT and JTWCURRC are for SDSF's use					
352	(160)	X'1BC'	0	JTWRECCT	"(JTWRCOUN-JTW)+JTWCWKAR" Total record count
352	(160)	X'1C0'	0	JTWCURRC	"(JTWCUREC-JTW)+JTWCWKAR" Current record count
816	(330)	DBL WORD	8		Reserved
824	(338)	ADDRESS	4	JTWPARM	NODE TABLE ADDRESS
828	(33C)	ADDRESS	4		CONTROL BLOCK ADDRESS
832	(340)	ADDRESS	4		ADDRESS OF JQE
836	(344)	ADDRESS	1		QUEUE TYPE SPECIFIED
837	(345)	ADDRESS	1		WORK SELECTION TYPE FLAG
838	(346)	ADDRESS	1		RESERVED FOR FUTURE USE
838	(346)	X'338'	0	JTWLST	"JTWPARM,*-JTWPARM" QGET PARAMETER LIST STORAGE
838	(346)	X'207'	0	JTWPCEWS	"*-PCEWORK" LENGTH OF PCE WORK AREA

Table 340. Cross Reference for $NJTWORK

Name	Offset	Hex Tag
JTWCOUNT	154	
JTWCURRC	160	1C0
JTWCWKAR	160	
JTWDSBUF	15C	
JTWDSKEY	144	
JTWEXTPL	148	
JTWHDRLN	152	
JTWJBKEY	140	
JTWKEY	140	
JTWLST	346	338
JTWPARM	338	
JTWPCEWS	346	207
JTWRECCT	160	1BC
JTWRECTP	151	
JTWRSRCB	150	
JTWSBUF	158	
PCE	0	

Chapter 142. $NPIPARM Information

$NPIPARM Heading Information

Common Name:	HASPNSNR Parameter list
Macro ID:	$NPIPARM
DSECT Name:	NPISPARM
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	none
Storage Attributes:	Subpool: any Key: 1 Residency: Private storage, Virtual storage below 2GB, real storage antwhere
Size:	See NPIPARML
Created by:	Callers of HASPNDCN service
Pointed to by:	
Serialization:	JES2 Main Task
Function:	Parameter list for HASPNDCN service in HASPNPM

$NPIPARM mapping

Table 341. Structure NPISPARM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NPISPARM	
0	(0)	CHARACTER	8	NPIPLPAS	LINE PASSWORD
8	(8)	CHARACTER	8	NPIPNPAS	NODE PASSWORD
16	(10)	ADDRESS	4	NPINITA	Other node's NIT address
16	(10)	X'14'	0	NPIPARML	"*-NPISPARM"

Chapter 143. $NRMWORK Information

$NRMWORK Heading Information

Common Name:	Network Resource Monitor Work Area
Macro ID:	$NRMWORK
DSECT Name:	PCE ($NRMWORK is part of the PCE DSECT)
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4
Storage Attributes:	Subpool: See $PCE Key: See $PCE Residency: See $PCE
Size:	See symbol NRMPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by:	See $PCE
Pointed to by:	The $NRMPCE field of the $HCT data area points to Network Resource Monitor PCE. See $PCE for other pointer fields that apply to all PCE types.
Serialization:	Normal PCE dispatch serialization
Function:	The fields in this work area are used by a JES2 Network Resource Monitor Processor and by its support routines and exits. $NRMWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $NRMWORK are actually part of the PCE DSECT, but only map PCEs with the value PCENRMID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

$NRMWORK mapping

Table 342. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	
320	(140)	DBL WORD	8	NRMCTIME	Current time
328	(148)	DBL WORD	8	NRMWTIME	Next wakeup time
336	(150)	BITSTRING	1	NRMFLAG1	Flags
		1...		NRM1CONN	"B'10000000'" Attempting auto-connect
		.1..		NRM1PAWS	"B'01000000'" Pause to let current request complete
		..1.		NRM1DBYP	"B'00100000'" Device start scan bypassed
337	(151)	BITSTRING	1	NRMBMDSP	$BLDMSG DISPER value
338	(152)	SIGNED	2	NRMANINT	Temporary interval value
340	(154)	BITSTRING	12	NRMTQE	NRM TQE

Table 342. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
352	(160)	DBL WORD	8	NRMDWORK	Work area
Current control blocks					
360	(168)	ADDRESS	4	NRMNIT	Current NIT address
364	(16C)	ADDRESS	4	NRMSCK	Current SCK address
368	(170)	ADDRESS	4	NRMAPT	Current APT address
372	(174)	ADDRESS	4	NRMLNDCT	Current Line DCT address
376	(178)	ADDRESS	4	NRMLGDCT	Current Logon DCT address
380	(17C)	ADDRESS	4	NRMNSDCT	Current NETSRV DCT address
380	(17C)	X'168'	0	NRMCBS	"NRMNIT,*-NRMNIT" All control blocks
SNASNET parms					
384	(180)	SIGNED	4	NRMSSNET(0)	
384	(180)	SIGNED	4	NRMSSNLN	Line address
388	(184)	SIGNED	4	NRMSSNNM	APPL id address
392	(188)	SIGNED	4	NRMSSNMG	Returned message address
TCPSNET parms					
396	(18C)	SIGNED	4	NRMTSNET(0)	
396	(18C)	SIGNED	4	NRMTSNLN	Line address
400	(190)	SIGNED	4	NRMTSNNM	SOCKET name address
404	(194)	SIGNED	4	NRMTSNMG	Returned message address
HASPNSNR parms					
408	(198)	BITSTRING	20	NRMNSNRP	HASPNSNR pams
428	(1AC)	SIGNED	4	NRMBLDM(0)	Control block ID
432	(1B0)	BITSTRING	4		Console ID
436	(1B4)	ADDRESS	4		Address of the CART
440	(1B8)	ADDRESS	4		Pointer for JOBID
444	(1BC)	ADDRESS	4		Control block address
448	(1C0)	ADDRESS	4		Display routine address
452	(1C4)	ADDRESS	4	(6)	6 word work area
476	(1DC)	ADDRESS	4		Caller's R11 value
480	(1E0)	BITSTRING	2		ROUT code for Message
482	(1E2)	BITSTRING	2		Not used
484	(1E4)	CHARACTER	4		Message ID
488	(1E8)	CHARACTER	1		Separator character
489	(1E9)	ADDRESS	1		Flag byte 1
490	(1EA)	ADDRESS	1		'DISPER'
491	(1EB)	ADDRESS	1		Flag byte 2
492	(1EC)	ADDRESS	1		Flag byte 3
493	(1ED)	CHARACTER	8		Symbolic name of dest.
501	(1F5)	BITSTRING	15		Not used
516	(204)	ADDRESS	4	(0)	Ensure multiple of 4
516	(204)	ADDRESS	2	(0)	
516	(204)	CHARACTER	132	NRMMSG	Returned message area
648	(288)	DBL WORD	8	(0)	Ensure alignment
648	(288)	X'148'	0	NRMPCEWS	"*-PCEWORK"

Table 343. Cross Reference for $NRMWORK

Name	Offset	Hex Tag
NRMANINT	152	
NRMAPT	170	
NRMBLDM	1AC	C2D3C440
NRMBMDSP	151	
NRMCBS	17C	168
NRMCTIME	140	
NRMDWORK	160	
NRMFLAG1	150	
NRMLGDCT	178	
NRMLNDCT	174	
NRMMSG	204	
NRMNIT	168	
NRMNSDCT	17C	
NRMNSNRP	198	
NRMPCEWS	288	148
NRMSCK	16C	
NRMSSNET	180	
NRMSSNLN	180	
NRMSSNMG	188	
NRMSSNNM	184	
NRMTQE	154	
NRMTSNET	18C	
NRMTSNLN	18C	
NRMTSNMG	194	
NRMTSNNM	190	
NRMWTIME	148	
NRM1CONN	150	80
NRM1DBYP	150	20
NRM1PAWS	150	40
PCE	0	

Chapter 144. $NSACT Information

$NSACT Programming Interface Information

$NSACT is a programming interface.

$NSACT Heading Information

Common Name:	Network Subnet AnChor Table entry
Macro ID:	$NSACT
DSECT Name:	NSACT
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	NSA Offset: NSAID-NSACT Length: L'NSAID
Storage Attributes:	Subpool: 0 Key: 1 Residency: Virtual storage can be anywhere in 31 bit storage. Real storage can be anywhere in 64 bit storage.
Size:	See NSALEN
Created by:	NSETSUBS routine in HASPNPM
Pointed to by:	PCTNSAAQ fields of the PCT data area NSANEXT fields of the NSACT data area
Serialization:	Normal PCE dispatch serialization
Function:	The NSACT is a linked list of the subnets currently defined to the system and a pointer to a list of NITs describing the members of that subnet.

$NSACT mapping

Table 344. Structure NSACT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NSACT	
0	(0)	CHARACTER	4	NSAID	Eyecatcher
4	(4)	ADDRESS	1	NSAVER	NSA version field
4	(4)	X'1'	0	NSAVERN	"1" NSA version number
5	(5)	BITSTRING	3		Reserved for future use
8	(8)	CHARACTER	8	NSANAME	Subnet name
16	(10)	ADDRESS	4	NSANEXT	Next subnet pointer
20	(14)	ADDRESS	4	NSANIT	First NIT related to subnet
20	(14)	X'18'	0	NSALEN	"*-NSACT" Length of an NSACT

Chapter 145. $NSCT Information

$NSCT Heading Information

Common Name: NJE Server Control Table
Macro ID: $NSCT
DSECT Name: NSCT
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'NSCT'
Offset: NSCID-NSC
Length: 4
Storage Attributes: Subpool: n/a
Key: 1
Residency: In a JES2 NJE Server address space

Size: See NSCTLEN
Created by: HASCNJAS
Pointed to by: NSSNSCT field of the $NSST data area
NSWNSCT field of the $NSWE data area
TCTJSDTA field of the IAZYTCT data area
Serialization:
Function: Anchors the main parameters in a JES2 NJE Server address space

$NSCT mapping

Table 345. Structure NSCT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NSCT	
0	(0)	CHARACTER	4	NSCID	NSCT eyecatcher
4	(4)	ADDRESS	1	NSCVER	NSCT version number
4	(4)	X'1'	0	NSCVERN	"1" NSCT version
5	(5)	BITSTRING	3		Reserved
8	(8)	ADDRESS	4	NSCSPCL	PCL address of server PCL
12	(C)	ADDRESS	4	NSCHCCT	HCCT address
16	(10)	ADDRESS	4	NSCTCT	IAZYTCT address
20	(14)	ADDRESS	4	NSCPALET	ALET for PCL data space
24	(18)	ADDRESS	4	NSCTALET	ALET for TBUF data space
28	(1C)	ADDRESS	4	NSCNALET	ALET for NIT data space
32	(20)	SIGNED	4	NSCTECB	ECB
36	(24)	BITSTRING	3	NSCDEVID	Device id of server
39	(27)	BITSTRING	1		Reserved
40	(28)	BITSTRING	4		Reserved
44	(2C)	ADDRESS	4	NSCNSSTH	Head of NSST chain
48	(30)	ADDRESS	4	NSCNSSTT	Tail of NSST chain
52	(34)	ADDRESS	4	NSCNSWEH	Head of subtask chain
56	(38)	ADDRESS	4	NSCNSWET	Tail of subtask chain
60	(3C)	ADDRESS	4	NSCGPWEH	Head of GP subtask chain
64	(40)	ADDRESS	4	NSCGPWET	Tail of GP subtask chain
68	(44)	ADDRESS	4	NSCGPQEH	Head of GP subtask work q

Table 345. Structure NSCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
72	(48)	ADDRESS	4	NSCGPQET	Tail of GP subtask work q
76	(4C)	ADDRESS	4	NSCNCPE	Address of POST element
80	(50)	ADDRESS	2	NSCGPCNT(2)	Initial/current subtask counts for GP subtasks
84	(54)	ADDRESS	2	NSCRQCNT(2)	Initial/current subtask counts for request subtask
88	(58)	ADDRESS	4	NSCBUFQ	Buffers queued for garbage collection
92	(5C)	SIGNED	4	NSCGPECB	GP subtask restart ECB
96	(60)	ADDRESS	4	(6)	Reserved
120	(78)	DBL WORD	8	NSCDWORK	Doubleword work area
128	(80)	SIGNED	4	NSCTSAVE(18)	Save area for init routine and server main task
200	(C8)	BITSTRING	600	NSCTTRCA	TRCA
800	(320)	DBL WORD	8	NSCTWORK(0)	Working storage
	Parameter list for ESTAEX macro				
800	(320)	SIGNED	4	(0)	
800	(320)	ADDRESS	1	NSCESTAE	FLAGS FOR ESTAEX
801	(321)	ADDRESS	1		SECOND FLAG BYTE
802	(322)	ADDRESS	1		THIRD FLAG BYTE
803	(323)	ADDRESS	1		VERSION NUMBER
804	(324)	ADDRESS	4		TOKEN VALUE AREA
808	(328)	ADDRESS	4		PARM. LIST ADDR. NOT SPECIFIED
812	(32C)	ADDRESS	4		ALET FOR PARM LIST
816	(330)	ADDRESS	4		EXIT ADDR NOT SPECD
816	(330)	X'14'	0	NSCESTLN	"*-NSCESTAE" Length of list form
	Parameter list for IDENTIFY macro				
800	(320)	SIGNED	4	NSCIDENT(0)	IDENTIFY parm list (see IEAVID00 for details)
800	(320)	ADDRESS	4	NSCID_ADDR	Entry address
804	(324)	CHARACTER	8	NSCID_NAME	Entry name
812	(32C)	BITSTRING	1	NSCID_AMODE	AMODE indicator (X'02' --> 31 bit)
813	(32D)	BITSTRING	3		Reserved
816	(330)	SIGNED	4	NSCID_XTLNG	Length of the extent list
820	(334)	SIGNED	4	NSCID_XTCNT	Number of extents
824	(338)	SIGNED	4	NSCID_XTLEN	Length of extent
828	(33C)	ADDRESS	4	NSCID_XTADR	Start of 1st extent
828	(33C)	X'10'	0	NSCID_XTSIZ	"*-NSCID_XTLNG" Length of extent list area
	Parameter list for STIMERM macro				
800	(320)	ADDRESS	4	NSCDECBL(2)	ECB list
808	(328)	SIGNED	4	NSCDSTID	STIMERM ID=id-area
812	(32C)	SIGNED	4	NSCDTECB	STIMER ECB
	MACDATE = 08/19/88				
816	(330)	BITSTRING	24	NSCDSTMS	REMOTE STIMERM SET PARM LIST
	MACDATE = 08/19/88				
840	(348)	BITSTRING	16	NSCDSTMC	REMOTE STIMERM TEST/CANCEL PARM LIST

Table 345. Structure NSCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
	Parameter list for ENFREQ macro				
800	(320)	ADDRESS	4	NSCEECBL(2)	ECB list
808	(328)	SIGNED	4	NSCETOKN	Token for ENFREQ DELETE
812	(32C)	SIGNED	4	NSCENFPT	ENFPTR equated to this
816	(330)	SIGNED	4	NSCENFRQ(0)	START OF ENF PARAMETER LIST
816	(330)	ADDRESS	2		LENGTH OF ENF PARAMETER LIST
818	(332)	ADDRESS	2		REQUESTED ENF ACTION
820	(334)	ADDRESS	4		EVENT CODE
824	(338)	ADDRESS	1		FLAG FIELD
825	(339)	ADDRESS	1		MASK FOR COMPARING QUALIFIERS
826	(33A)	ADDRESS	1		KEY FOR FREEPRM
827	(33B)	ADDRESS	1		SUBPOOL FOR FREEPRM
828	(33C)	ADDRESS	4		QUALIFIER
832	(340)	ADDRESS	4		EXIT ROUTINE ADDRESS
836	(344)	ADDRESS	4		Address of caller's parameters
840	(348)	ADDRESS	4		TOKEN
844	(34C)	ADDRESS	4		Length of caller's parameters
848	(350)	ADDRESS	2		VERSION OF PARM LIST
850	(352)	ADDRESS	2		RESERVED FIELD
852	(354)	ADDRESS	4		RETURN ADDRESS
856	(358)	CHARACTER	8		ESTABLISHER NAME
864	(360)	CHARACTER	8		LISTEN EXIT NAME
872	(368)	ADDRESS	4		LISTENER NUMBER (RETURNED)
876	(36C)	CHARACTER	4		SPECIAL EXIT RETURN CODE
880	(370)	BITSTRING	32		Bit-mapped qualifier
912	(390)	ADDRESS	1		Flag byte
913	(391)	BITSTRING	3		Reserved
916	(394)	ADDRESS	4		Reserved
916	(394)	X'68'	0	NSCENFLN	"*-NSCENFRQ"
	WTO parameter list				
1056	(420)	SIGNED	4	NSCWTOPL(0)	
1056	(420)	ADDRESS	2		TEXT LENGTH
1058	(422)	BITSTRING	2		MCSFLAGS
1060	(424)	CHARACTER	53		
1185	(4A1)	ADDRESS	1		VERSION LEVEL
1186	(4A2)	BITSTRING	1		MISCELLANEOUS FLAGS
1187	(4A3)	ADDRESS	1		REPLY LENGTH
1188	(4A4)	ADDRESS	1		LENGTH OF WPX
1189	(4A5)	BITSTRING	2		EXTENDED MCS FLAGS
1191	(4A7)	ADDRESS	2		RESERVED
1193	(4A9)	ADDRESS	4		REPLY BUFFER ADDRESS
1197	(4AD)	ADDRESS	4		REPLY ECB ADDRESS
1201	(4B1)	ADDRESS	4		CONNECT ID
1205	(4B5)	BITSTRING	2		DESCRIPTOR CODES
1207	(4B7)	ADDRESS	2		RESERVED
1209	(4B9)	BITSTRING	16		
1225	(4C9)	BITSTRING	2		MESSAGE TYPE
1227	(4CB)	ADDRESS	2		MESSAGE'S PRIORITY
1229	(4CD)	CHARACTER	8		JOB ID
1237	(4D5)	CHARACTER	8		JOB NAME

Table 345. Structure NSCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1245	(4DD)	CHARACTER	8		RETRIEVAL KEY
1253	(4E5)	ADDRESS	4		TOKEN FOR DOM
1257	(4E9)	ADDRESS	4		CONSOLE ID
1261	(4ED)	CHARACTER	8		SYSTEM NAME
1269	(4F5)	CHARACTER	8		CONSOLE NAME
1277	(4FD)	ADDRESS	4		REPLY CONSOLE NAME/ID ADDR
1281	(501)	ADDRESS	4		CART ADDRESS
1285	(505)	ADDRESS	4		WSPARM ADDRESS
1285	(505)	X'509'	0	NSCTLEN	"*-NSCT" Length of NSCT

Table 346. Cross Reference for $NSCT

Name	Offset	Hex Tag
NSCBUFQ	58	
NSCDECBL	320	
NSCDEVID	24	
NSCDSTID	328	
NSCDSTMC	348	0
NSCDSTMS	330	0
NSCDTECB	32C	
NSCDWORK	78	
NSCEECBL	320	
NSCENFLN	394	68
NSCENFPT	32C	
NSCENFRQ	330	
NSCESTAE	320	
NSCESTLN	330	14
NSCETOKN	328	
NSCGPCNT	50	0
NSCGPECB	5C	
NSCGPQEH	44	
NSCGPQET	48	
NSCGPWEH	3C	
NSCGPWET	40	
NSCHCCT	C	
NSCID	0	D5E2C3E3
NSCID_ADDR	320	
NSCID_AMODE	32C	
NSCID_NAME	324	
NSCID_XTADR	33C	
NSCID_XTCNT	334	
NSCID_XTLEN	338	
NSCID_XTLNG	330	
NSCID_XTSIZ	33C	10
NSCIDENT	320	
NSCNALET	1C	
NSCNCPE	4C	
NSCNSSTH	2C	
NSCNSSTT	30	

Table 346. Cross Reference for $NSCT (continued)

Name	Offset	Hex Tag
NSCNSWEH	34	
NSCNSWET	38	
NSCPALET	14	
NSCRQCNT	54	0
NSCSPCL	8	
NSCT	0	
NSCTALET	18	
NSCTCT	10	
NSCTECB	20	
NSCTLEN	505	509
NSCTSAVE	80	
NSCTTRCA	C8	
NSCTWORK	320	
NSCVER	4	
NSCVERN	4	1
NSCWTOPL	420	

Chapter 146. $NSRWORK Information

$NSRWORK Programming Interface Information

$NSRWORK is a programming interface.

$NSRWORK Heading Information

Common Name:	JES2 SYSOUT Receiver PCE Work Area
Macro ID:	$NSRWORK
DSECT Name:	PCE ($NSRWORK is part of the PCE DSECT)
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4
Storage Attributes:	Subpool: See $PCE Key: See $PCE Residency: See $PCE
Size:	See symbol SRWPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by:	See $PCE
Pointed to by:	The $NSRPCE field of the $HCT data area points into the $PCEORG/$PCELAST chain to the first Network SYSOUT Receiver PCE. Since this chain contains all PCEs, use the PCEID field to determine when you have chained past the last PCE of this type. The $OSRPCE field of the $HCT data area points into the $PCEORG/$PCELAST chain to the first Offload SYSOUT Receiver PCE. Since this chain contains all PCEs, use the PCEID field to determine when you have chained past the last PCE of this type. The DCTPCE field of the $DCT data area (see "Function" below)
Serialization:	Normal PCE dispatch serialization
Function:	The fields in this work area are used by a JES2 Network SYSOUT Receiver or by an Offload SYSOUT Receiver Processor and by its support routines and exits. $NSRWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $NSRWORK are actually part of the PCE DSECT, but only map PCEs with the value PCENSRID in the second byte of field PCEID. This PCE is device related. This processor type has a one-to-one relationship to devices. Field PCEDCT points to a Device Control Table (DCT) and field DCTPCE in that DCT points to this PCE.

$NSRWORK mapping

Table 347. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
320	(140)	X'140'	0	SRWINIT	"*" START OF DATA TO BE ZEROED AT INITIALIZATION
320	(140)	BITSTRING	1	SRWSRCB	SRCB OF RECIEVED RECORD
321	(141)	SIGNED	1	SRWRETRY	IDENTIFIES RETRY POINT TO SET IF AN ABEND OCCURS
321	(141)	X'0'	0	SRWRSUSP	"0" RETRY TO SUSPEND RECEIVER
321	(141)	X'1'	0	SRWRCANC	"1" RETRY TO CANCEL CURRENT JOB
322	(142)	SIGNED	1	SRWRETSV	PLACE TO SAVE CURRENT RETRY POINT INDICATOR
323	(143)	BITSTRING	10		RESERVED
336	(150)	ADDRESS	4	SRWIOT1	1ST (ALLOCATION) IOT POINTER
340	(154)	ADDRESS	4	SRWIOTC	CURRENT IOT POINTER
344	(158)	ADDRESS	4	SRWENIOT	END-OF-CURRENT-IOT POINTER
348	(15C)	ADDRESS	4	SRWIOTCN	LAST NORMAL IOT ADDRESS
352	(160)	ADDRESS	4	SRWIOTSH	LAST SPIN IOT ADDRESS
356	(164)	ADDRESS	4	SRWHMTTR	MTTR OF BUFFER 1
360	(168)	ADDRESS	4	SRWHDSAV	SAVE AREA FOR BUFFER DISPL
364	(16C)	ADDRESS	4	SRWSCRPT	SCR ENTRY POINTER
368	(170)	ADDRESS	4	SRWSCRST	SCR START ADDRESS
372	(174)	ADDRESS	4	SRWENBUF	END-OF-BUFFER POINTER
376	(178)	ADDRESS	4	SRWENREC	END-OF-INPUT-RECORD POINTER
380	(17C)	ADDRESS	4	SRWNXTRC	POINTER TO NEXT REC IN BUFFER
384	(180)	ADDRESS	4	SRWPREVR	POINTER TO RECORD HEADER OF CURRENT SPANNED RECORD SEGMENT
388	(184)	ADDRESS	4	SRWGGST	ADDRESS OF GROUPING STRINGS OBJECT
392	(188)	SIGNED	4	(0)	ENSURE FULLWORD ALIGNMENT
392	(188)	CHARACTER	8	SRWRSBTL	SWBTU POINTER LIST ENTRY FOR SWBTUREQ RETRIEVE SERVICE
400	(190)	BITSTRING	8	SRWTABSV	MASTER TAB SAVE AREA
408	(198)	SIGNED	4	SRWTSAVE(6)	TEMPORARY SAVE AREA
432	(1B0)	BITSTRING	1	SRWTXTLN	TEXT LENGTH SAVE AREA
433	(1B1)	BITSTRING	1	SRWMVCLN	EXECUTE-MOVE LENGTH FOR TEXT
434	(1B2)	SIGNED	2	SRWSRTL	CUMULATIVE SEGMENT LENGTH
436	(1B4)	SIGNED	2	SRWSTXTL	TOTAL SPAN TEXT LENGTH
438	(1B6)	BITSTRING	2		Reserved for future use
440	(1B8)	SIGNED	8	SRWRECN	Basic data set record count
448	(1C0)	SIGNED	4	SRWCOUNT	COUNT OF RECORDS RECEIVED
452	(1C4)	ADDRESS	4	SRWSBUF	SMF BUFFER POINTER
456	(1C8)	SIGNED	4	SRWROUTE	Route cd for work selection
460	(1CC)	CHARACTER	8	SRWUSER	User ID for work selection
468	(1D4)	BITSTRING	1		Reserved for future use
468	(1D4)	X'95'	0	SRWINITL	"*-SRWINIT" LENGTH FOR INITIAL CLEAR
472	(1D8)	DBL WORD	8	SRWCWKAR(0)	Common work area
SRWRECCT and SRWCURRC are for SDSF's use					
472	(1D8)	X'234'	0	SRWRECCT	"(SRWRCOUN-SRW)+SRWCWKAR" Total record count

Table 347. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
472	(1D8)	X'238'	0	SRWCURRC	"(SRWCUREC-SRW)+SRWCWKAR" Current record count
	INPUT AREA FOR RTAM RECORDS				
1024	(400)	SIGNED	2		ALIGNMENT + SCAN TERMINATOR
1026	(402)	BITSTRING	274	SRWINPUT	Input Data Area
	NORMAL (UNSPANNED) RECORD First mapping of SRWINPUT				
1026	(402)	BITSTRING	1	SRWLRECL	LOGICAL RECORD LENGTH
1027	(403)	BITSTRING	1	SRWCCTL	CARRIAGE CTL (OR TEXT IF NO CC)
1027	(403)	X'404'	0	SRWTEXT	"*" TEXT
1027	(403)	X'2'	0	SRWLEN1	"*-SRWINPUT"
	Second mapping of SRWINPUT Spanned record (first part)				
1026	(402)	BITSTRING	1	SRWSEGL	TEXT LENGTH, THIS SEGMENT
1027	(403)	SIGNED	2	SRWSRECL	LRECL FOR ENTIRE SPANNED RECORD
1029	(405)	BITSTRING	1	SRWSCCTL	CARRIAGE CTL (OR TEXT IF NO CC)
1029	(405)	X'406'	0	SRWSTXT1	"*" START OF TEXT
1029	(405)	X'4'	0	SRWLEN2	"*-SRWINPUT"
	Third mapping of SRWINPUT Spanned record (Second & subsequent parts)				
1026	(402)	BITSTRING	1		TEXT LENGTH, THIS SEGMENT
1026	(402)	X'403'	0	SRWSTXT2	"*" START OF TEXT
1026	(402)	X'1'	0	SRWLEN3	"*-SRWINPUT"
	End of SRWINPUT mappings.				
1028	(404)	ADDRESS	2	(0)	Ensure that SRWINPUT
1028	(404)	ADDRESS	2	(0)	is larger than each
1028	(404)	ADDRESS	2	(0)	of the individual
1300	(514)	SIGNED	4	SRWRECNT	Sysout record count
1304	(518)	SIGNED	4	SRWPGCT	Sysout page count
1308	(51C)	SIGNED	4	SRWBYTCT	Sysout byte count
1308	(51C)	X'3E0'	0	SRWPCEWS	"*-PCEWORK" LENGTH OF PCE WORK AREA

Table 348. Cross Reference for $NSRWORK

Name	Offset	Hex Tag
PCE	0	
SRWBYTCT	51C	0
SRWCCTL	403	
SRWCOUNT	1C0	
SRWCURRC	1D8	238
SRWCWKAR	1D8	
SRWENBUF	174	
SRWENIOT	158	
SRWENREC	178	
SRWGGST	184	
SRWHDSAV	168	
SRWHMTTR	164	

Table 348. Cross Reference for $NSRWORK (continued)

Name	Offset	Hex Tag
SRWINIT	140	140
SRWINITL	1D4	95
SRWINPUT	402	
SRWIOTC	154	
SRWIOTCN	15C	
SRWIOTSH	160	
SRWIOT1	150	
SRWLEN1	403	2
SRWLEN2	405	4
SRWLEN3	402	1
SRWLRECL	402	
SRWMVCLN	1B1	
SRWNXTRC	17C	
SRWPCEWS	51C	3E0
SRWPGCT	518	0
SRWPREVR	180	
SRWRCANC	141	1
SRWRECCT	1D8	234
SRWRECN	1B8	
SRWRECNT	514	0
SRWRETRY	141	
SRWRETSV	142	
SRWROUTE	1C8	
SRWRSBTL	188	
SRWRSUSP	141	0
SRWSBUF	1C4	
SRWSCCTL	405	
SRWSCRPT	16C	
SRWSCRST	170	
SRWSEGL	402	
SRWSRCB	140	
SRWSRECL	403	
SRWSRTL	1B2	
SRWSTXTL	1B4	
SRWSTXT1	405	406
SRWSTXT2	402	403
SRWTABSV	190	
SRWTEXT	403	404
SRWTSAVE	198	
SRWTXTLN	1B0	
SRWUSER	1CC	

Chapter 147. $NSST Information

$NSST Heading Information

Common Name:	NJE Server Subtask Table
Macro ID:	$NSST
DSECT Name:	NSST
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'NSST' Offset: NSSID-NSS Length: 4
Storage Attributes:	Subpool: 0 Key: 1 Residency: In a JES2 NJE Server address sPace
Size:	See NSSTLEN
Created by:	HASCNJEX (Subtask initialization routine from IAZNJTCP)
Pointed to by:	NSCNSSTH field of the $NSCT data area NSCNSSTT field of the $NSCT data area NSSNEXT field of the $NSST data area NSSPREV field of the $NSST data area TBFLNSST field of the $TBUF data area TSCTJSDT field of the IAZYTSCT data area
Serialization:	
Function:	Contains the relevant data for a single NJE connection in the NETSRV data space.

$NSST mapping

Table 349. Structure NSST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NSST	
0	(0)	CHARACTER	4	NSSID	NSST eyecatcher
4	(4)	ADDRESS	1	NSSVER	NSST version number
4	(4)	X'1'	0	NSSVERN	"1" NSST version
5	(5)	BITSTRING	3		Reserved
8	(8)	ADDRESS	4	NSSLPCL	PCL address of line PCL
12	(C)	ADDRESS	4	NSSTSCT	IAZYTSCT address
16	(10)	ADDRESS	4	NSSNSCT	NSCT address
20	(14)	ADDRESS	4	NSSNEXT	Next NSS chain pointer
24	(18)	ADDRESS	4	NSSPREV	Prev NSS chain pointer
28	(1C)	BITSTRING	3	NSSDEVID	Device id of line
31	(1F)	BITSTRING	1	NSSFLAG1	Flags
		1...		NSS1DEL	"B'10000000'" NSST should be freed
		.1..		NSS1WJ2	"B'01000000'" Subdevices waiting for JES2 to come back
		..1.		NSS1NRTY	"B'00100000'" Non-retryable error
		...1		NSS1ACTV	"B'00010000'" NSST is active
32	(20)	ADDRESS	4	NSSLTQH	Line request TBUF q head

Table 349. Structure NSST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
36	(24)	ADDRESS	4	NSSLTQT	Line request TBUF q tail
40	(28)	SIGNED	4	NSSLTECB	ECB for line request response
44	(2C)	BITSTRING	16	NSSTTTOK	Subtask TCB token
60	(3C)	SIGNED	4	NSSTSAVE(18)	Save area for init routine and server main task
		Pointers to work areas, by stream			
132	(84)	ADDRESS	4	NSSTJRWA(7)	Pointers to up to 7 JRWs
160	(A0)	ADDRESS	4	NSSTJTWA(7)	Pointers to up to 7 JTWs
188	(BC)	ADDRESS	4	NSSTSRWA(7)	Pointers to up to 7 SRWs
216	(D8)	ADDRESS	4	NSSTSTWA(7)	Pointers to up to 7 STWs
244	(F4)	ADDRESS	4	NSSTDVWA	Pointer to all work areas
248	(F8)	SIGNED	4	NSSTDVWL	Length of all work areas
252	(FC)	ADDRESS	4	NSSTACWA	Addr of current NJEWORK
256	(100)	SIGNED	2	NSSTTRSQ	$NJETRC sequence
258	(102)	SIGNED	2		Reserved
260	(104)	ADDRESS	4	NSSTAREA	Address of rolling trace area for (non-subdevice related)
264	(108)	SIGNED	4	NSSTLOCK	NSST Lock word
268	(10C)	BITSTRING	600	NSSTTRCA	TRCA
868	(364)	ADDRESS	4	NSSTLREQ	Address of LREQ TBUF (when Line REQuest "in progress")
872	(368)	DBL WORD	8	NSSTWORK(0)	Working storage
		Parameter list for ESTAEX macro			
872	(368)	SIGNED	4	(0)	
872	(368)	ADDRESS	1	NSSESTAE	FLAGS FOR ESTAEX
873	(369)	ADDRESS	1		SECOND FLAG BYTE
874	(36A)	ADDRESS	1		THIRD FLAG BYTE
875	(36B)	ADDRESS	1		VERSION NUMBER
876	(36C)	ADDRESS	4		TOKEN VALUE AREA
880	(370)	ADDRESS	4		PARM. LIST ADDR. NOT SPECIFIED
884	(374)	ADDRESS	4		ALET FOR PARM LIST
888	(378)	ADDRESS	4		EXIT ADDR NOT SPECD
888	(378)	X'14'	0	NSSESTLN	"*-NSSESTAE" Length of list form
		Parameter list for STIMERM macro			
872	(368)	ADDRESS	4	NSSDECBL(2)	ECB list
880	(370)	SIGNED	4	NSSDSTID	STIMERM ID=id-area
884	(374)	SIGNED	4	NSSDTECB	STIMER ECB
		MACDATE = 08/19/88			
888	(378)	BITSTRING	24	NSSDSTMS	REMOTE STIMERM SET PARM LIST
		MACDATE = 08/19/88			
912	(390)	BITSTRING	16	NSSDSTMC	REMOTE STIMERM TEST/CANCEL PARM LIST
		Parameter list for TCBTOKEN macro			
		MACDATE = 04/03/89			
872	(368)	SIGNED	4	NSSTCBTK(0)	
872	(368)	CHARACTER	16	(0)	TCB TOKEN (INPUT/OUTPUT)
872	(368)	BITSTRING	8		

Table 349. Structure NSST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
880	(370)	SIGNED	4		
884	(374)	ADDRESS	4		
888	(378)	ADDRESS	4		ASCB ADDRESS (INPUT)
892	(37C)	SIGNED	4	(0)	FLAGS (INPUT)
892	(37C)	SIGNED	1		TYPE OF TCBTOKEN REQUEST
893	(37D)	SIGNED	3		RESERVED
1128	(468)	X'468'	0	NSSTLEN	"*-NSST" Length of NSST

Table 350. Cross Reference for $NSST

Name	Offset	Hex Tag
NSSDECBL	368	
NSSDEVID	1C	
NSSDSTID	370	
NSSDSTMC	390	0
NSSDSTMS	378	0
NSSDTECB	374	
NSSESTAE	368	
NSSESTLN	378	14
NSSFLAG1	1F	
NSSID	0	D5E2E2E3
NSSLPCL	8	
NSSLTECB	28	
NSSLTQH	20	
NSSLTQT	24	
NSSNEXT	14	
NSSNSCT	10	
NSSPREV	18	
NSST	0	
NSSTACWA	FC	
NSSTAREA	104	
NSSTCBTK	368	
NSSTDVWA	F4	
NSSTDVWL	F8	
NSSTJRWA	84	
NSSTJTWA	A0	
NSSTLEN	468	468
NSSTLOCK	108	
NSSTLREQ	364	
NSSTSAVE	3C	
NSSTSCT	C	
NSSTSRWA	BC	
NSSTSTWA	D8	
NSSTTRCA	10C	
NSSTTRSQ	100	
NSSTTTOK	2C	
NSSTWORK	368	
NSSVER	4	
NSSVERN	4	1

Table 350. Cross Reference for $NSST (continued)

Name	Offset	Hex Tag
NSS1ACTV	1F	10
NSS1DEL	1F	80
NSS1NRTY	1F	20
NSS1WJ2	1F	40

Chapter 148. $NSTWORK Information

$NSTWORK Programming Interface Information

$NSTWORK is a programming interface.

$NSTWORK Heading Information

Common Name:	JES2 Sysout Transmitter PCE Work Area
Macro ID:	$NSTWORK
DSECT Name:	PCE ($NSTWORK is part of the PCE DSECT)
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4
Storage Attributes:	Subpool: See $PCE Key: See $PCE Residency: See $PCE
Size:	See symbol STWPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by:	See $PCE
Pointed to by:	The $NSTPCE field of the $HCT data area points into the $PCEORG/$PCELAST chain to the first network sysout transmitter PCE. Since this chain contains all PCEs, use the PCEID field to determine when you have chained past the last PCE of this type. The $OSTPCE field of the $HCT data area points into the $PCEORG/$PCELAST chain to the first offload sysout transmitter PCE. Since this chain contains all PCEs, use the PCEID field to determine when you have chained past the last PCE of this type. See $PCE for other pointer fields that apply to all PCE types.
Serialization:	Normal PCE dispatch serialization
Function:	The fields in this work area are used by the JES2 Network Sysout Transmitter and the Offload Sysout Transmitter processor and by its support routines and exits. $NSTWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $NSTWORK are actually part of the PCE DSECT, but only map PCEs with the value PCENSTID in the second byte of field PCEID. This PCE is device related. This processor type has a one-to-one relationship to devices. Field PCEDCT points to a Device Control Table (DCT) and field DCTPCE in that DCT points to this PCE.

$NSTWORK mapping

Table 351. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	HASP NETWORK SYSOUT TRANSMITTER
320	(140)	X'140'	0	STWINIT	"*" START OF DATA TO BE ZEROED AT INITIALIZATION
320	(140)	SIGNED	2	STWNODE	DESTINATION NODE FOR CURRNT JOB
322	(142)	BITSTRING	1	STWDCTF	FLAGS TO BE MOVED TO DCT
323	(143)	BITSTRING	1	STWJQEF	FLAGS TO BE MOVED TO JQE
324	(144)	BITSTRING	1	STWFLAG2	SPOOL OFFLOAD FLAG BYTE
		1...		STW$HCQ	"B'10000000'" DS FOUND ON HARDCPY QUEUE
		.1..		STW$NODH	"B'01000000'" This dataset header not to be sent (exit from multi-dest mode)
325	(145)	BITSTRING	1	STWFLAG4	General use flag byte
		1...		STW4JHS	"B'10000000'" Network job header needs to be sent for this data set
		.1..		STW4SMRC	"B'01000000'" Abend in $SWBMERG cleanup call
		..1.		STW4HJOS	"B'00100000'" Hold all the JOEs on the transmitter chain
326	(146)	BITSTRING	1	STWJQEF3	Flags t/b moved to JQEFLAG3
327	(147)	BITSTRING	1	STWJQEFA	Flags t/b moved to JQEFLAGA
328	(148)	ADDRESS	4	STWSPINJ	CURRENT SPIN JOE ADDRESS
332	(14C)	ADDRESS	4	STWDSBUF	DATA SET BUFFER ADDRESS
336	(150)	ADDRESS	4	STWENBUF	END-OF-BUFFER ADDR FOR COMPARISON
340	(154)	ADDRESS	4	STWHDBUF	DATA SET HEADER BUFFER ADDRESS
344	(158)	ADDRESS	4	STWHDTTR	MTTR OF BLOCK IN STWHDBUF
		Fields STWNSWB through STWIPSWL are used in handling the SWBIT buffer(s) containing any SWBTUs from the DSH data stream section.			
348	(15C)	SIGNED	2	STWPSWBL	Total size of PDDB SWBTUs
350	(15E)	SIGNED	2	STWJSWBL	Total size of JOE SWBTUs
352	(160)	SIGNED	2	STWPLSIZ	Size of SWBTU merge or splice pointer list entry
354	(162)	SIGNED	2	STWMRGLN	Length of merged SWBTU storage area
356	(164)	ADDRESS	4	STWSWBUF	PDDB SWBIT buffer chain
360	(168)	ADDRESS	4	STWJSWBF	JOE SWBIT buffer chain
364	(16C)	ADDRESS	4	STWSWMRG	Address of $SWBMERG parameter list
368	(170)	ADDRESS	4	STWMRGTU	Address of merged SWBTU storage area
372	(174)	ADDRESS	4	STWSPLIC	Addr of spliced SWBTU
376	(178)	ADDRESS	4	STWIPSWB	Address of merged SWBTU (after IPADDR processing)
380	(17C)	SIGNED	2	STWSPLIL	Length of the spliced SWBTU
382	(17E)	SIGNED	2	STWIPLEN	Length of the IP SWB area
384	(180)	SIGNED	2	STWIPSWL	Length of the merged SWBTU (after IPADDR processing)
386	(182)	SIGNED	2		Reserved

Table 351. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
388	(184)	SIGNED	4	STWSCRST	START ADDRESS OF SCR RECORD
392	(188)	SIGNED	4	STWMTTRL	MTTR FOR CURRENT BUFFER
396	(18C)	SIGNED	4	STWMTTRC	MTTR OF CURRENT PDDB
400	(190)	SIGNED	4	STWJQEO	JOB QUEUE ELEMENT OFFSET
404	(194)	BITSTRING	1	STWRECTP	SAVED SPANNED RECORD TYPE
405	(195)	BITSTRING	1	STWPFLG1	PDDBFLG1 OF LAST DS SENT
406	(196)	BITSTRING	2		RESERVED
408	(198)	SIGNED	4	STWNTTR	THIS JOBS NEWS TRACK ADDR
412	(19C)	SIGNED	2	STWHDRLN	SAVE AREA FOR JCT HEADER LENGTH
414	(19E)	BITSTRING	2		RESERVED
416	(1A0)	SIGNED	4	STWCOUNT	COUNT OF LOGICAL TP RECORDS
420	(1A4)	ADDRESS	4	STWSBUF	SMF BUFFER POINTER
424	(1A8)	DBL WORD	8	STWEXTPL	EXTP PARAMETER LIST AREA
432	(1B0)	DBL WORD	8	STWSTIME	SYSOUT TRANSMISSION START TIME
432	(1B0)	X'78'	0	STWINITL	"*-STWINIT" LENGTH TO CLEAR AT INITIALIZATION
440	(1B8)	DBL WORD	8	STWCWKAR(0)	Transmitter common wrk area
STWRECCT and STWCURRC are for SDSF's use					
440	(1B8)	X'214'	0	STWRECCT	"(STWRCOUN-STW)+STWCWKAR" Total record count
440	(1B8)	X'218'	0	STWCURRC	"(STWCUREC-STW)+STWCWKAR" Current record count
960	(3C0)	DBL WORD	8	(0)	
960	(3C0)	X'3C0'	0	STWVAR	"*" START OF VARIABLE (OVERLAID) PORTION OF PCE WORK AREA
STWRIDW AND STWWORK SHOULD NEVER BE SEPARATED BECAUSE THE TWO FIELDS ARE USED IN HASPSNA AS A CONSECUTIVE FIELD					
960	(3C0)	BITSTRING	8	STWRIDW	EXTP PUT RID AREA
968	(3C8)	CHARACTER	260	STWWORK	WORK AREA FOR MESSAGES
968	(3C8)	X'3C8'	0	STWREC	"STWWORK" START OF TEXT CONSTRUCTION AREA FOR CONTROL RECORDS
968	(3C8)	X'38C'	0	STWPCEWS	"*-PCEWORK" LENGTH OF PCE WORK AREA

Table 352. Cross Reference for $NSTWORK

Name	Offset	Hex Tag
PCE	0	
STW$HCQ	144	80
STW$NODH	144	40
STWCOUNT	1A0	
STWCURRC	1B8	218
STWCWKAR	1B8	
STWDCTF	142	
STWDSBUF	14C	
STWENBUF	150	
STWEXTPL	1A8	
STWFLAG2	144	
STWFLAG4	145	

Table 352. Cross Reference for $NSTWORK (continued)

Name	Offset	Hex Tag
STWHDBUF	154	
STWHDRLN	19C	
STWHDTTR	158	
STWINIT	140	140
STWINITL	1B0	78
STWIPLEN	17E	
STWIPSWB	178	
STWIPSWL	180	
STWJQEF	143	
STWJQEFA	147	
STWJQEF3	146	
STWJQEO	190	
STWJSWBF	168	
STWJSWBL	15E	
STWMRGLN	162	
STWMRGTU	170	
STWMTTRC	18C	
STWMTTRL	188	
STWNODE	140	
STWNTTR	198	
STWPCEWS	3C8	38C
STWPFLG1	195	
STWPLSIZ	160	
STWPSWBL	15C	
STWREC	3C8	3C8
STWRECCT	1B8	214
STWRECTP	194	
STWRIDW	3C0	
STWSBUF	1A4	
STWSCRST	184	
STWSPINJ	148	
STWSPLIC	174	
STWSPLIL	17C	
STWSTIME	1B0	
STWSWBUF	164	
STWSWMRG	16C	
STWVAR	3C0	3C0
STWWORK	3C8	
STW4HJOS	145	20
STW4JHS	145	80
STW4SMRC	145	40

Chapter 149. $NSWE Information

$NSWE Heading Information

Common Name:	NJE Server Subtask Work Element
Macro ID:	$NSWE
DSECT Name:	NSWE
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'NSWE' Offset: 0 Length: 4
Storage Attributes:	Subpool: 0 Key: 0 Residency: Private storage, Virtual storage below 2GB, real storage antwhere
Size:	See NSWLEN
Created by:	HASCNJAS
Pointed to by:	NSCNSWEH field of the $NSCT data area NSCNSWET field of the $NSCT data area NSCGPWEH field of the $NSCT data area NSCGPWET field of the $NSCT data area NSWNEXT field of the $NSWE data area NSWPREV field of the $NSWE data area NSWGPNXT field of the $NSWE data area NSWGPPRV field of the $NSWE data area
Serialization:	Used only by the subtask represented by the NSWE.
Function:	Represents a JES2-attached subtask in the server address space

$NSWE mapping

Table 353. Structure NSWE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NSWE	
0	(0)	CHARACTER	4	NSWEYE(0)	
0	(0)	BITSTRING	1	(0)	$SAVE area (see $PSV)
168	(A8)	CHARACTER	8	NSWNAME	Subtask name
176	(B0)	SIGNED	1	NSWNUM	Subtask number
177	(B1)	BITSTRING	3		Reserved
180	(B4)	ADDRESS	4	NSWNEXT	Previous element on chain
184	(B8)	ADDRESS	4	NSWPREV	Next element on chain
188	(BC)	ADDRESS	4	NSWETCB	TCB address
192	(C0)	ADDRESS	4	NSWRECA	Address of recovery routine
196	(C4)	CHARACTER	8	NSWEPNAM	Entry point name (ATTACHX)
204	(CC)	SIGNED	4	NSWDTECB	DETACH ECB
208	(D0)	SIGNED	4	NSWQUECB	QUIESCE ECB
212	(D4)	ADDRESS	4	NSWNSCT	NSCT address
216	(D8)	ADDRESS	4	NSWCNTAD	Addr of subtask count fields in NSCT

Table 353. Structure NSWE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
220	(DC)	ADDRESS	4	NSWNSSLK	NSST address if a NSST lock is held SHARED by task
224	(E0)		1	NSWTTOK	Associated TCB token
240	(F0)	DBL WORD	8	NSWDWORK	DOUBLEWORD WORK AREA
248	(F8)	DBL WORD	8	NSWDWRK2	DOUBLEWORD WORK AREA 2
248	(F8)	X'F0'	0	NSWWRK16	"NSWDWORK,16,C'L' 16-byte work area @Z07LTCP"
256	(100)	SIGNED	4	(0)	
256	(100)	ADDRESS	1	NSWESTAE	FLAGS FOR ESTAEX
257	(101)	ADDRESS	1		SECOND FLAG BYTE
258	(102)	ADDRESS	1		THIRD FLAG BYTE
259	(103)	ADDRESS	1		VERSION NUMBER
260	(104)	ADDRESS	4		TOKEN VALUE AREA
264	(108)	ADDRESS	4		PARM. LIST ADDR. NOT SPECIFIED
268	(10C)	ADDRESS	4		ALET FOR PARM LIST
272	(110)	ADDRESS	4		EXIT ADDR NOT SPECD
272	(110)	X'14'	0	NSWESTAL	"*-NSWESTAE" Length of ESTAEX list form
276	(114)	SIGNED	2	NSWERRCT	Error count
278	(116)	SIGNED	2	NSWATTCT	Attach count
280	(118)	SIGNED	4	NSWERRTM	Time of last error
MACDATE = 04/03/89					
284	(11C)	SIGNED	4	NSWTCBTK(0)	
284	(11C)	CHARACTER	16	(0)	TCB TOKEN (INPUT/OUTPUT)
284	(11C)	BITSTRING	8		
292	(124)	SIGNED	4		
296	(128)	ADDRESS	4		
300	(12C)	ADDRESS	4		ASCB ADDRESS (INPUT)
304	(130)	SIGNED	4	(0)	FLAGS (INPUT)
304	(130)	SIGNED	1		TYPE OF TCBTOKEN REQUEST
305	(131)	SIGNED	3		RESERVED
305	(131)	X'18'	0	NSWTCBTL	"*-NSWTCBTK" Length of TCBTOKEN list frm
312	(138)	DBL WORD	8	NSWTRCA(0)	TRCA
Map ATTACHX work area over TRCA SDUMP area					
MACDATE 11/11/91					
352	(160)	SIGNED	4	NSWATTSL(0)	
352	(160)	ADDRESS	4		DE OR EPLOC ADDRESS
356	(164)	ADDRESS	4		DCB ADDRESS
360	(168)	ADDRESS	4		NEW FORMAT + ECB ADDR
364	(16C)	ADDRESS	4		GSPL OR GSPV
368	(170)	ADDRESS	4		SHSPV OR SHSPL
372	(174)	ADDRESS	4		EXIT ROUTINE ADDRESS
376	(178)	ADDRESS	2		DPMOD VALUE
378	(17A)	ADDRESS	1		LPMOD VALUE
379	(17B)	ADDRESS	1		STATUS BYTE
380	(17C)	ADDRESS	4	(2)	EP NAME SPACE
388	(184)	ADDRESS	4		ADDRESS OF JSCB
392	(188)	ADDRESS	4		(E)STAI PARM LIST
396	(18C)	ADDRESS	4		EXIT ADDRESS

Table 353. Structure NSWE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
400	(190)	ADDRESS	4		TASKLIB
404	(194)	ADDRESS	1		FLAG BYTE
405	(195)	ADDRESS	1		TASK ID
406	(196)	ADDRESS	2		PARM LIST LENGTH
408	(198)	ADDRESS	4		SUBPOOL LIST ADDRESS/VALUE
412	(19C)	ADDRESS	1		SET FLAGS
413	(19D)	ADDRESS	1		SET UP FORMAT NUMBER
414	(19E)	ADDRESS	1		SET FLAGS
415	(19F)	ADDRESS	1		RESERVED BYTE
416	(1A0)	ADDRESS	4		EPLOC/DE/EP ALET
420	(1A4)	ADDRESS	4		DCB ALET
424	(1A8)	ADDRESS	4		ECB ALET
428	(1AC)	ADDRESS	4		GSPL ALET
432	(1B0)	ADDRESS	4		SHSPL ALET
436	(1B4)	ADDRESS	4		JSCB ALET
440	(1B8)	ADDRESS	4		(E)STAI PARAMETER ALET
444	(1BC)	ADDRESS	4		TASKLIB ALET
448	(1C0)	ADDRESS	4		NSHSPL ALET
448	(1C0)	X'64'	0	NSWATTLN	"*-NSWATTSL" Length of list form
912	(390)	DBL WORD	8	NSWORG(0)	
	Work area for general purpose subtasks				
912	(390)	ADDRESS	4	NSWGPNXT	Next available GP subtask
916	(394)	ADDRESS	4	NSWGPPRV	Previous subtask
920	(398)	ADDRESS	4	NSWSQD	SQD address
924	(39C)	ADDRESS	4	NSWGPQ	Current work queue element
928	(3A0)	SIGNED	4	NSWGPECB	ECB for GP subtask
932	(3A4)	ADDRESS	4	NSWGECBL(2)	ECB list
940	(3AC)	BITSTRING	1	NSWGFLG1	Flags
		1...		NSWGF1CR	"B'10000000'" Subtask was CALLRTM'ed
		.1..		NSWGF1RE	"B'01000000'" Subtask in recovery
	Work area for request manager subtask				
912	(390)	ADDRESS	4	NSWTSCT	TSCT address
916	(394)	ADDRESS	4	NSWTCT	TCT address
920	(398)	ADDRESS	4	NSWNSST	NSST address
924	(39C)	ADDRESS	4	NSWTBUF	TBUF address
928	(3A0)	SIGNED	4	NSWSTECB	STIMERM ECB
932	(3A4)	SIGNED	4	NSWDSTID	STIMERM ID=id-area
936	(3A8)	ADDRESS	4	NSWRECBL(3)	ECB list
948	(3B4)	SIGNED	4	NSWENQPM(3)	Parameter list for NMS/NRQ queueing service
	MACDATE = 08/19/88				
960	(3C0)	BITSTRING	24	NSWSTMST	REMOTE STIMERM SET PARM LIST
960	(3C0)	X'18'	0	NSWSTMSL	"*-NSWSTMST" List form length
	MACDATE = 08/19/88				
984	(3D8)	BITSTRING	16	NSWSTMCN	REMOTE STIMERM TEST/CANCEL PARM LIST
984	(3D8)	X'10'	0	NSWSTMCL	"*-NSWSTMCN" List form length

Table 353. Structure NSWE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1000	(3E8)	DBL WORD	8	(0)	
1000	(3E8)	X'3E8'	0	NSWELEN	"*-NSWE" Length of NSWE

Table 354. Cross Reference for $NSWE

Name	Offset	Hex Tag
NSWATTCT	116	
NSWATTLN	1C0	64
NSWATTSL	160	
NSWCNTAD	D8	
NSWDSTID	3A4	
NSWDTECB	CC	
NSWDWORK	F0	
NSWDWRK2	F8	
NSWE	0	
NSWELEN	3E8	3E8
NSWENQPM	3B4	
NSWEPNAM	C4	
NSWERRCT	114	
NSWERRTM	118	
NSWESTAE	100	
NSWESTAL	110	14
NSWETCB	BC	
NSWEYE	0	
NSWGECBL	3A4	
NSWGFLG1	3AC	
NSWGF1CR	3AC	80
NSWGF1RE	3AC	40
NSWGPECB	3A0	
NSWGPNXT	390	
NSWGPPRV	394	
NSWGPQ	39C	
NSWNAME	A8	
NSWNEXT	B4	
NSWNSCT	D4	
NSWNSSLK	DC	
NSWNSST	398	
NSWNUM	B0	
NSWORG	390	
NSWPREV	B8	
NSWQUECB	D0	
NSWRECA	C0	
NSWRECBL	3A8	
NSWSQD	398	
NSWSTECB	3A0	
NSWSTMCL	3D8	10
NSWSTMCN	3D8	0
NSWSTMSL	3C0	18

Table 354. Cross Reference for $NSWE (continued)

Name	Offset	Hex Tag
NSWSTMST	3C0	0
NSWTBUF	39C	
NSWTCBTK	11C	
NSWTCBTL	131	18
NSWTCT	394	
NSWTRCA	138	
NSWTSCT	390	
NSWTTOK	E0	
NSWWRK16	F8	F0

Chapter 150. $NTRDATA Information

$NTRDATA Heading Information

Common Name: NJE Server Trace data area
Macro ID: $NTRDATA
DSECT Name: NTR
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: none
Storage Attributes: Subpool: 0
Key: 0
Residency: Private storage, Virtual storage below 2GB, real storage antwhere

Size: See NTRBLEN
Created by: $JES2 TRACE facility
Pointed to by: Maps data starting at TTEDATA in a TTE entry
Serialization: $TRACE
Function: Maps the $TRACE data (starting at TTEDATA) in a JES2 trace buffer. Used for trace ids 34, 35, 36, 37, and 38.

$NTRDATA mapping

Table 355. Structure NTR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NTR	, NJE Trace data
0	(0)	BITSTRING	3	NTRSDVID	Server device id
3	(3)	BITSTRING	3	NTRLDVID	Line device id
6	(6)	BITSTRING	1	NTRFLOW	Flow direction of record
		1...		NTRFFJ2M	"B'10000000'" From: JES2 main addrspc
		.1..		NTRFFJ2N	"B'01000000'" From: JES2 netsrv addrspc
		..1.		NTRFFIAZ	"B'00100000'" From: Common netsrv code
		...1		NTRFFTCP	"B'00010000'" From: TCP/IP
		.... 1...		NTRFTJ2M	"B'00001000'" To: JES2 main addrspc
		.... .1..		NTRFTJ2N	"B'00000100'" To: JES2 netsrv addrspc
		.... ..1.		NTRFTIAZ	"B'00000010'" To: Common netsrv code
		1		NTRFTTCP	"B'00000001'" To: TCP/IP

Table 355. Structure NTR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		NTRTYPE contains either one of the types below, or either the RCB or SRCB of the record indicating the type of record. The corresponding hex values For each record recognized are as follows: X'00' - EOT (SRCB of EOT record, from RIDXEOT) X'01' - NRQ (NTRTNRQ, from TBFTNRQ) X'02' - NMS (NTRTNMS, from TBFTNMS) X'03' - LREQ (NTRTLREQ, from TBFTLREQ) X'04' - JOB (NTRTJOB, from TBFTJOB) X'05' - CONN (NTRTCONN, from TBFTCONN) X'40' - Transmitter cancel (SRCB of TC, from RIDXTC) X'90' - Request to init (RCB of RI, from RIDALOCS) X'B0' - Receiver cancel (RCB of RC, from RIDPDRC) X'C0' - Job header (SRCB of JH, from SRCBJH) X'C1' - ACK EOT (RCB of ACK EOT from RIDAKEOT, plus one to differentiate from job header) X'D0' - Job trailer (SRCB of JT, from SRCBJT) X'E0' - Dataset header (SRCB of DSH, from SRCBDSH) X'FF' - Data			
7	(7)	BITSTRING	1	NTRTYPE	Data type
7	(7)	X'FF'	0	NTRTDATA	"FF" Contains data only
7	(7)	X'1'	0	NTRTNRQ	"TBFTNRQ" Contains a NRQ
7	(7)	X'2'	0	NTRTNMS	"TBFTNMS" Contains a NMS
7	(7)	X'3'	0	NTRTLREQ	"TBFTLREQ" Contains a LINE request
7	(7)	X'4'	0	NTRTJOB	"TBFTJOB" Contains a JOB request
7	(7)	X'5'	0	NTRTCONN	"TBFTCONN" Contains a CONNECT request
8	(8)	DBL WORD	8	NTRQTIME	Queue time
16	(10)	DBL WORD	8	NTRRTIME	Total request time
24	(18)	ADDRESS	4	NTRDADD	Actual data address
28	(1C)	SIGNED	2	NTRDLEN	Length of variable data
28	(1C)	X'1E'	0	NTRBLEN	"*-NTR"
28	(1C)	X'1E'	0	NTRDATA	"*"

Table 356. Cross Reference for $NTRDATA

Name	Offset	Hex Tag
NTR	0	
NTRBLEN	1C	1E
NTRDADD	18	
NTRDATA	1C	1E
NTRDLEN	1C	
NTRFFIAZ	6	20
NTRFFJ2M	6	80
NTRFFJ2N	6	40
NTRFFTCP	6	10
NTRFLOW	6	
NTRFTIAZ	6	2
NTRFTJ2M	6	8
NTRFTJ2N	6	4
NTRFTTCP	6	1
NTRLDVID	3	

Table 356. Cross Reference for $NTRDATA (continued)

Name	Offset	Hex Tag
NTRQTIME	8	
NTRRTIME	10	
NTRSDVID	0	
NTRTCONN	7	5
NTRTDATA	7	FF
NTRTJOB	7	4
NTRTLREQ	7	3
NTRTNMS	7	2
NTRTNRQ	7	1
NTRTYPE	7	

Chapter 151. $NTW Information

$NTW Programming Interface Information

$NTW is a programming interface.

$NTW Heading Information

Common Name:	HASP Network Path Manager Trace Work Area
Macro ID:	$NTW
DSECT Name:	NTW
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'NTW ' Offset: NTWID-NTW Length: 4
Storage Attributes:	Subpool: Subpool 0 for the permanent NTW; Subpool 1 for the temporary NTW. Key: 1 Residency: Virtual and real storage are anywhere (above or below 16M), in the private storage of the JES2 address space.
Size:	See NTWLEN
Created by:	JES2 Initialization JES2 Line Manager Processor
Pointed to by:	PCTNTW field of the $PCT data area (for the permanent work area created during JES2 initialization.)
Serialization:	No special serialization other than that currently implied by the Network Path Manager.
Function:	This DSECT maps a work area used to save information to be included in the following trace records: trace id 21, 22, 23 and 24. There are 2 types of NTWs: permanent and temporary. The permanent one is obtained for the Network Path Manager and is used for most of the traces issued by the Network Path Manager. The temporary NTW is used by the Line Manager when sending an I-record. The data in the NTW is used as an object of a $TRACE macro (DATA=, LEN=). The trace formatting routine uses the $TRACE macro to convert the internal representation to a printable format.

$NTW mapping

Table 357. Structure NTW

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NTW	
0	(0)	CHARACTER	4	NTWID	NTW identifier
4	(4)	ADDRESS	1	NTWVERS	NTW version
4	(4)	X'2'	0	NTWVERSN	"2" Version number
8	(8)	SIGNED	4	NTWSTART(0)	Start of $TRACE data

Table 357. Structure NTW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
8	(8)	CHARACTER	1	NTWTYPE	Rec type: M, N, I, J, K, L,
9	(9)	BITSTRING	1	NTWFLAG1	
		1...		NTW1SEND	"B'10000000'" This is a send record
		.1..		NTW1DFUL	"B'01000000'" Rec discon. by full path
		..1.		NTW1FFUL	"B'00100000'" Rec forced full path rout.
		...1		NTW1NCC	"B'00010000'" An NCC was passed
		.... 1...		NTW1GAR	"B'00001000'" Record is garbage
		.... .1..		NTW1MAS	"B'00000100'" MAS validation NCC record
		.... ..1.		NTW1MASP	"B'00000010'" MAS validation pending
		1		NTW1MASD	"B'00000001'" MAS validation completed
10	(A)	BITSTRING	1	NTWSTAT	Status for connection
11	(B)	BITSTRING	1	NTWOSTAT	Previous status for conn
12	(C)	BITSTRING	1	NTWRRC	Reason code for why record Was rejected or sent
13	(D)	ADDRESS	1	NTWMEMB	Node qualifier
14	(E)	ADDRESS	2	NTWNODE	Node from which record rcvd
16	(10)	CHARACTER	8	NTWCONS	Where record was from: LINEnnnn, MLINEn, 'FULLPATH', 'LINEDOWN', 'CONSOLE', 'PARMLIB'
24	(18)	SIGNED	4	NTWOCES	Previous CES
24	(18)	X'4'	0	NTWCESL	"4" Length of unconverted CES
24	(18)	X'10'	0	NTWCCESL	"16" Length of converted CES
28	(1C)	SIGNED	4	NTWREC(0)	
28	(1C)	BITSTRING	20	NTWNAT	Space for NAT record
28	(1C)	BITSTRING	41	NTWNCCI	Space for NCC I/J record
28	(1C)	BITSTRING	9	NTWNCCK	Space for NCC K/L record
28	(1C)	BITSTRING	27	NTWNCCM	Space for NCC M/N record
28	(1C)	BITSTRING	3	NTWNCCB	Space for NCC B record
69	(45)	X'3D'	0	NTWSIZE	"*-NTWSTART" Size of NPM trace record
69	(45)	X'45'	0	NTWLEN	"*-NTW" Len of NPM work area
NTWRRC Reason codes					
69	(45)	X'1'	0	NTWRINN	"1" Invalid Node Name
69	(45)	X'2'	0	NTWRMEM	"2" Invalid Member Number
69	(45)	X'3'	0	NTWRNSA	"3" No Storage Available
69	(45)	X'4'	0	NTWRICR	"4" Invalid resistance
69	(45)	X'5'	0	NTWRICS	"5" Invalid CES
69	(45)	X'6'	0	NTWRNDA	"6" No Devices Available
69	(45)	X'7'	0	NTWRTOL	"7" TOD Tolerance exceeded
69	(45)	X'8'	0	NTWRILP	"8" Invalid Line Password
69	(45)	X'9'	0	NTWRINP	"9" Invalid Node Password
69	(45)	X'A'	0	NTWRLNX	"10" Line Not Transparent
69	(45)	X'B'	0	NTWRIGN	"11" Ignored, Line Active
69	(45)	X'C'	0	NTWRGARB	"12" Ignored, Invalid record
69	(45)	X'D'	0	NTWRERR	"13" Ignored, ABEND processing

Table 357. Structure NTW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
69	(45)	X'E'	0	NTWRKNOW	"14" Ignored, more recent connect exists
69	(45)	X'F'	0	NTWROWN	"15" Connection involves local node and member
69	(45)	X'10'	0	NTWRIFF	"16" Invalid NJE signon feature flags
69	(45)	X'11'	0	NTWRIPM	"17" Incorrect value for PATHMGR=
69	(45)	X'12'	0	NTWRIPT	"18" Non path manager CES received
69	(45)	X'13'	0	NTWRNOIB	"19" PREVIOUS I OR J RECORD WAS NOT ONLY IN BUFFER
69	(45)	X'14'	0	NTWROLDR	"20" IGNORED, AN OLD SUBTRACT NCC RECORD WAS RECEIVED
69	(45)	X'15'	0	NTWRLNPM	"21" IGNORED, RECORD RECEIVED ON A NON-PM LINE
69	(45)	X'16'	0	NTWRIGNA	"22" Ignored, line no longer active
69	(45)	X'17'	0	NTWRDUPM	"23" Duplicate primary and secondary node/member
69	(45)	X'18'	0	NTWRIMT	"24" Incorrect multi-trunk
69	(45)	X'19'	0	NTWRDCES	"25" Records with duplicate CES values were received
69	(45)	X'1A'	0	NTWRIPW	"26" Incorrect secure signon

Table 358. Cross Reference for $NTW

Name	Offset	Hex Tag
NTW	0	
NTWCCESL	18	10
NTWCESL	18	4
NTWCONS	10	
NTWFLAG1	9	
NTWID	0	D5E3E640
NTWLEN	45	45
NTWMEMB	D	
NTWNAT	1C	
NTWNCCB	1C	
NTWNCCI	1C	
NTWNCCK	1C	
NTWNCCM	1C	
NTWNODE	E	
NTWOCES	18	
NTWOSTAT	B	
NTWRDCES	45	19
NTWRDUPM	45	17
NTWREC	1C	
NTWRERR	45	D
NTWRGARB	45	C
NTWRICR	45	4
NTWRICS	45	5

Table 358. Cross Reference for $NTW (continued)

Name	Offset	Hex Tag
NTWRIFF	45	10
NTWRIGN	45	B
NTWRIGNA	45	16
NTWRILP	45	8
NTWRIMT	45	18
NTWRINN	45	1
NTWRINP	45	9
NTWRIPM	45	11
NTWRIPT	45	12
NTWRIPW	45	1A
NTWRKNOW	45	E
NTWRLNPM	45	15
NTWRLNX	45	A
NTWRMEM	45	2
NTWRNDA	45	6
NTWRNOIB	45	13
NTWRNSA	45	3
NTWROLDR	45	14
NTWROWN	45	F
NTWRRC	C	
NTWRTOL	45	7
NTWSIZE	45	3D
NTWSTART	8	
NTWSTAT	A	
NTWTYPE	8	
NTWVERS	4	
NTWVERSN	4	2
NTW1DFUL	9	40
NTW1FFUL	9	20
NTW1GAR	9	8
NTW1MAS	9	4
NTW1MASD	9	1
NTW1MASP	9	2
NTW1NCC	9	10
NTW1SEND	9	80

Chapter 152. $NVL Information

$NVL Programming Interface Information

$NVL is a programming interface.

$NVL Heading Information

Common Name: Volume Allocation Table
Macro ID: $NVL
DSECT Name: NVL
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: None
Storage Attributes: Subpool: 0
Key: 1
Residency: Virtual and real storage are in 31 bit storage in the private storage of the JES2 address space.

Size: See NVLTBLN
Created by: HASPIRMA
Pointed to by: CIRVOLTB field of the $CIRWORK data area
Serialization: None required
Function: Maps the description of SPOOL volumes defined via initialization statements or discovered via a UCB scan.

$NVL mapping

Table 359. Structure NVL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NVL	Allocation table entry DSECT
0	(0)	CHARACTER	6	NVLVOLID	Volume serial number
6	(6)	CHARACTER	44	NVLDSN	Data set name
50	(32)	BITSTRING	1	NVLFLAGS	Allocation request flags
51	(33)	BITSTRING	1	NVLTYPE	NVL type flag
		1...		NVLINIT	"B'10000000'" Init statement created
52	(34)	BITSTRING	128	NVLSYAFN	Spool system affinity name list
180	(B4)	ADDRESS	4	NVLUCBPT	Volume UCB address
184	(B8)	CHARACTER	8	NVLPTOKN	PIN token from $GETUCBS
192	(C0)	DBL WORD	8	(0)	
192	(C0)	X'C0'	0	NVLTBLN	"*-NVL" Length of NVL table

Table 360. Cross Reference for $NVL

Name	Offset	Hex Tag
NVL	0	
NVLDSN	6	
NVLFLAGS	32	
NVLINIT	33	80

Table 360. Cross Reference for $NVL (continued)

Name	Offset	Hex Tag
NVLPTOKN	B8	
NVLSYAFN	34	
NVLTBLN	C0	C0
NVLTYPE	33	
NVLUCBPT	B4	
NVLVOLID	0	

Chapter 153. $OCR Information

$OCR Programming Interface Information

$OCR is a programming interface.

$OCR Heading Information

Common Name:	OUTPUT Control Record DSECT
Macro ID:	$OCR
DSECT Name:	OCR
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	None
Storage Attributes:	Subpool: See $OCT Key: See $OCT Residency: See $OCT
Size:	See OCRLENG
Created by:	Initially created by HASPRCCS routine in HASCSRIP when a job encounters a /*OUTPUT card.
Pointed to by:	OCRs reside in the OCT starting at label OCTOCR. The offset beyond the last OCR in the OCT is in OCTOFOCR.
Serialization:	While a job is in execution, the OCR resides in the user address space, so that no other JES2 PCE will update the OCR. At other times, the JES2 dispatcher is used.
Function:	The $OCR contains the information supplied on a /*OUTPUT JES2 JCL statement. The OCRs are contained in the OCT.

$OCR mapping

Table 361. Structure OCR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	OCR	OUTPUT CONTROL RECORD DSECT
0	(0)	CHARACTER	4	OCRCODE	FORMS CODE
4	(4)	CHARACTER	5	(0)	KEEP MOD AND MODC TOGETHER
4	(4)	CHARACTER	4	OCRMODF	N/I PRINTER COPY-MOD IMAGE
8	(8)	BITSTRING	1	OCRMODFT	N/I PRINTER MODIFY TAB REF CHAR
9	(9)	BITSTRING	1	OCRFLAGS	OUTPUT FLAGS
10	(A)	BITSTRING	1	OCRINDEX	PRINT INDEX
11	(B)	BITSTRING	1	OCRCOPY	COPY COUNT (MUST PRECEDE COPYG)
12	(C)	CHARACTER	8	OCRCOPYG	N/I PRINTER COPY GROUPS
20	(14)	CHARACTER	4	OCRFORMS	FORMS SPECIFICATION
24	(18)	CHARACTER	4	OCRFCB	FCB SPECIFICATION
28	(1C)	CHARACTER	4	OCRUCS	UCS SPECIFICATION
32	(20)	SIGNED	4	OCRRECNT	RECORD COUNT LIMIT
36	(24)	CHARACTER	4	OCRCHAR1	N/I PRINTER TRANS-TABLE 1
40	(28)	CHARACTER	4	OCRCHAR2	N/I PRINTER TRANS-TABLE 2
44	(2C)	CHARACTER	4	OCRCHAR3	N/I PRINTER TRANS-TABLE 3

Table 361. Structure OCR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
48	(30)	CHARACTER	4	OCRCHAR4	N/I PRINTER TRANS-TABLE 4
52	(34)	SIGNED	4	OCRDEST1	DESTINATION 1
56	(38)	CHARACTER	8	OCRUSER1	DESTINATION 1 USERID/RMTID
56	(38)	X'C'	0	OCRUSDST	"*-OCRDEST1" LNGTH OF 1 OCR USERID/DEST UNIT
64	(40)	SIGNED	4	OCRDEST2	DESTINATION 2
68	(44)	CHARACTER	8	OCRUSER2	DESTINATION 2 USERID/RMTID
76	(4C)	SIGNED	4	OCRDEST3	DESTINATION 3
80	(50)	CHARACTER	8	OCRUSER3	DESTINATION 3 USERID/RMTID
88	(58)	SIGNED	4	OCRDEST4	DESTINATION 4
92	(5C)	CHARACTER	8	OCRUSER4	DESTINATION 4 USERID/RMTID
92	(5C)	X'30'	0	OCRUDND	"*-OCRDEST1" END OF DEST/USER ID SECTION
100	(64)	CHARACTER	5	(0)	KEEP FLASH, FLASH CNT TOGETHER
100	(64)	CHARACTER	4	OCRFLASH	N/I PRINTER FLASH
104	(68)	BITSTRING	1	OCRFLSHC	N/I PRINTER # FLASH COPIES
105	(69)	BITSTRING	1	OCRCPTN	COMPACTION TABLE NUMBER
106	(6A)	SIGNED	2	OCRCKPTP	NO. OF LOGICAL PAGES/CKPT
108	(6C)	SIGNED	2	OCRCKPTL	NO. OF LINES/LOGICAL PAGE
110	(6E)	BITSTRING	1	OCRLINCT	LINECT
111	(6F)	BITSTRING	12		RESERVED
124	(7C)	SIGNED	4	OCREND(0)	END OF OUTPUT CONTROL RECORD
124	(7C)	X'7C'	0	OCRLENG	"*-OCR"
OCRFLAGS					
		1...		OCRBRSTN	"B'10000000'" N/I PRINTER BURST=NO FLAG
		.1..		OCRBRSTY	"B'01000000'" N/I PRINTER BURST=YES FLAG
		..1.		OCRLNCTF	"B'00100000'" LINECT SPECIFIED
		...1		OCRFLAG3	"B'00010000'" RESERVED
		.... 1...		OCRFLAG4	"B'00001000'" RESERVED
		.... .1..		OCRFLAG5	"B'00000100'" RESERVED
		.... ..1.		OCRFLAG6	"B'00000010'" RESERVED
		1		OCRFLAG7	"B'00000001'" RESERVED

Table 362. Cross Reference for $OCR

Name	Offset	Hex Tag
OCR	0	
OCRBRSTN	7C	80
OCRBRSTY	7C	40
OCRCHAR1	24	
OCRCHAR2	28	
OCRCHAR3	2C	
OCRCHAR4	30	
OCRCKPTL	6C	
OCRCKPTP	6A	
OCRCODE	0	
OCRCOPY	B	
OCRCOPYG	C	

Table 362. Cross Reference for $OCR (continued)

Name	Offset	Hex Tag
OCRCPTN	69	
OCRDEST1	34	
OCRDEST2	40	
OCRDEST3	4C	
OCRDEST4	58	
OCREND	7C	
OCRFCB	18	
OCRFLAGS	9	
OCRFLAG3	7C	10
OCRFLAG4	7C	8
OCRFLAG5	7C	4
OCRFLAG6	7C	2
OCRFLAG7	7C	1
OCRFLASH	64	
OCRFLSHC	68	
OCRFORMS	14	
OCRINDEX	A	
OCRLENG	7C	7C
OCRLINCT	6E	
OCRLNCTF	7C	20
OCRMODF	4	
OCRMODFT	8	
OCRRECNT	20	
OCRUCS	1C	
OCRUDND	5C	30
OCRUSDST	38	C
OCRUSER1	38	
OCRUSER2	44	
OCRUSER3	50	
OCRUSER4	5C	

Chapter 154. $OCT Information

$OCT Programming Interface Information

$OCT is a programming interface.

$OCT Heading Information

Common Name:	Output Control Table
Macro ID:	$OCT
DSECT Name:	OCT
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	OCT Offset: OCTID-OCT Length: L'OCTID
Storage Attributes:	Subpool: 7 for Main Task, 230 for User Environment Key: 1 Residency: The $OCT is a JES2 spool resident control block. Virtual and real storage can be anywhere.
Size:	See OCTLENG for the length of the control block. The OCT is contained in a buffer of size $BUFSIZE which is a field in $HCT.
Created by:	Initially created by HASPRDR when a job encounters a /*OUTPUT card.
Pointed to by:	OCTOCT field of the $OCT data area SJBOCT field of the $SJB data area OCTOCTTR field of the $OCT data area (addr on spool) JCTOCTTR field of the $JCT data area (addr on spool) Various fields in the processor work areas
Serialization:	While a job is in execution, the OCT resides in the user address space, so that no other JES2 PCE will update the OCT. At other times, the JES2 dispatcher is used.
Function:	The OCT is used to hold data from the /*OUTPUT control card until a PDDB is created into which the data is then moved.

$OCT mapping

Table 363. Structure OCT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	OCT	HASP OUTPUT CONTROL TABLE DSECT
		The following fields are defined over the buffer prefix in order to ensure that they are never written to SPOOL.			
0	(0)	X'40'	0	OCTOCT	"BUFMEMW1-BFPDSECT+OCT" Storage address of next OCT
		End of buffer prefix fields			

Table 363. Structure OCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	BITSTRING	1	(0)	BUFFER CONTROL INFORMATION
0	(0)	X'68'	0	OCTSTART	"*" START OF DATA WRITTEN TO SPOOL
		The following sub-section, generated by the SPID macro, must reside immediately after the I/O control data in every spool buffer. The following fields are defined: Eyecatcher - 4 bytes Job name - 8 bytes Job number - 4 bytes Job key - 4 bytes Dataset key - 4 bytes (or reserved if not applicable)			
104	(68)	CHARACTER	4	OCTID	Eyecatcher
108	(6C)	CHARACTER	8	OCTJNAME	Job name
116	(74)	SIGNED	4	OCTJBNUM	Job number
120	(78)	SIGNED	4	OCTJBKEY	Job key
124	(7C)	BITSTRING	4		Reserved
124	(7C)	X'18'	0	OCTSPLNG	"*-OCTID"
128	(80)	ADDRESS	2	OCTLENG	LENGTH OF OCT INCLUDING PREFIX
130	(82)	SIGNED	1	OCTVERS	OCT version:
130	(82)	X'0'	0	OCTVER0	"0" Pre-z/OS 1.12 (MTTRs)
130	(82)	X'C'	0	OCTVER12	"12" z/OS 1.12+ (MQTRs)
131	(83)	BITSTRING	1		RESERVED FOR FUTURE USE
		OCTVER0 (Pre-z/OS 1.12) OCT format:			
132	(84)	BITSTRING	4	OCTTRACK_Z11	Track address (MTTR) of this OCT
136	(88)	BITSTRING	4	OCTOCTTR_Z11	Track address (MTTR) of next OCT
140	(8C)	SIGNED	4	OCTOCROF_Z11	Offset beyond last OCR in OCT
144	(90)	BITSTRING	4	OCTRSV1_Z11	Reserved for future use
		OCTVER12 (z/OS 1.12+) OCT format:			
132	(84)	BITSTRING	6	OCTCURTK	Track address (MQTR) of this OCT
138	(8A)	BITSTRING	6	OCTNXTTK	Track address (MQTR) of next OCT
144	(90)	SIGNED	4	OCTOFOCR	Offset beyond last OCR in OCT
		START OF OUTPUT CONTROL RECORDS ($OCRs)			
148	(94)	BITSTRING	1	OCTOCR	START OF OUTPUT CONTROL RECORDS

Table 364. Cross Reference for $OCT

Name	Offset	Hex Tag
OCT	0	
OCTCURTK	84	
OCTID	68	
OCTJBKEY	78	
OCTJBNUM	74	
OCTJNAME	6C	
OCTLENG	80	
OCTNXTTK	8A	
OCTOCR	94	
OCTOCROF_Z11	8C	
OCTOCT	0	40

Table 364. Cross Reference for $OCT (continued)

Name	Offset	Hex Tag
OCTOCTTR_Z11	88	
OCTOFOCR	90	
OCTRSV1_Z11	90	
OCTSPLNG	7C	18
OCTSTART	0	68
OCTTRACK_Z11	84	
OCTVERS	82	
OCTVER0	82	0
OCTVER12	82	C

Chapter 155. $ODPARM Information

$ODPARM Programming Interface Information

$ODPARM is a programming interface.

$ODPARM Heading Information

Common Name:	Output Descriptor Parameter Block
Macro ID:	$ODPARM
DSECT Name:	ODPARM
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'ODP ' Offset: ODPID-ODP Length: 4
Storage Attributes:	Subpool: 1 Key: 1 Residency: Virtual and real storage are anywhere (above or below 16M) in the private storage of the JES2 address space.
Size:	See ODPSIZE
Created by:	SJF Services processor for each request that is passed to the Output Descriptor Modify Subtask processor.
Pointed to by:	SFRODP field of the $SFRB data area
Serialization:	None required; HASPSJFR subtask assigns one ODPARM per subtask to process a request.
Function:	This macro provides the mapping of the parameters needed by the Output Descriptor routine called by the generalized subtask in support of SWB Modify processing.

$ODPARM mapping

Table 365. Structure ODPARM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ODPARM	
0	(0)	X'0'	0	ODPBGN	"*"
0	(0)	CHARACTER	4	ODPID	Acronym set to 'ODP '
4	(4)	BITSTRING	1	ODPVER	Version number of ODPARM
4	(4)	X'1'	0	ODPV#	"1" Current version number of ODPARM
5	(5)	BITSTRING	1	ODPRSV1	Reserved
6	(6)	SIGNED	2	ODPRSV2	Reserved
8	(8)	ADDRESS	4	ODPWAVE	Address of WAVE
12	(C)	ADDRESS	4	ODPJOEA	Address of JOE
		Output descriptor subtask work area begins here Footprints for SWB Modify Subtask			
16	(10)	BITSTRING	1	ODPFOOT	Footprint area - current

Table 365. Structure ODPARM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
17	(11)	BITSTRING	1	ODPFOOTP	Footprint area - previous
17	(11)	X'1'	0	ODPFSTR	"1" Footprint - Convert Dest
17	(11)	X'2'	0	ODPFCNV	"2" Footprint - Convert Dest
17	(11)	X'3'	0	ODPFSAF	"3" Footprint - SAF calls
17	(11)	X'4'	0	ODPFMGI	"4" Footprint - Merge init.
17	(11)	X'5'	0	ODPFDSP	"5" Footprint - Despool SWBITs
17	(11)	X'6'	0	ODPFMGS	"6" Footprint - $Merge setup
17	(11)	X'7'	0	ODPFSJM	"7" Footprint - SJF/$MERG
17	(11)	X'8'	0	ODPFSJS	"8" Footprint - SJF Split
17	(11)	X'9'	0	ODPFTUS	"9" Footprint - Move TUs
17	(11)	X'A'	0	ODPFWRI	"10" Footprint - Write init.
17	(11)	X'B'	0	ODPFIOT	"11" Footprint - IOT access
17	(11)	X'C'	0	ODPFMTR	"12" Footprint - Alloc MTTR
17	(11)	X'D'	0	ODPFSPL	"13" Footprint - Write SWBIT
17	(11)	X'E'	0	ODPFCLP	"14" Footprint - Merge cleanup
17	(11)	X'F'	0	ODPPREC	"15" Footprint - In recovery
		Error Reason Codes from SWB Modify Subtask			
17	(11)	X'4'	0	ODPRSAF	"4" SAF call failure ($SEAS)
17	(11)	X'8'	0	ODPRIOE	"8" I/O error on Spool
17	(11)	X'C'	0	ODPRSERV	"12" JES2 service rtn error
17	(11)	X'10'	0	ODPRDEST	"16" Dest processing error
17	(11)	X'14'	0	ODPRMERG	"20" Error during Merge service
17	(11)	X'18'	0	ODPRSPLT	"24" Error during Split service
17	(11)	X'1C'	0	ODPRABN	"28" Subtask abended
17	(11)	X'20'	0	ODPRIOT	"32" IOT is not valid
17	(11)	X'24'	0	ODPRBADP	"36" Bad parm. or control block
17	(11)	X'8'	0	ODPERR8	"8" Subtask return code
18	(12)	BITSTRING	1	ODPFLG1	Flag
		1		ODPNOBAS	"B'00000001'" No base SWBITs in JOE
		.... ..1.		ODPERBAS	"B'00000010'" Base Erase Tus exist
		.... .1..		ODPNOOVR	"B'00000100'" No override SWBTU present
		.... 1...		ODPNOMRG	"B'00001000'" No $SWBMERG required
		...1		ODPABND	"B'00010000'" Recovery routine entered
		..1.		ODPRCUR	"B'00100000'" Abend recursion flag
19	(13)	BITSTRING	1	ODPFLG2	Processing status flag (used by both JES2&subtsk)
		The following two bits are mutually exclusive. If neither is on, the current destination is kept as is.			
		1...		ODP2NOIP	"B'10000000'" Dest is NOT in IP format
		.1..		ODP2IPAD	"B'01000000'" Dest is in IP format
		..1.		ODP2ERAS	"B'00100000'" Dest is to be erased
20	(14)	SIGNED	2	ODPDATLN	Size of SWBIT Data area

Table 365. Structure ODPARM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
22	(16)	SIGNED	2	ODPRSVW1	Reserved for subtask use
24	(18)	DBL WORD	8	(0)	Alignment
24	(18)	CHARACTER	20	ODPDSAFW	20 byte DEST/SAF work area
44	(2C)	SIGNED	4	ODPWRK1	Work area for subtask
48	(30)	SIGNED	4	ODPWRK2	Work area for subtask
52	(34)	ADDRESS	4	ODPSERVP	MERGE/SPLIT parm area
56	(38)	ADDRESS	4	ODPSERVL	MEREGE/SPLIT parm length
60	(3C)	ADDRESS	4	ODPMTUAD	$MERGE SWBTU output addr
64	(40)	ADDRESS	4	ODPFINB	First input SWBIT buffer
68	(44)	ADDRESS	4	ODPFIRB	First output SWBIT buffer
72	(48)	ADDRESS	4	ODPCURB	Current SWBIT buffer addr
76	(4C)	ADDRESS	4	ODPPREB	Previous SWBIT buffer addr
80	(50)	ADDRESS	4	ODPERAD	Cumulative erase TU addr
84	(54)	ADDRESS	4	ODPTUAD	address of merged SWBTU
88	(58)	SIGNED	2	ODPERCLN	Cumulative erase TU length
90	(5A)	SIGNED	2	ODPTUCLN	Cumulative SWBTU length
92	(5C)	SIGNED	2	ODPTUNUM	Number of base SWBTUs
94	(5E)	SIGNED	2	ODPRSVH1	Reserved for devel.
96	(60)	ADDRESS	4	ODPSJIO	Address of SJIOB
100	(64)	ADDRESS	4	ODPIOTB	Addr IOT buffers
104	(68)	SIGNED	4	ODPSJRC	SJF Service return code
108	(6C)	SIGNED	4	ODPSJRS	SJF Service reason code
112	(70)	ADDRESS	4	ODPPCE	Address of PCE
116	(74)	SIGNED	4	ODPRSVS1	Reserved for service
120	(78)	DBL WORD	8	(0)	Alignment
120	(78)	ADDRESS	4	ODPJOAA	Address of UPDATE MODE JOA.
124	(7C)	CHARACTER	76	ODPCHJOE	Char-JOE area
200	(C8)	CHARACTER	8	ODPJUSER	Input - JOEUSER from characteristic JOE Output - Userid included in modify SWBTU or '<IP>' if new dest is in IP-format.
208	(D0)	BITSTRING	4	ODPROUT	Route code from DEST mod TU
212	(D4)	CHARACTER	84	ODPTKWRK	Security token work area
296	(128)	DBL WORD	8	(0)	Alignment
296	(128)	CHARACTER	96	ODPJQE	Work-JQE area
392	(188)	CHARACTER	56	ODPJSPLS	JESSPOOL logstring
448	(1C0)	DBL WORD	8	(0)	End on a Dblword boundary
448	(1C0)	X'1C0'	0	ODPSIZE	"*-ODPBGN" Size of parameter area

Table 366. Cross Reference for $ODPARM

Name	Offset	Hex Tag
ODPABND	12	10
ODPARM	0	
ODPBGN	0	0
ODPCHJOE	7C	
ODPCURB	48	
ODPDATLN	14	
ODPDSAFW	18	
ODPERAD	50	

Table 366. Cross Reference for $ODPARM (continued)

Name	Offset	Hex Tag
ODPERBAS	12	2
ODPERCLN	58	
ODPERR8	11	8
ODPFCLP	11	E
ODPFCNV	11	2
ODPFDSP	11	5
ODPFINB	40	
ODPFIOT	11	B
ODPFIRB	44	
ODPFLG1	12	
ODPFLG2	13	
ODPFMGI	11	4
ODPFMGS	11	6
ODPFMTR	11	C
ODPFOOT	10	
ODPFOOTP	11	
ODPFSAF	11	3
ODPFSJM	11	7
ODPFSJS	11	8
ODPFSPL	11	D
ODPFSTR	11	1
ODPFTUS	11	9
ODPFWRI	11	A
ODPID	0	
ODPIOTB	64	
ODPJOAA	78	
ODPJOEA	C	
ODPJQE	128	
ODPJSPLS	188	
ODPJUSER	C8	
ODPMTUAD	3C	
ODPNOBAS	12	1
ODPNOMRG	12	8
ODPNOOVR	12	4
ODPPCE	70	
ODPPREB	4C	
ODPPREC	11	F
ODPRABN	11	1C
ODPRBADP	11	24
ODPRCUR	12	20
ODPRDEST	11	10
ODPRIOE	11	8
ODPRIOT	11	20
ODPRMERG	11	14
ODPROUT	D0	
ODPRSAF	11	4
ODPRSERV	11	C
ODPRSPLT	11	18
ODPRSVH1	5E	

Table 366. Cross Reference for $ODPARM (continued)

Name	Offset	Hex Tag
ODPRSVS1	74	
ODPRSVW1	16	
ODPRSV1	5	
ODPRSV2	6	
ODPSERVL	38	
ODPSERVP	34	
ODPSIZE	1C0	1C0
ODPSJIO	60	
ODPSJRC	68	
ODPSJRS	6C	
ODPTKWRK	D4	
ODPTUAD	54	
ODPTUCLN	5A	
ODPTUNUM	5C	
ODPV#	4	1
ODPVER	4	
ODPWAVE	8	
ODPWRK1	2C	
ODPWRK2	30	
ODP2ERAS	13	20
ODP2IPAD	13	40
ODP2NOIP	13	80

Chapter 156. $OPAWORK Information

$OPAWORK Heading Information

Common Name:	JES2 Output Priority Aging PCE Work Area
Macro ID:	$OPAWORK
DSECT Name:	PCE ($OPAWORK is part of the PCE DSECT)
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4
Storage Attributes:	Subpool: See $PCE Key: See $PCE Residency: See $PCE
Size:	See symbol OPAPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by:	See $PCE
Pointed to by:	The $PRYOPCE field of the $HCT data area See $PCE for other pointer fields that apply to all PCE types.
Serialization:	Normal PCE dispatch serialization
Function:	The fields in this area are used by a JES2 Output Priority Aging Processor and by its support routines and exits. $OPAWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $OPAWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEOPAID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

$OPAWORK mapping

Table 367. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
320	(140)	BITSTRING	12	OPATQE	HASP Timer Queue Element
332	(14C)	SIGNED	4		Reserved for future use
336	(150)	DBL WORD	8	(0)	Force double-word alignment
336	(150)	X'10'	0	OPAPCEWS	"*-PCEWORK" Length of work area

Chapter 157. $OUTWORK Information

$OUTWORK Programming Interface Information

$OUTWORK is a programming interface.

$OUTWORK Heading Information

Common Name:	JES2 Output PCE Work Area
Macro ID:	$OUTWORK
DSECT Name:	PCE ($OUTWORK is part of the PCE DSECT)
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4
Storage Attributes:	Subpool: See $PCE Key: See $PCE Residency: See $PCE
Size:	See symbol OUTWKSIZ for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by:	See $PCE
Pointed to by:	The $OUTPCE field of the $HCT data area points into the $PCEORG/$PCELAST chain to the first Output PCE. Since this chain contains all PCEs, use the PCEID field to determine when you have chained past the last PCE of this type. See $PCE for other pointer fields that apply to all PCE types.
Serialization:	Normal PCE dispatch serialization
Function:	The fields in this work area are used by a JES2 Output Processor and by its support routines and exits. $OUTWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $OUTWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEOUTID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

$OUTWORK mapping

Table 368. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
320	(140)	SIGNED	4	OUTIOTBF	ADDRESS OF IOT BUFFER CHAIN
324	(144)	SIGNED	4	OUTJCTBF	ADDRESS OF JCT BUFFER
328	(148)	SIGNED	4	OUTPDDB	RESTART PDDB POINTER
332	(14C)	SIGNED	4	OUTIMEON(2)	OUTPUT PROCESSOR TIME/DATE

Table 368. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
340	(154)	ADDRESS	4	OUTJOAA	Addr of buffer containing PROTOTYPE JOA
344	(158)	SIGNED	4	OUTJOAL	Length of buffer containing PROTOTYPE JOA
348	(15C)	SIGNED	4	OUTDBEND	1ST FREE PDDB SLOT IN IOT
352	(160)	SIGNED	4	OUTIOT	RESTART IOT ADDRESS
356	(164)	SIGNED	4	OUTIOTM	Number of IOTs in memory
360	(168)	SIGNED	4	OUTJBKEY	JOB KEY FROM JCTJBKEY
364	(16C)	BITSTRING	1	OUTJCOPY	JOB LEVEL COPY COUNT FROM JCT
365	(16D)	BITSTRING	2		RESERVED
367	(16F)	BITSTRING	1	OUTFLAGS	OUTPUT PROCESSOR FLAGS
368	(170)	SIGNED	4	OUTGGTOK	GENERIC GROUPING TOKEN
372	(174)	SIGNED	4	OUTEXPRM(0)	EXIT 16 PARAMETER LIST
372	(174)	SIGNED	4	OUTMADD	EXIT MESSAGE ADDRESS
376	(178)	SIGNED	4	OUTMPRM	EXIT PARM LIST ADDRESS
380	(17C)	SIGNED	4	OUTMJCT	ADDRESS OF JCT
384	(180)	ADDRESS	4	OUTDSSCB	ADDR OF DSSCB WORK AREA
388	(184)	CHARACTER	32	OUTGRPPM	OUTPUT GROUPING PARM LIST
420	(1A4)	ADDRESS	4	OUTQPARM	NODE TABLE ADDRESS
424	(1A8)	ADDRESS	4		CONTROL BLOCK ADDRESS
428	(1AC)	ADDRESS	4		ADDRESS OF JQE
432	(1B0)	ADDRESS	1		QUEUE TYPE SPECIFIED
433	(1B1)	ADDRESS	1		WORK SELECTION TYPE FLAG
434	(1B2)	ADDRESS	1		RESERVED FOR FUTURE USE
434	(1B2)	X'1A4'	0	OUTPLST	"OUTQPARM,*-OUTQPARM" QGET PARAMETER LIST STORAGE
435	(1B3)	CHARACTER	37	OUTNOTPL	Parm list storage for $HNOTIFY call from DSAL
472	(1D8)	DBL WORD	8	(0)	
472	(1D8)	BITSTRING	80	OUTCTKNO	Old CTOKEN work area
552	(228)	DBL WORD	8	(0)	
552	(228)	BITSTRING	56	OUTX40PL	Exit 40 XPL parmlist
608	(260)	DBL WORD	8	(0)	
608	(260)	X'120'	0	OUTWKSIZ	"*-PCEWORK" LENGTH OF HOPE PCE WORK AREA
OUTFLAGS					
		1...		OUTSTATS	"B'10000000'" JOB Statistics created
		.... 1...		OUTJOBER	"B'00001000'" Job finished abnormally

Table 369. Cross Reference for $OUTWORK

Name	Offset	Hex Tag
OUTCTKNO	1D8	
OUTDBEND	15C	
OUTDSSCB	180	
OUTEXPRM	174	
OUTFLAGS	16F	
OUTGGTOK	170	
OUTGRPPM	184	

Table 369. Cross Reference for $OUTWORK (continued)

Name	Offset	Hex Tag
OUTIMEON	14C	
OUTIOT	160	
OUTIOTBF	140	
OUTIOTM	164	
OUTJBKEY	168	
OUTJCOPY	16C	
OUTJCTBF	144	
OUTJOAA	154	
OUTJOAL	158	
OUTJOBER	260	8
OUTMADD	174	
OUTMJCT	17C	
OUTMPRM	178	
OUTNOTPL	1B3	
OUTPDDB	148	
OUTPLST	1B2	1A4
OUTQPARM	1A4	
OUTSTATS	260	80
OUTWKSIZ	260	120
OUTX40PL	228	
PCE	0	

Chapter 158. $PAD Information

$PAD Heading Information

Common Name:	PROCLIB Allocation Descriptor
Macro ID:	$PAD
DSECT Name:	PAD
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	PAD Offset: PADID Length: L'PADID
Storage Attributes:	Subpool: N/A Key: 1 Residency: Located in the PAD JES2 $CPOOL in the PSO data space.
Size:	See PADLEN
Created by:	HASPSXIT for the PROCLIB command and init statement
Pointed to by:	CCTPAD field of the HCCT data area PADPAD field of the PAD data area PADALT field of the PAD data area PADDAD field of the PAD data area
Serialization:	None required
Function:	The PAD represent a dynamically allocated PROCLIB DD statement.

$PAD mapping

Table 370. Structure PAD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PAD	, PROCLIB allocation DSECT
0	(0)	CHARACTER	4	PADID	Eyecatcher
4	(4)	SIGNED	4	PADSIZE	PAD length
8	(8)	CHARACTER	8	PADNAME	Logical DD name
16	(10)	CHARACTER	8	PADALCDD	Allocated DD name
24	(18)	DBL WORD	8	PADCRTIM	PAD creation time
32	(20)	DBL WORD	8	PADDLTIM	Time of last PAD deletion attempt
40	(28)	BITSTRING	1	PADFLAG1	General flag byte
		1...		PAD1DEL	"B'10000000'" PAD deleted
		.1..		PAD1UNC	"B'01000000'" Unconditional allocation
		..1.		PAD1COND	"B'00100000'" Conditional allocation
		...1		PAD1UNAP	"B'00010000'" Unallocation in progress
		.... 1...		PAD1STAT	"B'00001000'" PAD represents a static allocation (from PROC)
		.... .1..		PAD1CIFA	"B'00000100'" A C/I addr space failed to allocate PROCLIB
41	(29)	BITSTRING	3		Reserved
44	(2C)	ADDRESS	4	PADPAD	PAD chain pointer

Table 370. Structure PAD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
48	(30)	ADDRESS	4	PADALT	Alternate PAD chain
52	(34)	ADDRESS	4	PADDAD	Owning (main) pad
56	(38)	SIGNED	4	PADUSE	PAD use count
60	(3C)	SIGNED	4	PADDSNLW	Low data set subscript (always 1)
64	(40)	SIGNED	4	PADDSNCT	Data set count
68	(44)	BITSTRING	12		Reserved
80	(50)	DBL WORD	8	PADDSET(0)	Data set specifications
80	(50)	BITSTRING	15304	(255)	Max data set specifications
15384	(3C18)	DBL WORD	8	PADCIALC(0)	C/I address space allocs
15384	(3C18)	BITSTRING	0	(0)	Max C/I alloc areas
15584	(3CE0)	DBL WORD	8	(0)	Ensure alignment
15584	(3CE0)	X'3CE0'	0	PADLEN	"*-PAD" Maximum PAD length

Table 371. Structure PADE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PADE	, PAD data set entry
0	(0)	CHARACTER	44	PADEDSN	Data set name
44	(2C)	CHARACTER	8	PADEUNIT	Data set unit
52	(34)	CHARACTER	6	PADEVOL	Data set VOLSER
58	(3A)	BITSTRING	1	PADEFLG1	Flag byte
		1...		PADE1ALF	"B'10000000'" Data set not allocated (failed)
59	(3B)	BITSTRING	1		Reserved
60	(3C)	SIGNED	4	(0)	Align
60	(3C)	X'3C'	0	PADELEN	"*-PADE" Length of data set entry

Table 372. Structure PADA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PADA	, PAD data set entry
0	(0)	ADDRESS	4	PADACICB	Owning CICB address (Zero if not in use)
4	(4)	BITSTRING	1	PADAFLG1	Flag byte (set by AS)
		1...		PADA1ALC	"B'10000000'" DD name is allocated
		.1..		PADA1ALF	"B'01000000'" Allocation has failed
5	(5)	BITSTRING	3		Reserved
8	(8)	DBL WORD	8	(0)	Align
8	(8)	X'8'	0	PADALEN	"*-PADA" Length of data set entry

Table 373. Cross Reference for $PAD

Name	Offset	Hex Tag
PAD	0	
PADA	0	

Table 373. Cross Reference for $PAD (continued)

Name	Offset	Hex Tag
PADACICB	0	
PADAFLG1	4	
PADALCDD	10	
PADALEN	8	8
PADALT	30	
PADA1ALC	4	80
PADA1ALF	4	40
PADCIALC	3C18	
PADCRTIM	18	
PADDAD	34	
PADDLTIM	20	
PADDSET	50	
PADDSNCT	40	
PADDSNLW	3C	
PADE	0	
PADEDSN	0	
PADEFLG1	3A	
PADELEN	3C	3C
PADEUNIT	2C	
PADEVOL	34	
PADE1ALF	3A	80
PADFLAG1	28	
PADID	0	D7C1C440
PADLEN	3CE0	3CE0
PADNAME	8	
PADPAD	2C	
PADSIZE	4	
PADUSE	38	
PAD1CIFA	28	4
PAD1COND	28	20
PAD1DEL	28	80
PAD1STAT	28	8
PAD1UNAP	28	10
PAD1UNC	28	40

Chapter 159. $PADDR Information

$PADDR Heading Information

Common Name:	Private Storage Routine Address Table/DSECT
Macro ID:	$PADDR
DSECT Name:	PADDR
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'PADR' Offset: PADDRID-PADDR Length: 4
Storage Attributes:	Subpool: The subpool of the HASJES20 load module Key: 1 Residency: Virtual and real storage are below 16M, in the private storage of the JES2 address space.
Size:	See PADDRLEN
Created by:	The $PADDR is created by assembly of the HASPNUC module in the HASJES20 load module.
Pointed to by:	$PADDR field of the $HCT data area
Serialization:	Read only, except for JES2 initialization processing for PC routines
Function:	The PADDR contains the addresses of all JES2 private storage service routines to which access is required from multiple assembly modules or installation exits. This table may be used by $CALL to locate routines residing in private storage in the JES2 address space. $CALL uses this table to find either the address or PC number for the called routine. This macro has a DSECT= parameter. If DSECT=YES is used, the DSECT is generated, otherwise the table is expanded.

$PADDR mapping

Table 374. Structure PADDR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PADDR	JES2 private storage routine address table DSECT
0	(0)	CHARACTER	4	PADDRID	PADDR TABLE EYECATCHER
4	(4)	ADDRESS	1	PADDRV	VERSION NUMBER
4	(4)	X'6'	0	PADDRVN	"6" VERSION NUMBER
5	(5)	BITSTRING	3		RESERVED FOR FUTURE USE
Module HASCOFST entries, listed alphabetically (for the copy of HASCOFST that is within HASJES20)					
8	(8)	ADDRESS	4	PADDR@OCOOFFST	"V(OCOOFFST)" Offset table for O C O code (data only, not $CALLable) O C O code cannot use this PADDR field, as the PADDR is not frozen.

Table 374. Structure PADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Entry addresses for $EXTP services (R14 is used for service options,)			
12	(C)	ADDRESS	4	P@HASPBSCA	"V(HASPBSCA)" Entry to BSC $EXTP routines
16	(10)	ADDRESS	4	P@HASPROUT	"V(HASPROUT)" Entry to NJE job route srv.
20	(14)	ADDRESS	4	P@HASPSNAA	"V(HASPSNAA)" Entry to SNA $EXTP routines
24	(18)	ADDRESS	4	P@HASPTCPA	"V(HASPTCPA)" Entry to TCP $EXTP routines
28	(1C)	ADDRESS	4	P@HASPXFRA	"V(HASPXFRA)" Entry to XFR $EXTP routines
		Entry addresses for Line manager scan routines			
32	(20)	ADDRESS	4	P@HASPBPRO	"V(HASPBPRO)" BSC Buffer channel end
36	(24)	ADDRESS	4	P@HASPBACT	"V(HASPBACT)" BSC Active line scan
40	(28)	ADDRESS	4	P@HASPBUNT	"V(HASPBUNT)" BSC Inactive line scan
44	(2C)	ADDRESS	4	P@HASPBSLN	"V(HASPBSLN)" BSC Secondary started line scan for SWEL processing
48	(30)	ADDRESS	4	P@HASPSPRO	"V(HASPSPRO)" SNA RPL Completion
52	(34)	ADDRESS	4	P@HASPSLOG	"V(HASPSLOG)" SNA Active logon scan
56	(38)	ADDRESS	4	P@HASPSLNE	"V(HASPSLNE)" SNA Active line scan
60	(3C)	ADDRESS	4	P@HASPSIDL	"V(HASPSIDL)" SNA Idle line scan
64	(40)	ADDRESS	4	P@HASPSUNT	"V(HASPSUNT)" SNA Inactive line scan
68	(44)	ADDRESS	4	P@HASPSACB	"V(HASPSACB)" SNA ACB completion scan
72	(48)	ADDRESS	4	P@HASPSICE	"V(HASPSICE)" SNA ICE scan
76	(4C)	ADDRESS	4	P@HASPSRAT	"V(HASPSRAT)" SNA RAT Autologon scan
80	(50)	ADDRESS	4	P@HASPSSAL	"V(HASPSSAL)" Sna Secondary started line scan for SWEL processing
84	(54)	ADDRESS	4	P@HASPTPRO	"V(HASPTPRO)" TCP/IP buffers queued to main task
88	(58)	ADDRESS	4	P@HASPTACT	"V(HASPTACT)" TCP/IP Active line scan
92	(5C)	ADDRESS	4	P@HASPTIDL	"V(HASPTIDL)" TCP/IP Idle line scan
96	(60)	ADDRESS	4	P@HASPTUNT	"V(HASPTUNT)" TCP/IP Inactive unit scan
100	(64)	ADDRESS	4	P@HASPTASV	"V(HASPTASV)" TCP/IP Active server scan
104	(68)	ADDRESS	4	P@HASPTSSV	"V(HASPTSSV)" TCP/IP Starting server scan
108	(6C)	ADDRESS	4		Reserved
112	(70)	ADDRESS	4		Reserved

Table 374. Structure PADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
116	(74)	ADDRESS	4		Reserved
120	(78)	ADDRESS	4		Reserved
124	(7C)	ADDRESS	4	P@MLMVFY	"V(MLMVFY)" MLLM Verification code
		Module HASPARMO routines listed alphabetically			
128	(80)	ADDRESS	4	P@ARODREG	"V(ARODREG)" Deregister job
132	(84)	ADDRESS	4	P@AROQRYA	"V(AROQRYA)" Query registration
		Module HASPBSC routines listed alphabetically			
136	(88)	ADDRESS	4	P@MPURIO	"V(MPURIO)" PURGE I/O on line
		Module HASPCDYN routines listed alphabetically			
140	(8C)	ADDRESS	4	P@$CDCTDYN	"V($CDCTDYN)" Common DCT CREATE/SYNCH
144	(90)	ADDRESS	4	P@$CNITNOT	"V($CNITNOT)" Common NIT broadcast
		Module HASPCFAL routines listed alphabetically			
148	(94)	ADDRESS	4	P@CFALOC	"V(CFALOC)" CF Allocate a structure
		Module HASPCFBF routines listed alphabetically			
152	(98)	ADDRESS	4	P@CFBLDLST	"V(CFBLDLST)" CF Build list for writing
		Module HASPCFDE routines listed alphabetically			
156	(9C)	ADDRESS	4	P@CFDELETE	"V(CFDELETE)" CF Delete all elements
		Module HASPCFE routines listed alphabetically			
160	(A0)	ADDRESS	4	P@CFCOMP	"V(CFCOMP)" CF Complete Exit
164	(A4)	ADDRESS	4	P@CFEVENT	"V(CFEVENT)" CF Event Exit
168	(A8)	ADDRESS	4	P@CFNOTIFY	"V(CFNOTIFY)" CF Notify Exit
		Module HASPCFFC routines listed alphabetically			
172	(AC)	ADDRESS	4	P@CFFCOMP	"V(CFFCOMP)" CF Force completion
		Module HASPCFLE routines listed alphabetically			
176	(B0)	ADDRESS	4	P@CFRDLEC	"V(CFRDLEC)" CF Read the LECs
		Module HASPCFMT routines listed alphabetically			
180	(B4)	ADDRESS	4	P@CFFORMAT	"V(CFFORMAT)" CF Format
		Module HASPCFQL routines listed alphabetically			
184	(B8)	ADDRESS	4	P@CFQLOCK	"V(CFQLOCK)" CF Query Lock holder
		Module HASPCFQU routines listed alphabetically			
188	(BC)	ADDRESS	4	P@CFQUERY	"V(CFQUERY)" CF Query connections to str
		Module HASPCFRD routines listed alphabetically			
192	(C0)	ADDRESS	4	P@CFRDATA	"V(CFRDATA)" CF Read data

Table 374. Structure PADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
196	(C4)	ADDRESS	4	P@CFRDONE	"V(CFRDONE)" Read one track 1 record
		Module HASPCFRE routines listed alphabetically			
200	(C8)	ADDRESS	4	P@CFREL	"V(CFREL)" CF Release structure lock
204	(CC)	ADDRESS	4	P@$CFTRACE	"V($CFTRACE)" CF Trace routine
		Module HASPCFRL routines listed alphabetically			
208	(D0)	ADDRESS	4	P@CFRDLIST	"V(CFRDLIST)" CF Read a list of elements
		Module HASPCFRS routines listed alphabetically			
212	(D4)	ADDRESS	4	P@CFRESV	"V(CFRESV)" CF Obtain structure lock
		Module HASPCFR2 routines listed alphabetically			
216	(D8)	ADDRESS	4	P@CFREAD2	"V(CFREAD2)" CF Read2
220	(DC)	ADDRESS	4	P@CFPURGE	"V(CFPURGE)" CF Purge processing
		Module HASPCFSI routines listed alphabetically			
224	(E0)	ADDRESS	4	P@CFSTRTIO	"V(CFSTRTIO)" CF Start I/O
		Module HASPCFT1 routines listed alphabetically			
228	(E4)	ADDRESS	4	P@CFTRK1IO	"V(CFTRK1IO)" CF Track1 I/O
		Module HASPCFUN routines listed alphabetically			
232	(E8)	ADDRESS	4	P@CFUNAL	"V(CFUNAL)" CF Unallocate a structure
		Module HASPCFWP routines listed alphabetically			
236	(EC)	ADDRESS	4	P@CFWRINPL	"V(CFWRINPL)" CF Write in place
		Module HASPCFWR routines listed alphabetically			
240	(F0)	ADDRESS	4	P@CFWRITE	"V(CFWRITE)" CF Write
		Module HASPCKDA routines listed alphabetically			
244	(F4)	ADDRESS	4	P@KBLDCKB	"V(KBLDCKB)" Build/rebuild CKPT CKB area
		MODULE HASPCKDS ROUTINES LISTED ALPHABETICALLY			
248	(F8)	ADDRESS	4	P@CKPTALOC	"V(CKPTALOC)" CHECKPOINT DYNAMIC ALLOCATE RTN
252	(FC)	ADDRESS	4	P@CKPTUNAL	"V(CKPTUNAL)" CHECKPOINT DATASET UNALLOCATE
256	(100)	ADDRESS	4	P@CKPTVSIZ	"V(CKPTVSIZ)" Verify new ckpt size
260	(104)	ADDRESS	4	P@CKPTXPND	"V(CKPTXPND)" Expand size of the CKPT
264	(108)	ADDRESS	4	P@KDIALOG	"V(KDIALOG)" CKPT RECOVERY DIALOG SERVICE
268	(10C)	ADDRESS	4	P@KRELEASE	"V(KRELEASE)" DEQ (RELEASE) A CKPT DS
272	(110)	ADDRESS	4	P@KRESERVE	"V(KRESERVE)" RESERVE A CKPT DATA SET

Table 374. Structure PADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
276	(114)	ADDRESS	4		Reserved
	MODULE HASPCKPT ROUTINES LISTED ALPHABETICALLY				
280	(118)	ADDRESS	4	P@$BERTFIX	"V($BERTFIX)" BERT error detect/correct
284	(11C)	ADDRESS	4	P@$CKPTQUE	"V($CKPTQUE)" Queue work to CKPT
288	(120)	ADDRESS	4	P@$DOGBERT	"V($DOGBERT)" BERT processing routine
292	(124)	ADDRESS	4	P@$CKTSRV	"V($CKTSRV)" CKPT tuning service
296	(128)	ADDRESS	4	P@BERTFMT	"V(BERTFMT)" Format the BERT CTENT
300	(12C)	ADDRESS	4	P@BERTMAP	"V(BERTMAP)" Process/Build BERT map
304	(130)	ADDRESS	4	P@KBUPDJQE	"V(KBUPDJQE)" Update JQE fields for BLOB
308	(134)	ADDRESS	4	P@KBUPDSUB	"V(KBUPDSUB)" Update JQETGNBR JQE routine
312	(138)	ADDRESS	4	P@KCPYMSTR	"V(KCPYMSTR)" Copy base info to MASTER or MASTERI
316	(13C)	ADDRESS	4	P@KFORMAT	"V(KFORMAT)" REFORMAT A CHECKPOINT DATASET
320	(140)	ADDRESS	4	P@KGETCHLG	"V(KGETCHLG)" Adjust change log size
324	(144)	ADDRESS	4	P@KPROTECT	"V(KPROTECT)" Page (un)protect the CKPT
328	(148)	ADDRESS	4	P@KREAD2	"V(KREAD2)" PERFORM READ2 OF CKPT DATA SET
332	(14C)	ADDRESS	4	P@KSETMSTR	"V(KSETMSTR)" Set master record pointers
336	(150)	ADDRESS	4	P@KTRK1IO	"V(KTRK1IO)" PERFORM I/O TO TRK1 OF CKPT DS
340	(154)	ADDRESS	4	P@QWLMSVDF	"V(QWLMSVDF)" Get WLM service definition
	Module HASPCKRR routines listed alphabetically				
344	(158)	ADDRESS	4	P@CKRRDONE	"V(CKRRDONE)" Complete MAS CKPT reconfig
348	(15C)	ADDRESS	4	P@CKRRINIT	"V(CKRRINIT)" Initialize and create $CKM
352	(160)	ADDRESS	4	P@CKRRMASK	"V(CKRRMASK)" Build affinity mask to dump
356	(164)	ADDRESS	4	P@CKRRSTRT	"V(CKRRSTRT)" Start-up MAS CKPT reconfig
360	(168)	ADDRESS	4	P@CKRRSYNC	"V(CKRRSYNC)" Synchronize MAS reconfig
364	(16C)	ADDRESS	4		Reserved for HASPCKRR use
368	(170)	ADDRESS	4		Reserved for HASPCKRR use
372	(174)	ADDRESS	4		Reserved for HASPCKRR use
376	(178)	ADDRESS	4		Reserved for HASPCKRR use
	MODULE HASPCKVR ROUTINES LISTED ALPHABETICALLY				
380	(17C)	ADDRESS	4	P@SHRLIVE	"V(SHRLIVE)" SHARE THE NEW LIVE CHECKPOINT

Table 374. Structure PADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
384	(180)	ADDRESS	4	P@UNSHRLIV	"V(UNSHRLIV)" UNSHARE THE LIVE CHECKPOINT
388	(184)	ADDRESS	4		Reserved
	Module HASPCNVT routines listed alphabetically				
392	(188)	ADDRESS	4	P@PROCALOC	"V(PROCALOC)" Allocate PROCLIB data sets
	MODULE HASPCOMM ROUTINES LISTED ALPHABETICALLY				
396	(18C)	ADDRESS	4	P@$JCAN	"V($JCAN)" Job cancel routine
400	(190)	ADDRESS	4	P@CFPARSE	"V(CFPARSE)" Move and parse command
404	(194)	ADDRESS	4	P@CJFLCMB	"V(CJFLCMB)" MVS cancel command in CMB
408	(198)	ADDRESS	4	P@COFCVE	"V(COFCVE)" ADDR CONVERT TO EBCDIC HALFWORD ROUTINE
412	(19C)	ADDRESS	4	P@COFEDTR	"V(COFEDTR)" ADDR CONVERT TO EBCDIC FULLWORD ROUTINE
416	(1A0)	ADDRESS	4	P@COFJMSG	"V(COFJMSG)" ADDR JOB INFORMATION MESSAGE ROUTINE
420	(1A4)	ADDRESS	4	P@COFRTC	"V(COFRTC)" ADDR CONVERT TO EBCDIC ROUTE CODE ROUTINE
424	(1A8)	ADDRESS	4	P@COMBEWTO	"V(COMBEWTO)" Branch Entry WTO targeted to executing job
428	(1AC)	ADDRESS	4	P@COMFRELK	"V(COMFRELK)" Free command lock
432	(1B0)	ADDRESS	4	P@CSCANDSP	"V(CSCANDSP)" HASPCOMM $SCAN DISPLAY ROUTINE, USABLE BY $SCANS FROM EXIT 5
436	(1B4)	ADDRESS	4	P@CSMICMD	"V(CSMICMD)" HASPCOMM Single member image routine
440	(1B8)	ADDRESS	4	P@CWTO	"V(CWTO)" ADDR WRITE TO OPERATOR RTN
444	(1BC)	ADDRESS	4	P@CWTOT	"V(CWTOT)" ADDR WRITE TO OPERATOR ROUTINE (TRUNC)
448	(1C0)	ADDRESS	4	P@DILJCAN	"V(DILJCAN)" DILBERT'ed call to $JCAN
452	(1C4)	ADDRESS	4	P@H607RSN	"V(H607RSN)" HASP607 reasons subroutine
	Module HASPCON routines listed alphabetically				
456	(1C8)	ADDRESS	4	P@$DOM	"V($DOM)" HASP DOM routine
460	(1CC)	ADDRESS	4	P@$FRECMB	"V($FRECMB)" Free CMB routine
464	(1D0)	ADDRESS	4	P@$GETCMBR	"V($GETCMBR)" Get CMB routine
468	(1D4)	ADDRESS	4	P@$WTO	"V($WTO)" $WTO routine
472	(1D8)	ADDRESS	4	P@$WTOC	"V($WTOC)" $WTO with CMB routine
476	(1DC)	ADDRESS	4	P@HASPWQUE	"V(HASPWQUE)" Addr of CMB queuing routine for callers that cannot $WAIT
480	(1E0)	ADDRESS	4	P@HASPWQUW	"V(HASPWQUW)" Addr of CMB queuing routine for callers that can tolerate a $WAIT
	Module HASPCSV routines, listed alphabetically				
484	(1E4)	ADDRESS	4	P@$MODCHK	"V($MODCHK)" Check/resolve-from modules

Table 374. Structure PADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
488	(1E8)	ADDRESS	4	P@$MODELET	"V($MODELET)" Delete a load module
492	(1EC)	ADDRESS	4	P@$MODLOAD	"V($MODLOAD)" Load a load module
496	(1F0)	ADDRESS	4	P@CSV$DEL	"V(CSV$DEL)" Invoke $$$$DEL routine
500	(1F4)	ADDRESS	4	P@CSV$LOAD	"V(CSV$LOAD)" Invoke $$$$LOAD routine
504	(1F8)	ADDRESS	4	P@LOCENTRY	"V(LOCENTRY)" Entry point locate routine
508	(1FC)	ADDRESS	4	P@LOCLMOD	"V(LOCLMOD)" Locate load module by addr
512	(200)	ADDRESS	4	P@LOCMODMP	"V(LOCMODMP)" Locate MODMAP entry by addr
		MODULE HASPDYN ROUTINES LISTED ALPHABETICALLY - BASIC CONTROL BLOCK ADDITION/DELETION SERVICES			
516	(204)	ADDRESS	4	P@$DCBDYN	"V($DCBDYN)" DYNAMIC DCB ATTACH/DETACH SERVICE ROUTINE ADDRESS
520	(208)	ADDRESS	4	P@$DCTDYN	"V($DCTDYN)" DYNAMIC DCT ATTACH/DETACH SERVICE ROUTINE ADDRESS
524	(20C)	ADDRESS	4	P@$DESTDYN	"V($DESTDYN)" DEST (RDT) DYNAMIC BUILD RTN
528	(210)	ADDRESS	4	P@$DTEDYNA	"V($DTEDYNA)" $DTEDYN ATTACH ROUTINE ADDRESS
532	(214)	ADDRESS	4	P@$DTEDYND	"V($DTEDYND)" $DTEDYN DETACH ROUTINE ADDRESS
536	(218)	ADDRESS	4	P@$PCEDYDC	"V($PCEDYDC)" DYNAMIC PCE ATTACH/DETACH SERVICE FOR A DCT CHAIN
540	(21C)	ADDRESS	4	P@$PCEDYN	"V($PCEDYN)" DYNAMIC PCE ATTACH/DETACH SERVICE ROUTINE ADDRESS
544	(220)	ADDRESS	4	P@PRTDFLT	"V(PRTDFLT)" Printer DCT default routine
		MODULE HASPEVTL ROUTINES LISTED ALPHABETICALLY			
548	(224)	ADDRESS	4	P@$ROLL	"V($ROLL)" Entry to create trace entry
552	(228)	ADDRESS	4	P@TRCDUMP	"V(TRCDUMP)" Entry to TRCDUMP routine
556	(22C)	ADDRESS	4	P@TRCPUT	"V(TRCPUT)" Entry to TRCPUT routine
560	(230)	ADDRESS	4	P@TRGETTB	"V(TRGETTB)" OBTAIN MORE ECSA TRACE TABLES
		MODULE HASPEXT ROUTINES LISTED ALPHABETICALLY			
564	(234)	ADDRESS	4	P@DSNVERFY	"V(DSNVERFY)" Verify data set name
568	(238)	ADDRESS	4	P@HASPEXDS	"V(HASPEXDS)" Extend dataset
		MODULE HASPFSSP ROUTINES LISTED ALPHABETICALLY			

Table 374. Structure PADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
572	(23C)	ADDRESS	4	P@DYNFSS	"V(DYNFSS)" DYNAMIC FSSCB FIND/ATTACH INTERNAL SERVICE ROUTINE (HASPFSSP)
	Entries to HASP Output Process Executive (HASPHOPE)				
576	(240)	ADDRESS	4	P@OPGROUP	"V(OPGROUP)" Grouping routine
580	(244)	ADDRESS	4	P@OPMAILMG	"V(OPMAILMG)" Notify Routine
584	(248)	ADDRESS	4	P@OPNULLCK	"V(OPNULLCK)" Null Data Set check
	ENTRIES TO HASP JOB OUTPUT SERVICES (HASPJOS)				
588	(24C)	ADDRESS	4	P@$#ADD	"V($#ADD)" Entry to JOE add routine
592	(250)	ADDRESS	4	P@$#ALCHK	"V($#ALCHK)" Entry to CHK SPOOL Alloc.
596	(254)	ADDRESS	4	P@$#BLD	"V($#BLD)" Entry to JOE build routine
600	(258)	ADDRESS	4	P@$#BUSY	"V($#BUSY)" Entry to busy bit set rtne
604	(25C)	ADDRESS	4	P@$#CAN	"V($#CAN)" Entry to JOE cancel routine
608	(260)	ADDRESS	4	P@$#CHK	"V($#CHK)" Entry to CHK I/O routine
612	(264)	ADDRESS	4	P@$#DISPRO	"V($#DISPRO)" Entry to update disposition
616	(268)	ADDRESS	4	P@$#FORMAT	"V($#FORMAT)" Entry to format JOT
620	(26C)	ADDRESS	4	P@$#GET	"V($#GET)" Entry to JOE get routine
624	(270)	ADDRESS	4	P@$#GTNEWS	"V($#GTNEWS)" Entry to GET JESNEWS CB
628	(274)	ADDRESS	4	P@$#JOTBLD	"V($#JOTBLD)" Entry to format the JOT
632	(278)	ADDRESS	4	P@$#JOTCHK	"V($#JOTCHK)" Entry to verify/correct JOT
636	(27C)	ADDRESS	4	P@$#JWEL	"V($#JWEL)" Entry to JWEL services
640	(280)	ADDRESS	4	P@$#MOD	"V($#MOD)" Entry to JOE modify routine
644	(284)	ADDRESS	4	P@$#NEWS	"V($#NEWS)" Entry to create JESNEWS DS
648	(288)	ADDRESS	4	P@$#POST	"V($#POST)" Entry to specific post rtne
652	(28C)	ADDRESS	4	P@$#PUT	"V($#PUT)" Entry to JOE put routine
656	(290)	ADDRESS	4	P@$#RBDCHK	"V($#RBDCHK)" Entry to JQE rebuild/free check routine
660	(294)	ADDRESS	4	P@$#REM	"V($#REM)" Entry to JOE remove routine
664	(298)	ADDRESS	4	P@$#REP	"V($#REP)" Entry to JOE replace rtn
668	(29C)	ADDRESS	4	P@$#RLNEWS	"V($#RLNEWS)" Entry to return JESNEWS CB
672	(2A0)	ADDRESS	4	P@$#TJEV	"V($#TJEV)" SAPI thread hold

Table 374. Structure PADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
676	(2A4)	ADDRESS	4	P@$#ZAPJOE	"V($#ZAPJOE)" Entry to ZAPJOB JOE rtn
680	(2A8)	ADDRESS	4	P@$DOGJOE	"V($DOGJOE)" Entry to DOGJOE service
684	(2AC)	ADDRESS	4	P@ADDTOINX	"V(ADDTOINX)" Add work JOE to PRM/ALT ind
688	(2B0)	ADDRESS	4	P@GTSCREEN	"V(GTSCREEN)" Entry to JOE screen subrtne
692	(2B4)	ADDRESS	4	P@GTSPOOL	"V(GTSPOOL)" Entry to chk spools avail
696	(2B8)	ADDRESS	4	P@JOECLUP	"V(JOECLUP)" JOE cleanup
700	(2BC)	ADDRESS	4	P@JOEPPSCR	"V(JOEPPSCR)" JOE post-screen subroutine
704	(2C0)	ADDRESS	4	P@JOEPSCRN	"V(JOEPSCRN)" JOE pre-screen subroutine
708	(2C4)	ADDRESS	4	P@JOESYNC	"V(JOESYNC)" JOE & JWEL time syncyronize
712	(2C8)	ADDRESS	4	P@JOTFRECL	"V(JOTFRECL)" Clean up free JOEs
716	(2CC)	ADDRESS	4	P@JOTVERIF	"V(JOTVERIF)" Entry to JOT verify rtns
720	(2D0)	ADDRESS	4	P@MNENF58	"V(MNENF58)" Entry to Main tsk ENF58 rtn
724	(2D4)	ADDRESS	4	P@RTNINDEX	"V(RTNINDEX)" Free index and free JOEs
728	(2D8)	ADDRESS	4	P@SAPIPOST	"V(SAPIPOST)" Entry to SAPIPOST
732	(2DC)	ADDRESS	4	P@XCLDVPST	"V(XCLDVPST)" Post WSP for local devices
Entries to HASP Job Queue Services (HASPJQS)					
736	(2E0)	ADDRESS	4	P@$CLASSIF	"V($CLASSIF)" Entry to WLM Classification
740	(2E4)	ADDRESS	4	P@$CONAFFI	"V($CONAFFI)" Apply concurr-set affin chg
744	(2E8)	ADDRESS	4	P@$DILBERT	"V($DILBERT)" Entry to $DILBERT service
748	(2EC)	ADDRESS	4	P@$DOGDJB	"V($DOGDJB)" Entry to DJB processing
752	(2F0)	ADDRESS	4	P@$DOGJQE	"V($DOGJQE)" Entry to artificial JQE srv
756	(2F4)	ADDRESS	4	P@$FREJLOK	"V($FREJLOK)" Free job lock
760	(2F8)	ADDRESS	4	P@$GETJLOK	"V($GETJLOK)" Get job lock
764	(2FC)	ADDRESS	4	P@$JQEMERG	"V($JQEMERG)" Merge JQA into JQE/JQX
768	(300)	ADDRESS	4	P@$QADD	"V($QADD)" Entry to JQE add routine
772	(304)	ADDRESS	4	P@$QBUSY	"V($QBUSY)" Entry to busy bit set rtne
776	(308)	ADDRESS	4	P@$QEXTVER	"V($QEXTVER)" Entry to verify JQE ext.
780	(30C)	ADDRESS	4	P@$QEXTFMT	"V($QEXTFMT)" Entry to format JQE ext.
784	(310)	ADDRESS	4	P@$QFORMAT	"V($QFORMAT)" Entry to format JQEs

Table 374. Structure PADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
788	(314)	ADDRESS	4	P@$QGET	"V($QGET)" Entry to JQE get routine
792	(318)	ADDRESS	4	P@$QJIX	"V($QJIX)" Entry to JQE JIX routine
796	(31C)	ADDRESS	4	P@$QLOC	"V($QLOC)" Entry to JQE locate routine
800	(320)	ADDRESS	4	P@$QLOCNXT	"V($QLOCNXT)" Locate next JQE in JIX
804	(324)	ADDRESS	4	P@$QMOD	"V($QMOD)" Entry to JQE modify routine
808	(328)	ADDRESS	4	P@$QPUT	"V($QPUT)" Entry to JQE put routine
812	(32C)	ADDRESS	4	P@$QRBDCHK	"V($QRBDCHK)" Entry to JQE rebuild/free check routine
816	(330)	ADDRESS	4	P@$QREBLD	"V($QREBLD)" Entry to job queue rebuild routine
820	(334)	ADDRESS	4	P@$QREM	"V($QREM)" Entry to JQE remove routine
824	(338)	ADDRESS	4	P@$QVERIF	"V($QVERIF)" Entry to job queue verify routine
828	(33C)	ADDRESS	4	P@$RBLDLOG	"V($RBLDLOG)" Entry to rebuild SYSLOG JQE chain routine
832	(340)	ADDRESS	4	P@$SCHEMSK	"V($SCHEMSK)" Entry to SCHENV processing
836	(344)	ADDRESS	4	P@$ZJCINIT	"V($ZJCINIT)" Entry to init the Job Dependency control blocks
840	(348)	ADDRESS	4	P@CATDUP	"V(CATDUP)" CAT & DUPJOB reconciliation
844	(34C)	ADDRESS	4	P@CATHMAX	"V(CATHMAX)" Entry to CATHMAX processing
848	(350)	ADDRESS	4	P@CKVREFRS	"V(CKVREFRS)" Refresh checkpoint version
852	(354)	ADDRESS	4	P@CLOCCHKR	"V(CLOCCHKR)" TIMECLOC Checker
856	(358)	ADDRESS	4	P@DUPJOB	"V(DUPJOB)" Entry to Dup job processing
860	(35C)	ADDRESS	4	P@JNRNGCNT	"V(JNRNGCNT)" Job number range counting
864	(360)	ADDRESS	4	P@JOBQSAMP	"V(JOBQSAMP)" Job queue sampling for WLM
868	(364)	ADDRESS	4	P@JQECAT	"V(JQECAT)" JQE/CAT time reconciliation
872	(368)	ADDRESS	4	P@JQAJOBGR	"V(JQAJOBGR)" Checkpoint JOBGROUP
876	(36C)	ADDRESS	4	P@MNENF70	"V(MNENF70)" Issue job-level ENF
880	(370)	ADDRESS	4	P@MNENF78	"V(MNENF78)" Issue job notification ENF
884	(374)	ADDRESS	4	P@MODJCHG	"V(MODJCHG)" Change job MODJOB request
888	(378)	ADDRESS	4	P@MODJRLS	"V(MODJRLS)" Release job MODJOB request
892	(37C)	ADDRESS	4	P@MODJSPN	"V(MODJSPN)" SPIN job ds MODJOB request
896	(380)	ADDRESS	4	P@MODJXMBR	"V(MODJXMBR)" Cross member MODJOB request

Table 374. Structure PADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
900	(384)	ADDRESS	4	P@QBERTHRE	"V(QBERTHRE)" Determine BERT availability
904	(388)	ADDRESS	4	P@QDECHAIN	"V(QDECHAIN)" Entry to JQE dechain rtne
908	(38C)	ADDRESS	4	P@QJQEVER	"V(QJQEVER)" Entry to JQE address verify routine
912	(390)	ADDRESS	4	P@WLMDEQ	"V(WLMDEQ)" Entry to Dequeue JQE from WLM queue
916	(394)	ADDRESS	4	P@WLMENQ	"V(WLMENQ)" Entry to Enqueue JQE onto WLM queue
920	(398)	ADDRESS	4	P@ZAPJOB	"V(ZAPJOB)" ZAP Job service
	MODULE HASPMISC ROUTINES LISTED ALPHABETICALLY				
924	(39C)	ADDRESS	4	P@$CLASSI4	"V($CLASSI4)" Entry to $CLASSI4 routine
928	(3A0)	ADDRESS	4	P@ENFPOLCY	"V(ENFPOLCY)" Entry to ENF Policy Activation Support
	MODULE HASPNATS ROUTINES LISTED ALPHABETICALLY				
932	(3A4)	ADDRESS	4	P#$NATADD	Nodes Attached Table ADD
936	(3A8)	ADDRESS	4	P@$NATADD	"V($NATADD)" service routine (HASPNATS)
940	(3AC)	ADDRESS	4	P@NADRECV	"V(NADRECV)" $NATADD recovery routine
944	(3B0)	ADDRESS	4	P#$NATGET	Nodes Attached Table GET
948	(3B4)	ADDRESS	4	P@$NATGET	"V($NATGET)" service routine (HASPNATS)
952	(3B8)	ADDRESS	4	P@NGTRECV	"V(NGTRECV)" $NATGET recovery routine
956	(3BC)	ADDRESS	4	P#$NATMOD	Nodes Attached Table MODify
960	(3C0)	ADDRESS	4	P@$NATMOD	"V($NATMOD)" service routine (HASPNATS)
964	(3C4)	ADDRESS	4	P@NMDRECV	"V(NMDRECV)" $NATMOD recovery routine
968	(3C8)	ADDRESS	4	P#$NATNOT	Nodes Attached Table NOTify
972	(3CC)	ADDRESS	4	P@$NATNOT	"V($NATNOT)" service routine (HASPNATS)
976	(3D0)	ADDRESS	4	P@NNTRECV	"V(NNTRECV)" $NATNOT recovery routine
980	(3D4)	ADDRESS	4	P#$NATREM	Nodes Attached Table REMove
984	(3D8)	ADDRESS	4	P@$NATREM	"V($NATREM)" service routine (HASPNATS)
988	(3DC)	ADDRESS	4	P@NRMRECV	"V(NRMRECV)" $NATREM recovery routine
992	(3E0)	ADDRESS	4	P@$NATREQ	"V($NATREQ)" Requeue NAT to appropriate queue
996	(3E4)	ADDRESS	4	P@NPMVFY	"V(NPMVFY)" Network path manager control block verification service
1000	(3E8)	ADDRESS	4	P@NPVDCTV	"V(NPVDCTV)" Verify DCT storage is OK
1004	(3EC)	ADDRESS	4		RESERVED FOR FUTURE USE
	MODULE HASPNET ROUTINES LISTED ALPHABETICALLY				

Table 374. Structure PADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1008	(3F0)	ADDRESS	4	P@$FRENHB	"V($FRENHB)" Free a header cell
1012	(3F4)	ADDRESS	4	P@$GETNHB	"V($GETNHB)" Get a header cell
1016	(3F8)	ADDRESS	4	P@$NITSYNC	"V($NITSYNC)" NIT/CKPT serialization
1020	(3FC)	ADDRESS	4	P@NJDCTINT	"V(NJDCTINT)" LINE DCT INITIALIZATION
1024	(400)	ADDRESS	4	P@NJECHECK	"V(NJECHECK)" Check I/O completion
1028	(404)	ADDRESS	4	P@NJEHDRCV	"V(NJEHDRCV)" Receive NJE header
1032	(408)	ADDRESS	4	P@NJEHDRD	"V(NJEHDRD)" Read NJE header from spool
1036	(40C)	ADDRESS	4	P@NJEHDWR	"V(NJEHDWR)" Write NJE header to spool
1040	(410)	ADDRESS	4	P@NJEHDXMT	"V(NJEHDXMT)" Transmit NJE header
1044	(414)	ADDRESS	4	P@NJEPUT	"V(NJEPUT)" Write NJE record
1048	(418)	ADDRESS	4	P@NJERDACT	"V(NJERDACT)" Clean up receiver jobs
1052	(41C)	ADDRESS	4	P@NJHBUILD	"V(NJHBUILD)" Build job header
1056	(420)	ADDRESS	4	P@NJTBUILD	"V(NJTBUILD)" Build job trailer
1060	(424)	ADDRESS	4	P@NSETESS	"V(NSETESS)" Set ESS section of SMF 24/57 record
1064	(428)	ADDRESS	4	P@NSJFSPSP	"V(NSJFSPSP)" SWBTU split/splice services
1068	(42C)	ADDRESS	4	P@NSMFBSIZ	"V(NSMFBSIZ)" Calculate SMF buffer size
	MODULE HASPNPM ROUTINES LISTED ALPHABETICALLY				
1072	(430)	ADDRESS	4	P@HASPNSNR	"V(HASPNSNR)" Initiate NJE signon
1076	(434)	ADDRESS	4	P@NCOMMREQ	"V(NCOMMREQ)" Set up NAT from NTQs
1080	(438)	ADDRESS	4	P@NMAPINIT	"V(NMAPINIT)" Initialize Notify Maps
1084	(43C)	ADDRESS	4	P@NPMHOT	"V(NPMHOT)" NPM hot start rechaining
1088	(440)	ADDRESS	4	P@NPMQSUSE	"V(NPMQSUSE)" NPM request $QSUSE
1092	(444)	ADDRESS	4	P@NSETSUBS	"V(NSETSUBS)" Set SUBNET chaining fields in the NIT
1096	(448)	ADDRESS	4		Reserved for future use
1100	(44C)	ADDRESS	4		Reserved for future use
1104	(450)	ADDRESS	4		Reserved for future use
	MODULE HASPNRM ROUTINES LISTED ALPHABETICALLY				
1108	(454)	ADDRESS	4	P@NRMAJUST	"V(NRMAJUST)" Reset NRM STIMER
	MODULE HASPNUC ROUTINES LISTED ALPHABETICALLY				
1112	(458)	ADDRESS	4	P@$BFRBLD	"V($BFRBLD)" Buffer build routine
1116	(45C)	ADDRESS	4	P@$CBIOM	"V($CBIOM)" I/O FOR JES2 CONTROL BLOCKS
1120	(460)	ADDRESS	4	P@$CHECK	"V($CHECK)" CHECK COMPLETION OF A CKPT WRT

Table 374. Structure PADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1124	(464)	ADDRESS	4	P@$CKPT	"V($CKPT)" SCHED CKPT FOR AN ALTERED ELMT
1128	(468)	ADDRESS	4	P@$DSCLOSE	"V($DSCLOSE)" Entry to $DSCLOSE routine
1132	(46C)	ADDRESS	4	P@$DSOPEN	"V($DSOPEN)" Entry to $DSOPEN routine
1136	(470)	ADDRESS	4	P@$DSPUT	"V($DSPUT)" Entry to $DSPUT routine
1140	(474)	ADDRESS	4	P@$DYN	"V($DYN)" Dynamic allocate/unallocate
1144	(478)	ADDRESS	4	P@$EXCP	"V($EXCP)" EXCP routine
1148	(47C)	ADDRESS	4	P@$EXTP	"V($EXTP)" RTAM service routines
1152	(480)	ADDRESS	4	P@$FREEBFR	"V($FREEBFR)" Free a buffer
1156	(484)	ADDRESS	4		Reserved for future use
1160	(488)	ADDRESS	4	P@$FRESMF	"V($FRESMF)" Free an SMF buffer
1164	(48C)	ADDRESS	4	P@$FREUCBS	"V($FREUCBS)" Free storage for UPL
1168	(490)	ADDRESS	4	P@$FREUNIT	"V($FREUNIT)" HASP unit 'FREE' routine
1172	(494)	ADDRESS	4	P@$GETBUFR	"V($GETBUFR)" Get a buffer
1176	(498)	ADDRESS	4		Reserved for future use
1180	(49C)	ADDRESS	4	P@$GETSAVE	"V($GETSAVE)" Get a $SAVE area
1184	(4A0)	ADDRESS	4	P@$GETSMF	"V($GETSMF)" Get SMF buffer
1188	(4A4)	ADDRESS	4	P@$GETUCBS	"V($GETUCBS)" Obtain UCB address
1192	(4A8)	ADDRESS	4	P@$GETUNIT	"V($GETUNIT)" HASP unit 'GET' routine
1196	(4AC)	ADDRESS	4	P@$GETWORK	"V($GETWORK)" Get a work area
1200	(4B0)	ADDRESS	4	P@$GFMAIN	"V($GFMAIN)" ENTRY TO GET/FREE STG RTN
1204	(4B4)	ADDRESS	4	P@$IOTCNT	"V($IOTCNT)" Entry to daughter count
1208	(4B8)	ADDRESS	4	P@$JESEFF	"V($JESEFF)" JES2 Exit effector
1212	(4BC)	ADDRESS	4	P@$PAWS	"V($PAWS)" PAWS (pause) a PCE
1216	(4C0)	ADDRESS	4	P@$PGSRVC	"V($PGSRVC)" PAGE SERVICE ROUTINE
1220	(4C4)	ADDRESS	4	P@$POST	"V($POST)" POST SPECIFIC EVENT ROUTINE
1224	(4C8)	ADDRESS	4	P@$POSTSUB	"V($POSTSUB)" Subtask post service
1228	(4CC)	ADDRESS	4	P@$QSUSE	"V($QSUSE)" Entry to $QSUSE support
1232	(4D0)	ADDRESS	4	P@$QUESMF	"V($QUESMF)" Queue SMF buffer
1236	(4D4)	ADDRESS	4	P@$RETSAVE	"V($RETSAVE)" Save area free routine
1240	(4D8)	ADDRESS	4	P@$RETURN	"V($RETURN)" Return a $SAVE area
1244	(4DC)	ADDRESS	4	P@$RETWORK	"V($RETWORK)" Return a work area
1248	(4E0)	ADDRESS	4	P@$SEAS	"V($SEAS)" ENTRY TO SECURITY AUTH RTN
1252	(4E4)	ADDRESS	4	P@$SEASMSG	"V($SEASMSG)" ISSUE THE 077 MESSAGE
1256	(4E8)	ADDRESS	4	P@$STCK	"V($STCK)" HASP store clock routine
1260	(4EC)	ADDRESS	4	P@$STCKFMT	"V($STCKFMT)" HASP store clock conversion

Table 374. Structure PADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1264	(4F0)	ADDRESS	4	P@$STIMER	"V($STIMER)" HASP set timer routine
1268	(4F4)	ADDRESS	4	P@$SUBIT	"V($SUBIT)" SUBTASK WORK QUEUING RTN
1272	(4F8)	ADDRESS	4	P@$TTIMER	"V($TTIMER)" HASP test timer routine
1276	(4FC)	ADDRESS	4	P@$WAIT	"V($WAIT)" WAIT FOR AN EVENT ROUTINE
1280	(500)	ADDRESS	4	P@$XECBKIL	"V($XECBKIL)" XECB DE-CHAINING ROUTINE
1284	(504)	ADDRESS	4	P@GETEVNTR	"V(GETEVNTR)" Get an event record CB
1288	(508)	ADDRESS	4	P@GETPTIME	"V(GETPTIME)" Get elapsed PCE perf time
1292	(50C)	ADDRESS	4	P@GETJOBKY	"V(GETJOBKY)" Obtain a jobkey
1296	(510)	ADDRESS	4	P@MOD875	"V(MOD875)" ISSUE $HASP875 MESSAGE
1300	(514)	ADDRESS	4	P@SUBDEST	"V(SUBDEST)" SUBTASK A $DESTCHK CALL
	ENTRIES TO HASP SWB MODIFY SUBTASK (HASPODSM)				
1304	(518)	ADDRESS	4	P#SWBMSUB	SWB MODIFY SUBTASK PC NUM
	Entries to HASP Process Sysout (HASPPSO)				
1308	(51C)	ADDRESS	4	P@TREGROUP	"V(TREGROUP)" Regroup PDDB
1312	(520)	ADDRESS	4	P@PSOFRELK	"V(PSOFRELK)" Free job lock and JOE busy
	MODULE HASPRAS ROUTINES LISTED ALPHABETICALLY				
1316	(524)	ADDRESS	4	P@$DISTERR	"V($DISTERR)" Disastrous error routine
1320	(528)	ADDRESS	4	P@$ESTACAN	"V($ESTACAN)" ENTRY TO $ESTAE CANCEL RTN
1324	(52C)	ADDRESS	4	P@$ESTAER	"V($ESTAER)" ENTRY TO $ESTAE ESTAB. RTN
1328	(530)	ADDRESS	4	P@$ESTAREP	"V($ESTAREP)" ENTRY TO $ESTAE REPLACE RTN
1332	(534)	ADDRESS	4	P@$IOERROR	"V($IOERROR)" I/O error logging routine
1336	(538)	ADDRESS	4	P@$SDUMP	"V($SDUMP)" SVC dump routine
	Module HASPRDR routines listed alphabetically				
1340	(53C)	ADDRESS	4	P@RDRPDCUP	"V(RDRPDCUP)" NJE/RJE reader cleanup rtn
1344	(540)	ADDRESS	4	P@RINTJOB	"V(RINTJOB)" Create Internal Job service
	MODULE HASPRTAM ROUTINES LISTED ALPHABETICALLY				
1348	(544)	ADDRESS	4	P@$REQBUF	"V(HASPRBUF)" Entry to requeue buffers and request ckpt
1352	(548)	ADDRESS	4	P@$REQBUFN	"V(HASPRBFN)" Entry to requeue bfrs without requesting ckpt
1356	(54C)	ADDRESS	4	P@LNEAVRJE	"V(LNEAVRJE)" Check if Line avail for RJE
1360	(550)	ADDRESS	4	P@MLMRCPCL	"V(MLMRCPCL)" Rebuild PCL chains

Table 374. Structure PADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1364	(554)	ADDRESS	4	P@MSAFCHK	"V(MSAFCHK)" SAF CALL FOR LM AND RCP
1368	(558)	ADDRESS	4	P@RMTDVINT	"V(RMTDVINT)" Initialize Rmt Device DCT
1372	(55C)	ADDRESS	4	P@RMTDVSET	"V(RMTDVSET)" Setup Rmt Device DCT
1376	(560)	ADDRESS	4	P@RMTLNECK	"V(RMTLNECK)" Check Rmt Line setting
1380	(564)	ADDRESS	4	P@RMTSETUP	"V(RMTSETUP)" Setup RMT Parameters
		Module HASPSASR Routines listed alphabetically			
1384	(568)	ADDRESS	4	P@SAIHOT	"V(SAIHOT)" SAPI Hot Start Processing
1388	(56C)	ADDRESS	4	P@SAIRECC	"V(SAIRECC)" Update record/page counts
		MODULE HASPSERV ROUTINES LISTED ALPHABETICALLY			
1392	(570)	ADDRESS	4	P@ADDDCTQ	"V(ADDDCTQ)" Addr Add DCT to Q routine
1396	(574)	ADDRESS	4	P@CALCBRTN	"V(CALCBRTN)" ADDR CALC BERTNUM value
1400	(578)	ADDRESS	4	P@CFJOED	"V(CFJOED)" ADDR JOE DISPLAY ROUTINE
1404	(57C)	ADDRESS	4	P@IVATE	"V(IVATE)" Addr of $ACTIVATE routine
1408	(580)	ADDRESS	4	P@RBLDCTQ	"V(RBLDCTQ)" Addr Rebuild DCT Q rtn
1412	(584)	ADDRESS	4	P@REMDCTQ	"V(REMDCTQ)" Addr Remove DCT from Q rtn
1416	(588)	ADDRESS	4	P@ROTDCTQ	"V(ROTDCTQ)" Addr Rotate DCT on Q rtn
1420	(58C)	ADDRESS	4	P@SRVCFSEL	"V(SRVCFSEL)" Addr of $CFSEL service rtn
1424	(590)	ADDRESS	4	P@SRVDCTD	"V(SRVDCTD)" ADDR DEVICE CONTROL TABLE DISPLAY ROUTINE
1428	(594)	ADDRESS	4	P@SRVFNDCR	"V(SRVFNDCR)" ADDR OF FIND CRI ROUTINE
1432	(598)	ADDRESS	4	P@SRVMOD	"V(SRVMOD)" ADDR MODIFY JOB/SYSOUT CHARS ROUTINE
1436	(59C)	ADDRESS	4	P@SRVM630	"V(SRVM630)" Addr of routine to format $HASP630 message
1440	(5A0)	ADDRESS	4	P@SRVOLOC	"V(SRVOLOC)" ADDR LOCATE DAS DATA SET DSECT ROUTINE
1444	(5A4)	ADDRESS	4	P@SRVPREFX	"V(SRVPREFX)" ADDR DEFINE PREFIX TO MCS ROUTINE
1448	(5A8)	ADDRESS	4		Reserved for future use
1452	(5AC)	ADDRESS	4	P@SRVRDIR	"V(SRVRDIR)" ADDR OF ROUTINE TO REDIRECT COMMAND RESPONSES
1456	(5B0)	ADDRESS	4	P@SRVROUT	"V(SRVROUT)" ADDR CONVERT TO BINARY ROUTE CODE ROUTINE
1460	(5B4)	ADDRESS	4	P@SRVSASCN	"V(SRVSASCN)" ADDR SYS AFFINITY SCAN RTN

Table 374. Structure PADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1464	(5B8)	ADDRESS	4	P@SRVSETUP	"V(SRVSETUP)" ADDR WORK SELECT SET UP RTN
1468	(5BC)	ADDRESS	4	P@SRVWSCAN	"V(SRVWSCAN)" ADDR WORK SELECT SCAN RTN
1472	(5C0)	ADDRESS	4	P@SUBRRT	"V(SUBRRT)" SUBTASK $REROUTE ROUTINE
1476	(5C4)	ADDRESS	4	P@VETIVATE	"V(VETIVATE)" Check $ACTIVATE viability routine
1480	(5C8)	ADDRESS	4	P@WS2	"V(WS2)" Work selection control block errors
1484	(5CC)	ADDRESS	4	P@XCSAPST	"V(XCSAPST)" Post SAPI WSP
1488	(5D0)	ADDRESS	4	P@$DLSADDH	"V($DLSADDH)" Queue HOLDUNTL entry to DLS PCE
1492	(5D4)	ADDRESS	4	P@$DOGJAX	"V($DOGJAX)" $DOGJAX service
1496	(5D8)	ADDRESS	4	P@$WSPXCFY	"V($WSPXCFY)" WSP classification WRT the JOE index
1500	(5DC)	ADDRESS	4	P@$WSPXKEY	"V($WSPXKEY)" Get next key value for WSP WRT the JOE index
1504	(5E0)	ADDRESS	4	P@$XCWCRT	"V($XCWCRT)" Create WSP cache
1508	(5E4)	ADDRESS	4	P@$XCWDLT	"V($XCWDLT)" Delete WSP cache
1512	(5E8)	ADDRESS	4	P@$XCWPOST	"V($XCWPOST)" Post all eligible WSPs
1516	(5EC)	ADDRESS	4	P@$XCWPRG	"V($XCWPRG)" Purge WSP from WSP cache
1520	(5F0)	ADDRESS	4	P@$ZGLSHUT	"V($ZGLSHUT)" Shut down jobgroup logging
1524	(5F4)	ADDRESS	4	P@$ZGLSTOP	"V($ZGLSTOP)" Stop logging a jobgroup
1528	(5F8)	ADDRESS	4	P@$ZGLSTRT	"V($ZGLSTRT)" Start logging a jobgroup
1532	(5FC)	ADDRESS	4	P@$ZGLREQT	"V($ZGLREQT)" Request jobgroup logging takeover
1536	(600)	ADDRESS	4		RESERVED FOR FUTURE USE
1540	(604)	ADDRESS	4		RESERVED FOR FUTURE USE
	MODULE HASPSIR ROUTINES LISTED ALPHABETICALLY				
1544	(608)	ADDRESS	4	P@$IOTERR	"V($IOTERR)" Spin IOT error recovery routine
1548	(60C)	ADDRESS	4	P@ISSWTO	"V(ISSWTO)" $HASP394 Output Lost message routine
	MODULE HASPSNA ROUTINES LISTED ALPHABETICALLY				
1552	(610)	ADDRESS	4	P@APPLDYN	"V(APPLDYN)" DYNAMIC APT LOOKUP/ATTACH SERVICE ROUTINE (HASPSNA)
1556	(614)	ADDRESS	4	P@SNASNET	"V(SNASNET)" START NETWORKING ($SN) COMMAND EXIT FOR SNA (HASPSNA)
	MODULE HASPSPIN ROUTINES LISTED ALPHABETICALLY				
1560	(618)	ADDRESS	4	P@SPCIOT	"V(SPCIOT)" Spin IOT in CSA (LIFO/FIFO) check routine
	MODULE HASPSPOL ROUTINES LISTED ALPHABETICALLY				
1564	(61C)	ADDRESS	4	P@$DASFMT	"V($DASFMT)" FORMAT new DASes

Table 374. Structure PADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1568	(620)	ADDRESS	4	P@$DOGMIG	"V($DOGMIG)" Entry to MIG processing
1572	(624)	ADDRESS	4	P@DADADDWQ	"V(DADADDWQ)" Add DAS to DAS work queue
1576	(628)	ADDRESS	4	P@DADAVAIL	"V(DADAVAIL)" DAS TG COUNT ROUTINE
1580	(62C)	ADDRESS	4	P@DADCKALL	"V(DADCKALL)" Check command status rtn
1584	(630)	ADDRESS	4	P@DADCKTGM	"V(DADCKTGM)" TGM CKPT ROUTINE
1588	(634)	ADDRESS	4	P@DADCOUNT	"V(DADCOUNT)" FREE TG COUNTING ROUTINE
1592	(638)	ADDRESS	4	P@DADDEB	"V(DADDEB)" DAS DEB EXT. INIT ROUTINE
1596	(63C)	ADDRESS	4	P@DADEXIST	"V(DADEXIST)" Determine if DAS exists
1600	(640)	ADDRESS	4	P@DADREMVE	"V(DADREMVE)" REMOVE DAS FROM QUEUES RTN
1604	(644)	ADDRESS	4	P@DADREMWQ	"V(DADREMWQ)" REMOVE DAS FROM WORK Q RTN
1608	(648)	ADDRESS	4	P@DADSTUNT	"V(DADSTUNT)" Deal with stunted volumes
1612	(64C)	ADDRESS	4	P@DADSPLST	"V(DADSPLST)" RESET SPL CONTROL BLOCK RTN
1616	(650)	ADDRESS	4	P@DADTGM	"V(DADTGM)" DAS TGM UPDATE ROUTINE
1620	(654)	ADDRESS	4	P@DADTGMSP	"V(DADTGMSP)" Get TGM Space, Last DAS Rtn
1624	(658)	ADDRESS	4	P@DADXTENT	"V(DADXTENT)" DAS EXTENT INIT ROUTINE
1628	(65C)	ADDRESS	4	P@MIGRRECV	"V(MIGRRECV)" Migration recovery/restart
1632	(660)	ADDRESS	4	P@RCDSYNC	"V(RCDSYNC)" Initialize RECYDAS
1636	(664)	ADDRESS	4	P@SIGIO	"V(SIGIO)" Signature I/O Routine
1640	(668)	ADDRESS	4	P@SNFQUE	"V(SNFQUE)" Sniffer BLOB Queueing Rtn
1644	(66C)	ADDRESS	4	P@SNFQBLD	"V(SNFQBLD)" Build SNFQUE rtn
1648	(670)	ADDRESS	4	P@SNFQPST	"V(SNFQPST)" Queue SNFQUE rtn
	MODULE HASPSSRV ROUTINES LISTED ALPHABETICALLY				
1652	(674)	ADDRESS	4	P@$REROUTE	"V($REROUTE)" REROUTE CMD AUTH ROUTINE
1656	(678)	ADDRESS	4	P@CALLBLDM	"V(CALLBLDM)" Call BLDMSG service
1660	(67C)	ADDRESS	4	P@EXTDCTSL	"V(EXTDCTSL)" Extract DCT SECLABEL
1664	(680)	ADDRESS	4	P@NEWSCRE	"V(NEWSCRE)" JESNEWS Dataset creation
1668	(684)	ADDRESS	4	P@PSAFSCAN	"V(PSAFSCAN)" PDDB SCAN AND SAF CALL RTN
	Module HASPSTUB routines listed alphabetically				
1672	(688)	ADDRESS	4	P@CFPOST	"V(CFPOST)" $$POST checkpoint
	Module HASPSUBS routines listed alphabetically				

Table 374. Structure PADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1676	(68C)	ADDRESS	4	P@SUBSPERF	"V(SUBSPERF)" Update subtask perf stats
	Module HASPSXIT routines listed alphabetically				
1680	(690)	ADDRESS	4	P@LPRMLIBP	"V(LPRMLIBP)" LOGICAL PARMLIB PROCESSING
1684	(694)	ADDRESS	4	P@QQSESTAT	"V(QQSESTAT)" QSE state
	Module HASPTABS routines listed alphabetically				
1688	(698)	ADDRESS	4	P@$GETABLE	"V($GETABLE)" HASPTABS - $GETABLE service
1692	(69C)	ADDRESS	4	P@$PUTABLE	"V($PUTABLE)" HASPTABS - $PUTABLE service
1696	(6A0)	ADDRESS	4	P@$RETABLE	"V($RETABLE)" HASPTABS - $RETABLE service
	Module HASPTCP routines listed alphabetically				
1700	(6A4)	ADDRESS	4	P@CNVIPAD	"V(CNVIPAD)" IP ADDRESS CONVERASION
1704	(6A8)	ADDRESS	4	P@SOCKDYN	"V(SOCKDYN)" DYNAMIC SCK LOOKUP/ATTACH
1708	(6AC)	ADDRESS	4	P@TCPSNET	"V(TCPSNET)" START TCP/IP NJE
	Module HASPTERM routines listed alphabetically				
1712	(6B0)	ADDRESS	4	P@$ABEND	"V($ABEND)" JES2 Main task recovery rtn
1716	(6B4)	ADDRESS	4	P@$HEXIT	"V($HEXIT)" Normal JES2 termination
1720	(6B8)	ADDRESS	4	P@$PCABEND	"V($PCABEND)" JES2 PC recovery routine
1724	(6BC)	ADDRESS	4	P@ABNDRATE	"V(ABNDRATE)" Determine ABEND rate
1728	(6C0)	ADDRESS	4	P@HEXTINIT	"V(HEXTINIT)" Termination for HASPINIT
1732	(6C4)	ADDRESS	4	P@WTORTIMR	"V(WTORTIMR)" Waits for a WTOR with a timer
	Module HASPTRAK routines listed alphabetically				
1736	(6C8)	ADDRESS	4	P@$BLDTGB	"V($BLDTGB)" Queue TGBs
1740	(6CC)	ADDRESS	4	P@$PURGER	"V($PURGER)" Release IOT tracks
1744	(6D0)	ADDRESS	4	P@$TGMMIG	"V($TGMMIG)" Transpose Source->target TGM bits.
1748	(6D4)	ADDRESS	4	P@$TGMSET	"V($TGMSET)" Set trackgroup map
1752	(6D8)	ADDRESS	4	P@$TRACK	"V($TRACK)" Get SPOOL space
1756	(6DC)	ADDRESS	4	P@COMLOPER	"V(COMLOPER)" L= PROCESSING
1760	(6E0)	ADDRESS	4	P@PURMASC	"V(PURMASC)" Purge single TGAE
	Module HASPWARM routines listed alphabetically				
1764	(6E4)	ADDRESS	4	P@NQPSOQ	"V(NQPSOQ)" Purge Status/Cancel and PSO queues routine
1768	(6E8)	ADDRESS	4	P@NQRELSE	"V(NQRELSE)" Release duplicate jobs
	Module HASPXCF routines listed alphabetically				

Table 374. Structure PADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1772	(6EC)	ADDRESS	4	P@MSTNTFY	"V(MSTNTFY)" Member state change notify
1776	(6F0)	ADDRESS	4	P@$MSTNTFY	"V($MSTNTFY)" Same for JES2 environment
1780	(6F4)	ADDRESS	4	P@$TQLEVEL	"V($TQLEVEL)" Test MAS levels (main task)
1784	(6F8)	ADDRESS	4	P@$TQLVLS	"V($TQLVLS)" Test MAS levels (subtask)
1788	(6FC)	ADDRESS	4	P@XCFBCAST	"V(XCFBCAST)" Broadcast an XCF message
1792	(700)	ADDRESS	4	P@XCFDHOMO	"V(XCFDHOMO)" Determine Homogeneity
1796	(704)	ADDRESS	4	P@XCFHELTH	"V(XCFHELTH)" Health checker Invocation
1800	(708)	ADDRESS	4	P@XCFJOIN	"V(XCFJOIN)" Member joins XCF group
1804	(70C)	ADDRESS	4	P@XCFLEAVE	"V(XCFLEAVE)" Member leaves XCF group
1808	(710)	ADDRESS	4	P@XCFMAPEV	"V(XCFMAPEV)" Map XCF events to QSE
1812	(714)	ADDRESS	4	P@XCFMSTAT	"V(XCFMSTAT)" Query all members status
1816	(718)	ADDRESS	4	P@XCFQSTAT	"V(XCFQSTAT)" Query a members status
1820	(71C)	ADDRESS	4	P@XCFUSTAT	"V(XCFUSTAT)" Update the user status
1824	(720)	ADDRESS	4	P@XCFXMAQU	"V(XCFXMAQU)" Update a members XMAQ
Module HASPXEQ routines listed alphabetically					
1828	(724)	ADDRESS	4	P@$ASDXCLR	"V($ASDXCLR)" ASDS entry clear
1832	(728)	ADDRESS	4	P@$ASDXUPD	"V($ASDXUPD)" ASDS entry update
1836	(72C)	ADDRESS	4	P@$CATCRNW	"V($CATCRNW)" Reset 'no selectable work' field in relevant CAT cache elements.
1840	(730)	ADDRESS	4	P@$CATCWRT	"V($CATCWRT)" Write CAT/GRPOBJ cache to BERTs.
1844	(734)	ADDRESS	4	P@$CATDEFS	"V($CATDEFS)" Set defaults in the CAT
1848	(738)	ADDRESS	4	P@$CATINIT	"V($CATINIT)" Set CATs in BERTs
1852	(73C)	ADDRESS	4	P@$CATJCNT	"V($CATJCNT)" Reset xeq count in CAT
1856	(740)	ADDRESS	4	P@$CRWSCQ	"V($CRWSCQ)" Create WSC
1860	(744)	ADDRESS	4	P@$CREGWLM	"V($CREGWLM)" Register WLM class
1864	(748)	ADDRESS	4	P@$DCONSET	"V($DCONSET)" Entry to $DCONSET routine
1868	(74C)	ADDRESS	4	P@$DMNDJOB	"V($DMNDJOB)" Demand job start/test
1872	(750)	ADDRESS	4	P@$DOGCAT	"V($DOGCAT)" Deliver or Get CAT
1876	(754)	ADDRESS	4	P@$DOGGRP	"V($DOGGRP)" Deliver or Get CLASGRP
1880	(758)	ADDRESS	4	P@$DOGWSCQ	"V($DOGWSCQ)" Deliver or Get WSC
1884	(75C)	ADDRESS	4	P@$PLEXREG	"V($PLEXREG)" JESPlex queue registration

Table 374. Structure PADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1888	(760)	ADDRESS	4	P@XPURJWEL	"V(XPURJWEL)" Purge JWELs for AS
1892	(764)	ADDRESS	4	P@CATAGRP	"V(CATAGRP)" Add a CAT to a CLASGRP
1896	(768)	ADDRESS	4	P@CATCLEAN	"V(CATCLEAN)" Process deleted JOBCLASS
1900	(76C)	ADDRESS	4	P@CATDGRP	"V(CATDGRP)" Delete a CAT from a CLASGRP
1904	(770)	ADDRESS	4	P@HASP051	"V(HASP051)" BERT Shortage message
1908	(774)	ADDRESS	4	P@MODESWIT	"V(MODESWIT)" Mode switch for class queue
1912	(778)	ADDRESS	4	P@TIMECLOC	"V(TIMECLOC)" Manage JQE timers
1916	(77C)	ADDRESS	4	P@WLMGOALS	"V(WLMGOALS)" Compute WLM goals
1920	(780)	ADDRESS	4	P@XDUPTEST	"V(XDUPTEST)" Check for duplicates
1924	(784)	ADDRESS	4	P@XINSTART	"V(XINSTART)" Start an initiator
1928	(788)	ADDRESS	4	P@XPOSTXEQ	"V(XPOSTXEQ)" EXEC PCE POST routine
1932	(78C)	ADDRESS	4		RESERVED FOR FUTURE USE
1936	(790)	ADDRESS	4		RESERVED FOR FUTURE USE
1940	(794)	ADDRESS	4		RESERVED FOR FUTURE USE
1944	(798)	ADDRESS	4		RESERVED FOR FUTURE USE
1944	(798)	X'79C'	0	PADDRLEN	"*-PADDR" Length of the PADDR table

Table 375. Cross Reference for $PADDR

Name	Offset	Hex Tag
P#$NATADD	3A4	
P#$NATGET	3B0	
P#$NATMOD	3BC	
P#$NATNOT	3C8	
P#$NATREM	3D4	
P#SWBMSUB	518	
P@$#ADD	24C	
P@$#ALCHK	250	
P@$#BLD	254	
P@$#BUSY	258	
P@$#CAN	25C	
P@$#CHK	260	
P@$#DISPRO	264	
P@$#FORMAT	268	
P@$#GET	26C	
P@$#GTNEWS	270	
P@$#JOTBLD	274	
P@$#JOTCHK	278	
P@$#JWEL	27C	
P@$#MOD	280	
P@$#NEWS	284	
P@$#POST	288	
P@$#PUT	28C	

Table 375. Cross Reference for $PADDR (continued)

Name	Offset	Hex Tag
P@$#RBDCHK	290	
P@$#REM	294	
P@$#REP	298	
P@$#RLNEWS	29C	
P@$#TJEV	2A0	
P@$#ZAPJOE	2A4	
P@$ABEND	6B0	
P@$ASDXCLR	724	
P@$ASDXUPD	728	
P@$BERTFIX	118	
P@$BFRBLD	458	
P@$BLDTGB	6C8	
P@$CATCRNW	72C	
P@$CATCWRT	730	
P@$CATDEFS	734	
P@$CATINIT	738	
P@$CATJCNT	73C	
P@$CBIOM	45C	
P@$CDCTDYN	8C	
P@$CFTRACE	CC	
P@$CHECK	460	
P@$CKPT	464	
P@$CKPTQUE	11C	
P@$CKTSRV	124	
P@$CLASSIF	2E0	
P@$CLASSI4	39C	
P@$CNITNOT	90	
P@$CONAFFI	2E4	
P@$CREGWLM	744	
P@$CRWSCQ	740	
P@$DASFMT	61C	
P@$DCBDYN	204	
P@$DCONSET	748	
P@$DCTDYN	208	
P@$DESTDYN	20C	
P@$DILBERT	2E8	
P@$DISTERR	524	
P@$DLSADDH	5D0	
P@$DMNDJOB	74C	
P@$DOGBERT	120	
P@$DOGCAT	750	
P@$DOGDJB	2EC	
P@$DOGGRP	754	
P@$DOGJAX	5D4	
P@$DOGJOE	2A8	
P@$DOGJQE	2F0	
P@$DOGMIG	620	
P@$DOGWSCQ	758	
P@$DOM	1C8	

Table 375. Cross Reference for $PADDR (continued)

Name	Offset	Hex Tag
P@$DSCLOSE	468	
P@$DSOPEN	46C	
P@$DSPUT	470	
P@$DTEDYNA	210	
P@$DTEDYND	214	
P@$DYN	474	
P@$ESTACAN	528	
P@$ESTAER	52C	
P@$ESTAREP	530	
P@$EXCP	478	
P@$EXTP	47C	
P@$FRECMB	1CC	
P@$FREEBFR	480	
P@$FREJLOK	2F4	
P@$FRENHB	3F0	
P@$FRESMF	488	
P@$FREUCBS	48C	
P@$FREUNIT	490	
P@$GETABLE	698	
P@$GETBUFR	494	
P@$GETCMBR	1D0	
P@$GETJLOK	2F8	
P@$GETNHB	3F4	
P@$GETSAVE	49C	
P@$GETSMF	4A0	
P@$GETUCBS	4A4	
P@$GETUNIT	4A8	
P@$GETWORK	4AC	
P@$GFMAIN	4B0	
P@$HEXIT	6B4	
P@$IOERROR	534	
P@$IOTCNT	4B4	
P@$IOTERR	608	
P@$JCAN	18C	
P@$JESEFF	4B8	
P@$JQEMERG	2FC	
P@$MODCHK	1E4	
P@$MODELET	1E8	
P@$MODLOAD	1EC	
P@$MSTNTFY	6F0	
P@$NATADD	3A8	
P@$NATGET	3B4	
P@$NATMOD	3C0	
P@$NATNOT	3CC	
P@$NATREM	3D8	
P@$NATREQ	3E0	
P@$NITSYNC	3F8	
P@$PAWS	4BC	
P@$PCABEND	6B8	

Table 375. Cross Reference for $PADDR (continued)

Name	Offset	Hex Tag
P@$PCEDYDC	218	
P@$PCEDYN	21C	
P@$PGSRVC	4C0	
P@$PLEXREG	75C	
P@$POST	4C4	
P@$POSTSUB	4C8	
P@$PURGER	6CC	
P@$PUTABLE	69C	
P@$QADD	300	
P@$QBUSY	304	
P@$QEXTFMT	30C	
P@$QEXTVER	308	
P@$QFORMAT	310	
P@$QGET	314	
P@$QJIX	318	
P@$QLOC	31C	
P@$QLOCNXT	320	
P@$QMOD	324	
P@$QPUT	328	
P@$QRBDCHK	32C	
P@$QREBLD	330	
P@$QREM	334	
P@$QSUSE	4CC	
P@$QUESMF	4D0	
P@$QVERIF	338	
P@$RBLDLOG	33C	
P@$REQBUF	544	
P@$REQBUFN	548	
P@$REROUTE	674	
P@$RETABLE	6A0	
P@$RETSAVE	4D4	
P@$RETURN	4D8	
P@$RETWORK	4DC	
P@$ROLL	224	
P@$SCHEMSK	340	
P@$SDUMP	538	
P@$SEAS	4E0	
P@$SEASMSG	4E4	
P@$STCK	4E8	
P@$STCKFMT	4EC	
P@$STIMER	4F0	
P@$SUBIT	4F4	
P@$TGMMIG	6D0	
P@$TGMSET	6D4	
P@$TQLEVEL	6F4	
P@$TQLVLS	6F8	
P@$TRACK	6D8	
P@$TTIMER	4F8	
P@$WAIT	4FC	

Table 375. Cross Reference for $PADDR (continued)

Name	Offset	Hex Tag
P@$WSPXCFY	5D8	
P@$WSPXKEY	5DC	
P@$WTO	1D4	
P@$WTOC	1D8	
P@$XCWCRT	5E0	
P@$XCWDLT	5E4	
P@$XCWPOST	5E8	
P@$XCWPRG	5EC	
P@$XECBKIL	500	
P@$ZGLREQT	5FC	
P@$ZGLSHUT	5F0	
P@$ZGLSTOP	5F4	
P@$ZGLSTRT	5F8	
P@$ZJCINIT	344	
P@ABNDRATE	6BC	
P@ADDDCTQ	570	
P@ADDTOINX	2AC	
P@APPLDYN	610	
P@ARODREG	80	
P@AROQRYA	84	
P@BERTFMT	128	
P@BERTMAP	12C	
P@CALCBRTN	574	
P@CALLBLDM	678	
P@CATAGRP	764	
P@CATCLEAN	768	
P@CATDGRP	76C	
P@CATDUP	348	
P@CATHMAX	34C	
P@CFALOC	94	
P@CFBLDLST	98	
P@CFCOMP	A0	
P@CFDELETE	9C	
P@CFEVENT	A4	
P@CFFCOMP	AC	
P@CFFORMAT	B4	
P@CFJOED	578	
P@CFNOTIFY	A8	
P@CFPARSE	190	
P@CFPOST	688	
P@CFPURGE	DC	
P@CFQLOCK	B8	
P@CFQUERY	BC	
P@CFRDATA	C0	
P@CFRDLEC	B0	
P@CFRDLIST	D0	
P@CFRDONE	C4	
P@CFREAD2	D8	
P@CFREL	C8	

Table 375. Cross Reference for $PADDR (continued)

Name	Offset	Hex Tag
P@CFRESV	D4	
P@CFSTRTIO	E0	
P@CFTRK1IO	E4	
P@CFUNAL	E8	
P@CFWRINPL	EC	
P@CFWRITE	F0	
P@CJFLCMB	194	
P@CKPTALOC	F8	
P@CKPTUNAL	FC	
P@CKPTVSIZ	100	
P@CKPTXPND	104	
P@CKRRDONE	158	
P@CKRRINIT	15C	
P@CKRRMASK	160	
P@CKRRSTRT	164	
P@CKRRSYNC	168	
P@CKVREFRS	350	
P@CLOCCHKR	354	
P@CNVIPAD	6A4	
P@COFCVE	198	
P@COFEDTR	19C	
P@COFJMSG	1A0	
P@COFRTC	1A4	
P@COMBEWTO	1A8	
P@COMFRELK	1AC	
P@COMLOPER	6DC	
P@CSCANDSP	1B0	
P@CSMICMD	1B4	
P@CSV$DEL	1F0	
P@CSV$LOAD	1F4	
P@CWTO	1B8	
P@CWTOT	1BC	
P@DADADDWQ	624	
P@DADAVAIL	628	
P@DADCKALL	62C	
P@DADCKTGM	630	
P@DADCOUNT	634	
P@DADDEB	638	
P@DADEXIST	63C	
P@DADREMVE	640	
P@DADREMWQ	644	
P@DADSPLST	64C	
P@DADSTUNT	648	
P@DADTGM	650	
P@DADTGMSP	654	
P@DADXTENT	658	
P@DILJCAN	1C0	
P@DSNVERFY	234	
P@DUPJOB	358	

Table 375. Cross Reference for $PADDR (continued)

Name	Offset	Hex Tag
P@DYNFSS	23C	
P@ENFPOLCY	3A0	
P@EXTDCTSL	67C	
P@GETEVNTR	504	
P@GETJOBKY	50C	
P@GETPTIME	508	
P@GTSCREEN	2B0	
P@GTSPOOL	2B4	
P@HASPBACT	24	
P@HASPBPRO	20	
P@HASPBSCA	C	
P@HASPBSLN	2C	
P@HASPBUNT	28	
P@HASPEXDS	238	
P@HASPNSNR	430	
P@HASPROUT	10	
P@HASPSACB	44	
P@HASPSICE	48	
P@HASPSIDL	3C	
P@HASPSLNE	38	
P@HASPSLOG	34	
P@HASPSNAA	14	
P@HASPSPRO	30	
P@HASPSRAT	4C	
P@HASPSSAL	50	
P@HASPSUNT	40	
P@HASPTACT	58	
P@HASPTASV	64	
P@HASPTCPA	18	
P@HASPTIDL	5C	
P@HASPTPRO	54	
P@HASPTSSV	68	
P@HASPTUNT	60	
P@HASPWQUE	1DC	
P@HASPWQUW	1E0	
P@HASPXFRA	1C	
P@HASP051	770	
P@HEXTINIT	6C0	
P@H607RSN	1C4	
P@ISSWTO	60C	
P@IVATE	57C	
P@JNRNGCNT	35C	
P@JOBQSAMP	360	
P@JOECLUP	2B8	
P@JOEPPSCR	2BC	
P@JOEPSCRN	2C0	
P@JOESYNC	2C4	
P@JOTFRECL	2C8	
P@JOTVERIF	2CC	

Table 375. Cross Reference for $PADDR (continued)

Name	Offset	Hex Tag
P@JQAJOBGR	368	
P@JQECAT	364	
P@KBLDCKB	F4	
P@KBUPDJQE	130	
P@KBUPDSUB	134	
P@KCPYMSTR	138	
P@KDIALOG	108	
P@KFORMAT	13C	
P@KGETCHLG	140	
P@KPROTECT	144	
P@KREAD2	148	
P@KRELEASE	10C	
P@KRESERVE	110	
P@KSETMSTR	14C	
P@KTRK1IO	150	
P@LNEAVRJE	54C	
P@LOCENTRY	1F8	
P@LOCLMOD	1FC	
P@LOCMODMP	200	
P@LPRMLIBP	690	
P@MIGRRECV	65C	
P@MLMRCPCL	550	
P@MLMVFY	7C	
P@MNENF58	2D0	
P@MNENF70	36C	
P@MNENF78	370	
P@MODESWIT	774	
P@MODJCHG	374	
P@MODJRLS	378	
P@MODJSPN	37C	
P@MODJXMBR	380	
P@MOD875	510	
P@MPURIO	88	
P@MSAFCHK	554	
P@MSTNTFY	6EC	
P@NADRECV	3AC	
P@NCOMMREQ	434	
P@NEWSCRE	680	
P@NGTRECV	3B8	
P@NJDCTINT	3FC	
P@NJECHECK	400	
P@NJEHDRCV	404	
P@NJEHDRD	408	
P@NJEHDWR	40C	
P@NJEHDXMT	410	
P@NJEPUT	414	
P@NJERDACT	418	
P@NJHBUILD	41C	
P@NJTBUILD	420	

Table 375. Cross Reference for $PADDR (continued)

Name	Offset	Hex Tag
P@NMAPINIT	438	
P@NMDRECV	3C4	
P@NNTRECV	3D0	
P@NPMHOT	43C	
P@NPMQSUSE	440	
P@NPMVFY	3E4	
P@NPVDCTV	3E8	
P@NQPSOQ	6E4	
P@NQRELSE	6E8	
P@NRMAJUST	454	
P@NRMRECV	3DC	
P@NSETESS	424	
P@NSETSUBS	444	
P@NSJFSPSP	428	
P@NSMFBSIZ	42C	
P@OPGROUP	240	
P@OPMAILMG	244	
P@OPNULLCK	248	
P@PROCALOC	188	
P@PRTDFLT	220	
P@PSAFSCAN	684	
P@PSOFRELK	520	
P@PURMASC	6E0	
P@QBERTHRE	384	
P@QDECHAIN	388	
P@QJQEVER	38C	
P@QQSESTAT	694	
P@QWLMSVDF	154	
P@RBLDCTQ	580	
P@RCDSYNC	660	
P@RDRPDCUP	53C	
P@REMDCTQ	584	
P@RINTJOB	540	
P@RMTDVINT	558	
P@RMTDVSET	55C	
P@RMTLNECK	560	
P@RMTSETUP	564	
P@ROTDCTQ	588	
P@RTNINDEX	2D4	
P@SAIHOT	568	
P@SAIRECC	56C	
P@SAPIPOST	2D8	
P@SHRLIVE	17C	
P@SIGIO	664	
P@SNASNET	614	
P@SNFQBLD	66C	
P@SNFQPST	670	
P@SNFQUE	668	
P@SOCKDYN	6A8	

Table 375. Cross Reference for $PADDR (continued)

Name	Offset	Hex Tag
P@SPCIOT	618	
P@SRVCFSEL	58C	
P@SRVDCTD	590	
P@SRVFNDCR	594	
P@SRVMOD	598	
P@SRVM630	59C	
P@SRVOLOC	5A0	
P@SRVPREFX	5A4	
P@SRVRDIR	5AC	
P@SRVROUT	5B0	
P@SRVSASCN	5B4	
P@SRVSETUP	5B8	
P@SRVWSCAN	5BC	
P@SUBDEST	514	
P@SUBRRT	5C0	
P@SUBSPERF	68C	
P@TCPSNET	6AC	
P@TIMECLOC	778	
P@TRCDUMP	228	
P@TRCPUT	22C	
P@TREGROUP	51C	
P@TRGETTB	230	
P@UNSHRLIV	180	
P@VETIVATE	5C4	
P@WLMDEQ	390	
P@WLMENQ	394	
P@WLMGOALS	77C	
P@WS2	5C8	
P@WTORTIMR	6C4	
P@XCFBCAST	6FC	
P@XCFDHOMO	700	
P@XCFHELTH	704	
P@XCFJOIN	708	
P@XCFLEAVE	70C	
P@XCFMAPEV	710	
P@XCFMSTAT	714	
P@XCFQSTAT	718	
P@XCFUSTAT	71C	
P@XCFXMAQU	720	
P@XCLDVPST	2DC	
P@XCSAPST	5CC	
P@XDUPTEST	780	
P@XINSTART	784	
P@XPOSTXEQ	788	
P@XPURJWEL	760	
P@ZAPJOB	398	
PADDR	0	
PADDR@OCOOFFST	8	
PADDRID	0	D7C1C4D9

Table 375. Cross Reference for $PADDR (continued)

Name	Offset	Hex Tag
PADDRLEN	798	79C
PADDRV	4	
PADDRVN	4	6

Chapter 160. $PARMLST Information

$PARMLST Heading Information

Common Name: JES2 inline parameter list DSECT
Macro ID: $PARMLST
DSECT Name: PARMLIST
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: None
Storage Attributes:
```
Subpool:   N/A
Key:       N/A
Residency: This macro is generated as inline code as part
of macro expansions using $CALL INLINE=.  It can
therefore reside in code anywhere in storage in
any address space.
```

Size: Variable
Created by: Created at assembly time by $CALL with the INLINE= parameter.
Pointed to by: N/A
Serialization: None required
Function:
```
This DSECT defines inline parameter lists associated
with the $CALL macro via the INLINE= parameter.  See
$CALL for more information.
This DSECT is composed of a base section followed by
many members which ORG back over this base section.
Each $PARMLST member represents an inline parameter
list for a particular service routine.  In order to
use $CALL's cross assembly calling ability and have
an inline parameter list, the inline parameter list
must be defined as a member of this DSECT.
```

$PARMLST mapping

Table 376. Structure PARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PARMLIST	INLINE PARAMETER LIST DSECT
0	(0)	BITSTRING	4	PARMINST	FOR INSTRUCTION AFTER THE BASR
4	(4)	SIGNED	2	PARMSTRT(0)	LABEL ALL $PARMLST MEMBERS ORG TO
		MEMBER NAME --> $$PO ROUTINE(S) ---> $$POST in HASCSRIC MACRO(S) -----> $$POST Wake up the JES2 main task			
4	(4)	BITSTRING	1	$$POFLG1	$$POST flag byte
		1...		$$PO1BRA	"B'10000000'" LINKAGE=BRANCH POST
		.1..		$$PO1SYS	"B'01000000'" LINKAGE=SYSTEM POST
		B'00xxxxxx' LINKAGE=SVC POST			

Table 376. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		$$PO1ELM	"B'00100000'" ELMT specified
		...1		$$PO1RUN	"B'00010000'" Run time $DRxxx value
		.... 1...		$$PO1BR3	"B'00001000'" LINKAGE=CVT0PT03 POST
5	(5)	ADDRESS	1		Reserved
		MEMBER NAME --> $AEOJ ROUTINE(S) ---> ARMEOJ in HASCARSO MACRO(S) -----> none ARM end of job routine. This parameter list is FROZEN.			
4	(4)	BITSTRING	1	$AEOJFL1	$AEOJ FLAG BYTE
		1...		$AEOJ1JT	"B'10000000'" Job termination call
		.1..		$AEOJ1EM	"B'01000000'" End of memory call
		MEMBER NAME --> $BLDTGB ROUTINE(S) ---> $BLDTGB in HASPTRAK MACRO(S) -----> $BLDTGB Build trackgroup block			
4	(4)	BITSTRING	1	$BTGFLG1	$AEOJ FLAG BYTE
		1...		$BTGBMTR	"B'10000000'" ID=MTTR was specified
		.1..		$BTGBTGM	"B'01000000'" ID=TGM was specified
		..1.		$BTGBMQR	"B'00100000'" ID=MQTR was specified
		MEMBER NAME --> $CBI ROUTINE(S) ---> $CBIO IN HASCSRDS $CBIOM in HASPNUC MACRO(S) -----> $CBIO CONTROL BLOCK I/O ROUTINE.			
4	(4)	BITSTRING	1	$CBIFLG1	$CBIO flag byte
		EQU B'10000000' Reserved			
		.1..		$CB1EXIT	"B'01000000'" EXIT 8 SHOULD BE TAKEN
		..1.		$CB1NOVF	"B'00100000'" BYPASS CNTRL BLK VERIFY
		...1		$CB1NSJB	"B'00010000'" NO SJB PROVIDED
		.... 1...		$CB1SJIO	"B'00001000'" SJIOB PROVIDED
		.... .1..		$CB1FREE	"B'00000100'" FREE THE BUFFER
		.... ..1.		$CB1WAIT	"B'00000010'" ON - WAIT=YES SPECIFIED, OFF - WAIT=NO SPECIFIED.
		1		$CB1COND	"B'00000001'" Conditional Write
5	(5)	BITSTRING	1	$CBIFLG2	$CBIO flag byte
		1...		$CB2WRIT	"B'10000000'" TYPE=WRITE operation
		.1..		$CB2TWAT	"B'01000000'" TYPE=WAIT requested
		..1.		$CB2FSSM	"B'00100000'" $CBIO called from FSSM

Table 376. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		$CB2SUPM	"B'00010000'" Suppress error messages
		.... 1...		$CB2MQTR	"B'00001000'" MQTR passed in register 0
		.... .1..		$CB2SPLQ	"B'00000100'" SPOLPTR is an MQTR
		.... ..1.		$CB2NORF	"B'00000010'" WAIT=(NO,NOREF) SPECIFIED
6	(6)	BITSTRING	1		Reserved
7	(7)	BITSTRING	1	$CBCKPTB	CKPTBIT VALUE
8	(8)	ADDRESS	2	$CBSTORP	STORPTR VALUE
10	(A)	ADDRESS	2	$CBSPOLP	SPOLPTR VALUE
12	(C)	ADDRESS	2	$CBCKPTF	CKPTFLD VALUE
14	(E)	CHARACTER	4	$CBVERID	VERIFY ID
18	(12)	ADDRESS	4	$CBVERIX	Verify index (if known)
22	(16)	CHARACTER	8	$CBISECT	Control Section name
30	(1E)	CHARACTER	8	$CBISEQF	Invoking seq number
MEMBER NAME --> $VERIFY ROUTINE(S) ---> $VERIFY in HASCSRDS MACRO(S) -----> $VERIFY CBIO control block verification service $VERIFY passes parameters in registers and does not use inline parameter list. However, one of the parameters is a pointer to 4 byte control block ID. It can be a 4 character EBCDIC identifier of a control block (e.g. 'IOT '); or 4 byte binary index in the verification table HASPVTAB (in HASCSRDS). Note that equates in this list should be in the same order as entries in HASPVTAB.					
30	(1E)	X'0'	0	$VFYCHK	"0" Verify CHK
30	(1E)	X'1'	0	$VFYDSCA	"1" Verify DSCA
30	(1E)	X'2'	0	$VFYDSIX	"2" Verify DSIX
30	(1E)	X'3'	0	$VFYHDB	"3" Verify HDB
30	(1E)	X'4'	0	$VFYIOT	"4" Verify IOT
30	(1E)	X'5'	0	$VFYJCT	"5" Verify JCT
30	(1E)	X'6'	0	$VFYOCT	"6" Verify OCT
30	(1E)	X'7'	0	$VFYSWBI	"7" Verify SWBI
30	(1E)	X'8'	0	$VFYNHSB	"8" Verify NHSB
30	(1E)	X'9'	0	$VFYTLBM	"9" Verify TLBM
30	(1E)	X'A'	0	$VFYJSMT	"10" Verify JSMT
MEMBER NAME --> $CDCTDYN ROUTINE(S) ---> $CDCTDYN in HASPDYN MACRO(S) -----> $CDCTDYN					
4	(4)	BITSTRING	1	$CDCTYPE	Flag byte 1
4	(4)	X'1'	0	$CDCTDCT	"1" DCT= was specified
4	(4)	X'2'	0	$CDCTAPT	"2" APT= was specified
4	(4)	X'3'	0	$CDCTSCK	"3" SCK= was specified
4	(4)	X'4'	0	$CDCTRAT	"4" RAT= was specified
4	(4)	X'5'	0	$CDCTCDC	"5" CDCT= was specified
4	(4)	X'6'	0	$CDCTXRQ	"6" XREQ= was specified
5	(5)	BITSTRING	1	$CDCFLG1	Flag byte 2
		1...		$CDC1CRE	"B'10000000'" CREATE=YES
		.1..		$CDC1SYN	"B'01000000'" SYNCH=YES

Table 376. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		$CDC1BRO	"B'00100000'" BROADCAST=YES
		...1		$CDC1INV	"B'00010000'" MARK=INVALID
		.... 1...		$CDC1VAL	"B'00001000'" MARK=VALID
		.... .1..		$CDC1BRC	"B'00000100'" BROADCAST=COND
		MEMBER NAME --> $CFX ROUTINE(S) ---> CSMICMD IN HASPCOMM MACRO(S) -----> $CFXMJC Single Member Image subroutine.			
4	(4)	BITSTRING	1	$CFXFLG1	Response flag
		1...		$CFX1RSP	"B'10000000'" Return a command response
5	(5)	BITSTRING	1		Reserved for future use
		Member name --> $CKPALOC Routine(s) ---> CKPTALOC in HASPCKDS Macro(s) -----> $CKPALOC Checkpoint allocation service			
4	(4)	BITSTRING	1	$CKAPARF	$CKPALOC flag byte
		1...		$CKAOLD	"B'10000000'" OLD=YES was specified
		.1..		$CKANEW	"B'01000000'" NEW=YES was specified
		..1.		$CKADEF	"B'00100000'" NEW=DEFER was specified
		Member name --> $CKPT Routine(s) ---> $CKPT in HASPNUC Macro(s) -----> $CKPT Checkpoint control block change			
4	(4)	BITSTRING	1	$CKPARMF	$CKPT flag byte
		1...		$CKPPOST	"B'10000000'" $POST CKPT
		.1..		$CKPUNK	"B'01000000'" Unknown ID
5	(5)	BITSTRING	1		Reserved for future use
6	(6)	CHARACTER	4	$CKPID	CTENT ID
		MEMBER NAME --> $CKPTQUE ROUTINE(S) ---> $CKPTQUE IN HASPCKPT MACRO(S) -----> $CKPTQUE Queue work to CKPT PCE			
4	(4)	ADDRESS	4	$CKQRTN	Routine address
		MEMBER NAME --> $CMSGLOK ROUTINE(S) ---> CMSGLOK in HASCSRIC MACRO(S) -----> $GETMLOK Get CMS or LOCAL lock (or both)			
4	(4)	BITSTRING	1	$CMSGFLG	Flags
		1...		$CMSGLOC	"B'10000000'" Get LOCAL lock only
		.1..		$CMSGCMS	"B'01000000'" Get CMS lock only
		11..		$CMSGBTH	"B'11000000'" Get LOCAL and CMS lock
		MEMBER NAME --> $CMSFLOK ROUTINE(S) ---> CMSFLOK in HASCSRIC MACRO(S) -----> $FREMLOK Free CMS or LOCAL lock (or both)			

Table 376. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	BITSTRING	1	$CMSFFLG	Flags
		1...		$CMSFLOC	"B'10000000'" Free LOCAL lock only
		.1..		$CMSFCMS	"B'01000000'" Free CMS lock only
		11..		$CMSFBTH	"B'11000000'" Free local and CMS lock
		MEMBER NAME --> $CPL ROUTINE(S) ---> CPGET, CPFREE in HASCPOOL MACRO(S) -----> $CPOOL CPOOL TYPE=GET SUBROUTINE.			
4	(4)	BITSTRING	1	$CPL1	
		1...		$CPL1CDY	"B'10000000'" $CPOOL COND=YES
		.1..		$CPL1HXN	"B'01000000'" $CPOOL HASXB=NONE
		MEMBER NAME --> $CRJOES ROUTINE(S) ---> CRJOES in HASCSISC MACRO(S) -----> $CRJOES Create JOEs or JOA (optionally acquire and free storage for JOA)			
4	(4)	BITSTRING	1	$CRJFLG1	
		..1.		$CRJ1ALC	"B'00100000'" ALLOCATE and return JOA
		...1		$CRJ1FRE	"B'00010000'" FREEMAIN JOA
		.... 1...		$CRJ1CLR	"B'00001000'" Clear passed JOA
		MEMBER NAME --> $CKTSRV ROUTINE(S) ---> $CKTSRV in HASPCKPT MACRO(S) -----> None $CKTSRV routine inline parameter list.			
4	(4)	BITSTRING	1	$CKSREQ	Request/event type:
4	(4)	X'1'	0	$CKSSTRT	"1" - START CKPT tuning
4	(4)	X'2'	0	$CKSSTOP	"2" - STOP CKPT tuning
4	(4)	X'3'	0	$CKSADDM	"3" - ADD MEMBER
4	(4)	X'4'	0	$CKSDELM	"4" - DELETE MEMBER
4	(4)	X'5'	0	$CKSOPT	"5" - OPTIMIZE CKPT cycle
5	(5)	BITSTRING	1	$CKSFLG1	Parameter flags:
		1...		$CKS1ALL	"B'10000000'" - apply to all members
		.1..		$CKS1LVC	"B'01000000'" - check member levels when sending message
		..1.		$CKS1XRQ	"B'00100000'" - XREQ passed in R1
		MEMBER NAME --> $CW ROUTINE(S) ---> CWTO IN HASPCOMM MACRO(S) -----> $CWTO WRITE - TO - OPERATOR SUBROUTINE.			
4	(4)	ADDRESS	1	$CWTOFLG	
		1...		$CWTOMVC	"B'10000000'" EXECUTE OF MVC INSTRUCT. NEEDED
		.1..		$CWTOLST	"B'01000000'" LAST LINE OF MLWTO
		..1.		$CWTONWT	"B'00100000'" WAIT=NO WAS SPECIFIED

Table 376. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		MEMBER NAME --> $DIL ROUTINE(S) ---> $DILBERT in HASPJQS MACRO(S) -----> $DILBERT Do It Later when BERT lock is available routine inline parameter list			
4	(4)	BITSTRING	1	$DILTYPE	TYPE specification
4	(4)	X'1'	0	$DILTJQE	"1" TYPE=JQE specified
4	(4)	X'2'	0	$DILTJOE	"2" TYPE=JOE specified
5	(5)	BITSTRING	1	$DILVERS	Version
5	(5)	X'1'	0	$DILCVER	"1" Current version
6	(6)	BITSTRING	1	$DILFLG1	Flag byte
		1...		$DILF1CL	"B'10000000'" CALL=YES speciifed
		.1..		$DILF1IM	"B'01000000'" Execute immediate instruction rather than calling routine
		..1.		$DILF1WA	"B'00100000'" $WAIT for flush
		...1		$DILF1FL	"B'00010000'" Flush DWAs
		.... 1...		$DILF1PO	"B'00001000'" $POST Resource
		.... .1..		$DILF1ND	"B'00000100'" Do not queue duplicates
		.... ..1.		$DILF1QP	"B'00000010'" QPOST when resource ret
		1		$DILF1#P	"B'00000001'" $#POST when resource ret
7	(7)	BITSTRING	1	$DILFLG2	Second Flag byte
		1...		$DILF2PA	"B'10000000'" Pace requests by rtn addr
		.1..		$DILF2QS	"B'01000000'" Queues need not be owned
		..1.		$DILF2SP	"B'00100000'" Get JQA in special mode
		...1		$DILF2CK	"B'00010000'" Check DWAs
		.... 1...		$DILF2GM	"B'00001000'" GETMAIN'ed DWA
		.... .1..		$DILF2FN	"B'00000100'" Don't queue a DWA if flush unsuccessful
		.... ..1.		$DILF2FP	"B'00000010'" Flush only DWAs for this specific PCE
		1		$DILF2FT	"B'00000001'" Flush only DWAs for this PCE type
8	(8)	BITSTRING	4	$DILIMME	Immed instruction
		MEMBER NAME --> $DTR ROUTINE(S) ---> $DISTERR in HASPRAS MACRO(S) -----> $DISTERR Disasterous error routine inline parameter list			
4	(4)	BITSTRING	1	$DTRFLG1	General flag 1
		1...		$DTRRJQE	"B'10000000'" JQE= specified
		.1..		$DTRRJCT	"B'01000000'" JCT= specified
		..1.		$DTRRND	"B'00100000'" DUMP=NO specified
		...1		$DTRRNAM	"B'00010000'" RECVOPTS= specified
		.... 1...		$DTRRSIG	"B'00001000'" SIGRCD= specified
		.... .1..		$DTRMQTR	"B'00000100'" MQTR= specified
		.... ..1.		$DTRMASD	"B'00000010'" DUMP=MAS specified

Table 376. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
5	(5)	BITSTRING	1		Reserved
6	(6)	CHARACTER	8	$DTRNAME	Name of $DISTERR
14	(E)	CHARACTER	8	$DTRSECT	Name of CSECT
22	(16)	CHARACTER	8	$DTRSEQ	Sequence number of $DISTERR
30	(1E)	CHARACTER	8	$DTRRECV	RECVOPTS= value
		MEMBER NAME --> $DOGJAX			
		ROUTINE(S) ---> $DOGJAX in HASPSERV			
		MACRO(S) -----> $DOGJAX			
4	(4)	BITSTRING	1	$DJXREQ	Action/request:
4	(4)	X'1'	0	$DJXRQCR	"1" ACTION=CREATE
4	(4)	X'2'	0	$DJXRQFE	"2" ACTION=FETCH
4	(4)	X'3'	0	$DJXRQCK	"3" ACTION=CKPT
4	(4)	X'4'	0	$DJXRQRT	"4" ACTION=RETURN
4	(4)	X'5'	0	$DJXRQFR	"5" ACTION=FREE
4	(4)	X'6'	0	$DJXRQRS	"6" ACTION=RESET
5	(5)	BITSTRING	1	$DJXFLGS	$DOGJAX options:
		1...		$DJXFWT	"B'10000000'" WAIT=YES
		.1..		$DJXFJAX	"B'01000000'" JAX addr supplied in R1
		..1.		$DJXFNCK	"B'00100000'" do not checkpoint changes
		MEMBER NAME --> $DOGJOE			
		ROUTINE(S) ---> $DOGJOE			
		MACRO(S) -----> $DOGJOE			
		Deliver or Get JOE routine's inline parameter list			
0	(0)	SIGNED	1	$DOVERS	Version of parameter list
0	(0)	X'1'	0	$DOCVER	"1" Parameter list version
1	(1)	SIGNED	1	$DOACT	Action requested
1	(1)	X'0'	0	$DOAFETN	"0" Fetch next JOE
1	(1)	X'4'	0	$DOAFET	"4" Fetch JOE
1	(1)	X'8'	0	$DOARET	"8" RETURN JOE (CKPT and Rel)
1	(1)	X'C'	0	$DOACKPT	"12" CKPT JOE (CKPT, *no* Rel)
1	(1)	X'10'	0	$DOAFLD	"16" CKPTFLD
1	(1)	X'14'	0	$DOAREFR	"20" Refresh JOA
1	(1)	X'18'	0	$DOAFREE	"24" Free JOA
1	(1)	X'1C'	0	$DOAQLOK	"28" QUERYLOCK
1	(1)	X'20'	0	$DOASETA	"32" SETACCESS
2	(2)	BITSTRING	1	$DOFLAG2	More $DOGJOE option flags
		1...		$DO2DSRV	"B'10000000'" DSERV provided
		.1..		$DO2SPCL	"B'01000000'" Special call (no BERT lock)
		..1.		$DO2READ	"B'00100000'" READ access requested
		...1		$DO2NWAT	"B'00010000'" WAIT=NO
		.... 1...		$DO2WDEF	"B'00001000'" DEFER option on WAIT=NO
		.... .1..		$DO2CONF	"B'00000100'" Conditional FREE
		.... ..1.		$DO2NROL	"B'00000010'" Skip any $ROLL trace
		1		$DO2RCVY	"B'00000001'" ACTION=(FREE,RECOVERY)
3	(3)	BITSTRING	1	$DOFLAG3	More $DOGJOE option flags

Table 376. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		$DO3RELE	"B'10000000'" Release BERT lock
		.1..		$DO3KEEP	"B'01000000'" Keep memory for JOA
		..1.		$DO3UCON	"B'00100000'" Unconditional return for ACTION=RETURN
		...1		$DO3NUPD	"B'00010000'" RETURN,NOUPDATE
		.... 1...		$DO3QLOB	"B'00001000'" QUERYLOCK,OBTAINABLE
		.... ..1.		$DO3MAX	"B'00000010'" ACTION=(CKPT,MAXJOA)
		1		$DO3POST	"B'00000001'" POST=YES for ACTION=CKPT
4	(4)	BITSTRING	1	$DOFLAG4	More $DOGJOE option flags
		.1..		$DO4#PSY	"B'01000000'" #POST=YES
		..1.		$DO4KPJW	"B'00100000'" #POST=(,KEEPJWEL)
		...1		$DO4MNJT	"B'00010000'" #POST=(,JOETIME)
5	(5)	BITSTRING	1	$DOFLAG5	More $DOGJOE option flags
6	(6)	SIGNED	2	$DOACTOR(0)	Action specific fields
6	(6)	SIGNED	2	$DOCHAIN	Offset of chaining field (present only if $DOFETN)
6	(6)	SIGNED	2	$DOCKOFF	Field offset and length
8	(8)	SIGNED	2	$DOCKLEN	for CKPTFLD request (present only if $DOAFLD)
8	(8)	X'A'	0	$DOLEN	"*-PARMLIST" Length of $DOGJOE MF=L
		MEMBER NAME --> $DOGJQE ROUTINE(S) ---> $DOGJQE MACRO(S) -----> $DOGJQE Deliver or Get JQE routine's inline parameter list			
0	(0)	SIGNED	1	$DJACT	Action requested
0	(0)	X'0'	0	$DJAFETN	"0" Fetch next JQE
0	(0)	X'4'	0	$DJAFET	"4" Fetch JQE
0	(0)	X'8'	0	$DJALOCK	"8" Manage BERT lock
0	(0)	X'C'	0	$DJARET	"12" RETURN JQE (CKPT and Rel)
0	(0)	X'10'	0	$DJACKPT	"16" CKPT JQE (CKPT, *no* Rel)
0	(0)	X'14'	0	$DJAREFR	"20" Refresh JQA
0	(0)	X'18'	0	$DJAFREE	"24" Free JQA
0	(0)	X'1C'	0	$DJASETA	"28" Set access
0	(0)	X'20'	0	$DJAQLOK	"32" QUERYLOCK
0	(0)	X'24'	0	$DJAFLD	"36" CKPTFLD
1	(1)	BITSTRING	1	$DJFLAG2	More $DOGJQE option flags
		1...		$DJ2DSRV	"B'10000000'" DSERV provided
		.1..		$DJ2SPCL	"B'01000000'" Special call (no BERT lock)
		..1.		$DJ2KEEP	"B'00100000'" Keep memory for JQA
		...1		$DJ2NWAT	"B'00010000'" WAIT=NO or QUERYLOCK,OBTAINABLE
		.... 1...		$DJ2CONF	"B'00001000'" Conditional FREE
		.... .1..		$DJ2POST	"B'00000100'" POST=YES for ACTION=CKPT
		.... ..1.		$DJ2UCON	"B'00000010'" Unconditional return for ACTION=RETURN

Table 376. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1		$DJ2URFR	"B'00000001'" Unconditional refresh
2	(2)	BITSTRING	1	$DJFLAG3	More $DOGJQE option flags
		1...		$DJ3READ	"B'10000000'" READ access requested
		.1..		$DJ3RELE	"B'01000000'" Release BERT lock
		..1.		$DJ3WDEF	"B'00100000'" Defer RETURN if required
		...1		$DJ3NUPD	"B'00010000'" RETURN,NOUPDATE
		.... 1...		$DJ3QPSY	"B'00001000'" QPOST=YES
		.... .1..		$DJ3#PSY	"B'00000100'" #POST=YES
		.... ..1.		$DJ3MAX	"B'00000010'" ACTION=(CKPT,MAXJQA)
		1		$DJ3RCVY	"B'00000001'" ACTION=(FREE,RECOVERY)
3	(3)	SIGNED	1	$DJVERS	Version of parameter list
3	(3)	X'2'	0	$DJCVER	"2" Parameter list version
4	(4)	BITSTRING	1	$DJFLAG4	More $DOGJQE option flags
5	(5)	BITSTRING	1	$DJFLAG5	More $DOGJQE option flags
6	(6)	SIGNED	2	$DJCHAIN	Offset of chaining field (present only if $DJFETN)
6	(6)	X'8'	0	$DJLEN	"*-PARMLIST" Length of $DOGJQE MF=L
		MEMBER NAME --> $DST ROUTINE(S) ---> USERDEST IN HASCSIRQ MACRO(S) -----> $DEST DESTINATION CONVERSION ROUTINE'S INLINE PARAMETER LIST.			
4	(4)	BITSTRING	1	$DSTFLG1	$DEST MACRO OPTION FLAGS
		1...		$DSTCHAR	"B'10000000'" CHARACTER INPUT
		.1..		$DSTRDT	"B'01000000'" DESTIDs allowed
		..1.		$DSTGNRC	"B'00100000'" Generic userids allowed at local node
		...1		$DST1EXP	"B'00010000'" EXPLICIT=YES was specified
		.... 1...		$DSTNRP	"B'00001000'" RMTPOOL=NO WAS REQUESTED
		.... .1..		$DSTPRIM	"B'00000100'" PRIMARY=YES, RETURN NODENM
		.... ..1.		$DSTUSER	"B'00000010'" USERID SUPPLIED OR DESIRED
		1		$DSTNSPR	"B'00000001'" DO NOT SUPPRESS NODE FOR LOCAL BINARY TO CHARACTER CONV
5	(5)	BITSTRING	1	$DSTFLG2	$DEST macro options flag 2
		1...		$DST2IGN	"B'10000000'" NODENAME=IGNORED
		.1..		$DST2DFM	"B'01000000'" DLMFAIL=YES
		..1.		$DST2NUS	"B'00100000'" DONTUSE= was specified
		...1		$DST2IPY	"B'00010000'" IPFORM=YES (or LONG) was specified
		.... 1...		$DST2IGS	"B'00001000'" SHOWUSER=IGNORED
		.... .1..		$DST2IPD	"B'00000100'" IPFORM=SHORT was specified

Table 376. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ..1.		$DST2NVU	"B'00000010'" VALUSR=NO was specified
		MEMBER NAME --> $DSD ROUTINE(S) ---> $DESTDYN IN HASPDYN MACRO(S) -----> $DESTDYN DESTINATION DEFINITION ROUTINE'S INLINE PARAMETER LIST.			
4	(4)	BITSTRING	1	$DSDFLG1	$DESTDYN MACRO OPTION FLAGS (VALUES ARE RDT1NODE/RDT1DEST)
5	(5)	BITSTRING	1	$DSDFLG2	$DESTDYN MACRO OPTION FLAG 2
		1...		$DSD2FOR	"B'10000000'" Force NODAL destination
		MEMBER NAME --> $DGB ROUTINE(S) ---> $DOGBERT in HASPCKPT BERTREAD in HASCSRIC MACRO(S) -----> $DOGBERT BERT Deliver and Get services inline parm list			
4	(4)	SIGNED	1	$DGBACT	ACTION= being requested
4	(4)	X'1'	0	$DGBFTCH	"1" FETCH action
4	(4)	X'2'	0	$DGBNEXT	"2" FETCHNEXT action
4	(4)	X'3'	0	$DGBCKPT	"3" CKPT action
4	(4)	X'4'	0	$DGBRETN	"4" RETURN action
4	(4)	X'5'	0	$DGBFREE	"5" FREE action
4	(4)	X'6'	0	$DGBSTSP	"6" SETSPECIAL action
5	(5)	BITSTRING	1	$DGBFLAG	General parameter flags
		1...		$DGBWAIT	"B'10000000'" $WAIT is allowed
		.1..		$DGBQSUS	"B'01000000'" Get the queues
		..1.		$DGBUPDT	"B'00100000'" Update access needed
		...1		$DGBNAME	"B'00010000'" NAME= was passed
		.... 1...		$DGBTOKN	"B'00001000'" TOKEN= was passed
		.... .1..		$DGBSPEC	"B'00000100'" SPECIAL=YES was specified
		.... ..1.		$DGBNUPD	"B'00000010'" No write update requested
		1		$DGBNRDD	"B'00000001'" No read data requested
		The following must match the values in BRTTYPE in the $BERT control block.			
6	(6)	SIGNED	1	$DGBCB	Control block type
6	(6)	X'0'	0	$DGBINT	"0" Internal control block
6	(6)	X'1'	0	$DGBJQE	"1" JQE control block ext
6	(6)	X'2'	0	$DGBCAT	"2" CAT control block
6	(6)	X'3'	0	$DGBWSCQ	"3" WLM Service Class Queue
		1111 1111		$DGBDYN	"X'FF'" Dynamically defined type
7	(7)	BITSTRING	1	$DGBFLG2	Second flag byte
		1...		$DGB2CRE	"B'10000000'" ACTION=(,CREATE) spec
		.1..		$DGB2UNK	"B'01000000'" CB type unknown
		..1.		$DGB2PAD	"B'00100000'" ACTION=(CKPT,PAD)
		...1		$DGB2PBE	"B'00010000'" Flag bytes 1 and 2 in PBEDGBF1 & PBEDGBF2
		.... 1...		$DGB2NEV	"B'00001000'" MOREBERTS=NEVER

Table 376. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		$DGB2UNC	"B'00000100'" ACTION=(CKPT,UNCOND)
		The following field is only generated for dynamic BERT types			
8	(8)	CHARACTER	8	$DGBTNAM	BERT type in EBCDIC
		MEMBER NAME --> $DGD ROUTINE(S) ---> $DOGDJB routine in HASPJQS ROUTINE(S) ---> DJBREAD routine in HASCSRIC MACRO(S) -----> $DOGDJB Deliver Or Get Duplicate Jobname Block			
4	(4)	BITSTRING	1	$DGDFLG1	$DOGDJB Macro options
		1...		$DGD1FET	"B'10000000'" ACTION=FETCH
		.1..		$DGD1FTN	"B'01000000'" ACTION=FETCHNEXT
		..1.		$DGD1UPD	"B'00100000'" ACTION=(...,UPDATE)
		...1		$DGD1NUP	"B'00010000'" ACTION=(...,NOUPDATE)
		.... 1...		$DGD1FRE	"B'00001000'" ACTION=FREE
		.... .1..		$DGD1BRO	"B'00000100'" MOREBERTS=NEVER
		.... ..1.		$DGD1CRE	"B'00000010'" ACTION=(FETCH,CREATE)
		1		$DGD1RES	"B'00000001'" ACTION=RESET
5	(5)	BITSTRING	1	$DGDFLG2	$DOGDJB Macro options
		1...		$DGD2ACC	"B'10000000'" ACTION=SETACCESS
		.1..		$DGD2CAC	"B'01000000'" CACHE=YES
		..1.		$DGD2WAI	"B'00100000'" WAIT=NO
		...1		$DGD2FST	"B'00010000'" Fast lookup eligible
		MEMBER NAME --> $DGG ROUTINE(S) ---> $DOGGRP routine in HASPXEQ MACRO(S) -----> $DOGGRP Deliver Or Get class group in support of 8 character jobclass.			
4	(4)	BITSTRING	1	$DGGFLG1	$DOGGRP Macro options
		1...		$DGG1CRE	"B'10000000'" ACTION=(FETCH,CREATE)
		.1..		$DGG1RED	"B'01000000'" ACTION=(FETCH,READ)
		..1.		$DGG1FET	"B'00100000'" ACTION=(FETCH...) UPDATE
		...1		$DGG1UPD	"B'00010000'" ACTION=(RETURN,UPDATE)
		.... 1...		$DGG1NUP	"B'00001000'" ACTION=(RETURN,NOUPDATE)
		.... .1..		$DGG1FRE	"B'00000100'" ACTION=FREE
		.... ..1.		$DGG1CKP	"B'00000010'" ACTION=CKPT
		1		$DGG1WAI	"B'00000001'" WAIT=NO
5	(5)	BITSTRING	1	$DGGFLG2	$DOGGRP Macro options
		1...		$DGG2FTN	"B'10000000'" ACTION=FETCHNEXT

Table 376. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		MEMBER NAME --> $DGV ROUTINE(S) ---> $DOGMIG routine in HASPSPOL MACRO(S) -----> $DOGMIG Deliver Or Get temporary migration object in support of spool volume migration.			
4	(4)	BITSTRING	1	$DGVFLG1	$DOGMIG Macro options
		1...		$DGV1FET	"B'10000000'" ACTION=(FETCH,UPDATE)
		.1..		$DGV1CRE	"B'01000000'" ACTION=(FETCH,CREATE)
		..1.		$DGV1RED	"B'00100000'" ACTION=(FETCH,READ)
		...1		$DGV1UPD	"B'00010000'" ACTION=(RETURN,UPDATE)
		.... 1...		$DGV1NUP	"B'00001000'" ACTION=(RETURN,NOUPDATE)
		.... .1..		$DGV1FRE	"B'00000100'" ACTION=FREE
		.... ..1.		$DGV1CKP	"B'00000010'" ACTION=CKPT
		1		$DGV1WAI	"B'00000001'" WAIT=NO
		MEMBER NAME --> $DGT ROUTINE(S) ---> $DOGCAT routine in HASPXEQ MACRO(S) -----> $DOGCAT Deliver Or Get Class Attribute Table			
4	(4)	BITSTRING	1	$DGTFLG1	$DOGCAT Macro options
		1...		$DGT1FET	"B'10000000'" ACTION=FETCH
		.1..		$DGT1FTN	"B'01000000'" ACTION=FETCHNEXT
		..1.		$DGT1UPD	"B'00100000'" ACTION=(...,UPDATE)
		...1		$DGT1STA	"B'00010000'" ACTION=(FETCHNEXT,READ, STALE)
		.... .1..		$DGT1AQS	"B'00000100'" ALLQUES=YES specified
		.... ..1.		$DGT1AQR	"B'00000010'" ALLQUES=(YES,REBLD)
		1		$DGT1TYP	"B'00000001'" TYPE= was specified
5	(5)	BITSTRING	1	$DGTFLG2	$DOGCAT Macro options
		1...		$DGT2BRO	"B'10000000'" MOREBERTS=NEVER
		.1..		$DGT2WAI	"B'01000000'" WAIT=NO
		..1.		$DGT2JBC	"B'00100000'" JOBCLASS= was specified
		...1		$DGT2CRE	"B'00010000'" ACTION=(FETCH,CREATE)
		.... 1...		$DGT2FRE	"B'00001000'" ACTION=FREE
		.... .1..		$DGT2CPY	"B'00000100'" GETCOPY was specified.
		.... ..1.		$DGT2BCH	"B'00000010'" BATCHONLY=YES specified
		MEMBER NAME --> $DGW ROUTINE(S) ---> $DOGWSCQ routine in HASPXEQ MACRO(S) -----> $DOGWSCQ Deliver Or Get Service Class Queue			

Table 376. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	BITSTRING	1	$DGWFLG1	$DOGWSCQ Macro options
		1...		$DGW1FET	"B'10000000'" ACTION=FETCH
		.1..		$DGW1FTN	"B'01000000'" ACTION=FETCHNEXT
		..1.		$DGW1UPD	"B'00100000'" ACTION=(...,UPDATE)
		...1		$DGW1NUP	"B'00010000'" ACTION=(...,NOUPDATE)
		.... 1...		$DGW1FRE	"B'00001000'" ACTION=FREE
		.... .1..		$DGW1CKP	"B'00000100'" ACTION=CKPT
		.... ..1.		$DGW1CRE	"B'00000010'" ACTION=(FETCH,CREATE)
		1		$DGW1BRO	"B'00000001'" MOREBERTS=NEVER
5	(5)	BITSTRING	1	$DGWFLG2	$DOGWSCQ Macro options
		1...		$DGW2WAI	"B'10000000'" WAIT=NO
MEMBER NAME --> $DSN ROUTINE(S) ---> DAATSET SET NAME VERIFICATION IN HASPSRDS MACRO(S) -----> $DSNVFY DESTINATION DEFINITION ROUTINE'S INLINE PARAMETER LIST.					
		....		DSNVALL	"B'00000000'" COMPLETE DATASET NAME VERIFICATION
		1...		DSNRONLY	"B'10000000'" RESERVE WORD ONLY VERIFICATION
MEMBER NAME --> $DSR ROUTINE(S) ---> GOFDSERV ROUTINE IN HASCSRIC MACRO(S) -----> $DSERV OBTAIN OR RELEASE A CHECKPOINT VERSION					
4	(4)	BITSTRING	1	$DSRFLG1	Flag byte 1
		1...		$DSR1GET	"B'10000000'" GET request
		.1..		$DSR1FRE	"B'01000000'" FREE request
		..1.		$DSR1LIV	"B'00100000'" Use "live" version
		...1		$DSR1RFR	"B'00010000'" Refresh non checkpoint resident data pointers
MEMBER NAME --> $DV ROUTINE(S) ---> CNVDEVID ROUTINE IN HASCSISC MACRO(S) -----> $DVIDBLD CONVERT A DEVID TO A DEVICE NAME					
4	(4)	BITSTRING	1	$DVFLG1	Flags
		1...		$DV1JQE	"B'10000000'" JQE address passed
		.1..		$DV1CHAR	"B'01000000'" CONV=CHAR specified
5	(5)	SIGNED	1	$DVLENG	Length of device name field
MEMBER NAME --> $EST ROUTINE(S) ---> SSISESTA in HASCLINK MACRO(S) -----> $ESTAE (assembler) $ESTAEP (PL/X) JES2 Establish ESTAE Inline Parameter List.					
4	(4)	BITSTRING	1	$ESTFCN	Requested function
		1...		$ESTCRAT	"B'10000000'" Create
		.1..		$ESTDLET	"B'01000000'" Delete
5	(5)	BITSTRING	1	$ESTFLAG	Flags

Table 376. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		$ESTFNDM	"B'10000000'" Do not capture dump
6	(6)	ADDRESS	4	$ESTRECX	Recovery exit addr if any
10	(A)	SIGNED	2	$ESTNBR	Number of retry addresses - currently always 1
12	(C)	ADDRESS	4	$ESTRTYA	Retry address
		MEMBER NAME --> EXI ROUTINE(S) ---> $JESEFF IN HASPNUC, USERSUB IN HASCSIRQ MACRO(S) -----> $EXIT JES2 EXIT EFFECTOR'S INLINE PARAMETER LIST.			
4	(4)	CHARACTER	8	EXITNAME	LABEL ON $EXIT OR CSECT NAME IF NO LABEL WAS SPECIFIED
12	(C)	BITSTRING	1	EXITFLGS	EXIT FLAGS
		The bits EXITUSER, EXITSTSK, EXITJES2 and EXITFSS have a one to one correspondence to the following bits in $TTE : TDXFENVU, TDXFENVS, TDXFENVJ and TDXFENVF. These bits MUST remain in the currently defined order.			
		1...		EXITTR	"B'10000000'" EXIT EFFECTOR SHOULD DO TRACE
		.1..		EXITUSER	"B'01000000'" USER ENVIRONMENT
		..1.		EXITSTSK	"B'00100000'" SUBTASK ENVIRONMENT
		...1		EXITJES2	"B'00010000'" JES2 ENVIRONMENT
		.... 1...		EXITFSS	"B'00001000'" FSS ENVIRONMENT
		.... .1..		EXITXPL	"B'00000100'" $XPL passed to exit
13	(D)	ADDRESS	1	EXITID	EXIT ID
14	(E)	ADDRESS	1	EXITMRC	MAXIMUM RETURN CODE
15	(F)	ADDRESS	1	EXITRSVD	RESERVED FOR FUTURE USE
15	(F)	X'C'	0	EXITLNG	"(*-PARMSTRT+1)/2*2" LENGTH OF EXIT PARAMETER LIST
		MEMBER NAME --> $FAC ROUTINE(S) ---> $FMTSACC in HASMIPSV MACRO(S) -----> $FMTSACC and $FMTSFMT $FMTSACC and $FMTSFMT inline parameter list			
4	(4)	CHARACTER	8	$FACSECT	Control section name
12	(C)	CHARACTER	8	$FACSEQF	Invoking sequence number
12	(C)	X'4'	0	$FACMOSQ	"$FACSECT,*-$FACSECT,C'C'" Module/sequence
		MEMBER NAME --> $FB ROUTINE(S) ---> $MLTFBUF IN HASCLINK MACRO(S) -----> $FREEBUF TYPE=MULT $FREEBUF'S INLINE PARAMETER LIST			
4	(4)	BITSTRING	1	$FBFLAG1	$FREEBUF OPTION FLAG 1
		1...		$FB1PROT	"B'10000000'" BUFFER TYPE=PROT
		..1.		$FB1HOLD	"B'00100000'" BUFFER TYPE=HOLD
5	(5)	BITSTRING	1		Reserved
6	(6)	SIGNED	2	$FBSTORP	Buffer chain offset
		Member name --> $FM Routine(s) ---> $FBUFRTN in HASCLINK Macro(s) -----> $CALL $FBUFRTN,INLINE= $FBUFRTN'S inline parameter list			

Table 376. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	BITSTRING	1	$FMFLAG1	$FBUFRTN option FLAG 1
		1...		$FM1$ERR	"B'10000000'" Issue $ERROR macro if unfreed buffers remain
		.1..		$FM1CLOS	"B'01000000'" Called out of DS CLOSE
		MEMBER NAME --> $FBM ROUTINE(S) ---> $FMTBLDM in HASMIPSV MACRO(S) -----> $FMTBLDM $FMTBLDM inline parameter list			
4	(4)	BITSTRING	1	$FBMFLG1	Flag byte 1
		1...		$FBM1INT	"B'10000000'" Initialize message
		.1..		$FBM1ADD	"B'01000000'" Add text to message
		..1.		$FBM1LAS	"B'00100000'" Last (issue message)
		...1		$FBM1MFL	"B'00010000'" Text is list form msg
		.... 1...		$FBM1TTB	"B'00001000'" Truncate trailing blanks
		.... .1..		$FBM1CNV	"B'00000100'" Data conversion or a standard text string if $FBM1MFL is also set
		.... ..1.		$FBM1ABB	"B'00000010'" Add blank before text/dat
		1		$FBM1ABA	"B'00000001'" Add blank after text/data
5	(5)	BITSTRING	1	$FBMFLG2	Flag byte 2
		1...		$FBM2RES	"B'10000000'" Reset message
		.1..		$FBM2MTB	"B'01000000'" Process $FMTMTAB
		..1.		$FBM2WID	"B'00100000'" Use wide message width
		...1		$FBM2IVA	"B'00010000'" Internal request via atab
		.... 1...		$FBM2IFI	"B'00001000'" Internal field info req
		.... .1..		$FBM2INA	"B'00000100'" Internal data specified
		.... ..1.		$FBM2ADJ	"B'00000010'" ADJUST= specified
		1		$FBM2TTZ	"B'00000001'" Truncate trailing zeroes
6	(6)	ADDRESS	1	$FBMCTYP	Conversion or std text type
------- Conversion types ----------					
6	(6)	X'1'	0	$FBMCTAD	"1" ADDRESS
6	(6)	X'2'	0	$FBMCTAS	"2" ASID
6	(6)	X'3'	0	$FBMCTAC	"3" ASID_COND
6	(6)	X'4'	0	$FBMCTDS	"4" DSPNAME
6	(6)	X'5'	0	$FBMCTDC	"5" DSPNAME_COND
6	(6)	X'6'	0	$FBMCTEP	"6" CHAR
6	(6)	X'7'	0	$FBMCTHX	"7" HEX
6	(6)	X'8'	0	$FBMCTRH	"8" HEXRAW
6	(6)	X'9'	0	$FBMCTKM	"9" KM
6	(6)	X'A'	0	$FBMCTOF	"10" OFFSET

Table 376. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
6	(6)	X'B'	0	$FBMCTSI	"11" SIGNINT
6	(6)	X'C'	0	$FBMCTSR	"12" SIGNINTRAW
6	(6)	X'D'	0	$FBMCTST	"13" STCK
6	(6)	X'E'	0	$FBMCTSE	"14" STCKE
6	(6)	X'F'	0	$FBMCTSM	"15" STCKE_MICRO
6	(6)	X'10'	0	$FBMCTUI	"16" UNSIGNINT
6	(6)	X'11'	0	$FBMCTUR	"17" UNSIGNINTRAW
6	(6)	X'12'	0	$FBMCTA8	"18" ADDRESS64
------- Standard text strings --------------------------------					
6	(6)	X'1'	0	$FBMCTPN	"1" NOTICE msg prefix
6	(6)	X'2'	0	$FBMCTPW	"2" WARNING msg prefix
6	(6)	X'3'	0	$FBMCTPE	"3" ERROR msg prefix
7	(7)	BITSTRING	1	$FBMID	Parameter list ID
		1... ...1		$FBMIDV	"X'81'" Parm list verification val
8	(8)	CHARACTER	8	$FBMSECT	Control section name
16	(10)	CHARACTER	8	$FBMSEQF	Invoking sequence number
16	(10)	X'14'	0	$FBMPLEN	"*-PARMSTRT" Length of parms to trace
MEMBER NAME --> $FDI ROUTINE(S) ---> $FMTDIAL in HASMIPSV MACRO(S) -----> $FMTDIAL $FMTDIAL inline parameter list					
4	(4)	ADDRESS	1	$FDITYPE	Type indicator byte
4	(4)	X'1'	0	$FDITCHR	"1" Character data
4	(4)	X'2'	0	$FDITHEX	"2" Hexadecimal data
4	(4)	X'3'	0	$FDITUSI	"3" Unsigned integer
5	(5)	BITSTRING	1		Reserved for future use
6	(6)	CHARACTER	8	$FDISECT	Control section name
14	(E)	CHARACTER	8	$FDISEQF	Invoking sequence number
MEMBER NAME --> $FEV ROUTINE(S) ---> $FMTENV in HASMIPSV MACRO(S) -----> $FMTENV $FMTENV inline parameter list					
4	(4)	ADDRESS	1	$FEVPVER	$FMTENV parm list version (Set in $FMTENV macro expansion and checked in service routine)
5	(5)	ADDRESS	1	$FEVREQ	Request type
5	(5)	X'1'	0	$FEVRCU	"1" CREATE request
5	(5)	X'2'	0	$FEVRDU	"2" DELETE request
5	(5)	X'3'	0	$FEVRCC	"3" COND_CREATE request
5	(5)	X'4'	0	$FEVRDC	"4" COND_DELETE request
6	(6)	BITSTRING	1	$FEVUSE	USE flags - Caution; bit tests use both TM and CLI
		1...		$FEVUIVE	"B'10000000'" Used as IPCS VERBEXIT
		.1..		$FEVUIFR	"B'01000000'" Used as IPCS FORMAT rtn
		..1.		$FEVUJDR	"B'00100000'" Used as JES2 DISPLAY_RTN
		...1		$FEVUNUL	"B'00010000'" Null USE

Table 376. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
7	(7)	BITSTRING	1	$FEVFLG1	Flag byte 1
		1...		$FEV1CSA	"B'10000000'" Issue cond $FMTSETA
8	(8)	ADDRESS	2	$FEVWVER	Current $IPCSWRK version #
10	(A)	CHARACTER	8	$FEVSECT	Control section name
18	(12)	CHARACTER	8	$FEVSEQF	Invoking sequence number
18	(12)	X'A'	0	$FEVMOSQ	"$FEVSECT,*-$FEVSECT,C'C'" Module/sequence
		MEMBER NAME --> $FGA ROUTINE(S) ---> $FMTGADR in HASMIPSV MACRO(S) -----> $FMTGADR $FMTGADR inline parameter list			
4	(4)	BITSTRING	1	$FGAFLG1	Flag byte 1
		1...		$FGA1LUP	"B'10000000'" Lookup a cb address
		.1..		$FGA1GNS	"B'01000000'" Setup for a cb set
		..1.		$FGA1GTN	"B'00100000'" Get next cb in a set
4	(4)	X'E0'	0	$FGA1STD	"$FGA1LUP+$FGA1GNS+$FGA1GTN" Standard call if any bit on
		...1		$FGA1EYE	"B'00010000'" Verify eye (cont if err)
		.... 1...		$FGA1ZPM	"B'00001000'" Issue msg if zero pointer
		.... .1..		$FGA1ACM	"B'00000100'" Issue msg if access error
5	(5)	BITSTRING	1		Reserved for future use
6	(6)	CHARACTER	8	$FGASECT	Control section name
14	(E)	CHARACTER	8	$FGASEQF	Invoking sequence number
14	(E)	X'12'	0	$FGAPLEN	"*-PARMSTRT" Length of parms to trace
		MEMBER NAME --> $FGF ROUTINE(S) ---> $FMTGFLD in HASMIPSV MACRO(S) -----> $FMTGFLD $FMTGFLD inline parameter list			
4	(4)	CHARACTER	8	$FGFSECT	Control section name
12	(C)	CHARACTER	8	$FGFSEQF	Invoking sequence number
		MEMBER NAME --> $FID ROUTINE(S) ---> FIFODEQ in HASCSRIC MACRO(S) -----> $FIFODEQ $FIFODEQ inline parameter list			
4	(4)	BITSTRING	1	$FIDFLG1	Flag byte 1
		1...		$FID1CNT	"B'10000000'" COUNT= specified
		.1..		$FID1ABN	"B'01000000'" ABENDERR=YES
5	(5)	BITSTRING	1		Reserved for future use
6	(6)	ADDRESS	2	$FIDCOFF	Chain field offset
		MEMBER NAME --> $FIE ROUTINE(S) ---> FIFOENQ in HASCSRIC MACRO(S) -----> $FIFOENQ $FIFOENQ inline parameter list			
4	(4)	BITSTRING	1	$FIEFLG1	Flag byte 1
		1...		$FIE1CNT	"B'10000000'" COUNT= specified

Table 376. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		$FIE1ABN	"B'01000000'" ABENDERR=YES
		..1.		$FIE1HEA	"B'00100000'" Add element to head
5	(5)	BITSTRING	1		Reserved for future use
6	(6)	ADDRESS	2	$FIECOFF	Chain field offset
		MEMBER NAME --> $FIG ROUTINE(S) ---> FIFOGTQ in HASCSRIC MACRO(S) -----> $FIFOGTQ $FIFOGTQ inline parameter list			
4	(4)	BITSTRING	1	$FIGFLG1	Flag byte 1
		1...		$FIG1CNT	"B'10000000'" COUNT= specified
5	(5)	BITSTRING	1		Reserved for future use
6	(6)	ADDRESS	2	$FIGCOFF	Chain field offset
		MEMBER NAME --> $FLE ROUTINE(S) ---> $FMTLERR in HASMIPSV MACRO(S) -----> $FMTLERR $FMTLERR inline parameter list			
4	(4)	BITSTRING	1	$FLEFLG1	Flag byte 1
		1...		$FLE1RC	"B'10000000'" Reason code provided
5	(5)	BITSTRING	1		Reserved for future use
6	(6)	CHARACTER	8	$FLESECT	Control section name
14	(E)	CHARACTER	8	$FLESEQF	Invoking sequence number
22	(16)	ADDRESS	4	$FLEAPAR	Addr of APARNUM symbol
		MEMBER NAME --> $FMS ROUTINE(S) ---> $FMTMSG in HASMIPSV MACRO(S) -----> $FMTMSG $FMTMSG inline parameter list			
4	(4)	BITSTRING	1	$FMSFLG1	Flag byte 1
		1...		$FMS1WID	"B'10000000'" Wide message width
		.1..		$FMS1BLN	"B'01000000'" Display blank line
		..1.		$FMS1CBL	"B'00100000'" Conditional blank line
		...1		$FMS1IND	"B'00010000'" Indentation requested
5	(5)	BITSTRING	1		Reserved for future use
6	(6)	CHARACTER	8	$FMSSECT	Control section name
14	(E)	CHARACTER	8	$FMSSEQF	Invoking sequence number
14	(E)	X'12'	0	$FMSPLEN	"*-PARMSTRT" Length of parms to trace
		MEMBER NAME --> $FPR ROUTINE(S) ---> $FMTPROC in HASMIPSV MACRO(S) -----> $FMTPROC $FMTPROC inline parameter list			
4	(4)	BITSTRING	1	$FPRFLG1	Flag byte 1
		1...		$FPR1MLT	"B'10000000'" Process MULTIPLE FMTCTABs
5	(5)	BITSTRING	1		Reserved for future use
6	(6)	CHARACTER	8	$FPRSECT	Control section name
14	(E)	CHARACTER	8	$FPRSEQF	Invoking sequence number

Table 376. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		MEMBER NAME --> $FRE ROUTINE(S) ---> $FREJLOK in HASPJQS MACRO(S) -----> $FREJLOK $FRELOK inline parameter list for TYPE=JOB			
4	(4)	BITSTRING	1	$FREFLG1	$FRELOK option flag
		1...		$FRE1NW	"B'10000000'" Cannot $WAIT
		.1..		$FRE1NTR	"B'01000000'" Do not take trace
		..1.		$FRE1JQA	"B'00100000'" Free JQA
		MEMBER NAME --> $FSA ROUTINE(S) ---> $FMTSETA in HASMIPSV MACRO(S) -----> $FMTSETA $FMTSETA inline parameter list			
4	(4)	CHARACTER	8	$FSASECT	Control section name
12	(C)	CHARACTER	8	$FSASEQF	Invoking sequence number
12	(C)	X'4'	0	$FSAMOSQ	"$FSASECT,*-$FSASECT,C'C'" Module/sequence
		MEMBER NAME --> $FST ROUTINE(S) ---> $FMTSTOR in HASMIPSV MACRO(S) -----> $FMTSTOR $FMTSTOR inline parameter list			
4	(4)	BITSTRING	1	$FSTFLG1	Flag byte 1
4	(4)	X'1'	0	$FST1GTU	"1" Get storage unconditional
4	(4)	X'2'	0	$FST1GTC	"2" Get storage conditional
4	(4)	X'3'	0	$FST1FRE	"3" Free storage
5	(5)	BITSTRING	1	$FSTFLG2	Flag byte 2
		1...		$FST2FAD	"B'10000000'" ADDR specified on free
		.1..		$FST2CTS	"B'01000000'" *CTAB_WORK
		..1.		$FST2CTM	"B'00100000'" *CTAB_WORK_LEVEL
		...1		$FST2PTS	"B'00010000'" *PARENT_CTAB_WORK
		.... 1...		$FST2PTM	"B'00001000'" *PARENT_CTAB_WORK_LEVEL
		.111 1...		$FST2TAB	"B'01111000'" Ctab related request
6	(6)	CHARACTER	8	$FSTSECT	Control section name
14	(E)	CHARACTER	8	$FSTSEQF	Invoking sequence number
		MEMBER NAME --> $FTB ROUTINE(S) ---> $FRETBUF IN HASCNJAS MACRO(S) -----> $FRETBUF $FRETBUF INLINE PARAMETER LIST			
4	(4)	BITSTRING	1	$FTBFLG1	$FRETBUF option flag
		1...		$FTB1CHN	"B'10000000'" CHAIN=YES specified
		Member name --> $FTR Routine(s) ---> $FRETRE in HASCLINK MACRO(s) -----> $FRETRE $FRETRE Inline parameter list			
4	(4)	BITSTRING	1	$FTRFLG1	$FRETRE option flag
		1...		$FTR1IOW	"B'10000000'" WAITIO=YES specified

Table 376. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		MEMBER NAME --> $FUC ROUTINE(S) ---> $FREUCBS IN HASPNUC MACRO(S) -----> $FREUCBS $FREUCBS' INLINE PARAMETER LIST			
4	(4)	BITSTRING	1	$FUCFLG1	$FREUCBS OPTION FLAG
		1...		$FUC1UNP	"B'10000000'" UNPIN=YES specified
		MEMBER NAME --> $GTA ROUTINE(S) ---> $GETABLE in HASPTABS MACRO(S) -----> $GETABLE $GETABLE routine inline parameter list			
4	(4)	BITSTRING	1	$GTATYPE	Table type (See $MITETBL for valid types)
5	(5)	BITSTRING	1	$GTAFLG1	Flag byte
		1...		$GTAH1ST	"B'10000000'" Run HASP tables first
		MEMBER NAME --> $GTB ROUTINE(S) ---> $GETBUFR IN HASPNUC MACRO(S) -----> $GETBUF $GETBUF'S INLINE PARAMETER LIST			
4	(4)	BITSTRING	1	$GTBFLG1	$GETBUF OPTION FLAG
		B'10000000' $GBUFWT used in $HASPEQU			
		1...		$GTB1WAT	"B'10000000'" Wait requested
		.1..		$GTB1FIX	"B'01000000'" Wait requested
		..1.		$GTB1MUL	"B'00100000'" Multiple buffers requested
		...1		$GTB1LOW	"B'00010000'" GET STORAGE BELOW 16MB
5	(5)	BITSTRING	1	$GTBFTYP	Buffer type flag
		MEMBER NAME --> $GTTB ROUTINE(S) ---> $GETTBUF IN HASCNJAS MACRO(S) -----> $GETTBUF $GETTBUF INLINE PARAMETER LIST			
4	(4)	BITSTRING	1	$GTTBUSE	USE= (See TBFTYPE for values in byte)
		MEMBER NAME --> GCMB ROUTINE(S) ---> $GETCMBR MACRO(S) -----> $GETCMB $GETCMB's inline parameter list			
4	(4)	BITSTRING	1	$GTCFLG1	$GETCMB option flag byte
		1...		$GTC1WAT	"B'10000000'" WAIT=YES requested
		.1..		$GTC1DMC	"B'01000000'" DEMANDCMB=YES specified
5	(5)	BITSTRING	1		Reserved for future use
		MEMBER NAME --> $GNH ROUTINE(S) ---> $GETNHB MACRO(S) -----> $GETNHB $GETNHB's inline parameter list			
4	(4)	BITSTRING	1	$GNHFLG1	$GETNHB option flag byte
		1...		$GNH1WAT	"B'10000000'" WAIT=YES requested

Table 376. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
5	(5)	BITSTRING	1		Reserved for future use
		MEMBER NAME --> $GUC ROUTINE(S) ---> $GETUCBS IN HASPNUC MACRO(S) -----> $GETUCBS $GETUCBS' INLINE PARAMETER LIST			
4	(4)	BITSTRING	1	$GUCFLG1	$GETUCBS OPTION FLAG
		1...		$GUC1CNT	"B'10000000'" CONT=YES specified
		.1..		$GUC1UNT	"B'01000000'" UNIT= specified
		MEMBER NAME --> $GC ROUTINE(S) ---> $GETCEL IN HASCLINK MACRO(S) -----> $GETCEL JES2 CSA CELL POOL GET ROUTINE ($GETCEL) PARAMETER LIST THIS PARM LIST VARIES IN LENGTH. IF THE SIZE= PARAMETER ON THE $GETCEL MACRO IS SPECIFIED IN REGISTER NOTATION, THEN REGISTER 2 IS LOADED WITH THE SIZE. OTHERWISE, THE THE SIZE OF THE CSA CELL TO OBTAIN IS PLACED AT THE END OF THE PARAMETER LIST.			
4	(4)	BITSTRING	1	$GCFLAG1	FLAG BYTE FOR $GETCEL
		1...		$GC1LPRM	"B'10000000'" LONG FORM OF VARIABLE PARM LIST
5	(5)	BITSTRING	1	$GCRSVRD	RESERVED FOR FUTURE USE
		VARIABLE PORTION OF THE $GETCEL PARAMETER LIST.			
6	(6)	ADDRESS	2	$GCSIZE	SIZE OF CSA CELL REQUESTED
		MEMBER NAME --> $GF ROUTINE(S) ---> $GFMAIN IN HASPNUC, $HGFMAIN IN HASCLINK MACRO(S) -----> $GETMAIN BRANCH ENTRY GETMAIN/FREEMAIN SERVICES INLINE PARM LIST.			
4	(4)	BITSTRING	1	$GFFLG3	$GETMAIN/$FREMAIN flag 3
		1...		$GF3LVR0	"B'10000000'" Indicate LV passed in R0
		.1..		$GF3BUFR	"B'01000000'" Indicate buffer get/free
		..1.		$GF3HTCB	"B'00100000'" Indicate TCB=HIGH
		...1		$GF3FREE	"B'00010000'" Indicate free main/buf
		.... 1...		$GF3TCBY	"B'00001000'" Indicate TCB=YES, TCB in R1
		.... .1..		$GF3JTCB	"B'00000100'" Indicate JOB STEP TCB
		.... ..1.		$GF3TCBK	"B'00000010'" Indicate TCBPKF used as key
		1		$GF3PSWK	"B'00000001'" Indicate PSW used as key
5	(5)	BITSTRING	1	$GFFLG4	$GETMAIN/$FREEMAIN flag 4
		1...		$GF4SPR0	"B'10000000'" Subpool passed in R0
		.1..		$GF4STOR	"B'01000000'" KEY=STORAGE for UBUFs only
		..1.		$GF4ZERO	"B'00100000'" ZEROSTOR=YES specified
		...1		$GF4NOLV	"B'00010000'" Subpool freemain (no LV=)

Table 376. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		$GF4BAKR	"B'00001000'" REGS=SYSTEM was specified
		.... .1..		$GF4OAUX	"B'00000100'" OWNER=AUX was specified
		.... ..1.		$GF4TCUR	"B'00000010'" TCB=CURRENT was specified
8	(8)	SIGNED	4	$GFLENV	$GETMAIN/$FREEMAIN length
		$GFFLG1 through $GFFLG2 are passed to the service in R15 and not in $PARMLST. These flags must match the register 3 value passed to branch entry GETMAIN/FREEMAIN			
12	(C)	BITSTRING	1	$GFFLG1	$GETMAIN/$FREEMAIN flag 1
		EQU B'10000000' Reserved EQU B'01000000' Reserved			
		..1.		$GF1AR15	"B'00100000'" AR 15 is in use
		...1		$GF1RS64	"B'00010000'" Indicate LOC=(,64)
		.... 1...		$GF1CHK0	"B'00001000'" Indicate CHECKZERO=YES
		EQU B'00000100' Reserved			
		....		$GF1OHOM	"B'00000000'" Indicate OWNER=HOME
		1		$GF1OPRI	"B'00000001'" Indicate OWNER=PRIMARY
		.... ..1.		$GF1OSEC	"B'00000010'" Indicate OWNER=SECONDARY
		11		$GF1OSYS	"B'00000011'" Indicate OWNER=SYSTEM
13	(D)	BITSTRING	1	$GFKEY	KEY STORAGE REQUESTED IN
14	(E)	BITSTRING	1	$GFSUBPL	SUBPOOL STORAGE REQUESTED IN
15	(F)	BITSTRING	1	$GFFLG2	$GETMAIN/$FREEMAIN flag 2
		EQU B'10000000' Reserved			
		.1..		$GF2RS31	"B'01000000'" Indicate LOC=(,31)
		..1.		$GF2LC31	"B'00100000'" Indicate LOC=31
		...1		$GF2LC24	"B'00010000'" Indicate LOC=24
		EQU B'00001000' Ind variable request			
		.... .1..		$GF2PGB	"B'00000100'" INDICATE BNDRY=PAGE
		.... ..1.		$GF2UNCD	"B'00000010'" INDICATE UNCONDITIONAL REQUEST
		1		$GF2FMN	"B'00000001'" INDICATE FREEMAIN
		MEMBER NAME --> $GETJLOK ROUTINE(S) ---> $GETJLOK in HASPJQS MACRO(S) -----> $GETJLOK $GETJLOK'S INLINE PARAMETER LIST			
4	(4)	BITSTRING	1	$GJLFLG1	$GETJLOK FLAG 1
		1...		$GJL1JQA	"B'10000000'" RETJQA=YES
		.1..		$GJL1WAI	"B'01000000'" WAIT=YES

Table 376. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		MEMBER NAME --> $IBL ROUTINE(S) ---> $IOTBLD IN HASCSRDS MACRO(S) -----> $IOTBLD $IOTBLD'S INLINE PARAMETER LIST			
4	(4)	BITSTRING	1	$IBFLAG1	$IOTBLD OPTION FLAG 1
		1...		$IB1DPDB	"B'10000000'" INDICATE TYPE=PDDB
		.1..		$IB1DSPN	"B'01000000'" INDICATE TYPE=SPIN
		..1.		$IB1D2ND	"B'00100000'" INDICATE TYPE=SECOND
		...1		$IB1DPRI	"B'00010000'" Indicate TYPE=PRIMARY
		.... 1...		$IB1DAUG	"B'00001000'" Indicate SPIN=DAUGHTER
		.... .1..		$IB1DSJI	"B'00000100'" Indicate SJIOB provided
		.... ..1.		$IB1DNCH	"B'00000010'" Indicate skip chaining of new IOT of TYPE=PDDB
5	(5)	BITSTRING	1		RESERVED FOR FUTURE USE
		MEMBER NAME --> $ICL ROUTINE(S) ---> $IOTCNT IN HASPNUC MACRO(S) -----> $IOTCNT $IOTCNT'S INLINE PARAMETER LIST			
4	(4)	BITSTRING	1	$ICFLAG1	$IOTBLD OPTION FLAG 1
		1...		$IC1LKNO	"B'10000000'" INDICATE LOCK=NO
		.1..		$IC1LOCK	"B'01000000'" INDICATE LOCK=YES
		..1.		$IC1IOT	"B'00100000'" IN STORAGE IOT ADDRESS IS SUPPLIED
		...1		$IC1JOE	"B'00010000'" R0 contains addr of JOE
		.... 1...		$IC1LFRE	"B'00001000'" LOCK=(YES,FREE) specified $IOTCNT should free lock
5	(5)	BITSTRING	1		RESERVED FOR FUTURE USE
		MEMBER NAME --> $JCN ROUTINE(S) ---> $JCANR IN HASPCOMM MACRO(S) -----> $JCAN $JCAN'S INLINE PARAMETER LIST			
4	(4)	BITSTRING	1	$JCNFLG1	$JCAN Flag
		1...		$JCN1PRO	"B'10000000'" Output Is Protected
		.1..		$JCN1TST	"B'01000000'" ACTION=TEST
		..1.		$JCN1TSU	"B'00100000'" TSU=NO
		...1		$JCN1CJ	"B'00010000'" Cancel job requestor
		.... 1...		$JCN1CJO	"B'00001000'" Cancel processing only
		Below are equates for parameters passed to the dilbert'd routine DILJCAN in AR1 that are translated into inline parameters listed above.			
		1		$DJCA1TS	"B'00000001'" TSU=NO
		.... ..1.		$DJCA1CJ	"B'00000010'" Cancel job requestor

Table 376. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		$DJCA1CO	"B'00000100'" Cancel processing only
		MEMBER NAME --> JOBCLASV ROUTINE(S) ---> JOBCLASV in HASCSRIP MACRO(S) -----> None JOBCLASV INLINE PARAMETER LIST			
4	(4)	BITSTRING	1	$JOBCLAV	JOBCLASV flag
		1...		$JCLSRM	"B'10000000'" Return SAF messages
		.1..		$JCLSNS	"B'01000000'" Do not check submitter
5	(5)	BITSTRING	1		RESERVED FOR FUTURE USE
		MEMBER NAME --> $#ADD ROUTINE(S) ---> $#ADD in HASPJOS MACRO(S) -----> $#ADD $#ADD caller requested JOA address be returned verses a real work JOE address,			
4	(4)	BITSTRING	1	$#ADDFLG	
		1...		$#ADDJOA	"B'10000000'" Caller of $#ADD requested an update mode JOA be returned verses a real work JOE address. This JOA/JOE was added to the JOT.
		MEMBER NAME --> $#DISPRO ROUTINE(S) ---> $#DISPRO in HASPJOS MACRO(S) -----> $#DISPRO $#DISPRO routine inline parameter list.			
4	(4)	BITSTRING	1	$#DSPFLG	$#DISPRO parameter flag
		1...		$#DSFJOA	"B'10000000'" If caller supplied JOA then free it. Default is to free.
		MEMBER NAME --> $#JWEL ROUTINE(S) ---> $#JWEL in HASPJOS MACRO(S) -----> $#JWEL $#JWEL routine inline parameter list.			
4	(4)	BITSTRING	1	$#JWLFLG	$#JWEL parameter flag
		1...		$#JLONG	"B'10000000'" Long form of device number
		.1..		$#JSERCH	"B'01000000'" Search for existing JWEL
		..1.		$#JPURGE	"B'00100000'" Purge all JWELs for JOE
		...1		$#JADD	"B'00010000'" Add a JWEL
		.... 1...		$#JFORCE	"B'00001000'" Force purge of JWEL chain
		.... .1..		$#JCOND	"B'00000100'" ADD or PURGE conditional
		.... ..1.		$#JALL	"B'00000010'" Made SEARCH match all JWELs
		1		$#JANY	"B'00000001'" Made SEARCH find any JWEL
5	(5)	BITSTRING	1	$#JWLFL2	Second $#JWEL parameter flg

Table 376. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		$#JDETCH	"B'10000000'" Detach JWEL chain
		.1..		$#JATTCH	"B'01000000'" Attach JWEL chain
		..1.		$#JINIT	"B'00100000'" INIT JWEL anchor
		...1		$#JANCHR	"B'00010000'" Determine JWEL anchor addr
		MEMBER NAME --> $#PUT ROUTINE(S) ---> $#PUT in HASPJOS MACRO(S) -----> $#PUT $#PUT routine inline parameter list.			
4	(4)	BITSTRING	1	$#PUTFLG	$#PUT parameter flag
		...1		$#PJWEL	"B'00010000'" Purge SAPI JWELs
		.... 1...		$#PFRJOA	"B'00001000'" If caller supplied JOA then free it. Default is to free.
		MEMBER NAME --> $LG ROUTINE(S) ---> $LOGMSG IN HASPSSRV MACRO(S) -----> $LOGMSG PLACING JOB RELATED MESSAGES INTO A JOB'S JOBLOG OR SYSMSG DATA SET. NOTE PARAMETER LIST VARIES IN LENGTH IN ORDER TO PHYSICALLY CONTAIN THE REQUESTOR'S EBCDIC NAME. THE LENGTH OF THE NAME IS IN FIELD $LG1TXTL.			
4	(4)	BITSTRING	1	$LGSUBP	SUBPOOL TO FREEMAIN MSGAREA
5	(5)	BITSTRING	1	$LGFLAG1	FLAG BYTE
		1...		$LG1MFRE	"B'10000000'" MSGFREE=YES WAS SPECIFIED
		.1..		$LG1WTO	"B'01000000'" WTO=YES WAS SPECIFIED
6	(6)	BITSTRING	1	$LG1TXTL	MACHINE LENGTH (LENGTH-1) OF REQUESTOR NAME
7	(7)	CHARACTER	1	$LGRQSTR	START OF REQUESTOR NAME
		MEMBER NAME --> $LV ROUTINE(S) ---> $TQLEVEL in HASPXCF MACRO(S) -----> $LEVEL			
4	(4)	BITSTRING	1	$LVFLAG1	Flag byte 1
		1...		$LV1QSE	"B'10000000'" QSE fields provided
		.1..		$LV1WAIT	"B'01000000'" Wait for homogeneity
5	(5)	BITSTRING	1	$LVQFLAG	QSE flag value to test
6	(6)	ADDRESS	2	$LVQOFF	Offset of QSE flag
		MEMBER NAME --> $BTM ROUTINE(S) ---> $BITMAP routine in HASCSRIC MACRO(S) -----> $BITMAP $BITMAP inline parameter list.			
4	(4)	SIGNED	1	$BTMACT	ACTION= requested
4	(4)	X'0'	0	$BTMCRT	"0" ACTION=CREATE
4	(4)	X'4'	0	$BTMDSTP	"4" ACTION=DESTROY_PRIVATE
4	(4)	X'8'	0	$BTMSET	"8" ACTION=SET
4	(4)	X'C'	0	$BTMRST	"12" ACTION=RESET
4	(4)	X'10'	0	$BTMTEST	"16" ACTION=TEST
4	(4)	X'14'	0	$BTMSON	"20" ACTION=SCANON
4	(4)	X'18'	0	$BTMSOFF	"24" ACTION=SCANOFF

Table 376. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	X'1C'	0	$BTMCLR	"28" ACTION=CLEAR
4	(4)	X'20'	0	$BTMSETR	"32" ACTION=SETRANGE
4	(4)	X'24'	0	$BTMTSRO	"36" ACTION=TESTRANGE_ON
4	(4)	X'28'	0	$BTMTSRF	"40" ACTION=TESTRANGE_OFF
4	(4)	X'2C'	0	$BTMDSTC	"44" ACTION=DESTROY_COMMON
5	(5)	BITSTRING	1	$BTMFLG	$BITMAP option flags
		1...		$BTMCRTC	"B'10000000'" For ACTION=CREATE: ON = (CREATE,COMMON) OFF = (CREATE,PRIVATE)
		.1..		$BTMCRON	"B'01000000'" For ACTION=CREATE: ON = (CREATE,..,INITON) OFF = (CREATE,..,INITOFF)
		..1.		$BTMNOAT	"B'00100000'" ATOMIC=NO was specified.
		...1		$BTMERCD	"B'00010000'" BOUNDARY_ABEND=CODE/ABEND ON = Return error code for boundary errors OFF = $ERROR on boundary errors.
		MEMBER NAME --> $JSMTSRV ROUTINE(S) ---> JSMTSRV in HASCSRDS MACRO(S) -----> $JSMTSRV			
4	(4)	BITSTRING	1	$JSMACTN	Action:
4	(4)	X'1'	0	$JSMACTA	"1" ACTION=ADD
4	(4)	X'2'	0	$JSMACTX	"2" ACTION=EXTRACT
5	(5)	BITSTRING	1	$JSMTBLF	Symbol table format:
5	(5)	X'1'	0	$JSMTBJS	"1" SYMTBLF=JESSYM
5	(5)	X'2'	0	$JSMTBCL	"2" SYMTBLF=JCLSYM
5	(5)	X'3'	0	$JSMTBSS	"3" SYMTBLF=SYSSYM
6	(6)	BITSTRING	1	$JSMSYMT	Symbol type:
6	(6)	X'1'	0	$JSMSYCV	"1" SYMTYPE=CNV
6	(6)	X'2'	0	$JSMSYIN	"2" SYMTYPE=INT
6	(6)	X'3'	0	$JSMSYAS	"3" SYMTYPE=ALTSYS
7	(7)	BITSTRING	1	$JSMFLGS	JSMTSRV options:
		1...		$JSMJQE	"B'10000000'" R0 points to JQE
		.1..		$JSMSJB	"B'01000000'" R0 points to SJB
		MEMBER NAME --> $JDN ROUTINE(S) ---> PROCJZDN routine in HASCJZDN MACRO(S) -----> $JZDN PROCJZDN inline parameter list.			
4	(4)	SIGNED	1	$JDNOPER	OPERATION= requested :
4	(4)	X'0'	0	$JDNCRTZ	"0" CREATE_ZOD
4	(4)	X'4'	0	$JDNADZE	"4" ADD_ZODERROR
4	(4)	X'8'	0	$JDNADOE	"8" ADD_ONERROR
4	(4)	X'C'	0	$JDNIJOB	"12" INSERT_JOB
4	(4)	X'10'	0	$JDNCRJS	"16" CREATE_JOBSET
4	(4)	X'14'	0	$JDNJSJO	"20" INSERT_JOBSET_JOB
4	(4)	X'18'	0	$JDNENJS	"24" END_JOBSET
4	(4)	X'1C'	0	$JDNADFA	"28" ADD_FLUSHACTION
4	(4)	X'20'	0	$JDNIDEP	"32" INSERT_DEP
4	(4)	X'24'	0	$JDNADWH	"36" ADD_WHEN
4	(4)	X'28'	0	$JDNADEA	"40" ADD_ENDACTION

Table 376. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	X'2C'	0	$JDNADOT	"44" ADD_OTHERWISE
4	(4)	X'30'	0	$JDNICON	"48" INSERT_CONCURRENT
4	(4)	X'34'	0	$JDNENDZ	"52" END_ZOD
4	(4)	X'38'	0	$JDNDESZ	"56" DESTROY_ZOD
4	(4)	X'3C'	0	$JDNCKZO	"60" CKPT_ZOD
4	(4)	X'40'	0	$JDNRJOB	"64" REGISTER_JOB
4	(4)	X'44'	0	$JDNPJOB	"68" PROCESS_JOB
4	(4)	X'48'	0	$JDNDELZ	"72" DELETE_ZOD
4	(4)	X'4C'	0	$JDNVERZ	"76" VERIFY_CKPT_ZOD
4	(4)	X'50'	0	$JDNDISZ	"80" DISPLAY_CKPT_ZOD
4	(4)	X'54'	0	$JDNCANZ	"84" CANCEL_ZOD
4	(4)	X'58'	0	$JDNPURZ	"88" PURGE_ZOD
4	(4)	X'5C'	0	$JDNCANJ	"92" CANCEL_JOB
4	(4)	X'60'	0	$JDNCHKJ	"96" CHECK_JOB
4	(4)	X'64'	0	$JDNCHKE	"100" CHECK_ELIGIBLE
4	(4)	X'68'	0	$JDNPURJ	"104" PURGE_JOB
4	(4)	X'6C'	0	$JDNZOST	"108" SET_ZOD_STATE
4	(4)	X'70'	0	$JDPRTRP	"112" PRINT_RPN
4	(4)	X'74'	0	$JDNPCON	"116" PROCESS_CONCUR_JOBS
4	(4)	X'78'	0	$JDNZAPZ	"120" ZAP_ZOD
5	(5)	BITSTRING	1	$JDNFLG	PROCJZDN option flags
		1...		$JDNDEPT	"B'10000000'" Specifies dependency type for INSERT_DEP operation: ON - BEFORE dependency OFF - AFTER dependency
		.1..		$JDNFACT	"B'01000000'" Specifies dependency type for FLUSHACTION= keyword: OFF - ALLFLUSH ON - ANYFLUSH
		..1.		$JDNPURG	"B'00100000'" CANCEL_ZOD ($JDNCANZ) operation purge option. OFF - Cancel only ON - Cancel with Purge
		...1		$JDNSCAN	"B'00010000'" Specifies caller type for OPERATION=DISPLAY_CKPT_ZOD OFF - non-SCAN caller ON - pre/postscan caller
		.... 1...		$JDNMZOD	"B'00001000'" Specifies caller type for OPERATION=DISPLAY_CKPT_ZOD for SCAN caller OFF - no memory object ON - build in-memory MZOD w/ZOD data
		.... .1..		$JDNSUSP	"B'00000100'" Specifies suspend or flush for CANCEL_JOB operation: OFF - Input job will be FLUSHED. ON - Input job will be SUSPENDED.

MEMBER NAME --> $MODCHK
ROUTINE(S) ---> $MODCHK in HASPCSV
MACRO(S) -----> $MODCHK

Table 376. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	BITSTRING	1	$MCFLAG1	Flag byte 1
		1...		$MCMSG	"B'10000000'" MESSAGE=YES specified
		.1..		$MCMSGS	"B'01000000'" MESSAGE=SUPPRESS specified
5	(5)	BITSTRING	1		Reserved
5	(5)	X'2'	0	$MCBYTES	"L'$MCTESTS" Number of bytes for test flags $MCBYTES*8 must be larger than or equal to $MCNTEST
6	(6)	BITSTRING	2	$MCTESTS	Test requested byte
6	(6)	BITSTRING	0	$MCRMD24	"B'1000000000000000'" Module below 16meg line
6	(6)	BITSTRING	0	$MCCOMMN	"B'0100000000000000'" Module in common storage
6	(6)	BITSTRING	0	$MCMIT	"B'0010000000000000'" Module large enough for MIT, MIT id valid, MITETBL in module
6	(6)	BITSTRING	0	$MCVERS	"B'0001000000000000'" HCT version=version in MIT
6	(6)	BITSTRING	0	$MCNAME	"B'0000100000000000'" Module name = name in MIT
6	(6)	BITSTRING	0	$MCPROPX	"B'0000010000000000'" Propagate $EXIT points to XIT table of defined exits
6	(6)	BITSTRING	0	$MCRSLVX	"B'0000001000000000'" Resolve exit routine addresses to XRT
6	(6)	BITSTRING	0	$MCTABL	"B'0000000100000000'" Process dynamic tables
		1...		$MCADDR	"B'0000000010000000'" Resolve routine addresses
		.1..		$MCDYNAM	"B'0000000001000000'" Supports dynamic commands
		..1.		$MCDELET	"B'0000000000100000'" Can the module be deleted
6	(6)	X'B'	0	$MCNTEST	"11" Number of tests now defined
		MEMBER NAME --> $MSTNTFY			
		ROUTINE(S) ---> $MSTNTFY in HASPSSRV			
		XCF PCE in HASPXCF			
		MACRO(S) -----> $MSTNTFY			
4	(4)	BITSTRING	1	$MSTTYPE	Flag byte 1
4	(4)	X'1'	0	$MSTSET	"1" TYPE=SET specified
4	(4)	X'2'	0	$MSTCLR	"2" TYPE=CLEAR specified
5	(5)	BITSTRING	1	$MSTFLG1	Flag byte 2
		1...		$MST1ECB	"B'10000000'" ECB was supplied
		.1..		$MST1EXT	"B'01000000'" EXITPGM was supplied
		..1.		$MST1EXP	"B'00100000'" EXITPRM was supplied
		MEMBER NAME --> $NATADD			
		ROUTINE(S) ---> $NATADD in HASPNATS			
		MACRO(S) -----> $NATADD			
		Nodes Attached Table ADD routine's inline parameter list.			

Table 376. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	BITSTRING	1	$NADSTAT	NAT queue to $NATADD element to (see NATCSTAT)
5	(5)	BITSTRING	1	$NADFLG1	$NATADD parameter flag
		1...		$NAD1NAT	"B'10000000'" Use prototype NAT element
		.1..		$NAD1NCC	"B'01000000'" Use prototype NCC record
		..1.		$NAD1STA	"B'00100000'" Add static connection
		...1		$NAD1CES	"B'00010000'" Bypass CES TIMETOL check
		MEMBER NAME --> $NATGET			
		ROUTINE(S) ---> $NATGET in HASPNATS			
		MACRO(S) -----> $NATGET			
		Nodes Attached Table GET routine's inline parameter list.			
4	(4)	BITSTRING	1	$NGTSTAT	NAT queue to $NATGET element from (see NATCSTAT)
5	(5)	BITSTRING	1	$NGTFLG1	$NATGET parameter flag
		1...		$NGT1NAT	"B'10000000'" Use prototype NAT element
		.1..		$NGT1NCC	"B'01000000'" Use prototype NCC record
		..1.		$NGT1TOK	"B'00100000'" Token provided to routine
		...1		$NGT1FST	"B'00010000'" Use Fast Path $NATGET
		MEMBER NAME --> $NATMOD			
		ROUTINE(S) ---> $NATMOD in HASPNATS			
		MACRO(S) -----> $NATMOD			
		Nodes Attached Table MODify routine's inline parameter list.			
4	(4)	BITSTRING	1	$NMDSTAT	NAT queue to $NATMOD element to (see NATCSTAT)
5	(5)	BITSTRING	1	$NMDFLG1	$NATMOD parameter flag 1
		1...		$NMD1NAT	"B'10000000'" Use prototype NAT element
		.1..		$NMD1NCC	"B'01000000'" Use prototype NCC record
		..1.		$NMD1FST	"B'00100000'" Use Fast Path $NATMOD
		...1		$NMD1STA	"B'00010000'" Modify STATIC connection
		.... 1...		$NMD1CES	"B'00001000'" Bypass CES TIMETOL check
		MEMBER NAME --> $NATNOT			
		ROUTINE(S) ---> $NATNOT in HASPNATS			
		MACRO(S) -----> $NATNOT			
		Nodes Attached Table NOTify routine's inline parameter list.			
4	(4)	BITSTRING	1	$NNTFLG1	$NATNOT parameter flag 1
		1...		$NNT1SET	"B'10000000'" TYPE=SET or TESTSET
		.1..		$NNT1TST	"B'01000000'" TYPE=TEST or TESTSET
		..1.		$NNT1NOT	"B'00100000'" NOTIFIED=YES

Table 376. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		$NNT1FST	"B'00010000'" PATH=FAST
		.... 1...		$NNT1MTR	"B'00001000'" Update MASTER notify map
		.... .1..		$NNT1MMA	"B'00000100'" SCOPE=MAS was specified
		MEMBER NAME --> $NATREM ROUTINE(S) ---> $NATREM in HASPNATS MACRO(S) -----> $NATREM Nodes Attached Table REMove routine's inline parameter list.			
4	(4)	BITSTRING	1	$NRMFLG1	$NATREM parameter flag 1
		1...		$NRM1STA	"B'10000000'" Remove static NAT
		.1..		$NRM1ALL	"B'01000000'" Remove all NATs
		MEMBER NAME --> $NHR ROUTINE(S) ---> NJEHDRCV in HASPNET MACRO(S) -----> $NHDRCV Network Header Receive routine's inline parameter list.			
4	(4)	BITSTRING	1	$NHRFLG1	$NHDRCV parameter flag 1
		1...		$NHR1XIT	"B'10000000'" Invoke exit 47 after recv
5	(5)	BITSTRING	1	$NHRSRCB	SRCB of received header
		MEMBER NAME --> $NHW ROUTINE(S) ---> NJEHDRWR in HASPNET MACRO(S) -----> $NHDWRT Network Header Write routine's inline parameter list.			
4	(4)	BITSTRING	1	$NHWFLG1	$NHDWRT parameter flag 1
		1...		$NHW1FRE	"B'10000000'" Free header after write
		.1..		$NHW1WAT	"B'01000000'" Wait for write to complete
		MEMBER NAME --> $NHX ROUTINE(S) ---> NJEHDXMT in HASPNET MACRO(S) -----> $NHDXMT Network Header Transmit routine's inline parameter list.			
4	(4)	BITSTRING	1	$NHXFLG1	$NHDXMT parameter flag 1
		1...		$NHX1FRE	"B'10000000'" Free header after xmit
		.1..		$NHX1XIT	"B'01000000'" Invoke exit 46 before xmit
5	(5)	BITSTRING	1	$NHXSRCB	SRCB of xmitted header
		MEMBER NAME --> $NSL ROUTINE(S) ---> $NSSTLOK in HASCNJAS MACRO(S) -----> $NSSTLOK Synchronize local and checkpointed NITs.			
4	(4)	BITSTRING	1	$NSLFLG1	$NSSTLOK parameter flag 1
		1...		$NSL1OBT	"B'10000000'" REQUEST=OBTAIN
		.1..		$NSL1WAT	"B'01000000'" WAIT=YES
		..1.		$NSL1SHR	"B'00100000'" SHARED=YES
		MEMBER NAME --> $NSY ROUTINE(S) ---> $NITSYNC in HASPNET MACRO(S) -----> $NITSYNC Synchronize local and checkpointed NITs.			

Table 376. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	BITSTRING	1	$NSYFLG1	$NITSYNC parameter flag 1
		1...		$NSY1REF	"B'10000000'" ACTION=(REFRESH,)
		.1..		$NSY1CMP	"B'01000000'" ACTION=(COMPARE,)
		..1.		$NSY1LOC	"B'00100000'" ACTION=(,LOCAL)
		...1		$NSY1CKP	"B'00010000'" ACTION=(,CKPT)
		.... 1...		$NSY1MSG	"B'00001000'" MESSAGE=YES
		.... .1..		$NSY1NIT	"B'00000100'" Update single NIT
	MEMBER NAME --> $NOT ROUTINE(S) ---> $NOTIFY in HASCSIRQ MACRO(S) -----> $NOTIFY Send a NJE notify message				
4	(4)	BITSTRING	1	$NOTFLG1	$NOTIFY parameter flag 1
		1...		$NOT1NJB	"B'10000000'" JOB=NO was specified
		.1..		$NOT1NUM	"B'01000000'" NODENUM was specified
		..1.		$NOT1JQE	"B'00100000'" JQE was specified
		...1		$NOT1NUS	"B'00010000'" USERID=NONE
		.... 1...		$NOT1MEM	"B'00001000'" MEMBER= was specified
	MEMBER NAME --> $PBL ROUTINE(S) ---> $PDBBLD IN HASCDSAL MACRO(S) -----> $PDBBLD BUID AND INITIALIZE A PDDB ROUTINE'S INLINE PARAMETER LIST.				
4	(4)	BITSTRING	1	$PBFLAG1	$PDBBLD MACRO OPTION FLAGS FOR USER ENVIRONMENT
		1...		$PB1DPDB	"B'10000000'" INDICATE TYPE=PDDB
		.1..		$PB1DSPN	"B'01000000'" INDICATE TYPE=SPIN
		..1.		$PB1DAUG	"B'00100000'" Indicate SPIN=DAUGHTER
5	(5)	BITSTRING	1		RESERVED FOR FUTURE USE
	Member name --> $PGS Routine(s) ---> $PGSRVC in HASPNUC Macro(s) -----> $PGSRVC $PGSRVC routine inline parameter list				
4	(4)	BITSTRING	1	$PGSFLG1	Flag byte
		1...		$PGSRVRL	"B'10000000'" RELEASE specified
		.1..		$PGSFIX	"B'01000000'" FIX specified
		..1.		$PGSFREE	"B'00100000'" FREE specified
		...1		$PGSRPSL	"B'00010000'" PSL (Page Serv List) passed
		.... 1...		$PGSRSSL	"B'00001000'" SSL (Short PSL) passed
		.... .1..		$PGSPRO	"B'00000100'" PROTECT specified
		.... ..1.		$PGSUPRO	"B'00000010'" UNPROTECT specified
5	(5)	BITSTRING	1		Reserved for future use
	MEMBER NAME --> $PRG ROUTINE(S) ---> $PURGER IN HASPTRAK MACRO(S) -----> $PURGE PURGER routine inline parameter list				

Table 376. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	BITSTRING	1	$PRGFLG1	Flag byte
		1...		$PRG1VFY	"B'10000000'" SAF verification required
		.1..		$PRG1ENF	"B'01000000'" Issue PURGE ENF
		..1.		$PRG1JOA	"B'00100000'" JOA address provided
		MEMBER NAME --> $PSQ ROUTINE(S) ---> XPOSTXEQ in HASPXEQ MACRO(S) -----> $POSTXEQ XPOSTXEQ routine inline parameter list			
4	(4)	BITSTRING	1	$PSQFLG1	Flag byte
		1...		$PSQ1MAS	"B'10000000'" Wake up all members of MAS
		.1..		$PSQ1JQE	"B'01000000'" Caller provided JQE in R1
		MEMBER NAME --> $PTA ROUTINE(S) ---> $PUTABLE in HASPTABS MACRO(S) -----> $PUTABLE $PUTABLE routine inline parameter list			
4	(4)	BITSTRING	1	$PTAFLG1	Flag byte
		1...		$PTA1MCT	"B'10000000'" Offset of $PAIR is in MCT
		.1..		$PTA1UCT	"B'01000000'" Offset of $PAIR is in UCT
		..1.		$PTA1CCT	"B'00100000'" Offset of $PAIR is in HCCT
		MEMBER NAME --> $QB ROUTINE(S) ---> $QBUSY in HASPJQS MACRO(S) -----> $QBUSY $QBUSY routines inline parameter list.			
4	(4)	BITSTRING	1	$QBSYFLG	$QBUSY parameter flag
		1...		$QBACTON	"B'10000000'" Set the busy bits for this JQE on
		.1..		$QBACTOF	"B'01000000'" Set the busy bits for this JQE off
		..1.		$QBTRACE	"B'00100000'" Trace this call
		...1		$QBREAL	"B'00010000'" Real JQE was passed
		.... 1...		$QBNALCT	"B'00001000'" Don't alter xeq class count
		.... .1..		$QBHVCAT	"B'00000100'" CAT passed in by caller
		.... ..1.		$QBDODEV	"B'00000010'" Set JQEDEVID from PCEDCT
		1		$QBDEVID	"B'00000001'" Set JQEDEVID from passed field
		MEMBER NAME --> $#B ROUTINE(S) ---> $#BUSY in HASPJOS MACRO(S) -----> $#BUSY $#BUSY routines inline parameter list.			
4	(4)	BITSTRING	1	$#BSYFLG	$#BUSY parameter flag

Table 376. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		$#BACTON	"B'10000000'" Set the busy bits for this JOE on
		.1..		$#BACTOF	"B'01000000'" Set the busy bits for this JOE off
		..1.		$#BTRACE	"B'00100000'" Trace this call
		...1		$#BREAL	"B'00010000'" Real JOE was passed
		.... 1...		$#BPOST	"B'00001000'" $#POST the JOE
		.... .1..		$#BDODEV	"B'00000100'" Set JOEDEVID from PCEDCT
		.... ..1.		$#BDEVID	"B'00000010'" Set JOEDEVID from passed field
		1		$#BCKPNO	"B'00000001'" No Checkpoint of JOE
5	(5) BITSTRING		1	$#BSYFL2	Second inline flag byte
		1...		$#BCKPON	"B'10000000'" Checkpoint only JOEBUSY and JOEDEVID
	MEMBER NAME --> $QRBDCHK ROUTINE(S) ---> $QRBDCHK in HASPJQS MACRO(S) -----> $QRBDCHK $QRBDCHK routines inline parameter list.				
4	(4) BITSTRING		1	$QRBDFLG	$QRBDCHK parameter flag
		1...		$QRQNONE	"B'10000000'" This JQE is currently not on a job queue
		.1..		$QRQOTH	"B'01000000'" This JQE is currently on an other queue
		..1.		$QRQRBLD	"B'00100000'" This JQE is currently on the rebuild queue
	MEMBER NAME --> $#RBDCHK ROUTINE(S) ---> $#RBDCHK in HASPJOS MACRO(S) -----> $#RBDCHK $#RBDCHK routines inline parameter list.				
4	(4) BITSTRING		1	$#RBDFLG	$#RBDCHK parameter flag
		1...		$#RQNONE	"B'10000000'" This JOE is currently not on an output queue
		.1..		$#RQRBLD	"B'01000000'" This JOE is currently on the rebuild queue
		..1.		$#RQOTH	"B'00100000'" This JOE is on one of the normal output queues
	MEMBER NAME --> QJQEVER ROUTINE(S) ---> QJQEVER in HASPJQS MACRO(S) -----> None QJQEVER routine inline parameter list.				
4	(4) BITSTRING		1	$QJVPFLG	QJQEVER parameter flag
		1...		$QJVALNF	"B'10000000'" Validate that this is not a free JQE
		.1..		$QJVRETC	"B'01000000'" Validate JQE and return RC(do not abend)
		..1.		$QJVNJQA	"B'00100000'" Do not allow if JQA

Table 376. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		MEMBER NAME --> $QSUSE ROUTINE(S) ---> $QSUSE in HASPNUC MACRO(S) -----> $QSUSE Obtain JES2 queues parameter list Note: Update both HASMPERF and the QSUCB DSECT in $PERFCB if this inline parameter list changes.			
4	(4)	BITSTRING	1	$QSUFLG1	$QSUSE parameter flag
		1...		$QSU1LUR	"B'10000000'" Passively wait for queues
		.1..		$QSU1NOI	"B'01000000'" Ensure no I/O active
5	(5)	BITSTRING	1		Reserved for future use
6	(6)	CHARACTER	8	$QSUSECT	Control Section name
14	(E)	CHARACTER	8	$QSUSEQF	Invoking seq number
14	(E)	X'16'	0	$QSUPLEN	"*-PARMLIST" Length of this parm list
		MEMBER NAME --> QTYPESET ROUTINE(S) ---> QTYPESET in HASPJQS MACRO(S) -----> None QTYPESET routine inline parameter list.			
4	(4)	BITSTRING	1	$QTYPFLG	QTYPESET parameter flag
		1...		$QTYALTE	"B'10000000'" Begin processing at the alternate spot (QTSTPRG)
		MEMBER NAME --> $#REP ROUTINE(S) ---> $#REP in HASPJOS MACRO(S) -----> $#REP $#REP routine inline parameter list.			
4	(4)	BITSTRING	1	$#REPFLG	$#REP parameter flag
		1...		$#REPW	"B'10000000'" Wait if JOT is full
		.1..		$#REPC	"B'01000000'" Copy JWELs from orig JOE
		.... 1...		$#REPREM	"B'00001000'" REMJOE was specified.
		MEMBER NAME --> $RET ROUTINE(S) ---> $CRETRN IN HASCLINK $RETURN IN HASPNUC FSMRETRN IN HASPFSSM MACRO(S) -----> $RETURN (assembler) $RETURNP (PL/X) COMMON RETURN SERVICE ROUTINE'S INLINE PARAMETER LIST.			
4	(4)	BITSTRING	1	$RETFLAG	$RETURN MACRO OPTION FLAGS FOR USER & SUBTASK ENVIRONMENT
		1...		$RETANY	"B'10000000'" (USER,ANY) ENVIRONMENT
		.1..		$RETPARM	"B'01000000'" PARM=YES WAS SPECIFIED
		..1.		$RETTRCD	"B'00100000'" Trace data passed
		 1111		$RETREG	"B'00001111'" Register in save area with return address (if not R14)
5	(5)	BITSTRING	1		Reserved

Table 376. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
6	(6)	BITSTRING	1	$RETTFLG	Trace data flags (see $SAVTFLG for bits)
7	(7)	BITSTRING	1	$RETTDAT	TRACE data address register
8	(8)	BITSTRING	1	$RETTLEN	TRACE data length
9	(9)	BITSTRING	1		Reserved
	MEMBER NAME --> $ROLL ROUTINE(S) ---> $ROLL in HASPEVTL MACRO(S) -----> $ROLL (assembler) $ROLL inline parameter list				
4	(4)	BITSTRING	1	$ROLLSRV	Trace caller Service ID 1
5	(5)	BITSTRING	1		Reserved
6	(6)	SIGNED	2	$ROLLOFF	HCT offset of Trace Tbl @
		....		$ROLJQEI	"X'02000000'" CTRACE format ID for JQEs
		....		$ROLJOEI	"X'03000000'" CTRACE format ID for JOEs
		....		$ROLDSPI	"X'04000000'" CTRACE format ID for DISPs
		....		$ROLSAPI	"X'05000000'" CTRACE format ID for SAPI
		....		$ROLCKPT	"X'06000000'" CTRACE format ID for CKPT
	MEMBER NAME --> $RQGT ROUTINE(S) ---> $RQUEGET IN HASCRQUE MACRO(S) -----> $RQUE $RQUE 'GET' INLINE PARAMETER LIST.				
4	(4)	BITSTRING	1	$RQGTFL1	Flag byte
		1...		$RQGT1RC	"B'10000000'" Recovery request
		.1..		$RQGT1VE	"B'01000000'" Veto routine provided
	MEMBER NAME --> $RRA ROUTINE(S) ---> $REROUTE IN HASPSERV MACRO(S) -----> $REROUTE REROUTE AUTHORIZATION INLINE PARAMETER LIST.				
4	(4)	BITSTRING	1	$RRAFLG1	$RRA FLAG BYTE
		1...		$RRA1JOB	"B'10000000'" REROUTE JOB REQUEST
	MEMBER NAME --> $RTA ROUTINE(S) ---> $RETABLE in HASPTABS MACRO(S) -----> $RETABLE $RETABLE routine inline parameter list				
4	(4)	BITSTRING	1	$RTAFLG1	Flag byte
		1...		$RTA1MCT	"B'10000000'" Offset of $PAIR is in MCT
		.1..		$RTA1UCT	"B'01000000'" Offset of $PAIR is in UCT
		..1.		$RTA1CCT	"B'00100000'" Offset of $PAIR is in HCCT
		.... ..1.		$RTA1FRY	"B'00000010'" Free DYNT YES specified

Table 376. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1		$RTA1FRN	"B'00000001'" Free DYNT NO specified Free DYNT COND both off
		MEMBER NAME --> $SAV ROUTINE(S) ---> $CSAVE IN HASCLINK $GETSAVE IN HASPNUC FSMSAVE IN HASPFSSM MACRO(S) -----> $SAVE (assembler) $SAVEP (PL/X) COMMON SAVE SERVICE ROUTINE'S INLINE PARAMETER LIST.			
4	(4)	BITSTRING	1	$SAVFLAG	$SAVE MACRO OPTION FLAGS FOR THE USER & SUBTASK ENVIRONMENT
		1...		$SAVTRC	"B'10000000'" TRACE THIS SAVE
		.1..		$SAVTRE	"B'01000000'" TRE WAS PROVIDED
		..1.		$SAVNRG	"B'00100000'" REGS=NO WAS PROVIDED
		...1		$SAVARS	"B'00010000'" SYSSTATE=AR at macro time
		.... 1...		$SAVANY	"B'00001000'" SYSSTATE=ANY at macro time
		.... .1..		$SAVUANY	"B'00000100'" $ENVIRON (USER,ANY)
		.... ..1.		$SAVTRCD	"B'00000010'" Trace data passed
		1		$SAVNRLS	"B'00000001'" Registers in linkage stack (and REGS=NO)
5	(5)	BITSTRING	1	$SAVFLG2	More option flags
		1...		$SAVAM64	"B'10000000'" SYSSTATE AMODE64=YES at macro time
		.1..		$SAVNO$W	"B'01000000'" Prohibit main task $WAITs
6	(6)	CHARACTER	8	$SAVNAME	EBCDIC LABEL
14	(E)	BITSTRING	1	$SAVTFLG	Trace data flags
		1...		$SAVTLRR	"B'10000000'" $SAVTLEN low half of reg
		.1..		$SAVTLHR	"B'01000000'" $SAVTLEN high half of reg
		..1.		$SAVTLAR	"B'00100000'" $SAVTLEN access register
		...1		$SAVTLOF	"B'00010000'" $SAVTLEN is an offset
		.... 1...		$SAVTDRR	"B'00001000'" $SAVTDAT low half of reg
		.... .1..		$SAVTDHR	"B'00000100'" $SAVTDAT high half of reg
		.... ..1.		$SAVTDAR	"B'00000010'" $SAVTDAT access register
15	(F)	BITSTRING	1	$SAVTDAT	TRACE data address register
16	(10)	BITSTRING	1	$SAVTLEN	TRACE data length
17	(11)	BITSTRING	1	$SAVAREG	Access regs (of 0,1,15) to save
		MEMBER NAME --> $SCD ROUTINE(S) ---> SCANDIAG IN HASCSCAN MACRO(S) -----> $SCANDIA $SCAN Diagnostic message routine			

Table 376. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	BITSTRING	1	$SCDFLG1	$SCANDIA MACRO OPTION FLAGS
		1...		$SCD1WAR	"B'10000000'" TYPE=WARN message
		Member name --> $SD Routine(s) ---> $SDUMP in HASPRAS MACRO(s) -----> $SDUMP $SDUMP service routine			
4	(4)	BITSTRING	1	$SDFLAG1	$SDUMP MACRO option flags
		1...		$SDHOME	"B'10000000'" Dump home address space
		.1..		$SDAPPND	"B'01000000'" Append passed title
		..1.		$SDDEFT	"B'00100000'" Generate only default title
		...1		$SDRETRN	"B'00010000'" If SDUMP fails, just return
		.... 1...		$SDWAIT	"B'00001000'" If SDUMP fails, WTOR/WAIT
		.... .1..		$SDXSYS	"B'00000100'" Dump other MAS members
		MEMBER NAME --> $SF ROUTINE(S) ---> $SJBFIND IN HASCSRJB MACRO(S) -----> $SJBFIND SUBSYSTEM JOB BLOCK FIND ROUTINE'S INLINE PARAMETER LIST.			
4	(4)	BITSTRING	1	$SFFLAG1	$SJBFIND MACRO OPTION FLAGS
		1...		$SF1LOJ	"B'10000000'" FIND THE LIFE OF JOB SJB
		.1..		$SF1SSIB	"B'01000000'" FIND THE SSIB SJB
		..1.		$SF1FRST	"B'00100000'" FIND THE FIRST SJB FOR THE A.S.
		...1		$SF1LAST	"B'00010000'" FIND THE LAST SJB FOR THE A.S.
		.... 1...		$SF1ASID	"B'00001000'" ASCB ASID PASSED IN R0
		MEMBER NAME --> $SJF ROUTINE(S) ---> $SJBFREE IN HASCSRJB MACRO(S) -----> $SJBFREE CLEANUP SJB RELATED STORAGE ROUTINE INLINE PARAMETER LIST.			
4	(4)	BITSTRING	1	$SJFLAG1	$SJBFREE MACRO OPTION FLAGS
		1...		$SJFNPVT	"B'10000000'" PRIVATE STORAGE NOT AVAILBL
		.1..		$SJFMEM	"B'01000000'" Dechain SJB, don't FREEMAIN
		MEMBER NAME --> $SIGIO ROUTINE(S) ---> $SIGIO in HASCSRDS and HASPSPOL MACRO(S) -----> $SIGIO Signature Record I/O parameter list			
4	(4)	BITSTRING	1	$SIGFLG1	$SIGIO parameter flag
		1...		$SIG1W	"B'10000000'" Write Signature record
		.1..		$SIG1R	"B'01000000'" Read Signature record

Table 376. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		$SIG1SKP	"B'00100000'" Skip invalid extents
		...1		$SIG1MQT	"B'00010000'" MQT= specified
		.... 1...		$SIG1VAV	"B'00001000'" Verify TG is available
		MEMBER NAME --> $SL ROUTINE(S) ---> $SJBLOCK IN HASCSRJB MACRO(S) -----> $SJBLOCK SUBSYSTEM JOB BLOCK LOCK ROUTINE'S INLINE PARAMETER LIST.			
4	(4)	BITSTRING	1	$SLFLAG1	$SJBLOCK MACRO OPTION FLAGS
		EQU B'10000000' RESERVED EQU B'01000000' RESERVED			
		..1.		$SL1RETN	"B'00100000'" RETURN TO CALLER IF SJB LOCK OWNER IS NON-DISPATCHABLE
		...1		$SL1WAIT	"B'00010000'" RETURN TO CALLER IF SJB LOCK IS NOT AVAILABLE (RC=16)
		.... 1...		$SL1ACPT	"B'00001000'" Return wih RC=4 if lock is already held by the same TCB
		MEMBER NAME --> $SPIN ROUTINE(S) ---> HFEXSPIN in HASCDSOC MACRO(S) -----> $SPIN Data set dynamic spin routine			
4	(4)	BITSTRING	1	$SPNFLG1	Option flags
		1...		$SPN1CY	"B'10000000'" Spin companion file too
		.1..		$SPN1NL	"B'01000000'" SDB lock not held
		MEMBER NAME --> $SU ROUTINE(S) ---> $SJBUNLK in HASCSRJB MACRO(S) -----> $SJBLOCK TYPE=FREE SJB Unlock routine's inline parameter list			
4	(4)	BITSTRING	1	$SUFLAG1	$SJBLOCK macro option flags
		1...		$SU1FREE	"B'10000000'" FREESJB=YES, free the SJB after unlocking it
		MEMBER NAME --> $SYMTT ROUTINE(S) ---> $SYMTT in HASCSRDS MACRO(S) -----> none SYMREC creation for sniffer			
4	(4)	BITSTRING	1	$SYMTTF1	$SYMTT parameter flag
4	(4)	X'1'	0	$SYM1SNF	"1" Trackgroup falsely thought to be unavail.
4	(4)	X'2'	0	$SYM1ALT	"2" Trackgroup falsely thought to be available by $TRACK
4	(4)	X'3'	0	$SYM1ALS	"3" Trackgroup falsely thought to be available by $STRAK
4	(4)	X'4'	0	$SYM1UNA	"4" Trackgroup being purged not owned by purging job
4	(4)	X'5'	0	$SYM1BLO	"5" Trackgroup which was in BLOB returned to service

Table 376. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	X'6'	0	$SYM1JQA	"6" JQASUMSK did not reflect sniffed track group
4	(4)	X'7'	0	$SYM1R0	"7" Key of first SPOOL block <> to signature key
		MEMBER NAME --> $TGMSET ROUTINE(S) ---> $TGMSET in HASPTRAK MACRO(S) -----> $TGMSET $TGMSET routine inline parameter list. NOTE: - $TGFLAG AND $TGFLAG2 MUST STAY TOGETHER!			
		Option flags			
4	(4)	BITSTRING	1	$TGFLAG	$TGMSET parameter flag
		1...		$TGCNTYS	"B'10000000'" COUNT=YES, Upd DAS counts
		..1.		$TGTTEST	"B'00100000'" TYPE=TEST, Test bit only
		...1		$TGTPSET	"B'00010000'" TYPE=SET, Set the bit only
4	(4)	X'30'	0	$TGTTSET	"$TGTTEST+$TGTPSET" TYPE=TESTSET, Test and set
		.... 1...		$TGQSYES	"B'00001000'" QSUSE=YES, get the QSUSE
		.... .1..		$TGSETON	"B'00000100'" SET=ON Turn bit on in map
		.... ..1.		$TGMMQT	"B'00000010'" MQT= was specified
		Flags for TGMTYPE=			
5	(5)	BITSTRING	1	$TGFLAG2	$TGMSET parameter flag
		1...		$TG2MAP	"B'10000000'" TGMTYPE=TGMAP specified
		.1..		$TG2BAD	"B'01000000'" TGMTYPE=TGBAD specified
		..1.		$TG2BTRK	"B'00100000'" TGMTYPE=BADTRTG specified
		...1		$TG2OTHR	"B'00010000'" TGMTYPE=OTHER specified
		MEMBER NAME --> $#TJEV ROUTINE(S) ---> $#TJEV in HASPJOS MACRO(S) -----> $#TJEV $#TJEV routine inline parameter list.			
4	(4)	BITSTRING	1	$#TJVFLG	$#TJEV parameter flag
		1...		$#TADD	"B'10000000'" Add JOE to exclusion vector
		.1..		$#TSERCH	"B'01000000'" Search for JOE in excl list
		..1.		$#TSERAN	"B'00100000'" Search for JOE in all lists
		...1		$#TPURGE	"B'00010000'" Purge JOE from all lists
		.... 1...		$#TMOVE	"B'00001000'" Move excl bit to new JOE

Table 376. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		MEMBER NAME --> $TRK ROUTINE(S) ---> $TRACK IN HASPTRAK, $STRAK IN HASCSRIC MACRO(S) -----> $TRACK SPOOL SPACE ALLOCATION ROUTINE'S INLINE PARAMETER LIST.			
4	(4)	BITSTRING	1	$TRFLAG1	$TRACK MACRO OPTION FLAGS
		.... 1...		$TR1SDB	"B'00001000'" SDB provided
		.... .1..		$TR1SJIO	"B'00000100'" SJIOB provided
		.... ..1.		$TR1WRPM	"B'00000010'" WRPRIM=NO, DON'T WRITE PRIMARY IOT
		1		$TR1WTNO	"B'00000001'" WAIT=NO, DO NOT WAIT FOR BLOBBING
5	(5)	BITSTRING	1		RESERVED FOR FUTURE USE
		MEMBER NAME --> TRP ROUTINE(S) ---> $TRACER IN HASCSRIC, HA$PEVTL IN HASPEVTL MACRO(S) -----> $TRACE JES2 EVENT TRACE LOG PROCESSOR INLINE PARAMETER LIST.			
4	(4)	BITSTRING	1	TRPID	TRACE ID
5	(5)	BITSTRING	1	TRPFLAG1	ENVIRON/TYPE-MOVED TO TTETRPET
		1...		TRP1USER	"B'10000000'" ENVIRON=USER
		.1..		TRP1STSK	"B'01000000'" ENVIRON=SUBTASK
		..1.		TRP1JES2	"B'00100000'" ENVIRON=JES2
		...1		TRP1FSS	"B'00010000'" ENVIRON=FSS
		EQU B'00001000' RESERVED FOR FUTURE USE EQU B'00000100' RESERVED FOR FUTURE USE EQU B'00000010' RESERVED FOR FUTURE USE			
		1		TRP1SPIN	"B'00000001'" SPIN THE LOG AT CURRENT TABLE
6	(6)	CHARACTER	8	TRPNAME	TRACE SYMBOL
		MEMBER NAME --> TSR ROUTINE(S) ---> $TOKENSR IN HASCSRIC MACRO(S) -----> $TOKENSR Name/Token Service parameter list			
4	(4)	BITSTRING	1	$TSRFLG1	Flags
		1...		$TSR1RET	"B'10000000'" RETRIEVE
		.1..		$TSR1DEL	"B'01000000'" DELETE
		..1.		$TSR1CRE	"B'00100000'" CREATE
		...1		$TSR1PRS	"B'00010000'" PERSIST=YES
		.... 1...		$TSR1CBA	"B'00001000'" CBADDR= was specified
		MEMBER NAME --> VALSCQJQ ROUTINE(S) ---> VALSCQJQ IN HASPRTAM MACRO(S) -----> Passes inline parameter list for $SCQJQE validation			
4	(4)	ADDRESS	1	$VSJFLAG	VALSCQJQ parameter flag
		1...		$RCPINIT	"B'10000000'" Remote console processor initialization

Table 376. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		MEMBER NAME --> $WT ROUTINE(S) ---> $WAIT IN HASPNUC MACRO(S) -----> $WAIT, $XECBSRV PCE WAIT MACRO INTERFACE TO THE JES2 DISPATCHER. Note: Update both HASMPERF and the WTCB DSECT in $PERFCB if this inline parameter list changes.			
4	(4)	BITSTRING	1	$WTFLAG1	$WAIT MACRO OPTION FLAGS
		1...		$WT1RES	"B'10000000'" $WAIT FOR A RESOURCE
		.1..		$WT1XECB	"B'01000000'" $WAIT ON AN EXTENDED ECB
		..1.		$WT1RETN	"B'00100000'" $WAIT IS TO RETURN WITHOUT WAITING (USED BY $XECBSRV)
		...1		$WT1INHN	"B'00010000'" INHIBIT=NO specified on $WAIT call (ie ignore $WTINHBT)
		.... 1...		$WT1MCLR	"B'00001000'" PERFDATA monitor caller id
5	(5)	BITSTRING	1	$WTINHBT	INHIBITOR (PREVENTS REDISPATCHING PCE BEFORE SPECIFIC $POST)
6	(6)	CHARACTER	8	$WTCSECT	Control Section name
14	(E)	CHARACTER	8	$WTSEQF	Invoking seq number
22	(16)	ADDRESS	2	$WTRESQO	RESOURCE QUEUE OFFSET OR 0
22	(16)	X'18'	0	$WTPLEN	"*-PARMLIST" Length of this parm list
		MEMBER NAME --> $WS ROUTINE(S) ---> SRVWSCAN IN HASPSERV MACRO(S) -----> $WSSCAN SCAN THE WS OPERAND AND CREATE A WORK SELECTION LIST PARAMETER LIST			
4	(4)	ADDRESS	1	$WSLISTL	
		MEMBER NAME --> $WSU ROUTINE(S) ---> SRVSETUP IN HASPSERV MACRO(S) -----> $WSSETUP SCAN THE WS OPERAND AND CREATE A WORK SELECTION LIST PARAMETER LIST			
4	(4)	ADDRESS	1	$VOLFLD	DEVICE VOLUME FIELD
5	(5)	ADDRESS	1	$VOLNMFD	DEVICE VOLUME NUMBER FIELD
6	(6)	ADDRESS	1	$WSFLGOF	Work selection flag offset
7	(7)	BITSTRING	1	$WSTYPE	CB type passed
7	(7)	X'0'	0	$WSTUNK	"0" Unknown CB type
7	(7)	X'1'	0	$WSTWSP	"1" WSP was passed
		MEMBER NAME --> $WR ROUTINE(S) ---> $WTOC or $WTOR in HASPCON MACRO(S) -----> $WTO JES2 Main task environment $WTO inline parameter list. The code in HASPCON depends on this parm list being in this order.			
4	(4)	ADDRESS	1	$WRPFLAG	WTO inline parm. flag byte
4	(4)	X'5'	0	$WREXEND	"*" End of execute form parameter list
5	(5)	ADDRESS	1	$WRTYPE	WTO type

Table 376. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
6	(6)	ADDRESS	1	$WRCLSPR	Class (high order 4 bits), Priority (low order 4 bits)
7	(7)	ADDRESS	1	$WRROUTE	WTO Routing Information
8	(8)	ADDRESS	1	$WRLEN	Message Length
9	(9)	BITSTRING	1	$WRLINTP	MLWTO line type
9	(9)	X'A'	0	$WRSTEND	"*" End of standard form parameter list
MEMBER NAME --> $WT ROUTINE(S) ---> $PREWTO IN HASCSRIC MACRO(S) -----> $WTO USER AND SUBTASK ENVIRONMENT $WTO INLINE PARAMETER LIST.					
4	(4)	ADDRESS	1	$WTPFLAG	JES2 Parameter flag byte
5	(5)	ADDRESS	1	$WTCLASS	JES2 DESCRIPTOR CODE
6	(6)	ADDRESS	1	$WTROUTE	JES2 ROUTE CODE
7	(7)	BITSTRING	1	$WTLINTP	MLWTO line type
$WTO IN-LINE PARAMETER FLAGS $WRPFLAG and $WTPFLAG. For $WTPFLAG only $WTOJOBY and $WTODOMT are processed.					
		1...		$WTOSTDL	"B'10000000'" STANDARD OR LIST FORM $WTO, CMB TEMPLATE FOLLOWS DIRECTLY
		.1..		$WTOCMBL	"B'01000000'" MF=EX SPECIFIED (LONG CMB TMPL)
		..1.		$WTOJOBY	"B'00100000'" JOB=YES SPECIFIED
		...1		$WTOWAIT	"B'00010000'" WAIT=YES SPECIFIED
		.... 1...		$WTOLNR0	"B'00001000'" MESSAGE LENGTH IN R0 (BYTE 3)
		.... .1..		$WTODOMT	"B'00000100'" Delete outstanding action message if task terminates
		.... ..1.		$WTODMND	"B'00000010'" Use $GETCMB DEMANDCMB=YES if necessary
		.... ..1.		$WTOAJSB	"B'00000010'" Use address space level JSAB (User/subtask environment)
		1		$WTOTEXT	"B'00000001'" TEXT= specified on $WTO (implies R0 - CONNECT and R1 - TEXT)
$WRROUTE - Logical console definitions					
		1		$LOG	"X'01'" SYSTEM LOG CONSOLE
		.... ..1.		$ERR	"X'02'" ERROR CONSOLE MCS ROUTING CODE=(10)
		.... .1..		$UR	"X'04'" UNIT RECORD OPERATIONS AREA MCS ROUTING CODE=(7)
		.... 1...		$TP	"X'08'" TELE-PROCESSING OPERATIONS MCS ROUTING CODE=(8)
		...1		$TAPE	"X'10'" TAPE HANDLING OPERATIONS MCS ROUTING CODE=(3,4,5,6)
		..1.		$MAIN	"X'20'" CHIEF OPERATORS AREA MCS ROUTING CODE=(1,2)

Table 376. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		$SEC	"X'40'" SYSTEM SECURITY MCS ROUTING CODE=(9)
		1...		$SPARE1	"X'80'" SPARE 1 MCS ROUTING CODE=(14)
		.111 1111		$ALL	"X'7F'" ALL UNRESERVED LOCAL CONS.
		$WTROUTE - Logical console definitions for user or JES2 subtask environment.			
		$LOG EQU X'01' SYSTEM LOG CONSOLE (DEFINED ABOVE)			
		$ERR EQU X'02' ERROR CONSOLE (DEFINED ABOVE)			
		.... .1..		$MCINFO	"X'04'" MASTER CONSOLE INFORMATION
		.... 1...		$PGINFO	"X'08'" PROGRAMMER INFORMATION
		$WTCLASS or $WRCLSPR Message Class Definitions - High order 4 bits. (Only those bits should be used to maintain network compatability due to this byte being part of the NJE architecture). In the main task, only $DOMACT has meaning, which determines whether the the message is descriptor code 2 (when on) or 4 (when off). Priority - Low order 4 bits. Only used by $WRCLSPR.			
		...1		$TRIVIA	"X'10'" NON-ESSENTIAL MESSAGES
		..11		$NORMAL	"X'30'" NORMAL MESSAGES
		.1..		$JOBSTAT	"X'40'" JOB STATUS MESSAGES
		.1.1		$ACTION	"X'50'" MESSAGES REQUIRING OPERATOR ACTION
		.111		$ALWAYS	"X'70'" MESSAGES WHICH SHOULD ALWAYS BE SENT
		1...		$DOMACT	"X'80'" ACTION REQUIRING A $DOM FLAG
7	(7)	X'1'	0	$LO	"1" LOW PRIORITY
7	(7)	X'4'	0	$ST	"4" STANDARD PRIORITY
7	(7)	X'7'	0	$HI	"7" HIGH PRIORITY
		MEMBER NAME --> $VWP ROUTINE(S) ---> VALWTOPL IN HASPCON MACRO(S) -----> PASSES THE MODULE NAME AND FUNCTION ID THRU THE INLINE PARAMETER LIST. FOR $SYMREC GENERATION			
4	(4)	CHARACTER	8	$VWPMODN	MODULE NAME PARAMETER 1
12	(C)	CHARACTER	8	$VWPFUNC	FUNCTION ID PARAMETER 2
		MEMBER NAME --> $XM ROUTINE(S) ---> $XMPOST IN HASCSRIC MACRO(S) -----> $XMPOST CROSS MEMORY POST SERVICE ROUTINE INLINE PARAMETER LIST			
4	(4)	BITSTRING	1	$XMFLAG1	FLAG 1
		1...		$XM1XMP	"B'10000000'" CROSS MEMORY PLIST WAS PASSED
		.1..		$XM1QUIK	"B'01000000'" QUICK POSTING IS ALLOWED
		..1.		$XM1COMP	"B'00100000'" COMPLETION CODE WAS CODED

Table 376. Structure PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		$XM1LPST	"B'00010000'" Parm list mapping that enables lost POST detection being used
		.... 1...		$XM1STKN	"B'00001000'" STOKEN= was specified
		.... .1..		$XM1TTKN	"B'00000100'" TTOKEN= was specified
		.... ..1.		$XM1NPST	"B'00000010'" TERM_TCB=NOPOST specified
		ROUTINE(S) ---> $ZGLLMSG in HASCSRAX Equates for jobgroup log formatting options (in bits 0-31 of R15)			
		1		$ZGLLAMN	"B'00000001'" Add JES2 member name
		.... ..1.		$ZGLLASN	"B'00000010'" Add MVS system name
		.... .1..		$ZGLLALT	"B'00000100'" Add local time 'hh.mm.ss'
		.... 1...		$ZGLLAUT	"B'00001000'" Add UTC time 'hh.mm.ss'
		...1		$ZGLLWKA	"B'00010000'" Address of 256 byte work area is in R2
		..1.		$ZGLLTMS	"B'00100000'" Message timestamp is in R3 (bits 0-63)

Table 377. Cross Reference for $PARMLST

Name	Offset	Hex Tag
$$POFLG1	4	
$$PO1BRA	4	80
$$PO1BR3	4	8
$$PO1ELM	4	20
$$PO1RUN	4	10
$$PO1SYS	4	40
$#ADDFLG	4	
$#ADDJOA	4	80
$#BACTOF	4	40
$#BACTON	4	80
$#BCKPNO	4	1
$#BCKPON	5	80
$#BDEVID	4	2
$#BDODEV	4	4
$#BPOST	4	8
$#BREAL	4	10
$#BSYFLG	4	
$#BSYFL2	5	
$#BTRACE	4	20
$#DSFJOA	4	80
$#DSPFLG	4	
$#JADD	4	10

Table 377. Cross Reference for $PARMLST (continued)

Name	Offset	Hex Tag
$#JALL	4	2
$#JANCHR	5	10
$#JANY	4	1
$#JATTCH	5	40
$#JCOND	4	4
$#JDETCH	5	80
$#JFORCE	4	8
$#JINIT	5	20
$#JLONG	4	80
$#JPURGE	4	20
$#JSERCH	4	40
$#JWLFLG	4	
$#JWLFL2	5	
$#PFRJOA	4	8
$#PJWEL	4	10
$#PUTFLG	4	
$#RBDFLG	4	
$#REPC	4	40
$#REPFLG	4	
$#REPREM	4	8
$#REPW	4	80
$#RQNONE	4	80
$#RQOTH	4	20
$#RQRBLD	4	40
$#TADD	4	80
$#TJVFLG	4	
$#TMOVE	4	8
$#TPURGE	4	10
$#TSERAN	4	20
$#TSERCH	4	40
$ACTION	7	50
$AEOJFL1	4	
$AEOJ1EM	4	40
$AEOJ1JT	4	80
$ALL	7	7F
$ALWAYS	7	70
$BTGBMQR	4	20
$BTGBMTR	4	80
$BTGBTGM	4	40
$BTGFLG1	4	
$BTMACT	4	
$BTMCLR	4	1C
$BTMCRON	5	40
$BTMCRT	4	0
$BTMCRTC	5	80
$BTMDSTC	4	2C
$BTMDSTP	4	4
$BTMERCD	5	10
$BTMFLG	5	

Table 377. Cross Reference for $PARMLST (continued)

Name	Offset	Hex Tag
$BTMNOAT	5	20
$BTMRST	4	C
$BTMSET	4	8
$BTMSETR	4	20
$BTMSOFF	4	18
$BTMSON	4	14
$BTMTEST	4	10
$BTMTSRF	4	28
$BTMTSRO	4	24
$CBCKPTB	7	
$CBCKPTF	C	
$CBIFLG1	4	
$CBIFLG2	5	
$CBISECT	16	
$CBISEQF	1E	
$CBSPOLP	A	
$CBSTORP	8	
$CBVERID	E	
$CBVERIX	12	
$CB1COND	4	1
$CB1EXIT	4	40
$CB1FREE	4	4
$CB1NOVF	4	20
$CB1NSJB	4	10
$CB1SJIO	4	8
$CB1WAIT	4	2
$CB2FSSM	5	20
$CB2MQTR	5	8
$CB2NORF	5	2
$CB2SPLQ	5	4
$CB2SUPM	5	10
$CB2TWAT	5	40
$CB2WRIT	5	80
$CDCFLG1	5	
$CDCTAPT	4	2
$CDCTCDC	4	5
$CDCTDCT	4	1
$CDCTRAT	4	4
$CDCTSCK	4	3
$CDCTXRQ	4	6
$CDCTYPE	4	
$CDC1BRC	5	4
$CDC1BRO	5	20
$CDC1CRE	5	80
$CDC1INV	5	10
$CDC1SYN	5	40
$CDC1VAL	5	8
$CFXFLG1	4	
$CFX1RSP	4	80

Table 377. Cross Reference for $PARMLST (continued)

Name	Offset	Hex Tag
$CKADEF	4	20
$CKANEW	4	40
$CKAOLD	4	80
$CKAPARF	4	
$CKPARMF	4	
$CKPID	6	
$CKPPOST	4	80
$CKPUNK	4	40
$CKQRTN	4	
$CKSADDM	4	3
$CKSDELM	4	4
$CKSFLG1	5	
$CKSOPT	4	5
$CKSREQ	4	
$CKSSTOP	4	2
$CKSSTRT	4	1
$CKS1ALL	5	80
$CKS1LVC	5	40
$CKS1XRQ	5	20
$CMSFBTH	4	C0
$CMSFCMS	4	40
$CMSFFLG	4	
$CMSFLOC	4	80
$CMSGBTH	4	C0
$CMSGCMS	4	40
$CMSGFLG	4	
$CMSGLOC	4	80
$CPL1	4	
$CPL1CDY	4	80
$CPL1HXN	4	40
$CRJFLG1	4	
$CRJ1ALC	4	20
$CRJ1CLR	4	8
$CRJ1FRE	4	10
$CWTOFLG	4	
$CWTOLST	4	40
$CWTOMVC	4	80
$CWTONWT	4	20
$DGBACT	4	
$DGBCAT	6	2
$DGBCB	6	
$DGBCKPT	4	3
$DGBDYN	6	FF
$DGBFLAG	5	
$DGBFLG2	7	
$DGBFREE	4	5
$DGBFTCH	4	1
$DGBINT	6	0
$DGBJQE	6	1

Table 377. Cross Reference for $PARMLST (continued)

Name	Offset	Hex Tag
$DGBNAME	5	10
$DGBNEXT	4	2
$DGBNRDD	5	1
$DGBNUPD	5	2
$DGBQSUS	5	40
$DGBRETN	4	4
$DGBSPEC	5	4
$DGBSTSP	4	6
$DGBTNAM	8	
$DGBTOKN	5	8
$DGBUPDT	5	20
$DGBWAIT	5	80
$DGBWSCQ	6	3
$DGB2CRE	7	80
$DGB2NEV	7	8
$DGB2PAD	7	20
$DGB2PBE	7	10
$DGB2UNC	7	4
$DGB2UNK	7	40
$DGDFLG1	4	
$DGDFLG2	5	
$DGD1BRO	4	4
$DGD1CRE	4	2
$DGD1FET	4	80
$DGD1FRE	4	8
$DGD1FTN	4	40
$DGD1NUP	4	10
$DGD1RES	4	1
$DGD1UPD	4	20
$DGD2ACC	5	80
$DGD2CAC	5	40
$DGD2FST	5	10
$DGD2WAI	5	20
$DGGFLG1	4	
$DGGFLG2	5	
$DGG1CKP	4	2
$DGG1CRE	4	80
$DGG1FET	4	20
$DGG1FRE	4	4
$DGG1NUP	4	8
$DGG1RED	4	40
$DGG1UPD	4	10
$DGG1WAI	4	1
$DGG2FTN	5	80
$DGTFLG1	4	
$DGTFLG2	5	
$DGT1AQR	4	2
$DGT1AQS	4	4
$DGT1FET	4	80

Table 377. Cross Reference for $PARMLST (continued)

Name	Offset	Hex Tag
$DGT1FTN	4	40
$DGT1STA	4	10
$DGT1TYP	4	1
$DGT1UPD	4	20
$DGT2BCH	5	2
$DGT2BRO	5	80
$DGT2CPY	5	4
$DGT2CRE	5	10
$DGT2FRE	5	8
$DGT2JBC	5	20
$DGT2WAI	5	40
$DGVFLG1	4	
$DGV1CKP	4	2
$DGV1CRE	4	40
$DGV1FET	4	80
$DGV1FRE	4	4
$DGV1NUP	4	8
$DGV1RED	4	20
$DGV1UPD	4	10
$DGV1WAI	4	1
$DGWFLG1	4	
$DGWFLG2	5	
$DGW1BRO	4	1
$DGW1CKP	4	4
$DGW1CRE	4	2
$DGW1FET	4	80
$DGW1FRE	4	8
$DGW1FTN	4	40
$DGW1NUP	4	10
$DGW1UPD	4	20
$DGW2WAI	5	80
$DILCVER	5	1
$DILFLG1	6	
$DILFLG2	7	
$DILF1#P	6	1
$DILF1CL	6	80
$DILF1FL	6	10
$DILF1IM	6	40
$DILF1ND	6	4
$DILF1PO	6	8
$DILF1QP	6	2
$DILF1WA	6	20
$DILF2CK	7	10
$DILF2FN	7	4
$DILF2FP	7	2
$DILF2FT	7	1
$DILF2GM	7	8
$DILF2PA	7	80
$DILF2QS	7	40

Table 377. Cross Reference for $PARMLST (continued)

Name	Offset	Hex Tag
$DILF2SP	7	20
$DILIMME	8	
$DILTJOE	4	2
$DILTJQE	4	1
$DILTYPE	4	
$DILVERS	5	
$DJACKPT	0	10
$DJACT	0	
$DJAFET	0	4
$DJAFETN	0	0
$DJAFLD	0	24
$DJAFREE	0	18
$DJALOCK	0	8
$DJAQLOK	0	20
$DJAREFR	0	14
$DJARET	0	C
$DJASETA	0	1C
$DJCA1CJ	4	2
$DJCA1CO	4	4
$DJCA1TS	4	1
$DJCHAIN	6	
$DJCVER	3	2
$DJFLAG2	1	
$DJFLAG3	2	
$DJFLAG4	4	
$DJFLAG5	5	
$DJLEN	6	8
$DJVERS	3	
$DJXFJAX	5	40
$DJXFLGS	5	
$DJXFNCK	5	20
$DJXFWT	5	80
$DJXREQ	4	
$DJXRQCK	4	3
$DJXRQCR	4	1
$DJXRQFE	4	2
$DJXRQFR	4	5
$DJXRQRS	4	6
$DJXRQRT	4	4
$DJ2CONF	1	8
$DJ2DSRV	1	80
$DJ2KEEP	1	20
$DJ2NWAT	1	10
$DJ2POST	1	4
$DJ2SPCL	1	40
$DJ2UCON	1	2
$DJ2URFR	1	1
$DJ3#PSY	2	4
$DJ3MAX	2	2

Table 377. Cross Reference for $PARMLST (continued)

Name	Offset	Hex Tag
$DJ3NUPD	2	10
$DJ3QPSY	2	8
$DJ3RCVY	2	1
$DJ3READ	2	80
$DJ3RELE	2	40
$DJ3WDEF	2	20
$DOACKPT	1	C
$DOACT	1	
$DOACTOR	6	
$DOAFET	1	4
$DOAFETN	1	0
$DOAFLD	1	10
$DOAFREE	1	18
$DOAQLOK	1	1C
$DOAREFR	1	14
$DOARET	1	8
$DOASETA	1	20
$DOCHAIN	6	
$DOCKLEN	8	
$DOCKOFF	6	
$DOCVER	0	1
$DOFLAG2	2	
$DOFLAG3	3	
$DOFLAG4	4	
$DOFLAG5	5	
$DOLEN	8	A
$DOMACT	7	80
$DOVERS	0	
$DO2CONF	2	4
$DO2DSRV	2	80
$DO2NROL	2	2
$DO2NWAT	2	10
$DO2RCVY	2	1
$DO2READ	2	20
$DO2SPCL	2	40
$DO2WDEF	2	8
$DO3KEEP	3	40
$DO3MAX	3	2
$DO3NUPD	3	10
$DO3POST	3	1
$DO3QLOB	3	8
$DO3RELE	3	80
$DO3UCON	3	20
$DO4#PSY	4	40
$DO4KPJW	4	20
$DO4MNJT	4	10
$DSDFLG1	4	
$DSDFLG2	5	
$DSD2FOR	5	80

Table 377. Cross Reference for $PARMLST (continued)

Name	Offset	Hex Tag
$DSRFLG1	4	
$DSR1FRE	4	40
$DSR1GET	4	80
$DSR1LIV	4	20
$DSR1RFR	4	10
$DSTCHAR	4	80
$DSTFLG1	4	
$DSTFLG2	5	
$DSTGNRC	4	20
$DSTNRP	4	8
$DSTNSPR	4	1
$DSTPRIM	4	4
$DSTRDT	4	40
$DSTUSER	4	2
$DST1EXP	4	10
$DST2DFM	5	40
$DST2IGN	5	80
$DST2IGS	5	8
$DST2IPD	5	4
$DST2IPY	5	10
$DST2NUS	5	20
$DST2NVU	5	2
$DTRFLG1	4	
$DTRMASD	4	2
$DTRMQTR	4	4
$DTRNAME	6	
$DTRRECV	1E	
$DTRRJCT	4	40
$DTRRJQE	4	80
$DTRRNAM	4	10
$DTRRND	4	20
$DTRRSIG	4	8
$DTRSECT	E	
$DTRSEQ	16	
$DVFLG1	4	
$DVLENG	5	
$DV1CHAR	4	40
$DV1JQE	4	80
$ERR	7	2
$ESTCRAT	4	80
$ESTDLET	4	40
$ESTFCN	4	
$ESTFLAG	5	
$ESTFNDM	5	80
$ESTNBR	A	
$ESTRECX	6	
$ESTRTYA	C	
$FACMOSQ	C	4
$FACSECT	4	

Table 377. Cross Reference for $PARMLST (continued)

Name	Offset	Hex Tag
$FACSEQF	C	
$FBFLAG1	4	
$FBMCTAC	6	3
$FBMCTAD	6	1
$FBMCTAS	6	2
$FBMCTA8	6	12
$FBMCTDC	6	5
$FBMCTDS	6	4
$FBMCTEP	6	6
$FBMCTHX	6	7
$FBMCTKM	6	9
$FBMCTOF	6	A
$FBMCTPE	6	3
$FBMCTPN	6	1
$FBMCTPW	6	2
$FBMCTRH	6	8
$FBMCTSE	6	E
$FBMCTSI	6	B
$FBMCTSM	6	F
$FBMCTSR	6	C
$FBMCTST	6	D
$FBMCTUI	6	10
$FBMCTUR	6	11
$FBMCTYP	6	
$FBMFLG1	4	
$FBMFLG2	5	
$FBMID	7	
$FBMIDV	7	81
$FBMPLEN	10	14
$FBMSECT	8	
$FBMSEQF	10	
$FBM1ABA	4	1
$FBM1ABB	4	2
$FBM1ADD	4	40
$FBM1CNV	4	4
$FBM1INT	4	80
$FBM1LAS	4	20
$FBM1MFL	4	10
$FBM1TTB	4	8
$FBM2ADJ	5	2
$FBM2IFI	5	8
$FBM2INA	5	4
$FBM2IVA	5	10
$FBM2MTB	5	40
$FBM2RES	5	80
$FBM2TTZ	5	1
$FBM2WID	5	20
$FBSTORP	6	
$FB1HOLD	4	20

Table 377. Cross Reference for $PARMLST (continued)

Name	Offset	Hex Tag
$FB1PROT	4	80
$FDISECT	6	
$FDISEQF	E	
$FDITCHR	4	1
$FDITHEX	4	2
$FDITUSI	4	3
$FDITYPE	4	
$FEVFLG1	7	
$FEVMOSQ	12	A
$FEVPVER	4	
$FEVRCC	5	3
$FEVRCU	5	1
$FEVRDC	5	4
$FEVRDU	5	2
$FEVREQ	5	
$FEVSECT	A	
$FEVSEQF	12	
$FEVUIFR	6	40
$FEVUIVE	6	80
$FEVUJDR	6	20
$FEVUNUL	6	10
$FEVUSE	6	
$FEVWVER	8	
$FEV1CSA	7	80
$FGAFLG1	4	
$FGAPLEN	E	12
$FGASECT	6	
$FGASEQF	E	
$FGA1ACM	4	4
$FGA1EYE	4	10
$FGA1GNS	4	40
$FGA1GTN	4	20
$FGA1LUP	4	80
$FGA1STD	4	E0
$FGA1ZPM	4	8
$FGFSECT	4	
$FGFSEQF	C	
$FIDCOFF	6	
$FIDFLG1	4	
$FID1ABN	4	40
$FID1CNT	4	80
$FIECOFF	6	
$FIEFLG1	4	
$FIE1ABN	4	40
$FIE1CNT	4	80
$FIE1HEA	4	20
$FIGCOFF	6	
$FIGFLG1	4	
$FIG1CNT	4	80

Table 377. Cross Reference for $PARMLST (continued)

Name	Offset	Hex Tag
$FLEAPAR	16	
$FLEFLG1	4	
$FLESECT	6	
$FLESEQF	E	
$FLE1RC	4	80
$FMFLAG1	4	
$FMSFLG1	4	
$FMSPLEN	E	12
$FMSSECT	6	
$FMSSEQF	E	
$FMS1BLN	4	40
$FMS1CBL	4	20
$FMS1IND	4	10
$FMS1WID	4	80
$FM1$ERR	4	80
$FM1CLOS	4	40
$FPRFLG1	4	
$FPRSECT	6	
$FPRSEQF	E	
$FPR1MLT	4	80
$FREFLG1	4	
$FRE1JQA	4	20
$FRE1NTR	4	40
$FRE1NW	4	80
$FSAMOSQ	C	4
$FSASECT	4	
$FSASEQF	C	
$FSTFLG1	4	
$FSTFLG2	5	
$FSTSECT	6	
$FSTSEQF	E	
$FST1FRE	4	3
$FST1GTC	4	2
$FST1GTU	4	1
$FST2CTM	5	20
$FST2CTS	5	40
$FST2FAD	5	80
$FST2PTM	5	8
$FST2PTS	5	10
$FST2TAB	5	78
$FTBFLG1	4	
$FTB1CHN	4	80
$FTRFLG1	4	
$FTR1IOW	4	80
$FUCFLG1	4	
$FUC1UNP	4	80
$GCFLAG1	4	
$GCRSVRD	5	
$GCSIZE	6	

Table 377. Cross Reference for $PARMLST (continued)

Name	Offset	Hex Tag
$GC1LPRM	4	80
$GFFLG1	C	
$GFFLG2	F	
$GFFLG3	4	
$GFFLG4	5	
$GFKEY	D	
$GFLENV	8	
$GFSUBPL	E	
$GF1AR15	C	20
$GF1CHK0	C	8
$GF1OHOM	C	0
$GF1OPRI	C	1
$GF1OSEC	C	2
$GF1OSYS	C	3
$GF1RS64	C	10
$GF2FMN	F	1
$GF2LC24	F	10
$GF2LC31	F	20
$GF2PGB	F	4
$GF2RS31	F	40
$GF2UNCD	F	2
$GF3BUFR	4	40
$GF3FREE	4	10
$GF3HTCB	4	20
$GF3JTCB	4	4
$GF3LVR0	4	80
$GF3PSWK	4	1
$GF3TCBK	4	2
$GF3TCBY	4	8
$GF4BAKR	5	8
$GF4NOLV	5	10
$GF4OAUX	5	4
$GF4SPR0	5	80
$GF4STOR	5	40
$GF4TCUR	5	2
$GF4ZERO	5	20
$GJLFLG1	4	
$GJL1JQA	4	80
$GJL1WAI	4	40
$GNHFLG1	4	
$GNH1WAT	4	80
$GTAFLG1	5	
$GTAH1ST	5	80
$GTATYPE	4	
$GTBFLG1	4	
$GTBFTYP	5	
$GTB1FIX	4	40
$GTB1LOW	4	10
$GTB1MUL	4	20

Table 377. Cross Reference for $PARMLST (continued)

Name	Offset	Hex Tag
$GTB1WAT	4	80
$GTCFLG1	4	
$GTC1DMC	4	40
$GTC1WAT	4	80
$GTTBUSE	4	
$GUCFLG1	4	
$GUC1CNT	4	80
$GUC1UNT	4	40
$HI	7	7
$IBFLAG1	4	
$IB1DAUG	4	8
$IB1DNCH	4	2
$IB1DPDB	4	80
$IB1DPRI	4	10
$IB1DSJI	4	4
$IB1DSPN	4	40
$IB1D2ND	4	20
$ICFLAG1	4	
$IC1IOT	4	20
$IC1JOE	4	10
$IC1LFRE	4	8
$IC1LKNO	4	80
$IC1LOCK	4	40
$JCLSNS	4	40
$JCLSRM	4	80
$JCNFLG1	4	
$JCN1CJ	4	10
$JCN1CJO	4	8
$JCN1PRO	4	80
$JCN1TST	4	40
$JCN1TSU	4	20
$JDNADEA	4	28
$JDNADFA	4	1C
$JDNADOE	4	8
$JDNADOT	4	2C
$JDNADWH	4	24
$JDNADZE	4	4
$JDNCANJ	4	5C
$JDNCANZ	4	54
$JDNCHKE	4	64
$JDNCHKJ	4	60
$JDNCKZO	4	3C
$JDNCRJS	4	10
$JDNCRTZ	4	0
$JDNDELZ	4	48
$JDNDEPT	5	80
$JDNDESZ	4	38
$JDNDISZ	4	50
$JDNENDZ	4	34

Table 377. Cross Reference for $PARMLST (continued)

Name	Offset	Hex Tag
$JDNENJS	4	18
$JDNFACT	5	40
$JDNFLG	5	
$JDNICON	4	30
$JDNIDEP	4	20
$JDNIJOB	4	C
$JDNJSJO	4	14
$JDNMZOD	5	8
$JDNOPER	4	
$JDNPCON	4	74
$JDNPJOB	4	44
$JDNPURG	5	20
$JDNPURJ	4	68
$JDNPURZ	4	58
$JDNRJOB	4	40
$JDNSCAN	5	10
$JDNSUSP	5	4
$JDNVERZ	4	4C
$JDNZAPZ	4	78
$JDNZOST	4	6C
$JDPRTRP	4	70
$JOBCLAV	4	
$JOBSTAT	7	40
$JSMACTA	4	1
$JSMACTN	4	
$JSMACTX	4	2
$JSMFLGS	7	
$JSMJQE	7	80
$JSMSJB	7	40
$JSMSYAS	6	3
$JSMSYCV	6	1
$JSMSYIN	6	2
$JSMSYMT	6	
$JSMTBCL	5	2
$JSMTBJS	5	1
$JSMTBLF	5	
$JSMTBSS	5	3
$LGFLAG1	5	
$LGRQSTR	7	
$LGSUBP	4	
$LG1MFRE	5	80
$LG1TXTL	6	
$LG1WTO	5	40
$LO	7	1
$LOG	7	1
$LVFLAG1	4	
$LVQFLAG	5	
$LVQOFF	6	
$LV1QSE	4	80

Table 377. Cross Reference for $PARMLST (continued)

Name	Offset	Hex Tag
$LV1WAIT	4	40
$MAIN	7	20
$MCADDR	6	80
$MCBYTES	5	2
$MCCOMMN	6	4000
$MCDELET	6	20
$MCDYNAM	6	40
$MCFLAG1	4	
$MCINFO	7	4
$MCMIT	6	2000
$MCMSG	4	80
$MCMSGS	4	40
$MCNAME	6	800
$MCNTEST	6	B
$MCPROPX	6	400
$MCRMD24	6	8000
$MCRSLVX	6	200
$MCTABL	6	100
$MCTESTS	6	
$MCVERS	6	1000
$MSTCLR	4	2
$MSTFLG1	5	
$MSTSET	4	1
$MSTTYPE	4	
$MST1ECB	5	80
$MST1EXP	5	20
$MST1EXT	5	40
$NADFLG1	5	
$NADSTAT	4	
$NAD1CES	5	10
$NAD1NAT	5	80
$NAD1NCC	5	40
$NAD1STA	5	20
$NGTFLG1	5	
$NGTSTAT	4	
$NGT1FST	5	10
$NGT1NAT	5	80
$NGT1NCC	5	40
$NGT1TOK	5	20
$NHRFLG1	4	
$NHRSRCB	5	
$NHR1XIT	4	80
$NHWFLG1	4	
$NHW1FRE	4	80
$NHW1WAT	4	40
$NHXFLG1	4	
$NHXSRCB	5	
$NHX1FRE	4	80
$NHX1XIT	4	40

Table 377. Cross Reference for $PARMLST (continued)

Name	Offset	Hex Tag
$NMDFLG1	5	
$NMDSTAT	4	
$NMD1CES	5	8
$NMD1FST	5	20
$NMD1NAT	5	80
$NMD1NCC	5	40
$NMD1STA	5	10
$NNTFLG1	4	
$NNT1FST	4	10
$NNT1MMA	4	4
$NNT1MTR	4	8
$NNT1NOT	4	20
$NNT1SET	4	80
$NNT1TST	4	40
$NORMAL	7	30
$NOTFLG1	4	
$NOT1JQE	4	20
$NOT1MEM	4	8
$NOT1NJB	4	80
$NOT1NUM	4	40
$NOT1NUS	4	10
$NRMFLG1	4	
$NRM1ALL	4	40
$NRM1STA	4	80
$NSLFLG1	4	
$NSL1OBT	4	80
$NSL1SHR	4	20
$NSL1WAT	4	40
$NSYFLG1	4	
$NSY1CKP	4	10
$NSY1CMP	4	40
$NSY1LOC	4	20
$NSY1MSG	4	8
$NSY1NIT	4	4
$NSY1REF	4	80
$PBFLAG1	4	
$PB1DAUG	4	20
$PB1DPDB	4	80
$PB1DSPN	4	40
$PGINFO	7	8
$PGSFIX	4	40
$PGSFLG1	4	
$PGSFREE	4	20
$PGSPRO	4	4
$PGSRPSL	4	10
$PGSRSSL	4	8
$PGSRVRL	4	80
$PGSUPRO	4	2
$PRGFLG1	4	

Table 377. Cross Reference for $PARMLST (continued)

Name	Offset	Hex Tag
$PRG1ENF	4	40
$PRG1JOA	4	20
$PRG1VFY	4	80
$PSQFLG1	4	
$PSQ1JQE	4	40
$PSQ1MAS	4	80
$PTAFLG1	4	
$PTA1CCT	4	20
$PTA1MCT	4	80
$PTA1UCT	4	40
$QBACTOF	4	40
$QBACTON	4	80
$QBDEVID	4	1
$QBDODEV	4	2
$QBHVCAT	4	4
$QBNALCT	4	8
$QBREAL	4	10
$QBSYFLG	4	
$QBTRACE	4	20
$QJVALNF	4	80
$QJVNJQA	4	20
$QJVPFLG	4	
$QJVRETC	4	40
$QRBDFLG	4	
$QRQNONE	4	80
$QRQOTH	4	40
$QRQRBLD	4	20
$QSUFLG1	4	
$QSUPLEN	E	16
$QSUSECT	6	
$QSUSEQF	E	
$QSU1LUR	4	80
$QSU1NOI	4	40
$QTYALTE	4	80
$QTYPFLG	4	
$RCPINIT	4	80
$RETANY	4	80
$RETFLAG	4	
$RETPARM	4	40
$RETREG	4	F
$RETTDAT	7	
$RETTFLG	6	
$RETTLEN	8	
$RETTRCD	4	20
$ROLCKPT	6	0
$ROLDSPI	6	0
$ROLJOEI	6	0
$ROLJQEI	6	0
$ROLLOFF	6	

Table 377. Cross Reference for $PARMLST (continued)

Name	Offset	Hex Tag
$ROLLSRV	4	
$ROLSAPI	6	0
$RQGTFL1	4	
$RQGT1RC	4	80
$RQGT1VE	4	40
$RRAFLG1	4	
$RRA1JOB	4	80
$RTAFLG1	4	
$RTA1CCT	4	20
$RTA1FRN	4	1
$RTA1FRY	4	2
$RTA1MCT	4	80
$RTA1UCT	4	40
$SAVAM64	5	80
$SAVANY	4	8
$SAVAREG	11	
$SAVARS	4	10
$SAVFLAG	4	
$SAVFLG2	5	
$SAVNAME	6	
$SAVNO$W	5	40
$SAVNRG	4	20
$SAVNRLS	4	1
$SAVTDAR	E	2
$SAVTDAT	F	
$SAVTDHR	E	4
$SAVTDRR	E	8
$SAVTFLG	E	
$SAVTLAR	E	20
$SAVTLEN	10	
$SAVTLHR	E	40
$SAVTLOF	E	10
$SAVTLRR	E	80
$SAVTRC	4	80
$SAVTRCD	4	2
$SAVTRE	4	40
$SAVUANY	4	4
$SCDFLG1	4	
$SCD1WAR	4	80
$SDAPPND	4	40
$SDDEFT	4	20
$SDFLAG1	4	
$SDHOME	4	80
$SDRETRN	4	10
$SDWAIT	4	8
$SDXSYS	4	4
$SEC	7	40
$SFFLAG1	4	
$SF1ASID	4	8

Table 377. Cross Reference for $PARMLST (continued)

Name	Offset	Hex Tag
$SF1FRST	4	20
$SF1LAST	4	10
$SF1LOJ	4	80
$SF1SSIB	4	40
$SIGFLG1	4	
$SIG1MQT	4	10
$SIG1R	4	40
$SIG1SKP	4	20
$SIG1VAV	4	8
$SIG1W	4	80
$SJFLAG1	4	
$SJFMEM	4	40
$SJFNPVT	4	80
$SLFLAG1	4	
$SL1ACPT	4	8
$SL1RETN	4	20
$SL1WAIT	4	10
$SPARE1	7	80
$SPNFLG1	4	
$SPN1CY	4	80
$SPN1NL	4	40
$ST	7	4
$SUFLAG1	4	
$SU1FREE	4	80
$SYMTTF1	4	
$SYM1ALS	4	3
$SYM1ALT	4	2
$SYM1BLO	4	5
$SYM1JQA	4	6
$SYM1R0	4	7
$SYM1SNF	4	1
$SYM1UNA	4	4
$TAPE	7	10
$TGCNTYS	4	80
$TGFLAG	4	
$TGFLAG2	5	
$TGMMQT	4	2
$TGQSYES	4	8
$TGSETON	4	4
$TGTPSET	4	10
$TGTTEST	4	20
$TGTTSET	4	30
$TG2BAD	5	40
$TG2BTRK	5	20
$TG2MAP	5	80
$TG2OTHR	5	10
$TP	7	8
$TRFLAG1	4	
$TRIVIA	7	10

Table 377. Cross Reference for $PARMLST (continued)

Name	Offset	Hex Tag
$TR1SDB	4	8
$TR1SJIO	4	4
$TR1WRPM	4	2
$TR1WTNO	4	1
$TSRFLG1	4	
$TSR1CBA	4	8
$TSR1CRE	4	20
$TSR1DEL	4	40
$TSR1PRS	4	10
$TSR1RET	4	80
$UR	7	4
$VFYCHK	1E	0
$VFYDSCA	1E	1
$VFYDSIX	1E	2
$VFYHDB	1E	3
$VFYIOT	1E	4
$VFYJCT	1E	5
$VFYJSMT	1E	A
$VFYNHSB	1E	8
$VFYOCT	1E	6
$VFYSWBI	1E	7
$VFYTLBM	1E	9
$VOLFLD	4	
$VOLNMFD	5	
$VSJFLAG	4	
$VWPFUNC	C	
$VWPMODN	4	
$WRCLSPR	6	
$WREXEND	4	5
$WRLEN	8	
$WRLINTP	9	
$WRPFLAG	4	
$WRROUTE	7	
$WRSTEND	9	A
$WRTYPE	5	
$WSFLGOF	6	
$WSLISTL	4	
$WSTUNK	7	0
$WSTWSP	7	1
$WSTYPE	7	
$WTCLASS	5	
$WTCSECT	6	
$WTFLAG1	4	
$WTINHBT	5	
$WTLINTP	7	
$WTOAJSB	7	2
$WTOCMBL	7	40
$WTODMND	7	2
$WTODOMT	7	4

Table 377. Cross Reference for $PARMLST (continued)

Name	Offset	Hex Tag
$WTOJOBY	7	20
$WTOLNR0	7	8
$WTOSTDL	7	80
$WTOTEXT	7	1
$WTOWAIT	7	10
$WTPFLAG	4	
$WTPLEN	16	18
$WTRESQO	16	
$WTROUTE	6	
$WTSEQF	E	
$WT1INHN	4	10
$WT1MCLR	4	8
$WT1RES	4	80
$WT1RETN	4	20
$WT1XECB	4	40
$XMFLAG1	4	
$XM1COMP	4	20
$XM1LPST	4	10
$XM1NPST	4	2
$XM1QUIK	4	40
$XM1STKN	4	8
$XM1TTKN	4	4
$XM1XMP	4	80
$ZGLLALT	4	4
$ZGLLAMN	4	1
$ZGLLASN	4	2
$ZGLLAUT	4	8
$ZGLLTMS	4	20
$ZGLLWKA	4	10
DSNRONLY	4	80
DSNVALL	4	0
EXITFLGS	C	
EXITFSS	C	8
EXITID	D	
EXITJES2	C	10
EXITLNG	F	C
EXITMRC	E	
EXITNAME	4	
EXITRSVD	F	
EXITSTSK	C	20
EXITTR	C	80
EXITUSER	C	40
EXITXPL	C	4
PARMINST	0	
PARMLIST	0	
PARMSTRT	4	
TRPFLAG1	5	
TRPID	4	
TRPNAME	6	

Table 377. Cross Reference for $PARMLST (continued)

Name	Offset	Hex Tag
TRP1FSS	5	10
TRP1JES2	5	20
TRP1SPIN	5	1
TRP1STSK	5	40
TRP1USER	5	80

Chapter 161. $PARMWRK Information

$PARMWRK Heading Information

Common Name: PARMLIB Work Area
Macro ID: $PARMWRK
DSECT Name: PRW
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: PRW
Offset: PRWID
Length: L'PRWID
Storage Attributes: Subpool: 0
Key: 1
Residency: Virtual storage is below the 16M line (contains DCB to read PARMLIB). Real storage is anywhere

Size: See PRWLEN
Created by: HASPSXIT for the INCLUDE initialization statement
Pointed to by: CIRPRMWR field of the CIRWORK data area
PRWPRW field of the PARMWRK data area
Serialization: None required
Function: The PARMWRK DSECT represents a data set used to read JES2 initialization statements from

$PARMWRK mapping

Table 378. Structure PRW

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PRW	, PROCLIB allocation DSECT
0	(0)	CHARACTER	4	PRWID	Eyecatcher
4	(4)	CHARACTER	54	PRWDSNMB	Data set name input area
58	(3A)	CHARACTER	1	PRWDSNEN	Work area for PSTINCDS
60	(3C)	SIGNED	4	(0)	Allignment
60	(3C)	CHARACTER	8	PRWUNIT	Data set unit
68	(44)	CHARACTER	6	PRWVOL	Data set VOLSER
74	(4A)	CHARACTER	44	PRWDSN(0)	Dataset name
74	(4A)	BITSTRING	58		DSN with work area
132	(84)	SIGNED	4	(0)	Allignment
132	(84)	CHARACTER	8	PRWMEMB(0)	Member name
132	(84)	BITSTRING	55		Member with work area
187	(BB)	CHARACTER	8	PRWIMEMB	Member of current dataset
195	(C3)	CHARACTER	8	PRWLMEMB	Logical Parmlib_member
204	(CC)	SIGNED	4	PRWSEND(0)	End of SCAN mapped areas
204	(CC)	X'CC'	0	PRWSLEN	"PRWSEND-PRW" Short PRW length (all fields referenced by SCAN)
204	(CC)	ADDRESS	4	PRWLDSB	Logical dataset Read buffer
208	(D0)	ADDRESS	4	PRWPRW	PRW chain pointer
212	(D4)	SIGNED	4	PRWLRCNT	Logical dataset rec counter
216	(D8)	BITSTRING	1	PRWFLAG1	General flags
		1...		PRW1DCON	"B'10000000'" Enter console mode when EOF

Table 378. Structure PRW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		PRW1DECN	"B'01000000'" Enter error console mode on EOF
217	(D9)	BITSTRING	1	PRWFLAG2	General flags
		1...		PRW2IDSN	"B'10000000'" DSNAME specified
		.1..		PRW2IVOL	"B'01000000'" VOLSER specified
		..1.		PRW2IUNT	"B'00100000'" UNIT specified
		...1		PRW2IMEM	"B'00010000'" Member field specified
		.... 1...		PRW2ILPM	"B'00001000'" Parmlib_member specified
		.... .1..		PRW2ISEQ	"B'00000100'" Dataset is sequential
		.... ..1.		PRW2INST	"B'00000010'" Nested INCLUDE
218	(DA)	BITSTRING	3		Reserved
224	(E0)	ADDRESS	4	PRWINIDS	INIDSNE pointer for include
Dynamic allocation work area					
228	(E4)	ADDRESS	4	PRWRBPTR	Request block pointer
232	(E8)	SIGNED	4	(0)	Ensure aligned
232	(E8)	BITSTRING	20	PRWRB	DYNALLOC request block
252	(FC)	SIGNED	4	(0)	Ensure aligned
252	(FC)	BITSTRING	36	PRWRBX	Request block Extension
288	(120)	SIGNED	4	PRWTXTPT(0)	Text pointers
288	(120)	ADDRESS	4	PRWTXTP1	Address of text unit 1
292	(124)	ADDRESS	4	PRWTXTP2	Address of text unit 2
296	(128)	ADDRESS	4	PRWTXTP3	Address of text unit 3
300	(12C)	ADDRESS	4	PRWTXTP4	Address of text unit 4
304	(130)	ADDRESS	4	PRWTXTP5	Address of text unit 5
308	(134)	ADDRESS	4	PRWTXTP6	Address of text unit 5
DYNAMIC Allocation text units: - Return DDNAME - DISP=SHR - DSNAME=dsname - UNIT=unit - VOLSER=volser					
312	(138)	SIGNED	4	PRWATX(0)	Text units
312	(138)	BITSTRING	6	PRWATX1	Text unit 1 (Return DDNAME)
318	(13E)	CHARACTER	8	PRWDDNM	Returned DD Name
326	(146)	BITSTRING	6	PRWATX2	Text unit 2 (DISP)
332	(14C)	BITSTRING	8	PRWATX2D	Text unit 2 parm
340	(154)	BITSTRING	6	PRWATX3	Text unit 3 (Data set name)
346	(15A)	CHARACTER	44	PRWDDSN	Data set name
390	(186)	BITSTRING	6	PRWATX4	Text unit 4 (member name)
396	(18C)	CHARACTER	8	PRWDMEMB	Data set member name
404	(194)	BITSTRING	6	PRWATX5	Text unit 5 (UNIT)
410	(19A)	CHARACTER	8	PRWDUNIT	Data set unit
418	(1A2)	BITSTRING	6	PRWATX6	Text unit 6 (VOLSER)
424	(1A8)	CHARACTER	6	PRWDVOL	Data set VOLSER
DYNAMIC Unallocate text units: - DDNAME					
312	(138)	BITSTRING	6	PRWUTX1	Text unit 1 (DDNAME)
318	(13E)	BITSTRING	8	PRWUTX1D	Text unit 1 parm

Table 378. Structure PRW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
326	(146)	BITSTRING	6	PRWUTX2	Text unit 2 unallocate perm
332	(14C)	BITSTRING	8	PRWUTX2D	Text unit 2 parm
OPEN/CLOSE Work areas and DCB					
432	(1B0)	DBL WORD	8	(0)	Alignment DATA CONTROL BLOCK
432	(1B0)	SIGNED	4	PRWDCB(0)	ORIGIN ON WORD BOUNDARY DIRECT ACCESS DEVICE INTERFACE
432	(1B0)	ADDRESS	4		DCBE ADDRESS
436	(1B4)	BITSTRING	12		FDAD, DVTBL
448	(1C0)	ADDRESS	4		KEYLEN, DEVT, TRBAL COMMON ACCESS METHOD INTERFACE
452	(1C4)	ADDRESS	1		BUFNO, NUMBER OF BUFFERS
453	(1C5)	ADDRESS	3		BUFCB, BUFFER POOL CONTROL BLOCK
456	(1C8)	ADDRESS	2		BUFL, BUFFER LENGTH
458	(1CA)	BITSTRING	2		DSORG, DATA SET ORGANIZATION
460	(1CC)	ADDRESS	4		IOBAD FOR EXCP OR RESERVED FOUNDATION EXTENSION
464	(1D0)	BITSTRING	1		BFTEK, BFALN, DCBE INDICATORS
465	(1D1)	ADDRESS	3		EODAD (END OF DATA ROUTINE ADDRESS)
468	(1D4)	BITSTRING	1		RECFM (RECORD FORMAT)
469	(1D5)	ADDRESS	3		EXLST (EXIT LIST ADDRESS) FOUNDATION BLOCK
472	(1D8)	CHARACTER	8		DDNAME
480	(1E0)	BITSTRING	1		OFLGS (OPEN FLAGS)
481	(1E1)	BITSTRING	1		IFLGS (IOS FLAGS)
482	(1E2)	BITSTRING	2		MACR (MACRO FORMAT) BSAM-BPAM-QSAM INTERFACE
484	(1E4)	BITSTRING	1		OPTCD, OPTION CODES
485	(1E5)	ADDRESS	3		CHECK OR INTERNAL QSAM SYNCHRONIZING RTN.
488	(1E8)	ADDRESS	4		SYNAD, SYNCHRONOUS ERROR RTN. (3 BYTES)
492	(1EC)	SIGNED	2		INTERNAL ACCESS METHOD FLAGS
494	(1EE)	ADDRESS	2		BLKSIZE, BLOCK SIZE
496	(1F0)	SIGNED	4		INTERNAL ACCESS METHOD FLAGS
500	(1F4)	ADDRESS	4		INTERNAL ACCESS METHOD USE QSAM INTERFACE
504	(1F8)	ADDRESS	4		EOBAD
508	(1FC)	ADDRESS	4		RECAD
512	(200)	SIGNED	2		QSWS (FLAGS) AND EITHER DIRCT OR BUFOFF
514	(202)	ADDRESS	2		LRECL
516	(204)	BITSTRING	1		EROPT, ERROR OPTION
517	(205)	ADDRESS	3		CNTRL
520	(208)	SIGNED	2	(2)	RESERVED AND PRECL
524	(20C)	ADDRESS	4		EOB, INTERNAL ACCESS METHOD FIELD
DATA CONTROL BLOCK EXTENSION.					
528	(210)	SIGNED	4	PRWDCBE(0)	0 Alignment and identifier
532	(214)	SIGNED	2		4 Length of DCBE, minimum is 56
534	(216)	BITSTRING	2		6 Reserved, should be zero

Table 378. Structure PRW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
536	(218)	ADDRESS	4		8 0 if not open, OPEN points to DCB
540	(21C)	BITSTRING	4		C Disk address of current member
544	(220)	BITSTRING	1		10 Flags set by system
545	(221)	BITSTRING	1		11 Flags set by user
546	(222)	SIGNED	2		12 Number of stripes if extended format
548	(224)	BITSTRING	1		14 Flags set by user
549	(225)	BITSTRING	3		15 Reserved
552	(228)	BITSTRING	4		18 Reserved
556	(22C)	SIGNED	4		1C Block size
560	(230)	BITSTRING	8		20 Reserved & number of blocks in ds
568	(238)	ADDRESS	4		28 End of data routine address or 0
572	(23C)	ADDRESS	4		2C I/O error routine (synchronous) or 0
576	(240)	BITSTRING	6		30 Reserved, should be zero
582	(246)	ADDRESS	1	(2)	36 MULTACC and MULTSDN
SHORTEST POSSIBLE DCBE IN ANY RELEASE.					
582	(246)	X'98'	0	PRWDCBL	"*-PRWDCB" DCB length
584	(248)	BITSTRING	1	PRWDCBFG	DCB EOF indicator X'FF' -> EOF
592	(250)	DBL WORD	8	(0)	Alignment
592	(250)	SIGNED	4	PRWOP(0)	ALIGN LIST TO WORD
592	(250)	ADDRESS	1		Option byte
593	(251)	ADDRESS	3		DCB or ACB address
593	(251)	X'250'	0	PRWOPEN	"PRWOP,*-PRWOP"
596	(254)	SIGNED	4	PRWCL(0)	ALIGN LIST TO FULLWORD
596	(254)	ADDRESS	1		OPTION BYTE
597	(255)	ADDRESS	3		DCB OR ACB ADDRESS
597	(255)	X'254'	0	PRWCLOSE	"PRWCL,*-PRWCL"
600	(258)	SIGNED	4	PRWEXJFC(0)	Alignment
600	(258)	BITSTRING	1		JFCB
601	(259)	ADDRESS	3		exit
604	(25C)	SIGNED	4	PRWJFCB(0)	JFCB
604	(25C)	BITSTRING	1	(176)	work area
784	(310)	DBL WORD	8	(0)	Ensure alignment
784	(310)	X'310'	0	PRWLEN	"*-PRW" PRW length

Table 379. Cross Reference for $PARMWRK

Name	Offset	Hex Tag
PRW	0	
PRWATX	138	
PRWATX1	138	
PRWATX2	146	
PRWATX2D	14C	
PRWATX3	154	
PRWATX4	186	
PRWATX5	194	
PRWATX6	1A2	

Table 379. Cross Reference for $PARMWRK (continued)

Name	Offset	Hex Tag
PRWCL	254	
PRWCLOSE	255	254
PRWDCB	1B0	
PRWDCBE	210	C4C3C2C5
PRWDCBFG	248	
PRWDCBL	246	98
PRWDDNM	13E	
PRWDDSN	15A	
PRWDMEMB	18C	
PRWDSN	4A	
PRWDSNEN	3A	
PRWDSNMB	4	
PRWDUNIT	19A	
PRWDVOL	1A8	
PRWEXJFC	258	
PRWFLAG1	D8	
PRWFLAG2	D9	
PRWID	0	D7D9E640
PRWIMEMB	BB	
PRWINIDS	E0	
PRWJFCB	25C	
PRWLDSB	CC	
PRWLEN	310	310
PRWLMEMB	C3	
PRWLRCNT	D4	
PRWMEMB	84	
PRWOP	250	
PRWOPEN	251	250
PRWPRW	D0	
PRWRB	E8	
PRWRBPTR	E4	
PRWRBX	FC	
PRWSEND	CC	
PRWSLEN	CC	CC
PRWTXTPT	120	
PRWTXTP1	120	
PRWTXTP2	124	
PRWTXTP3	128	
PRWTXTP4	12C	
PRWTXTP5	130	
PRWTXTP6	134	
PRWUNIT	3C	
PRWUTX1	138	
PRWUTX1D	13E	
PRWUTX2	146	
PRWUTX2D	14C	
PRWVOL	44	
PRW1DCON	D8	80
PRW1DECN	D8	40

Table 379. Cross Reference for $PARMWRK (continued)

Name	Offset	Hex Tag
PRW2IDSN	D9	80
PRW2ILPM	D9	8
PRW2IMEM	D9	10
PRW2INST	D9	2
PRW2ISEQ	D9	4
PRW2IUNT	D9	20
PRW2IVOL	D9	40

Chapter 162. $PBLK Information

$PBLK Heading Information

Common Name: HAM Protected Block DSECT
Macro ID: $PBLK
DSECT Name: PBLK
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: PBLK
Offset: PBLKID-PBLK
Length: L'PBLKID
Storage Attributes: Subpool: 229
Key: 1
Residency: Virtual and Real storage are limited to 31 bit because to the channel programs generated to read data into these blocks.

Size: See BATPBKSZ of the BAT that owns this PBLOCK
Created by: HASCHAM GET processing
Pointed to by: SDBPBLIN field of the SDB data area
SDBPBLAC field of the SDB data area
SDBPBLFL field of the SDB data area
SDBAPBL field of the SDB data area
PBLNEXT field of the PBL data area
Serialization: Local lock held by EXCPVR serializes most updates to this data area. In some cases, the SDB lock of the owning SDB is used for serialization.
Function: A PBLOCK contains control information, CCWs and data buffers used to read JES2 data sets from SPOOL. The size is dependant on the exact despooling method in use. Normal despooling uses 1 page of storage. Track cell despooling uses track cell (CCTTKCEL) number of 4K pages. Full track despooling uses 11 or 12 pages depending on buffer size (1944 vs 3992 bytes).

$PBLK mapping

Table 380. Structure PBLK

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PBLK	, Protected block DSECT
0	(0)	CHARACTER	4	PBLKID	Eyecatcher
4	(4)	SIGNED	4	PBLSIZE	Size of data area
8	(8)	ADDRESS	4	PBLNEXT	Next PBLOCK on SDB chain
12	(C)	SIGNED	4	PBLUSECT	Use count for buffers
16	(10)	BITSTRING	1	PBLGFLG1	PBLOCK flag bytes
		1...		PBLGF1EL	"B'10000000'" At least one end record in this PBLOCK
17	(11)	SIGNED	1	PBLSTRBF	First MTTRE to process
18	(12)	ADDRESS	2	PBLBUFNM	Number of buffers in block
20	(14)	ADDRESS	4	PBLCCWA	Address of CCWs
24	(18)	ADDRESS	4	PBLBUFA	Address of first buffer

Table 380. Structure PBLK (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
28	(1C)	SIGNED	4	PBLECB	ECB to post when I/O completes
32	(20)	DBL WORD	8	PBLMTTRT(0)	Start of MTTR/ADDRESS table

Table 381. Structure PBLMTTRE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PBLMTTRE	, MTTR/ADDRESS table mapping
0	(0)	SIGNED	4	PBLMTTR	MTTR of address (0 if not valid)
4	(4)	BITSTRING	1	PBLMFLG1	General flag byte
		1...		PBLMF1ER	"B'10000000'" I/O error on buffer
		.1..		PBLMF1VL	"B'01000000'" Logical error on buffer
		..1.		PBLMF1OK	"B'00100000'" Buffer verified OK
		...1		PBLMF1PR	"B'00010000'" Buffer processed (copied to UBUF)
		.... 1...		PBLMF1IP	"B'00001000'" Locate mode partly assigned buffer
5	(5)	BITSTRING	3		Reserved
8	(8)	ADDRESS	4	PBLMADDR	Address of buffer for MTTR
12	(C)	ADDRESS	4	PBLMIDA1	IDAWs
16	(10)	ADDRESS	4	PBLMIDA2	to read
20	(14)	ADDRESS	4	PBLMIDA3	records
	If we are processing this PBLOCK in locate mode (FSS), then the IDAWs are used as work areas.				
12	(C)	ADDRESS	4	PBLMLOC	Next LRC to process
16	(10)	BITSTRING	8	PBLMRBA	RBA of current LRC
24	(18)	DBL WORD	8	PBLMTTRN(0)	Next entry (DWORD aligned)
24	(18)	X'18'	0	PBLMELEN	"*-PBLMTTRE" Length of an entry

Table 382. Structure PBLCCWS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PBLCCWS	, CCW and data areas
	CKD Data area and CCWs				
0	(0)	BITSTRING	6	PBLDADDR(0)	(00CCHH) Seek address (BBCCHH)
0	(0)	BITSTRING	2	PBLDBB	BB value (always zero)
2	(2)	BITSTRING	5	PBLDCHR(0)	CCHHR value
2	(2)	BITSTRING	4		CCHH calue
6	(6)	BITSTRING	1	PBLDREC	R value
7	(7)	BITSTRING	1	PBLDSECT	Sector number
8	(8)	DBL WORD	8	PBLCCWS1(0)	CKD CCW chain
32	(20)	X'20'	0	PBLCKDLN	"*-PBLCCWS1"
	ECKD Data area and CCWs				
8	(8)	BITSTRING	16	PBLDIPRM(0)	Locate record parameter list
8	(8)	BITSTRING	1	PBLDOPER	Operation byte
9	(9)	BITSTRING	1	PBLDAUX	Auxiliary byte
10	(A)	BITSTRING	1		Reserved (must be 0)

Table 382. Structure PBLCCWS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
11	(B)	BITSTRING	1	PBLDNREC	Number of records to process
12	(C)	BITSTRING	4	PBLDCCHH	(CCHH) Seek address (CCHH)
16	(10)	BITSTRING	5	PBLDCHR1(0)	(CCHHR) Search address
16	(10)	BITSTRING	4	PBLDCH1	(CCHH) Cylinder and head numbers
20	(14)	BITSTRING	1	PBLDREC1	(R) Record number
21	(15)	BITSTRING	1	PBLDSCT1	Sector number
22	(16)	BITSTRING	2	PBLDTLEN	Transfer length factor
32	(20)	DBL WORD	8	PBLCCWS2(0)	ECKD CCW chain
		Length fields. PBLSIZEC is the constant portion of the PBLOCK (base section plus positioning CCWs). PBLSIZEV is the length per input buffer for control areas and 1 read CCW.			
40	(28)	X'48'	0	PBLSIZEC	"(PBLMTTRT-PBLK)+(PBLCRW-PBLCCWS)"
40	(28)	X'20'	0	PBLSIZEV	"(PBLMTTRN-PBLMTTRE)+L'PBLCRW"

Table 383. Cross Reference for $PBLK

Name	Offset	Hex Tag
PBLBUFA	18	
PBLBUFNM	12	0
PBLCCWA	14	
PBLCCWS	0	
PBLCCWS1	8	
PBLCCWS2	20	
PBLCKDLN	20	20
PBLDADDR	0	
PBLDAUX	9	
PBLDBB	0	
PBLDCCHH	C	
PBLDCHR	2	
PBLDCHR1	10	
PBLDCH1	10	
PBLDIPRM	8	
PBLDNREC	B	
PBLDOPER	8	
PBLDREC	6	
PBLDREC1	14	
PBLDSCT1	15	
PBLDSECT	7	
PBLDTLEN	16	
PBLECB	1C	0
PBLGFLG1	10	0
PBLGF1EL	10	80
PBLK	0	
PBLKID	0	D7C2D3D2
PBLMADDR	8	
PBLMELEN	18	18
PBLMFLG1	4	

Table 383. Cross Reference for $PBLK (continued)

Name	Offset	Hex Tag
PBLMF1ER	4	80
PBLMF1IP	4	8
PBLMF1OK	4	20
PBLMF1PR	4	10
PBLMF1VL	4	40
PBLMIDA1	C	
PBLMIDA2	10	
PBLMIDA3	14	
PBLMLOC	C	
PBLMRBA	10	
PBLMTTR	0	
PBLMTTRE	0	
PBLMTTRN	18	
PBLMTTRT	20	
PBLNEXT	8	
PBLSIZE	4	0
PBLSIZEC	28	48
PBLSIZEV	28	20
PBLSTRBF	11	0
PBLUSECT	C	0

Chapter 163. $PCE Information

$PCE Programming Interface Information

The following field is **NOT** programming interface information:

- PCEPRE

$PCE Heading Information

Common Name:	JES2 Processor Control Element DSECT
Macro ID:	$PCE
DSECT Name:	PCE
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4
Storage Attributes:	Subpool: 25 Key: 1 Residency: Virtual and real storage are anywhere, above or below 16M, in private storage of the JES2 address space.
Size:	The length of a PCE is the length of the base PCE (defined by the expression, PCEWORK-PCE) plus the length of a variable length work area beginning at symbol PCEWORK. The length of the work area depends on the type of PCE. These work areas and their lengths are defined in separate mapping macros and are extensions of the PCE DSECT. See the definitions for PCEID byte 2 in this macro ($PCE) for the names of the work area mapping macros. The overall length of the PCE is stored in field PCELENG.
Created by:	The $PCEDYN service. Most PCEs are created during JES2 initialization, others are created as needed (for example, PCEs for remote devices are created when a remote starts).

$PCE Heading Information

Pointed to by:

The $PCEORG field of the $HCT data area points to a chain containing all PCEs. This is a double threaded chain (see PCEPREV and PCENEXT below).
The $PCELAST field of the $HCT data area points to the last PCE on the $PCEORG chain.
The PCENEXT and PCEPREV fields of the $PCE data area points to the next/previous PCE on the $PCEORG chain.
The $CURPCE field of the $HCT data area points to the PCE currently dispatched by the JES2 dispatcher. $CURPCE is set to zero when a PCE gives up control with a $WAIT.
The $READY field of the $HCT data area is the head of a circular queue of PCEs ready to be dispatched by the JES2 dispatcher. $READYF (forward chain pointer) and $READYL (backward chain pointer) are defined at the $READY location. The PCEs on the queue are chained through the PCEPCEA (forward) and PCEPCEB (backward) fields. The queue head itself has a virtual origin in $HCT at the offset defined by the expression $READY-(PCEPCEA-PCE) so that the queue head is a dummy PCE called "PCE zero". When the ready queue is empty (that is, no PCEs are ready to be dispatched), the forward and backward pointers point to PCE zero. When the queue is not empty, $READYF either points to a currently dispatched PCE or $READYF points to the next PCE to be dispatched ($CURPCE is zero).
The $DRQUES field of the $HCT data area points to the JES2 dispatcher resource wait queues, a table of double-word queue heads ordered by resource number. These queues are similar to the ready queue (above), e.g., a queue is empty when it points to PCE zero.
PCEPCEA and PCEPCEB fields of the $PCE data area are used to chain PCEs on the ready queue or resource wait queues. A PCE is waiting for a specific $POST when these fields point to the PCE itself.
DCTPCE field of the $DCT data area.
XECBPCE field of the $XECB data area.
In addition to the pointer fields described here, the PCE work area mapping macros describe additional pointers specific to the PCE type(s) of the work areas.

Serialization:

Normal PCE dispatch serialization

Function: The Processor Control Element (PCE) represents an instance of a "process" running under the control of the JES2 main task. The JES2 main task runs under a single TCB that is sub-dispatched by the JES2 dispatcher. The JES2 dispatcher uses the PCE as its dispatchable unit.
There are one or more PCEs for each JES2 processor type ID, as defined by the second byte of the PCEID field. Each of the ID types has a mapping macro that defines an extension to the PCE DSECT that begins at field PCEWORK. The names of the extension macros are given with the PCExxxID symbol definitions.
PCEs are related to JES2 devices in the following ways:
For non device related PCEs, PCEDCT is zero and no DCTPCE fields point to the PCE.
For a PCE that controls a single device, PCEDCT points to the Device Control Table (DCT) of the device the PCE manages.
For a PCE that controls multiple devices, PCEDCT is zero, but the DCTPCE field points to the PCE in each Device Control Table (DCT) that the PCE manages.

$PCE mapping

Table 384. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Processor Control Element
0	(0)	CHARACTER	4	PCEEYE(0)	Eye catcher
0	(0)	BITSTRING	1	(0)	$SAVE area (see $PSV)
0	(0)	X'4C'	0	PCELPSV	"PSVLABAD-PSV+PCE,4,C'A'" Last $SAVE area
0	(0)	X'99'	0	PCEXITID	"PSVEXID-PSV+PCE,1,C'F'" Exit ID last invoked
0	(0)	X'48'	0	PCEDOM68	"PSVADDR-PSV+PCE,4,C'F'" Domid for $HASP068
168	(A8)	ADDRESS	4	PCEPREV	ADDRESS OF PREVIOUS PCE
172	(AC)	ADDRESS	4	PCENEXT	ADDRESS OF NEXT PCE
176	(B0)	ADDRESS	4	PCEPCEA	NEXT READY/WAITING PCE
180	(B4)	ADDRESS	4	PCEPCEB	PREVIOUS READY/WAITING PCE
184	(B8)	ADDRESS	4	PCEERA	ADDR OF ERA FOR ERROR FROM WHICH PCE IS ATTEMPTING TO RECOVER
188	(BC)	ADDRESS	4	PCEPRE	ADDRESS OF NEWEST PRE
192	(C0)	BITSTRING	1	PCEEWF	PROCESSOR EVENT WAIT FIELD
193	(C1)	BITSTRING	1	PCEFLAGS	PROCESSOR FLAGS
		1...		PCETRACE	"B'10000000'" Processor eligible for tracing
		.1..		PCEDSPXP	"B'01000000'" Processor permanently exempt from non-dispatchability
		..1.		PCEDSPXT	"B'00100000'" Processor temporarily exempt from non-dispatchability

Table 384. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		PCENWIOP	"B'00010000'" Implicit $WAITs in I/O processing should be prohibited (currently used only by $IOERROR)
		.... 1...		PCETRPSF	"B'00001000'" Short $TRACE requested
		.... .1..		PCETRLDS	"B'00000100'" Relds indicator
		.... ..1.		PCEPRIO	"B'00000010'" High priority pce
		1		PCEREQIR	"B'00000001'" PCE is required (terminate JES2 if PCE abends).
194	(C2)	BITSTRING	1	PCEFLAG2	More PCE flags
		1...		PCE2ENDD	"B'10000000'" PCE has been terminated & will never be dispatched
		.1..		PCE2EBUF	"B'01000000'" Emergency buffers allowed
		..1.		PCE2EVNT	"B'00100000'" An exception event has occured for PCE this dispatcher cycle
		...1		PCE2INIT	"B'00010000'" PCE has initialized far enough to allow DETACH
		.... 1...		PCE2QSUS	"B'00001000'" PCE needed CKPT queues last time it ran
		.... .1..		PCE2XWTR	"B'00000100'" PCE is a PSO or SAPI PCE
		.... ..1.		PCE2SJID	"B'00000010'" Maintain PCEJOBID
		1		PCE2SJIX	"B'00000001'" Maintain PCEJQEIX
195	(C3)	BITSTRING	1	PCEFLGCS	PCE 'compare-and-swap' flag Flags in this byte may be manipulated by subtasks and therefore must use CS logic (OIL and NIL) to set/reset the bits.
		1...		PCEGEMOK	"B'10000000'" PCE is allowed to obtain emergency CMBs
		.1..		PCECEMER	"B'01000000'" PCE currently owns an emergency CMB
196	(C4)	SIGNED	2	PCENDSPC	NON-DISPATCHABILITY COUNT - IF NON-ZERO PROCESSOR NOT DISPATCHED UNLESS EXEMPT VIA PCEDSPXP/XT
198	(C6)	SIGNED	2	PCEID	PROCESSOR TYPE
200	(C8)	SIGNED	4	PCEUSER0	RESERVED FOR USER
204	(CC)	SIGNED	4	PCEUSER1	RESERVED FOR USER
208	(D0)	SIGNED	4	PCEPOSTD(0)	PCE Post EWF fullword
208	(D0)	BITSTRING	3		Reserved for future use
211	(D3)	BITSTRING	1	PCEPSTEW	PCE POST EWF value
212	(D4)	ADDRESS	4	PCEPSTCH	PCE POST chain pointer
216	(D8)		1	PCEWTTIM	Time PCE $WAITed (STCKE)
NOTE THAT THE FOLLOWING FIELDS (THROUGH PCEDEVTP) MUST CORRESPOND TO THE DCT FIELDS (THROUGH DCTDEVTP)					
232	(E8)	DBL WORD	8	(0)	Ensure DWORD alignment
ORG -(DCTPCE-DCT) ESTABLISH THE PCEDADCT					

Table 384. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
224	(E0)	DBL WORD	8	PCEDADCT(0)	USING STORAGE FOR THE DCT FIELDS NOT IN A DA DCT
232	(E8)	ADDRESS	4	PCEDCTPC	DA DCT - DCTPCE
236	(EC)	SIGNED	4	PCEDCTFL	DCTSTAT-DCTFLAGS-DCTFLAG2
240	(F0)	BITSTRING	4	PCESEEK	MTTR value for $EXCP
244	(F4)	BITSTRING	4		Reserved (part of MQTR)
240	(F0)	DBL WORD	8	PCEMQTRD(0)	8 byte addr for STG
240	(F0)	BITSTRING	1	PCESEEKF	'FF'x if MQTR is set
241	(F1)	BITSTRING	1		Reserved (part of MTTR)
242	(F2)	BITSTRING	6	PCEMQTR	MQTR value for $EXCP
248	(F8)	ADDRESS	4	PCEBUFAD	BUFFER ADDRESS FOR $EXCP
252	(FC)	ADDRESS	4	PCEIOEWF	PCE WITH EWF TO POST OR EXIT ADDRESS
256	(100)	SIGNED	2	PCEBUFCN	Active buffer count
258	(102)	BITSTRING	1	PCEDEVTP	DA DCT FLAGS FOR $EXCP
		....		PCEDARD	"B'00000000'" Direct access read request
		1		PCEDAWR	"B'00000001'" Direct access write request
259	(103)	BITSTRING	1	PCEDAFL3	DA DCT flag byte (see DCTFLAG3 for bits)
259	(103)	X'1C'	0	PCEDALEN	"*-PCEDCTPC" Length of DA DCT in PCE
260	(104)	SIGNED	2	PCELENG	PCE LENGTH
262	(106)	ADDRESS	1	PCEROLOQ	Holding area for JQE/JOE 'prior' queue type
263	(107)	SIGNED	1	PCESEQ	PCE sequence number
264	(108)	ADDRESS	4	PCEDCT	ADDRESS OF DCT (IF ANY)
268	(10C)	ADDRESS	4	PCEJQE	ADDRESS OF JQE (IF ANY)
		JOBID or JQE index of the current job. This is maintained by $DOGJQE for use by the monitor. If the first 4 bytes of PCEJOBID is zero, then either there is no current job or the second 4 bytes is a JQE index.			
272	(110)	CHARACTER	8	PCEJOBID	JOB ID of current job
272	(110)	SIGNED	4		Zero
276	(114)	SIGNED	4	PCEJQEIX	JOB index of current job
280	(118)	ADDRESS	4	PCEPTAB	Addr of PCETAB
284	(11C)	ADDRESS	4	PCEFSACB	ADDRESS OF FSACB, IF ANY
288	(120)	ADDRESS	4	PCEWAVE	ADDRESS OF WAVE (IF ANY)
292	(124)	ADDRESS	4	PCENTITY	ADR OF ENTITY AREA (IF ANY)
296	(128)	SIGNED	2	PCEASID	Associated address space
298	(12A)	BITSTRING	1	PCEFLAG3	More PCE flags
		1...		PCE3HPFL	"B'10000000'" PCE invoked HPUTFULL
		.1..		PCE3NO$W	"B'01000000'" $WAIT prohibited
		..1.		PCE3PST1	"B'00100000'" $$POST ELEM= looks for available PCE to post
299	(12B)	BITSTRING	1		Reserved for future use
300	(12C)	ADDRESS	4	PCEACTCT	PCE active count
304	(130)	ADDRESS	4	PCEPCECT	Ptr to PCE counters (see $PCEHCTD/$PCEHCTA)
308	(134)	ADDRESS	4	PCEBKLCT	Ptr to backlog counter

Table 384. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
312	(138)	SIGNED	2	PCEPNADJ	PCE pain adjustment
314	(13A)	BITSTRING	2		Reserved for future use
316	(13C)	ADDRESS	4	PCEWORKA	ADDRESS OF PCE WORK AREA
320	(140)	DBL WORD	8	PCEWORK(0)	VARIABLE LENGTH PROCESSOR WORK AREA
		PCEID - BYTE1			
		....		PCENODEV	"X'00'" PCEID BYTE1 = 0 INDICATES NON- DEVICE PROCESSOR
		1		PCELCLID	"X'01'" LOCAL SPECIAL PCE ID
		.... ..1.		PCERJEID	"X'02'" REMOTE SPECIAL PCE ID
		.... .1..		PCENJEID	"X'04'" NETWORK SPECIAL PCE ID, INDICATES NJE OR XFR JT/JR/ST/SR
		.... 1...		PCEINRID	"X'08'" INTERNAL SPECIAL PCE ID
		1...		PCEPRSID	"X'80'" PRINT SPECIAL PCE ID
		.1..		PCEPUSID	"X'40'" PUNCH SPECIAL PCE ID
		..1.		PCEXFRID	"X'20'" XFR SPECIAL PCE ID
		PCEID - BYTE2 (UNIQUE PCE ID) - HASP DEFINITIONS HASP PCE IDS ARE ASSIGNED FROM 1 AND INCREASE. USER PCE IDS PCE IDS SHOULD BE ASSIGNED FROM 255 AND DECREASE. EACH PCE TYPE IS DEFINED IN THE HASP OR USER PCE TABLE, WITH POSSIBLY MULTIPLE ENTRIES FOR EACH UNIQUE PCE ID (WITH DIFFERENT VALUES FOR PCEID BYTE1).			
		Work Area Macro Descriptive name			
320	(140)	X'1'	0	PCERDRID	"1" $RDRWORK - Input Services
320	(140)	X'2'	0	PCEASYID	"2" $ASYWORK - Asynchronous I/O
320	(140)	X'3'	0	PCECNVID	"3" $CNVWORK - Converter
320	(140)	X'4'	0	PCEXEQID	"4" $XEQWORK - Execution
320	(140)	X'5'	0	PCEPSOID	"5" $PSOWORK - Process SYSOUT
320	(140)	X'6'	0	PCEOUTID	"6" $OUTWORK - Output
320	(140)	X'7'	0	PCEPRTID	"7" $PPPWORK - Print $FSSWORK - FSS Print Support
320	(140)	X'8'	0	PCEPUNID	"8" $PPPWORK - Punch
320	(140)	X'9'	0	PCEPRGID	"9" $PRGWORK - Purge
320	(140)	X'A'	0	PCECONID	"10" $COMWORK - Command
320	(140)	X'B'	0	PCEMLMID	"11" $MLMWORK - Multi-leaving Line Mgr
320	(140)	X'C'	0	PCETIMID	"12" $TIMWORK - STIMER/TTIMER
320	(140)	X'D'	0	PCECKPID	"13" $CKPWORK - Checkpoint
320	(140)	X'E'	0	PCEJPAID	"14" $JPAWORK - Priority Aging
320	(140)	X'F'	0	PCEWRMID	"15" $WARMWRK - Warm Start
320	(140)	X'10'	0	PCENJTID	"16" $NJTWORK - NJE Job Transmitter
320	(140)	X'11'	0	PCENJRID	"17" $RDRWORK - NJE Job Receiver
320	(140)	X'12'	0	PCENSTID	"18" $NSTWORK - NJE SYSOUT Transmitter
320	(140)	X'13'	0	PCENSRID	"19" $NSRWORK - NJE SYSOUT Receiver
320	(140)	X'14'	0	PCENPMID	"20" $NPMWORK - NJE Path Manager
320	(140)	X'15'	0	PCERCPID	"21" $RCPWORK - Remote Console

Table 384. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
320	(140)	X'16'	0	PCETEXID	"22" $TEXWORK - Time Excession Monitor
320	(140)	X'17'	0	PCEINTID	"23" $CIRWORK - Initialization
320	(140)	X'18'	0	PCEVTLID	"24" $TLGWORK - Event Trace Log
320	(140)	X'19'	0	PCEXFMID	"25" $XFMWORK - SPOOL Transfer I/O Mgr
320	(140)	X'1A'	0	PCESPMID	"26" $SPMWORK - SPOOL Manager
320	(140)	X'1B'	0	PCENRRID	"27" $RDRWORK - NJE Route Receiver
320	(140)	X'1C'	0	PCENRTID	"28" $NJTWORK - NJE Route Transmitter
320	(140)	X'1D'	0	PCESNFID	"29" $SNFWORK - SPOOL sniffer
320	(140)	X'1E'	0	PCERESID	"30" $RESWORK - Resource Manager
320	(140)	X'1F'	0	PCESTCID	"31" $STCWORK - STATUS/CANCEL
320	(140)	X'20'	0	PCESPNID	"32" $SPNWORK - Spin Services
320	(140)	X'21'	0	PCESFSID	"33" $SFRWORK - Scheduler Services
320	(140)	X'22'	0	PCEOPAID	"34" $OPAWORK - Output Priority Aging
320	(140)	X'23'	0	PCEFCLID	"35" $FCLWORK - FSS Cleanup on EOM
320	(140)	X'24'	0	PCEXCFID	"36" $XPWORK - Coupling
320	(140)	X'25'	0	PCEJCMID	"37" $JCMWORK - Job Command Processor
320	(140)	X'26'	0	PCEARMID	"38" $ARMWORK - ARM support processor
320	(140)	X'27'	0	PCEXCMID	"39" $XCMWORK - XCF Command Processor
320	(140)	X'28'	0	PCESPIID	"40" $SPIWORK - Sysout API Processor
320	(140)	X'29'	0	PCEDILID	"41" $DILWORK - 'Do It Later' processor
320	(140)	X'2A'	0	PCEENFID	"42" $ENFWORK - ENF LISTEN processor
320	(140)	X'2B'	0	PCEALIID	"43" $ALIWORK - Acquire lock & cleanup
320	(140)	X'2C'	0	PCEMSCID	"44" $MSCWORK - Miscellaneous processor
320	(140)	X'2D'	0	PCEEOMID	"45" $EOMWORK - End-of-Memory processor
320	(140)	X'2E'	0	PCEJQRID	"46" $JQRWORK - JQE Request processor
320	(140)	X'2F'	0	PCEIRCID	"47" $IRCWORK - Internal reader cleanup
320	(140)	X'30'	0	PCEDWNID	"48" $DAWNWRK - DAWN processor
320	(140)	X'31'	0	PCENRMID	"49" $NRMWORK - NJE Resource Monitor
320	(140)	X'32'	0	PCECDCID	"50" $CDCWORK - Cross-system Device
320	(140)	X'33'	0	PCEDLSID	"51" $DLSWORK - Deadline scheduling
320	(140)	X'34'	0	PCEJOIID	"52" $JOEIWRK - JOEI processor

$PCE mapping

Table 385. Cross Reference for $PCE

Name	Offset	Hex Tag
PCE	0	
PCEACTCT	12C	
PCEALIID	140	2B
PCEARMID	140	26
PCEASID	128	
PCEASYID	140	2
PCEBKLCT	134	
PCEBUFAD	F8	
PCEBUFCN	100	
PCECDCID	140	32
PCECEMER	C3	40
PCECKPID	140	D
PCECNVID	140	3
PCECONID	140	A
PCEDADCT	E0	
PCEDAFL3	103	
PCEDALEN	103	1C
PCEDARD	102	0
PCEDAWR	102	1
PCEDCT	108	
PCEDCTFL	EC	
PCEDCTPC	E8	
PCEDEVTP	102	
PCEDILID	140	29
PCEDLSID	140	33
PCEDOM68	0	48
PCEDSPXP	C1	40
PCEDSPXT	C1	20
PCEDWNID	140	30
PCEENFID	140	2A
PCEEOMID	140	2D
PCEERA	B8	
PCEEWF	C0	
PCEEYE	0	
PCEFCLID	140	23
PCEFLAGS	C1	
PCEFLAG2	C2	
PCEFLAG3	12A	
PCEFLGCS	C3	
PCEFSACB	11C	
PCEGEMOK	C3	80
PCEID	C6	
PCEINRID	140	8
PCEINTID	140	17
PCEIOEWF	FC	
PCEIRCID	140	2F
PCEJCMID	140	25
PCEJOBID	110	
PCEJOIID	140	34

Table 385. Cross Reference for $PCE (continued)

Name	Offset	Hex Tag
PCEJPAID	140	E
PCEJQE	10C	
PCEJQEIX	114	
PCEJQRID	140	2E
PCELCLID	140	1
PCELENG	104	
PCELPSV	0	4C
PCEMLMID	140	B
PCEMQTR	F2	
PCEMQTRD	F0	
PCEMSCID	140	2C
PCENDSPC	C4	
PCENEXT	AC	
PCENJEID	140	4
PCENJRID	140	11
PCENJTID	140	10
PCENODEV	140	0
PCENPMID	140	14
PCENRMID	140	31
PCENRRID	140	1B
PCENRTID	140	1C
PCENSRID	140	13
PCENSTID	140	12
PCENTITY	124	
PCENWIOP	C1	10
PCEOPAID	140	22
PCEOUTID	140	6
PCEPCEA	B0	
PCEPCEB	B4	
PCEPCECT	130	
PCEPNADJ	138	
PCEPOSTD	D0	
PCEPRE	BC	
PCEPREV	A8	
PCEPRGID	140	9
PCEPRIO	C1	2
PCEPRSID	140	80
PCEPRTID	140	7
PCEPSOID	140	5
PCEPSTCH	D4	
PCEPSTEW	D3	
PCEPTAB	118	
PCEPUNID	140	8
PCEPUSID	140	40
PCERCPID	140	15
PCERDRID	140	1
PCEREQIR	C1	1
PCERESID	140	1E
PCERJEID	140	2

Table 385. Cross Reference for $PCE (continued)

Name	Offset	Hex Tag
PCEROLOQ	106	
PCESEEK	F0	
PCESEEKF	F0	
PCESEQ	107	
PCESFSID	140	21
PCESNFID	140	1D
PCESPIID	140	28
PCESPMID	140	1A
PCESPNID	140	20
PCESTCID	140	1F
PCETEXID	140	16
PCETIMID	140	C
PCETRACE	C1	80
PCETRLDS	C1	4
PCETRPSF	C1	8
PCEUSER0	C8	
PCEUSER1	CC	
PCEVTLID	140	18
PCEWAVE	120	
PCEWORK	140	
PCEWORKA	13C	
PCEWRMID	140	F
PCEWTTIM	D8	
PCEXCFID	140	24
PCEXCMID	140	27
PCEXEQID	140	4
PCEXFMID	140	19
PCEXFRID	140	20
PCEXITID	0	99
PCE2EBUF	C2	40
PCE2ENDD	C2	80
PCE2EVNT	C2	20
PCE2INIT	C2	10
PCE2QSUS	C2	8
PCE2SJID	C2	2
PCE2SJIX	C2	1
PCE2XWTR	C2	4
PCE3HPFL	12A	80
PCE3NO$W	12A	40
PCE3PST1	12A	20

Chapter 164. $PCL Information

$PCL Heading Information

Common Name: Persistent Connection Line element
Macro ID: $PCL
DSECT Name: PCL
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'PCL '
Offset: PCLID-PCL
Length: 4
Storage Attributes: Subpool: n/a
Key: 1
Residency: In the jesxPCL data space in cpool PCL

Size: See PCLLEN
Created by: JES2 line manager
Pointed to by: MDCTPCL field of the $DCT data area
NSCSPCL field of the $NSCT data area
NSSLPCL field of the $NSST data area
PCTPCLAQ field of the $PCT data area
PCTPCLSQ field of the $PCT data area
PCLPCL field of the $PCL data area
PCLPCLSV field of the $PCL data area
PCLNEXT field of the $PCL data area
PCLPREV field of the $PCL data area
PCLSNEXT field of the $PCL data area
PCLSPREV field of the $PCL data area
TBFPCL field of the $TBUF data area
TBFLNPCL field of the $TBUF data area
Serialization: Most fields require only JES2 main task serialization.
Chaining fields generally are serialized by the
FIFOENQ service.
Function: Contains parameters for a line or NETSRV device
which are shared between the JES2 address space and
the NJE server address space.

$PCL mapping

Table 386. Structure PCL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCL	
0	(0)	CHARACTER	4	PCLID	PCL eyecatcher
4	(4)	ADDRESS	1	PCLVER	PCL version number
4	(4)	X'1'	0	PCLVERN	"1" PCL version
5	(5)	BITSTRING	1	PCLDTYPE	PCL Device type
5	(5)	X'1'	0	PCLDTLNE	"1" PCL associated with Line
5	(5)	X'2'	0	PCLDTSRV	"2" PCL associated with Server
6	(6)	BITSTRING	1	PCLTTYPE	PCL Connection type
6	(6)	X'1'	0	PCLTTCP	"1" TCP/IP connection
8	(8)	ADDRESS	4	PCLNEXT	Address of next PCL

Table 386. Structure PCL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
12	(C)	ADDRESS	4	PCLPREV	Address of prior PCL
		The node definitions below define the local node (for server PCLs) or the adjacent node node (for line PCLs)			
16	(10)	CHARACTER	8	PCLNNAME	Node name
24	(18)	SIGNED	2	PCLNNUM	Node number
26	(1A)	BITSTRING	2		Reserved
28	(1C)	ADDRESS	4	PCLDCT	DCT address (JES2 Private)
32	(20)	SIGNED	2	PCLDNUM	Device number of DCT
34	(22)	BITSTRING	1	PCLFLAG1	Common PCL Flags
		1...		PCL1TRAC	"B'10000000'" JES tracing active
		.1..		PCL1CTRC	"B'01000000'" NETSRV tracing active
		..1.		PCL1VERB	"B'00100000'" Verbose diagnostics
35	(23)	BITSTRING	1		Reserved
		Outbound buffers are queued here. These buffers are in the jesxTBUF data space. The buffers are added to the tail of the queue and removed from the head atomically via the PLO instruction.			
36	(24)	ADDRESS	4	PCLOBUFH	Outbound buffer queue head
40	(28)	ADDRESS	4	PCLOBUFT	Outbound buffer queue tail
		Inbound buffers are queued here. These buffers are in the jesxTBUF data space. The buffers are added to the tail of the queue and removed from the head atomically via the PLO instruction.			
44	(2C)	ADDRESS	4	PCLIBUFH	Inbound buffer queue head
48	(30)	ADDRESS	4	PCLIBUFT	Inbound buffer queue tail
52	(34)	SIGNED	4	PCLICNT	Inbound buffer queue count
56	(38)	DBL WORD	8	PCLEXORG(0)	Origins for PCL extension
		Extension for LINE type PCLs			
56	(38)	BITSTRING	2	PCLREST	Connection resistance
58	(3A)	BITSTRING	1	PCLQUAL	Member # of adjacent node
60	(3C)	ADDRESS	4	PCLSNEXT	Next line on server chain
64	(40)	ADDRESS	4	PCLSPREV	Prior line on server chain
68	(44)	ADDRESS	4	PCLPCLSV	Pointer to server PCL
72	(48)	BITSTRING	1	PCLLFLG1	Flags
		1...		PCLL1DED	"B'10000000'" A dedicated packet of subdevices is associated with this line
		.1..		PCLL1DND	"B'01000000'" Line is dedicated to node
		..1.		PCLL1DSC	"B'00100000'" Line is dedicated to socket
		...1		PCLL1CON	"B'00010000'" This line is connected
		.... 1...		PCLL1NET	"B'00001000'" Networking has started
		.... .1..		PCLL1DPR	"B'00000100'" Default port used
		.... ..1.		PCLL1KIL	"B'00000010'" Disconnect line
		1		PCLL1STR	"B'00000001'" Subtask requested

Table 386. Structure PCL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
73	(49)	BITSTRING	1	PCLLFLG2	Flags
		1...		PCLL2SSL	"B'10000000'" Secure socket used
		.1..		PCLL2NTY	"B'01000000'" Non-retryable error
74	(4A)	BITSTRING	2		Reserved
76	(4C)	ADDRESS	4	PCLNLDV(0)	Subdevice counts
76	(4C)	ADDRESS	1	PCLJTNM	Number of job xmitters
77	(4D)	ADDRESS	1	PCLJRNM	Number of job receivers
78	(4E)	ADDRESS	1	PCLSTNM	Number of SYSOUT xmitters
79	(4F)	ADDRESS	1	PCLSRNM	Number of sysout receivers
Data specific to each subdevice (line counts, etc)					
80	(50)	DBL WORD	8	PCLELM(0)	Force alignment
80	(50)	BITSTRING	112	PCLJTELM(7)	Data for 7 job xmitters
192	(C0)	BITSTRING	112	PCLJRELM(7)	Data for 7 job receivers
304	(130)	BITSTRING	168	PCLSTELM(7)	Data for 7 SYSOUT xmitters
472	(1D8)	BITSTRING	1	PCLSRELM(7)	Data for 7 SYSOUT receivers
472	(1D8)	X'1F8'	0	PCLELML	"*-PCLELM" Composite area length
584	(248)	DBL WORD	8	PCLDATA(0)	Variable data, based on PCLTYPE
TCP/IP Line specific data					
584	(248)	ADDRESS	4	PCLNSST	Address of NSST (in netsrv address space)
588	(24C)	CHARACTER	8	PCLLSCKN	Name of associated SCK
596	(254)	CHARACTER	255	PCLLIPNM	IP address (EBCDIC)
851	(353)	CHARACTER	1		Reserved
852	(354)	BITSTRING	16	PCLLIPAD	IP address (binary)
868	(364)	CHARACTER	16	PCLLPRTN	Port name (EBCDIC)
884	(374)	SIGNED	2	PCLLPORT	Port number (binary)
886	(376)	SIGNED	2	PCLLOPRT	Original port # from socket
888	(378)	BITSTRING	4	PCLLFEAT	Signon feature flags
892	(37C)	SIGNED	4	PCLLSKID	Socket id (assigned by IAZNJSTK)
896	(380)	BITSTRING	16	PCLLSTTT	NETSRV subtask TCB token
912	(390)	SIGNED	4	(4)	Reserved for future use
928	(3A0)	DBL WORD	8	(0)	
Extension for SERVER type PCLs					
56	(38)	CHARACTER	8	PCLPGM	Program to start
64	(40)	CHARACTER	8	PCLPROC	Proc to use
72	(48)	CHARACTER	8	PCLNAME	Address space name
80	(50)	CHARACTER	8	PCLSTACK	TCP/IP Stack to listen on
88	(58)	BITSTRING	8	PCLASCBT	Address Space Token
96	(60)	ADDRESS	4	PCLASCB	ASCB address
100	(64)	SIGNED	2	PCLASID	ASID
102	(66)	SIGNED	2	PCLSBFSZ	Maximum buffer size
104	(68)	BITSTRING	4	PCLSFEAT	Signon feature flags
108	(6C)	ADDRESS	2	PCLKEEPI	Keepalive interval
110	(6E)	BITSTRING	2		Reserved for future use
Queue heads for line DCTs running under this server					
112	(70)	ADDRESS	4	PCLLPCLH	Line PCL queue head
116	(74)	ADDRESS	4	PCLLPCLT	Line PCL queue tail
120	(78)	DBL WORD	8	PCLSDATA(0)	Server dependent data

Table 386. Structure PCL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
	TCP/IP Server specific data				
120	(78)	ADDRESS	4	PCLTCT	Address of IAZYTCT (in netsrv address space)
124	(7C)	ADDRESS	4	PCLNCPE	Address of post element
128	(80)	CHARACTER	8	PCLSSCKN	Name of associated SCK
136	(88)	CHARACTER	255	PCLSIPNM	Server IP address (EBCDIC)
391	(187)	CHARACTER	1		Reserved
392	(188)	BITSTRING	16	PCLSIPAD	Server IP address (binary)
408	(198)	CHARACTER	16	PCLSPRTN	Server Port name (EBCDIC)
424	(1A8)	SIGNED	2	PCLSPORT	Server Port number (binary)
426	(1AA)	BITSTRING	1	PCLSFLG1	Server Flags
		1...		PCLS1SSL	"B'10000000'" Secure socket
		.1..		PCLS1SLO	"B'01000000'" Secure socket only
		..1.		PCLS1SLD	"B'00100000'" SSL defaulted from socket
		...1		PCLS1DIP	"B'00010000'" Default PORT value used
		.... 1...		PCLS1DPR	"B'00001000'" Default IP address used
		.... .1..		PCLS1DRN	"B'00000100'" $P NETSRV issued
432	(1B0)	DBL WORD	8	(0)	End of type dependent data
928	(3A0)	X'3A0'	0	PCLLEN	"*-PCL"

Table 387. Structure PCLJT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCLJT	Job Transmitter data
0	(0)	SIGNED	4	PCLJTJID	Job # of active job
4	(4)	BITSTRING	1	PCLJTFG1	Status flags
		1...		PCLJTF1C	"B'10000000'" Job complete
		.1..		PCLJTF1R	"B'01000000'" Restart job
		..1.		PCLJTF1H	"B'00100000'" Hold job
		...1		PCLJTF1D	"B'00010000'" Drain transmitter
		.... 1...		PCLJTF1S	"B'00001000'" Start transmitter
		.... .1..		PCLJTF1E	"B'00000100'" $C/$E of xmitter issued
		.... ..1.		PCLJTF1F	"B'00000010'" EOF sent for current job
		1		PCLJTF1W	"B'00000001'" Wake up xmitter PCE
5	(5)	BITSTRING	3		Reserved for future use
8	(8)	SIGNED	4	PCLJTRCT	Records sent so far
12	(C)	SIGNED	4	PCLJTRTO	Total records in job stream
12	(C)	X'10'	0	PCLJTLEN	"*-PCLJT" Size

Table 388. Structure PCLJR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCLJR	Job Receiver data
0	(0)	SIGNED	4	PCLJRJID	Job # of active job

Table 388. Structure PCLJR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	BITSTRING	1	PCLJRFG1	Status flags
		1...		PCLJRF1D	"B'10000000'" Receiver is drained
		.1..		PCLJRF1C	"B'01000000'" $C of receiver issued
		..1.		PCLJRF1E	"B'00100000'" $E of receiver issued
		...1		PCLJRF1F	"B'00010000'" EOF received current job
5	(5)	BITSTRING	3		Reserved for future use
8	(8)	SIGNED	4	PCLJRRCT	Records received so far
12	(C)	SIGNED	4	PCLJRRTO	Total records in job stream
12	(C)	X'10'	0	PCLJRLEN	"*-PCLJR" Size

Table 389. Structure PCLST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCLST	SYSOUT Transmitter data
0	(0)	SIGNED	4	PCLSTJID	Job # of active job
4	(4)	SIGNED	4	PCLSTNCH	Offset of first JOE
8	(8)	BITSTRING	1	PCLSTFG1	Status flags
		1...		PCLSTF1C	"B'10000000'" Job complete
		.1..		PCLSTF1R	"B'01000000'" Restart job
		..1.		PCLSTF1H	"B'00100000'" Hold job
		...1		PCLSTF1D	"B'00010000'" Drain transmitter
		.... 1...		PCLSTF1S	"B'00001000'" Start transmitter
		.... .1..		PCLSTF1E	"B'00000100'" $C/$E of xmitter issued
		.... ..1.		PCLSTF1F	"B'00000010'" EOF sent for current job
		1		PCLSTF1W	"B'00000001'" Wake up xmitter PCE
9	(9)	BITSTRING	1	PCLSTFG2	Status flags - Flags to be serialized by OIL & NIL
		1...		PCLSTF2O	"B'10000000'" Hold Joes
10	(A)	BITSTRING	2		Reserved for future use
12	(C)	SIGNED	4	PCLSTRCT	Records sent so far
16	(10)	SIGNED	4	PCLSTRTO	Total records in SYSOUT stream
20	(14)	SIGNED	4	PCLSTEXC	# of logical puts to line
20	(14)	X'18'	0	PCLSTLEN	"*-PCLST" Size

Table 390. Structure PCLSR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCLSR	SYSOUT Receiver data
0	(0)	SIGNED	4	PCLSRJID	Job # of active job
4	(4)	BITSTRING	1	PCLSRFG1	Status flags
		1...		PCLSRF1D	"B'10000000'" Receiver is drained
		.1..		PCLSRF1C	"B'01000000'" $C of receiver issued

Table 390. Structure PCLSR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		PCLSRF1E	"B'00100000'" $E of receiver issued
		...1		PCLSRF1F	"B'00010000'" EOF received current job
5	(5)	BITSTRING	3		Reserved for future use
8	(8)	SIGNED	4	PCLSRRCT	Records received so far
12	(C)	SIGNED	4	PCLSRRTO	Total records in SYSOUT stream
12	(C)	X'10'	0	PCLSRLEN	"*-PCLSR" Size

Table 391. Cross Reference for $PCL

Name	Offset	Hex Tag
PCL	0	
PCLASCB	60	
PCLASCBT	58	
PCLASID	64	
PCLDATA	248	
PCLDCT	1C	
PCLDNUM	20	
PCLDTLNE	5	1
PCLDTSRV	5	2
PCLDTYPE	5	
PCLELM	50	
PCLELML	1D8	1F8
PCLEXORG	38	
PCLFLAG1	22	
PCLIBUFH	2C	
PCLIBUFT	30	
PCLICNT	34	
PCLID	0	D7C3D340
PCLJR	0	
PCLJRELM	C0	
PCLJRFG1	4	
PCLJRF1C	4	40
PCLJRF1D	4	80
PCLJRF1E	4	20
PCLJRF1F	4	10
PCLJRJID	0	
PCLJRLEN	C	10
PCLJRNM	4D	
PCLJRRCT	8	
PCLJRRTO	C	
PCLJT	0	
PCLJTELM	50	
PCLJTFG1	4	
PCLJTF1C	4	80
PCLJTF1D	4	10
PCLJTF1E	4	4
PCLJTF1F	4	2

Table 391. Cross Reference for $PCL (continued)

Name	Offset	Hex Tag
PCLJTF1H	4	20
PCLJTF1R	4	40
PCLJTF1S	4	8
PCLJTF1W	4	1
PCLJTJID	0	
PCLJTLEN	C	10
PCLJTNM	4C	
PCLJTRCT	8	
PCLJTRTO	C	
PCLKEEPI	6C	
PCLLEN	3A0	3A0
PCLLFEAT	378	
PCLLFLG1	48	
PCLLFLG2	49	
PCLLIPAD	354	
PCLLIPNM	254	
PCLLOPRT	376	
PCLLPCLH	70	
PCLLPCLT	74	
PCLLPORT	374	
PCLLPRTN	364	
PCLLSCKN	24C	
PCLLSKID	37C	
PCLLSTTT	380	
PCLL1CON	48	10
PCLL1DED	48	80
PCLL1DND	48	40
PCLL1DPR	48	4
PCLL1DSC	48	20
PCLL1KIL	48	2
PCLL1NET	48	8
PCLL1STR	48	1
PCLL2NTY	49	40
PCLL2SSL	49	80
PCLNAME	48	9185A2A7
PCLNCPE	7C	
PCLNEXT	8	
PCLNLDV	4C	
PCLNNAME	10	
PCLNNUM	18	
PCLNSST	248	
PCLOBUFH	24	
PCLOBUFT	28	
PCLPCLSV	44	
PCLPGM	38	C9C1E9D5
PCLPREV	C	
PCLPROC	40	C9C5C5E2
PCLQUAL	3A	
PCLREST	38	

Table 391. Cross Reference for $PCL (continued)

Name	Offset	Hex Tag
PCLSBFSZ	66	
PCLSDATA	78	
PCLSFEAT	68	
PCLSFLG1	1AA	
PCLSIPAD	188	
PCLSIPNM	88	
PCLSNEXT	3C	
PCLSPORT	1A8	
PCLSPREV	40	
PCLSPRTN	198	
PCLSR	0	
PCLSRELM	1D8	
PCLSRFG1	4	
PCLSRF1C	4	40
PCLSRF1D	4	80
PCLSRF1E	4	20
PCLSRF1F	4	10
PCLSRJID	0	
PCLSRLEN	C	10
PCLSRNM	4F	
PCLSRRCT	8	
PCLSRRTO	C	
PCLSSCKN	80	
PCLST	0	
PCLSTACK	50	40404040
PCLSTELM	130	
PCLSTEXC	14	
PCLSTFG1	8	
PCLSTFG2	9	
PCLSTF1C	8	80
PCLSTF1D	8	10
PCLSTF1E	8	4
PCLSTF1F	8	2
PCLSTF1H	8	20
PCLSTF1R	8	40
PCLSTF1S	8	8
PCLSTF1W	8	1
PCLSTF2O	9	80
PCLSTJID	0	
PCLSTLEN	14	18
PCLSTNCH	4	
PCLSTNM	4E	
PCLSTRCT	C	
PCLSTRTO	10	
PCLS1DIP	1AA	10
PCLS1DPR	1AA	8
PCLS1DRN	1AA	4
PCLS1SLD	1AA	20
PCLS1SLO	1AA	40

Table 391. Cross Reference for $PCL (continued)

Name	Offset	Hex Tag
PCLS1SSL	1AA	80
PCLTCT	78	
PCLTTCP	6	1
PCLTTYPE	6	
PCLVER	4	
PCLVERN	4	1
PCL1CTRC	22	40
PCL1TRAC	22	80
PCL1VERB	22	20

Chapter 165. $PCT Information

$PCT Programming Interface Information

The following fields are **NOT** programming interface information:

- PCTPCLAH
- PCTPCLAQ
- PCTPCLAT
- PCTPCLSH
- PCTPCLSQ
- PCTPCLST

$PCT Heading Information

Common Name:	Path Manager Control Table
Macro ID:	$PCT
DSECT Name:	PCT
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'PCT ' Offset: PCTID-PCT Length: 4
Storage Attributes:	Subpool: 241 Key: 1 Residency: Virtual and real storage are anywhere (above or below 16M) in CSA
Size:	See PCTLEN
Created by:	Routine IRSSI during JES2 initialization
Pointed to by:	CCTPCT field of the $HCCT data area
Serialization:	Most fields require only JES2 main task serialization. However, some fields also require serialization with a general purpose subtask if it is possible to affect the field while a "full path" analysis is in progress.
Function:	Contains the main parameters for, and anchors the work queues for, the JES2 network path manager.

$PCT mapping

Table 392. Structure PCT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCT	
0	(0)	CHARACTER	4	PCTID	PCT eyecatcher
4	(4)	ADDRESS	1	PCTVER	PCT version number
4	(4)	X'3'	0	PCTVERN	"3" PCT version
5	(5)	BITSTRING	3		Reserved for future use
		NAT queue heads and other fields are maintained across a hot start			
8	(8)	ADDRESS	4	PCTNATAH	Ptr to head of active NAT queue

Table 392. Structure PCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
12	(C)	ADDRESS	4	PCTNATAT	Ptr to tail of active NAT queue
16	(10)	ADDRESS	4	PCTNATUH	Ptr to head of unconnected NAT que
20	(14)	ADDRESS	4	PCTNATUT	Ptr to tail of unconnected NAT que
24	(18)	ADDRESS	4	PCTNATHH	Ptr to head of held NAT queue
28	(1C)	ADDRESS	4	PCTNATHT	Ptr to tail of held NAT queue
32	(20)	ADDRESS	4	PCTNATNH	Head of temp ACTIVE NAT que
36	(24)	ADDRESS	4	PCTNATNT	Tail of temp ACTIVE NAT que
36	(24)	X'8'	0	PCTNATQS	"PCTNATAH,*-PCTNATAH" All NAT queue heads/tails
40	(28)	SIGNED	4	PCTTTOL	TOD tolerance for connections
40	(28)	X'15180'	0	PCTTTOLD	"1440*60" Default TOD tolerance
44	(2C)	ADDRESS	4	PCTTINQ(0)	TCP/IP NPM buffer queue
44	(2C)	ADDRESS	4	PCTTINQH	TCP/IP NPM buffer q head
48	(30)	ADDRESS	4	PCTTINQT	TCP/IP NPM buffer q tail
52	(34)	ADDRESS	4	PCTTRCPQ(0)	TCP/IP RCP buffer chain
52	(34)	ADDRESS	4	PCTTRCPH	TCP/IP RCP buffer q head
56	(38)	ADDRESS	4	PCTTRCPT	TCP/IP RCP buffer q tail
60	(3C)	ADDRESS	4	PCTTMPIQ(0)	Temp inbound TCP buf q
60	(3C)	ADDRESS	4	PCTTMPIH	Temp inbound TCP buf q head
64	(40)	ADDRESS	4	PCTTMPIT	Temp inbound TCP buf q tail
68	(44)	SIGNED	4	PCTTBFCT	Count of allocated TBUFs
72	(48)	ADDRESS	4		
76	(4C)	BITSTRING	4	PCTNALET	ALET for NAT cell pool
80	(50)	BITSTRING	4	PCTPALET	ALET for PCL cell pool
84	(54)	BITSTRING	4	PCTTALET	ALET for TBUF cell pool
88	(58)	ADDRESS	4	PCTPCLAQ(0)	Active line PCL queue
88	(58)	ADDRESS	4	PCTPCLAH	Active line PCL head
92	(5C)	ADDRESS	4	PCTPCLAT	Active line PCL tail
96	(60)	ADDRESS	4	PCTPCLSQ(0)	Active Server PCL queue
96	(60)	ADDRESS	4	PCTPCLSH	Active Server PCL head
100	(64)	ADDRESS	4	PCTPCLST	Active Server PCL tail
104	(68)	CHARACTER	16	PCTMBNAM	NPM Mail box name
		Line manager post flags. These flags correspond directly to the flags define in MLMSCNR1, MLMSCNR2, and MLMEVNTR and must be maintained in this order. OIL and NIL should be used to set the flags; Compare-and-swap is used in the line manager PCE to clear them.			
120	(78)	SIGNED	4	PCTMLMSC(0)	MLM SCAN flag bits
120	(78)	BITSTRING	1	PCTMLMR1	Corresponds to MLMSCNR1
121	(79)	BITSTRING	1	PCTMLMR2	Corresponds to MLMSCNR2
122	(7A)	BITSTRING	1	PCTMLMER	Corresponds to MLMEVNTR
123	(7B)	BITSTRING	1		Fourth byte of PCTMLMSC
124	(7C)	SIGNED	2	PCTNPATH	Number of paths
126	(7E)	SIGNED	2	PCTMXHOP	Maximum NJE hop count
128	(80)	SIGNED	2	PCTANINT	Default NJE retry interval (minutes)
130	(82)	SIGNED	2		Reserved for future use
132	(84)	SIGNED	4	(3)	Reserved for future use

Table 392. Structure PCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Pointers to private areas, work fields, etc. must be cleared on a hot start			
132	(84)	X'90'	0	PCTHOTC	"*" Start of area to clear on hot start
144	(90)	ADDRESS	1	PCTFLAG1	NPM process control flags
		1...		PCT1PATH	"B'10000000'" Full path required
		.1..		PCT1FPNP	"B'01000000'" Full path in progress
		..1.		PCT1NTUP	"B'00100000'" A NAT update has occured
		...1		PCT1NOT	"B'00010000'" Notify required
		.... 1...		PCT1NERR	"B'00001000'" NAT error detected
		.... .1..		PCT1NREC	"B'00000100'" NRECEIVE in progress
		.... ..1.		PCT1DOWN	"B'00000010'" NPM is down
145	(91)	ADDRESS	1	PCTFLAG2	Flags
		1...		PCT2NSUB	"B'10000000'" NSETSUBS recovery is in progress
		.1..		PCT2NSSS	"B'01000000'" NETSRV SUBSYS switch
		1		PCT2NSIM	"B'00000001'" NPMSIM flag (used for internal JES2 testing)
146	(92)	BITSTRING	6		Reserved for future use
152	(98)	DBL WORD	8	PCTFPTIM	Time last fullpath started
160	(A0)	ADDRESS	4	PCTPATHS	NPMNITPs used by full path
164	(A4)	ADDRESS	4	PCTWORKQ	Queue of nodes for full path to process
168	(A8)	ADDRESS	4	PCTNTQUQ	Unprocessed NTQ chain
172	(AC)	ADDRESS	4	PCTNTQPQ	Processed NTQ chain
176	(B0)	ADDRESS	4	PCTSONQ	Signon queue anchor
180	(B4)	ADDRESS	4	PCTRESPQ	Response queue anchor
184	(B8)	ADDRESS	4	PCTACTL	Active net line DCTs anchor
188	(BC)	ADDRESS	4	PCTRSTL	DCT line restart queue head
192	(C0)	ADDRESS	4	PCTRSTN	DCT NJE restart queue head
196	(C4)	ADDRESS	4	PCTINQ	BSC input buffer queue anchor
200	(C8)	ADDRESS	4	PCTVINQ	VTAM input buffer queue anchor
204	(CC)	ADDRESS	4	PCTMASDN	MAS line drain queue
208	(D0)	ADDRESS	4	PCTPRPIQ	I/J across MAS pending DCT
212	(D4)	SIGNED	2	PCTLNENM	Total number of lines that can do NJE
214	(D6)	SIGNED	2	PCTMAPLN	Length of notify maps
216	(D8)	ADDRESS	4	PCTMINX	Master notify map anchor
220	(DC)	ADDRESS	4	PCTMINXM	MAS master notify map addr
224	(E0)	ADDRESS	4	PCTWINX	Work notify map anchor
228	(E4)	ADDRESS	4	PCTMAPQ	Queue of available notify maps
232	(E8)	ADDRESS	4	PCTNSAAQ	Active net subnet ct head
		Addresses of MAS line DCTs for Nodal SPOOLing			
236	(EC)	SIGNED	4	(0)	
236	(EC)	SIGNED	4	PCTDCT1(0)	MAS line DCT address for members 1 through n
364	(16C)	SIGNED	4	PCTMTIME	Time of last NMAINT call

Table 392. Structure PCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
368	(170)	ADDRESS	4	PCTNTW	NPM $TRACE work area
		The following fields are used by routine NPDDMSG to build a symptom record.			
372	(174)	CHARACTER	44	PCTNCC	Current NCC record being received and processed
416	(1A0)	ADDRESS	4	PCTNTQ	Address of current NTQ being processed
420	(1A4)	ADDRESS	4	PCTEDCT	Address of DCT that is related to the error
424	(1A8)	ADDRESS	4	PCTENIT	Address of NIT that is related to the error
		The following fields are used by NPEVENT to set CES values for signons.			
432	(1B0)	DBL WORD	8	PCTTOD	Time of day clock value
440	(1B8)	SIGNED	4	PCTEVENT	Current CES value
		The following field contains NJE feature flags for features supported by this system			
444	(1BC)	SIGNED	4	PCTIFEAT	NJE feature flags supported by JES2
448	(1C0)	SIGNED	4	PCTNSFEA	NJE feature flags owned by NETSRV, not JES2
452	(1C4)	SIGNED	4	PCTTFEAT	Feature flags to be turned off (test purposes only)
452	(1C4)	X'138'	0	PCTHOTCL	"*-PCTHOTC" Length to be cleared
452	(1C4)	X'1C8'	0	PCTLEN	"*-PCT" Length of the PCT
		Input error reason codes from all the NAT service routines. These reason codes are provided here to ensure that they are consistent from routine to routine. The reason codes are returned in register 0 when an input error has been detected in a service routine. Note that the RETURN code for input errors varies from routine to routine, but the reason codes associated with that return code are the same for all routines.			
452	(1C4)	X'0'	0	PCT$RC00	"0" A required control block address was not provided
452	(1C4)	X'4'	0	PCT$RCN1	"4" The primary node in the prototype NAT was invalid, or omitted when required
452	(1C4)	X'8'	0	PCT$RCM1	"8" The primary member in the prototype NAT was invalid, or omitted when required
452	(1C4)	X'C'	0	PCT$RCN2	"12" The 2ndary node in the prototype NAT was invalid, or omitted when required
452	(1C4)	X'10'	0	PCT$RCM2	"16" The 2ndary member in the prototype NAT was invalid, or omitted when required
452	(1C4)	X'14'	0	PCT$RCRS	"20" The resistance specified in the prototype NAT was invalid
452	(1C4)	X'18'	0	PCT$RCDP	"24" The primary and secondary node and member of the prototype were identical ($NATADD only)

Table 392. Structure PCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
452	(1C4)	X'1C'	0	PCT$RCST	"28" The status of the NAT was not one of ACTIVE, INACTIVE, or HELD, or was invalid for that NAT

Table 393. Cross Reference for $PCT

Name	Offset	Hex Tag
PCT	0	
PCT$RCDP	1C4	18
PCT$RCM1	1C4	8
PCT$RCM2	1C4	10
PCT$RCN1	1C4	4
PCT$RCN2	1C4	C
PCT$RCRS	1C4	14
PCT$RCST	1C4	1C
PCT$RC00	1C4	0
PCTACTL	B8	
PCTANINT	80	
PCTDCT1	EC	
PCTEDCT	1A4	
PCTENIT	1A8	
PCTEVENT	1B8	
PCTFLAG1	90	
PCTFLAG2	91	
PCTFPTIM	98	
PCTHOTC	84	90
PCTHOTCL	1C4	138
PCTID	0	D7C3E340
PCTIFEAT	1BC	
PCTINQ	C4	
PCTLEN	1C4	1C8
PCTLNENM	D4	
PCTMAPLN	D6	
PCTMAPQ	E4	
PCTMASDN	CC	
PCTMBNAM	68	E2E8E2D1
PCTMINX	D8	
PCTMINXM	DC	
PCTMLMER	7A	
PCTMLMR1	78	
PCTMLMR2	79	
PCTMLMSC	78	
PCTMTIME	16C	
PCTMXHOP	7E	
PCTNALET	4C	
PCTNATAH	8	
PCTNATAT	C	
PCTNATHH	18	

Table 393. Cross Reference for $PCT (continued)

Name	Offset	Hex Tag
PCTNATHT	1C	
PCTNATNH	20	
PCTNATNT	24	
PCTNATQS	24	8
PCTNATUH	10	
PCTNATUT	14	
PCTNCC	174	
PCTNPATH	7C	
PCTNSAAQ	E8	
PCTNSFEA	1C0	
PCTNTQ	1A0	
PCTNTQPQ	AC	
PCTNTQUQ	A8	
PCTNTW	170	
PCTPALET	50	
PCTPATHS	A0	
PCTPCLAH	58	
PCTPCLAQ	58	
PCTPCLAT	5C	
PCTPCLSH	60	
PCTPCLSQ	60	
PCTPCLST	64	
PCTPRPIQ	D0	
PCTRESPQ	B4	
PCTRSTL	BC	
PCTRSTN	C0	
PCTSONQ	B0	
PCTTALET	54	
PCTTBFCT	44	
PCTTFEAT	1C4	
PCTTINQ	2C	
PCTTINQH	2C	
PCTTINQT	30	
PCTTMPIH	3C	
PCTTMPIQ	3C	
PCTTMPIT	40	
PCTTOD	1B0	
PCTTRCPH	34	
PCTTRCPQ	34	
PCTTRCPT	38	
PCTTTOL	28	
PCTTTOLD	28	15180
PCTVER	4	
PCTVERN	4	3
PCTVINQ	C8	
PCTWINX	E0	
PCTWORKQ	A4	
PCT1DOWN	90	2
PCT1FPNP	90	40

Table 393. Cross Reference for $PCT (continued)

Name	Offset	Hex Tag
PCT1NERR	90	8
PCT1NOT	90	10
PCT1NREC	90	4
PCT1NTUP	90	20
PCT1PATH	90	80
PCT2NSIM	91	1
PCT2NSSS	91	40
PCT2NSUB	91	80

Chapter 166. $PCTAB Information

$PCTAB Programming Interface Information

$PCTAB is a programming interface.

$PCTAB Heading Information

Common Name:	PC table entry
Macro ID:	$PCTAB
DSECT Name:	PCRT
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	None
Storage Attributes:	Subpool: N/A Key: N/A Residency: These table entries are part of the HASJES20 load module and are located below 16M. Real storage can be anywhere.
Size:	See PCRTELEN
Created by:	$PCTAB macro expantion in HASPTAB
Pointed to by:	MCTPCRTU field of the $MCT data area MCTPCRTH field of the $MCT data area
Serialization:	None required
Function:	This DSECT maps entries in the PC routine table pairs which describe JES2 main task and user address space PC routines.

$PCTAB mapping

Table 394. Structure PCRT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCRT	
0	(0)	CHARACTER	8	PCRTNAME	PC routine name
8	(8)	CHARACTER	24	PCRTDESC	PC routine description
32	(20)	BITSTRING	1	PCRTFLG1	PC table flags
		1...		PCRT1PCU	"B'10000000'" Entry is USER PC routine
		.1..		PCRT1PCH	"B'01000000'" Entry is HASP PC routine
		..1.		PCRT1SLX	"B'00100000'" System LX to be used
		...1		PCRT1CKA	"B'00010000'" CALLKEY=ANY specified
33	(21)	BITSTRING	1	PCRTFLG2	PC address locations
EQU B'000000xx' ENTRYPT field in PADDR					
		1...		PCRT2EPU	"B'10000000'" ENTRYPT field in the UCT
		.1..		PCRT2EPM	"B'01000000'" ENTRYPT field in MODMAP

Table 394. Structure PCRT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		PCRT2EPC	"B'00100000'" ENTRYPT field in CADDR
		...1		PCRT2EPD	"B'00010000'" ENTRYPT field in UCADDR
		.... 1...		PCRT2EPN	"B'00001000'" ENTRYPT field is RTN name
		.... .1..		PCRT2EAV	"B'00000100'" ENTRYPT field is ADDR/VCON
34	(22)	BITSTRING	1	PCRTFLG3	PC routine flags
		1...		PCRT3SUP	"B'10000000'" Routine runs in supervisor state
EQU B'x000000x' RECOVPT field in PADDR					
		.1..		PCRT3RVU	"B'01000000'" RECOVPT filed in the UCT
		..1.		PCRT3RVM	"B'00100000'" RECOVPT field in MODMAP
		...1		PCRT3RVC	"B'00010000'" RECOVPT field in CADDR
		.... 1...		PCRT3RVD	"B'00001000'" RECOVPT field in UCADDR
		.... .1..		PCRT3RVN	"B'00000100'" RECOVPT field is RTN name
		.... ..1.		PCRT3RAV	"B'00000010'" RECOVPT field is ADDR/VCON
35	(23)	ADDRESS	1	PCRTKEY	PC routine run key
36	(24)	ADDRESS	4	PCRTENTY	Offset/Addr ENTRYPT field
40	(28)	ADDRESS	4	PCRTRECV	Offset/Addr RECOVPT field
44	(2C)	ADDRESS	2	PCRTADDR	Offset in xADDR/UxADDR to store PC #
46	(2E)	ADDRESS	1	PCRTNAML	Length-1 for name in PCRTNAME
47	(2F)	ADDRESS	1	PCRTDESL	Length-1 for description in PTABDESC
48	(30)	ADDRESS	4	PCRTPCNM	PC number for this service
52	(34)	CHARACTER	8	PCRTENTN	ENTRYPT routine name
60	(3C)	CHARACTER	8	PCRTRECN	RECOVPT routine name
68	(44)	BITSTRING	4		RESERVED
72	(48)	SIGNED	4	(0)	Align PCRT entry
72	(48)	X'48'	0	PCRTELEN	"*-PCRT" Length of PCRT entry DSECT

Table 395. Cross Reference for $PCTAB

Name	Offset	Hex Tag
PCRT	0	
PCRTADDR	2C	
PCRTDESC	8	
PCRTDESL	2F	
PCRTELEN	48	48
PCRTENTN	34	40404040
PCRTENTY	24	
PCRTFLG1	20	
PCRTFLG2	21	

Table 395. Cross Reference for $PCTAB (continued)

Name	Offset	Hex Tag
PCRTFLG3	22	
PCRTKEY	23	
PCRTNAME	0	
PCRTNAML	2E	
PCRTPCNM	30	
PCRTRECN	3C	40404040
PCRTRECV	28	
PCRT1CKA	20	10
PCRT1PCH	20	40
PCRT1PCU	20	80
PCRT1SLX	20	20
PCRT2EAV	21	4
PCRT2EPC	21	20
PCRT2EPD	21	10
PCRT2EPM	21	40
PCRT2EPN	21	8
PCRT2EPU	21	80
PCRT3RAV	22	2
PCRT3RVC	22	10
PCRT3RVD	22	8
PCRT3RVM	22	20
PCRT3RVN	22	4
PCRT3RVU	22	40
PCRT3SUP	22	80

Chapter 167. $PDDB Information

$PDDB Programming Interface Information

$PDDB is a programming interface.

$PDDB Heading Information

Common Name:	JES2 Peripheral Data Definition Block
Macro ID:	$PDDB
DSECT Name:	PDB
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	None
Storage Attributes:	Subpool: Same as the $IOT that contains the PDDB Key: Same as the $IOT that contains the PDDB Residency: See $IOT
Size:	See PDBLEN1 and PDBLENM
Created by:	$PDBBLD creates a PDDB within an IOT. Storage is obtained when the IOT in which it resides is created. See $IOT for additional information.
Pointed to by:	IOTPDDB field of the $IOT data area contains the offset from the beginning of the IOT to the first PDDB within the IOT. Various fields in the processor work areas. Various fields in the exit parameter lists ($XPL).
Serialization:	JES2 reentrancy techniques for PDDBs in the JES2 main task environment. SJB lock for PDDBs in the USER environment.
Function:	The Peripheral Data Set Definition Block ($PDDB) contains or points to all characteristics, known at the time of creation of the PDDB, of each sybsystem data set known to JES2. PDDBs are contained in the Input/Output Table ($IOT), which is a spool resident JES2 job control block. There is a PDDB for each instance of a spool data set. An instance is defined as a set of characteristics combined with a set of data. For example, a single data set may have 5 JCL output cards and 5 PDDBs will be created.

$PDDB mapping

Table 396. Structure PDB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PDB	HASP PDDB DSECT
0	(0)	BITSTRING	1	PDBFLAG1(0)	Flag byte
1	(1)	BITSTRING	1	PDBRECFM	Data set record format
2	(2)	SIGNED	2	PDBLRECL	Maximum data set LRECL
4	(4)	BITSTRING	4	PDBMTTR	Starting track address of data set

Table 396. Structure PDB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
8	(8)	BITSTRING	4	PDBMTTRL	Last track address of DS
12	(C)	SIGNED	4	PDBDSKEY	Data set number of data set
16	(10)	ADDRESS	2	PDBSIZE	Size of a PDDB
18	(12)	CHARACTER	1	PDBCLASS	Output class of data set
19	(13)	ADDRESS	1	PDBCOPYS	Copies of this data set
20	(14)	SIGNED	4	PDBDEST(0)	Data set output dest
20	(14)	SIGNED	2	PDBDNODE	Node number (binary)
22	(16)	SIGNED	2	PDBDRMT	Remote number (binary)
24	(18)	CHARACTER	8	PDBUSER(0)	Dataset dest USERID/rmtid
32	(20)	BITSTRING	1	(2)	Reserved for future use
34	(22)	BITSTRING	1	PDBFLAG2	Second flag byte
35	(23)	BITSTRING	1	PDBCPTN	Compaction table number
36	(24)	SIGNED	4	PDBRECCT	Data set record count
40	(28)	SIGNED	4	PDBPGCT	Page data page count
44	(2C)	SIGNED	4	PDBBYTCT	Actual byte count
48	(30)	CHARACTER	8	PDBFORMS(0)	Eight-byte forms number
48	(30)	X'30'	0	PDBLOGDD	"PDBFORMS,8,C'C'" DD name of logging dataset (see PDBYLOG)
56	(38)	CHARACTER	4	PDBFCB(0)	Four-byte 3211 FCB id
60	(3C)	CHARACTER	4	PDBUCS(0)	Four-byte 1403 or 3211 UCS id
64	(40)	CHARACTER	8	PDBDSID(0)	3540 dataset id
64	(40)	X'40'	0	PDBWTRID	"PDBDSID,,C'C'" 8-byte output writer id
72	(48)	BITSTRING	8	PDBRBA	8-byte checkpoint record
THE FOLLOWING FIELDS MUST BE KEPT TOGETHER FOR SJF UPDATE					
80	(50)	CHARACTER	4	PDBCHAR1(0)	N/I Printer xlate tab 1
84	(54)	CHARACTER	4	PDBCHAR2(0)	N/I Printer xlate tab 2
88	(58)	CHARACTER	4	PDBCHAR3(0)	N/I Printer xlate tab 3
92	(5C)	CHARACTER	4	PDBCHAR4(0)	N/I Printer xlate tab 4
END OF THE FIELDS NEEDED FOR SJF UPDATE					
96	(60)	CHARACTER	4	PDBFLASH(0)	N/I Printer flash cart id
100	(64)	CHARACTER	4	PDBMODF(0)	N/I Printer copy mod image
104	(68)	BITSTRING	1	PDBFLSHC	N/I printer # flash copies
105	(69)	BITSTRING	1	PDBMODFT	N/I printer tbl ref char
106	(6A)	BITSTRING	8	PDBCOPYG(0)	N/I Printer copy groups
114	(72)	BITSTRING	2	PDBCKPTP	Nr of logical page/ckpt
116	(74)	BITSTRING	2	PDBCKPTL	Nr of lines/logical page
118	(76)	BITSTRING	1	PDBFLAG3	The third flag byte
119	(77)	BITSTRING	1	PDBFLAGY	Symbol substitution flags for DD * and DD DATA
120	(78)	CHARACTER	2	PDBID(0)	Output id qualifier for JOE
122	(7A)	CHARACTER	8	PDBNAME(0)	Output name for this PDDB
132	(84)	SIGNED	4	PDBCRTME	Create Time
136	(88)	SIGNED	4	PDBSEGID	Segment identifier
140	(8C)	SIGNED	4	PDBGGTOK	Generic grouping token
WHEN USED AS A SPIN PDDB					
144	(90)	ADDRESS	4	PDBPLIOT	Pointer to normal IOT place holder
148	(94)	SIGNED	4	PDBPLOFF	The offset to related PDDB
WHEN USED AS A PLACE HOLDER PDDB					

Table 396. Structure PDB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
144	(90)	SIGNED	4	PDBSPTTR	MTTR of spin IOT
152	(98)	CHARACTER	4	PDBSSOFM(0)	Save forms at allocation
156	(9C)	CHARACTER	8	PDBPNAME(0)	Proc step name
164	(A4)	CHARACTER	8	PDBSNAME(0)	Step name
172	(AC)	CHARACTER	8	PDBDDNAM(0)	DD name
180	(B4)	CHARACTER	8	PDBPRMD(0)	PRMODE name
188	(BC)	BITSTRING	80	PDBTOKEN(0)	Security tkn
268	(10C)	CHARACTER	8	PDBCRUID(0)	Creator userid
276	(114)	CHARACTER	8	PDBSECLB(0)	Security label
284	(11C)	BITSTRING	1	PDBLINCT	Dataset line cnt (LINECNT)
285	(11D)	BITSTRING	1	PDBINDEX	3211 FCB index value
286	(11E)	BITSTRING	1	PDBFUNC	3525 function byte
287	(11F)	BITSTRING	1	PDBPRIO	Data set priority
All PDDB flags should be cleared on return from exit 47 in module HASPNSR.					
288	(120)	BITSTRING	1	PDBFLAG4	The fourth flag byte
289	(121)	BITSTRING	1	PDBFLAG5	The fifth flag byte
290	(122)	BITSTRING	1	PDBFLAG6	The sixth flag byte
291	(123)	BITSTRING	1	PDBFLAG7	The seventh flag byte
292	(124)	SIGNED	4	PDBSWBOT	Starting trk output SWBs
296	(128)	BITSTRING	8	PDBOUTOK(0)	Data sets output SWB token
304	(130)	CHARACTER	8	PDBCPTNM(0)	Compact table name
312	(138)	SIGNED	1	PDBSTPN	Job step number where SYSOUT data set allocated
313	(139)	BITSTRING	1	PDBFLAGA	Tenth flag byte
314	(13A)	SIGNED	2		Reserved for future use
316	(13C)	SIGNED	4	PDBNDHTR	MTTR of dataset header
320	(140)	BITSTRING	1	PDBFLAG8	Eighth flag byte
321	(141)	BITSTRING	1	PDBFLAG9	Ninth flag byte
322	(142)	SIGNED	2	PDBDSINS	Multi-dest instance count
324	(144)	SIGNED	4		Reserved for future use
328	(148)	BITSTRING	6	PDBINDXM	MQTR of 1st data set index
334	(14E)	BITSTRING	6	PDBCATLM	MQTR of data set catalog
340	(154)	CHARACTER	44	PDBDSNAM(0)	Data set name
384	(180)	SIGNED	4	(0)	
384	(180)	X'180'	0	PDBLEN1	"*-PDB" Base PDDB length (should never change)
384	(180)	X'180'	0	PDBLENM	"*-PDB" Maximum PDDB length (can change rel to rel)
PDBFLAG1					
	1...			PDB1NEWS	"B'10000000'" JESNEWS DATA SET
	.1..			PDB1NULL	"B'01000000'" THIS IS A NULL PDDB
	..1.			PDB1LOG	"B'00100000'" THIS PDDB IS FOR THE HASP JOB LOG
	...1			PDB1MOC	"B'00010000'" Multiple Output Characteristic(MOC) Spin data set indicator
	.... 1...			PDB1NSOT	"B'00001000'" DATA SET IS NOT FOR SYSOUT

Table 396. Structure PDB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		PDB1SPIN	"B'00000100'" THIS PDDB IS FOR A SPIN DATA SET
		.... ..1.		PDB1USER	"B'00000010'" This PDDB is for a user
		1		PDB1DAUG	"B'00000001'" This is a daughter spin IOT
	PDBFLAG2				
		1...		PDB2TCEL	"B'10000000'" DATA SET IS TRAKCELL'ED
		.1..		PDB2OPTJ	"B'01000000'" OPTCD=J SPECIFIED
		..1.		PDB2BRST	"B'00100000'" BURST=YES SPECIFIED
		...1		PDB2PRIO	"B'00010000'" Installation set JOE prio. Or dataset re-loaded.
		.... 1...		PDB2JFMS	"B'00001000'" PDBFORMS SET FROM JCTFORMS
		.... .1..		PDB2HLDS	"B'00000100'" HOLD= SPECIFIED ON DD
		.... ..1.		PDB2PSOR	"B'00000010'" PSO ROUTE CHANGE
		1		PDB2FOLD	"B'00000001'" JFCFOLD WAS SPECIFIED
	PDBFLAG3				
		1...		PDB3PLHD	"B'10000000'" PLACE HOLDER PDDB
		.1..		PDB3PSOC	"B'01000000'" PSO CLASS CHANGE
		..1.		PDBLNCTF	"B'00100000'" LINECT SPECIFIED
		...1		PDB3STAT	"B'00010000'" JOB STATISTICS IN JOB LOG
		.... 1...		PDB3LINE	"B'00001000'" DATA SET HAS LINE MODE RECORDS
		.... .1..		PDB3PAGE	"B'00000100'" DATA SET HAS PAGE DATA RECORDS
		.... ..1.		PDB3SP2	"B'00000010'" FORCED DOUBLE SPACING
		1		PDB3SP1	"B'00000001'" FORCED SINGLE SPACING
	PDBFLAG4				
		1...		PDB4OUTJ	"B'10000000'" PDDB IS REFERENCE BY OUTPUT JCL
		.1..		PDB4BRST	"B'01000000'" BURST (Y OR N) IN DD CARD
		..1.		PDB4JFCB	"B'00100000'" MERGE JFCB INTO THIS PDDB
		...1		PDB4SYSN	"B'00010000'" SYSTEM GENERATED NAME
		.... 1...		PDB4OCLS	"B'00001000'" CLASS SET FROM OUTPUT JCL
		.... .1..		PDB4OCPY	"B'00000100'" COPY SET FROM OUTPUT JCL
		.... ..1.		PDBPLNUL	"B'00000010'" NULLIFIED PLACEHOLDER PDDB

Table 396. Structure PDB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1		PDB4SDBT	"B'00000001'" FORCE SDB TO TRACKCELL
PDBFLAG5					
		1...		PDB5OPEN	"B'10000000'" DATASET IS OPEN FOR OUTPUT
		.1..		PDB5NUNK	"B'01000000'" Token is NJE unknown user
		..1.		PDB5SPAU	"B'00100000'" DATA SET FAILED SPOOL OFFLOAD AUTHORIZATION
		...1		PDB5PTKN	"B'00010000'" Token to be propagated
		.... 1...		PDB5AODS	"B'00001000'" Use abnormal disp for spin
		.... .1..		PDB5XBM2	"B'00000100'" Data set is SYSIN for XBM/2
		.... ..1.		PDB5PRGA	"B'00000010'" $PURGE auth check required
		1		PDB5SAFD	"B'00000001'" $PURGE auth check footprint
PDBFLAG6					
		..1.		PDB6AOSO	"B'00100000'" ABNORMAL OUTDISP SPECIFIED ON OUTPUT JCL STATEMENT
384	(180)	X'10'	0	PDB6AODP	"$ODPURGE" ABNORMAL OUTDISP=PURGE
384	(180)	X'8'	0	PDB6AODW	"$ODWRITE" ABNORMAL OUTDISP=WRITE
384	(180)	X'4'	0	PDB6AODH	"$ODHOLD" ABNORMAL OUTDISP=HOLD
384	(180)	X'2'	0	PDB6AODK	"$ODKEEP" ABNORMAL OUTDISP=KEEP
384	(180)	X'1'	0	PDB6AODL	"$ODLEAVE" ABNORMAL OUTDISP=LEAVE
384	(180)	X'1F'	0	PDB6AODA	"$ODANYWP" CHECK ALL BIT SETTINGS
PDBFLAG7					
		1...		PDB7DSWB	"B'10000000'" OUTPUT SWB to be deleted
		.1..		PDB7HOPX	"B'01000000'" SYSTEM HOLD DATASET DUE TO HOP COUNT EXCESSION
		..1.		PDB7NOSO	"B'00100000'" NORMAL OUTDISP SPECIFIED ON OUTPUT JCL STATEMENT
384	(180)	X'10'	0	PDB7NODP	"$ODPURGE" NORMAL OUTDISP=PURGE
384	(180)	X'8'	0	PDB7NODW	"$ODWRITE" NORMAL OUTDISP=WRITE
384	(180)	X'4'	0	PDB7NODH	"$ODHOLD" NORMAL OUTDISP=HOLD
384	(180)	X'2'	0	PDB7NODK	"$ODKEEP" NORMAL OUTDISP=KEEP
384	(180)	X'1'	0	PDB7NODL	"$ODLEAVE" NORMAL OUTDISP=LEAVE
384	(180)	X'1F'	0	PDB7NODA	"$ODANYWP" CHECK ALL BIT SETTINGS
PDBFLAG8					
		1...		PDB8DSID	"B'10000000'" DSID IN PDBDSID

Table 396. Structure PDB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		PDB8FORM	"B'01000000'" FORM was explicitly coded either on the DD, OUTPUT JCL or inherited from JOBPARM FORM=
		..1.		PDB8UNDF	"B'00100000'" Userid is undefined
		...1		PDB8NREU	"B'00010000'" THE SPIN IOT REPRESENTED BY THIS PLACE HOLDER PDDB IS NOT REUSABLE
		.... 1...		PDB8UPRI	"B'00001000'" PRTY was specified on the OUTPUT JCL statement
		.... .1..		PDB8UNAL	"B'00000100'" SYSOUT data set has been unallocated (not set for any special data sets)
		.... ..1.		PDB8SYIN	"B'00000010'" SYSIN data set (from input services)
		1		PDB8RERT	"B'00000001'" Dataset was rerouted by SYSOUT receiver
		PDBFLAG9 The following flag is set only at sysout data set allocation time and later used in setting the corresponding bit JOE2IPAD in $JOE during output grouping. Subsequent processing will only use the $JOE flag.			
		1...		PDB9IPAD	"B'10000000'" Dataset's dest in IP-format
		PDB9CTKN indicates that a client token was returned as part of the dynamic allocation for the dataset. PDB9CTKN is only turned on for the first data set for MOCHA. PDB9CTKN is never turned off.			
		.1..		PDB9CTKN	"B'01000000'" Client token returned for data set
		..1.		PDB9JESL	"B'00100000'" SPIN-ANY spin data set
		...1		PDB9SALC	"B'00010000'" Separate track group map used to create data set
		.... 1...		PDB9TRC	"B'00001000'" TRC was specified on the OUTPUT JCL statement
		.... .1..		PDB9CRTM	"B'00000100'" PDBCRTME is from JOE (spool reload)
		.... ..1.		PDB9ONOT	"B'00000010'" Issue NOTIFY from HOPE
		1		PDB9INDX	"B'00000001'" Data set is indexed
		PDBFLAGA			
		1...		PDBARCNP	"B'10000000'" Received this data set as non-printable SYSOUT that should transmit via NJE

Table 396. Structure PDB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		PDBFLAGY PDBFLAGY flag byte is used to control instream symbol substitution. PDBYSCTL defines the substitution control bits. PDBYJCL/PDBYEXEC/PDBYCNVT should be compared for equality, not as individual bits.			
		111.		PDBYSCTL	"B'11100000'" Substitution type: 000 - no substitution
		..1.		PDBYJCL	"B'00100000'" SYMBOLS=JCLONLY
		.1..		PDBYEXEC	"B'01000000'" SYMBOLS=EXECSYS
		.11.		PDBYCNVT	"B'01100000'" SYMBOLS=CNVTSYS
		...1		PDBYLOG	"B'00010000'" substitution logging requested
		DATA SET KEYS FOR SPECIAL DATA SETS			
384	(180)	X'1'	0	PDBINJCL	"1" INPUT JCL STATEMENTS
384	(180)	X'2'	0	PDBOUHJL	"2" HASP JOB LOG
384	(180)	X'3'	0	PDBOUJCI	"3" JCL IMAGES
384	(180)	X'4'	0	PDBOUMSG	"4" SYSTEM MESSAGES
384	(180)	X'5'	0	PDBINTXT	"5" INTERNAL TEXT
384	(180)	X'6'	0	PDBINJNL	"6" JOB JOURNAL
384	(180)	X'7'	0	PDBSWABL	"7" SWA blocks
384	(180)	X'8'	0	PDBEVTLG	"8" EVENTLOG
384	(180)	X'64'	0	PDBUISKY	"100" INITIAL DATA SET KEY NUMBER

Table 397. Cross Reference for $PDDB

Name	Offset	Hex Tag
PDB	0	
PDBARCNP	180	80
PDBBYTCT	2C	0
PDBCATLM	14E	0
PDBCHAR1	50	5C5C5C5C
PDBCHAR2	54	5C5C5C5C
PDBCHAR3	58	5C5C5C5C
PDBCHAR4	5C	5C5C5C5C
PDBCKPTL	74	FFFF
PDBCKPTP	72	FFFF
PDBCLASS	12	C1
PDBCOPYG	6A	0
PDBCOPYS	13	
PDBCPTN	23	FF
PDBCPTNM	130	0
PDBCRTME	84	0
PDBCRUID	10C	40404040
PDBDDNAM	AC	40404040
PDBDEST	14	
PDBDNODE	14	0
PDBDRMT	16	0
PDBDSID	40	40404040

Table 397. Cross Reference for $PDDB (continued)

Name	Offset	Hex Tag
PDBDSINS	142	0
PDBDSKEY	C	0
PDBDSNAM	154	40404040
PDBEVTLG	180	8
PDBFCB	38	5C5C5C5C
PDBFLAGA	139	0
PDBFLAGY	77	0
PDBFLAG1	0	40
PDBFLAG2	22	0
PDBFLAG3	76	0
PDBFLAG4	120	0
PDBFLAG5	121	0
PDBFLAG6	122	0
PDBFLAG7	123	0
PDBFLAG8	140	0
PDBFLAG9	141	0
PDBFLASH	60	5C5C5C5C
PDBFLSHC	68	FF
PDBFORMS	30	0
PDBFUNC	11E	0
PDBGGTOK	8C	0
PDBID	78	0
PDBINDEX	11D	0
PDBINDXM	148	0
PDBINJCL	180	1
PDBINJNL	180	6
PDBINTXT	180	5
PDBLENM	180	180
PDBLEN1	180	180
PDBLINCT	11C	0
PDBLNCTF	180	20
PDBLOGDD	30	30
PDBLRECL	2	0
PDBMODF	64	5C5C5C5C
PDBMODFT	69	0
PDBMTTR	4	0
PDBMTTRL	8	0
PDBNAME	7A	0
PDBNDHTR	13C	0
PDBOUHJL	180	2
PDBOUJCI	180	3
PDBOUMSG	180	4
PDBOUTOK	128	0
PDBPGCT	28	0
PDBPLIOT	90	
PDBPLNUL	180	2
PDBPLOFF	94	0
PDBPNAME	9C	40404040
PDBPRIO	11F	0

Table 397. Cross Reference for $PDDB (continued)

Name	Offset	Hex Tag
PDBPRMD	B4	40404040
PDBRBA	48	0
PDBRECCT	24	0
PDBRECFM	1	0
PDBSECLB	114	40404040
PDBSEGID	88	0
PDBSIZE	10	
PDBSNAME	A4	40404040
PDBSPTTR	90	0
PDBSSOFM	98	0
PDBSTPN	138	0
PDBSWABL	180	7
PDBSWBOT	124	0
PDBTOKEN	BC	0
PDBUCS	3C	5C5C5C5C
PDBUISKY	180	64
PDBUSER	18	0
PDBWTRID	40	40
PDBYCNVT	180	60
PDBYEXEC	180	40
PDBYJCL	180	20
PDBYLOG	180	10
PDBYSCTL	180	E0
PDB1DAUG	180	1
PDB1LOG	180	20
PDB1MOC	180	10
PDB1NEWS	180	80
PDB1NSOT	180	8
PDB1NULL	180	40
PDB1SPIN	180	4
PDB1USER	180	2
PDB2BRST	180	20
PDB2FOLD	180	1
PDB2HLDS	180	4
PDB2JFMS	180	8
PDB2OPTJ	180	40
PDB2PRIO	180	10
PDB2PSOR	180	2
PDB2TCEL	180	80
PDB3LINE	180	8
PDB3PAGE	180	4
PDB3PLHD	180	80
PDB3PSOC	180	40
PDB3SP1	180	1
PDB3SP2	180	2
PDB3STAT	180	10
PDB4BRST	180	40
PDB4JFCB	180	20
PDB4OCLS	180	8

Table 397. Cross Reference for $PDDB (continued)

Name	Offset	Hex Tag
PDB4OCPY	180	4
PDB4OUTJ	180	80
PDB4SDBT	180	1
PDB4SYSN	180	10
PDB5AODS	180	8
PDB5NUNK	180	40
PDB5OPEN	180	80
PDB5PRGA	180	2
PDB5PTKN	180	10
PDB5SAFD	180	1
PDB5SPAU	180	20
PDB5XBM2	180	4
PDB6AODA	180	1F
PDB6AODH	180	4
PDB6AODK	180	2
PDB6AODL	180	1
PDB6AODP	180	10
PDB6AODW	180	8
PDB6AOSO	180	20
PDB7DSWB	180	80
PDB7HOPX	180	40
PDB7NODA	180	1F
PDB7NODH	180	4
PDB7NODK	180	2
PDB7NODL	180	1
PDB7NODP	180	10
PDB7NODW	180	8
PDB7NOSO	180	20
PDB8DSID	180	80
PDB8FORM	180	40
PDB8NREU	180	10
PDB8RERT	180	1
PDB8SYIN	180	2
PDB8UNAL	180	4
PDB8UNDF	180	20
PDB8UPRI	180	8
PDB9CRTM	180	4
PDB9CTKN	180	40
PDB9INDX	180	1
PDB9IPAD	180	80
PDB9JESL	180	20
PDB9ONOT	180	2
PDB9SALC	180	10
PDB9TRC	180	8

Chapter 168. $PERFCB Information

$PERFCB Heading Information

Common Name:	Performance data anchor CB
Macro ID:	$PERFCB
DSECT Name:	PERFCB INITSTAT QSUCB PPB PTPB WTCB PSCBD EVENT PCBCKIO PCBSBST PMIG
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	PCB Offset: PCBID Length: L'PCBID
Storage Attributes:	Subpool: 24 (Except PPB which are subpool 25) Key: 1 Residency: Virtual and real storage are above 16M, in the private storage of the JES2 address space.
Size:	See PCBLEN for PERFCB L'INITRENT for INITSTAT QSUCBLEN for QSUCB PPBLEN for PPB PTPBLEN for PTPB WTCBLEN for WTCB PSCBLEN for PSCBD EVNTLEN for EVENT PCBCKIOL for PCBCKIO PCBSBSTL for PCBSBST PMIGLEN for PMIG
Created by:	HASPIRA for the PCB and INITSTAT HASPDYN for the PPB and PTPB HASPNUC for the QSUCB, WTCB and PSCB HASPSUBS for the PCBSBST HASPSPOL for the PMIG

$PERFCB Heading Information

Pointed to by: PERFCB
- $PERFCB field of the HCT data area

INITSTAT
- PCBINITS field of the PERFCB data area

QSUCB
- PCBQSUHD field of the PERFCB data area
- PCBQSUTL field of the PERFCB data area
- PCBQSNDX field of the PERFCB data area
- QSUCBANX field of the QSUCB data area
- QSUCBUNX field of the QSUCB data area
- QSUCBUPR field of the QSUCB data area

PPB
- Prefix area in front of every PCE

PTPB
- PCBPTPB field of the PERFCB data area
- PPBPTPB field of the PPB data area
- PCBNEXT field of the PTPB data area

WTCB
- PTPBWTCB field of the PTPB data area
- WTCBNEXT field of the WTCB data area

PSCBD
- QTCBPSCB field of the WTCB data area
- PSCBNEXT field of the PSCBD data area

EVENT
- PCBEVNTF field of the PERFCB data area
- PCBEVNTL field of the PERFCB data area
- EVNTNEXT field of the EVENT data area

PCBSBST
- PCBSBQUE field of the PERFCB data area

PMIG
- PCBMIGR field of the PERFCB data area

Serialization: Normal PCE dispatch serialization

Function: The $PERFCB is the anchor control block for performance related data colected by JES2. This macro also contains DSECTs that describe areas that the PERFCB points to.

$PERFCB mapping

Table 398. Structure PERFCB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PERFCB	, Performance anchor CB
0	(0)	CHARACTER	4	PCBID	Control block id
4	(4)	ADDRESS	1	PCBVERSN	Control block version
4	(4)	X'2'	0	PCBVERN	"2" Version number
5	(5)	BITSTRING	3		Reserved
8	(8)	DBL WORD	8	PCBWORK	Double word work area
		JES2 Initialization performance information. PCBINITS points to a vector of entries, one per 'initialization' routine. The last entry in the list is all zero. The DSECT maps the data within each vector element. All times are in micro-seconds.			
16	(10)	ADDRESS	4	PCBINITS	Pointer to the init stats

Table 399. Structure INITSTAT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	INITSTAT	, DSECT for initstats
0	(0)	CHARACTER	8	INITRNAM	Routine name
8	(8)	BITSTRING	8	INITRTIM	Run time for routine
16	(10)	BITSTRING	8	INITRCPU	CPU time for routine
16	(10)	X'0'	0	INITRENT	"INITSTAT,*-INITSTAT" Equate for entire entry

Table 400. Structure PERFCB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PERFCB	, Resume PERFCB DSECT
		$QSUSE wait statistics. PCBQSNDX is a vector that of $QSUSE statistics control blocks. Each element on the list represents a $QSUSE macro that was called when JES2 did not own the CKPT data set queues. Each vector slot corresponds to a hashed address where the $QSUSE was invoked. PCBQSUHC is another chain through the same control blocks, sorted with the most frequently used $QSUSE entries first.			
20	(14)	ADDRESS	4	PCBQSUHD	Head for use sorted chain
24	(18)	ADDRESS	4	PCBQSUTL	Tail for use sorted chain
28	(1C)	ADDRESS	4	PCBQSNDX(32)	Index into address chain
156	(9C)	ADDRESS	4		Reserved
160	(A0)		1	PCBQSLRS	STCKE time at last reset
176	(B0)	DBL WORD	8	PCBQSINT	Interval since reset (microseconds)

Table 401. Structure QSUCB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	QSUCB	, QSUSE performance CB
0	(0)	CHARACTER	4	QSUCBID	Eyecatcher
4	(4)	BITSTRING	1	QSUCBVRN	Version number
4	(4)	X'1'	0	QSUCBVR	"1" Current version
5	(5)	BITSTRING	3		Reserved
8	(8)	ADDRESS	4	QSUCBANX	Next entry address chain
12	(C)	ADDRESS	4	QSUCBUNX	Next entry use chain
16	(10)	ADDRESS	4	QSUCBUPR	Previous entry use chain
20	(14)	ADDRESS	4	QSUCBADR	Addr of $QSUSE parmlist
24	(18)	SIGNED	4		Reserved
28	(1C)	SIGNED	4	QSUCBCNT	Use count
32	(20)	BITSTRING	8	QSUCBTIM	Wait time (microseconds)
40	(28)	SIGNED	4	QSUCBPLT(0)	Copy of $QSUSE parmlist:
40	(28)	BITSTRING	4	QSUCBPIN	(Instruction after BASR)
44	(2C)	BITSTRING	1	QSUCBPFL	$QSUSE parameter flag -see $PARMLST/$QSUFLG1
45	(2D)	BITSTRING	1		Reserved for future use
46	(2E)	CHARACTER	8	QSUCBPSC	Control section name
54	(36)	CHARACTER	8	QSUCBPSQ	Invoking seq number
62	(3E)	BITSTRING	1	QSUCBXIT	Exit number in control

Table 401. Structure QSUCB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
63	(3F)	BITSTRING	1		Reserved for future use
64	(40)	DBL WORD	8	(0)	Alignment
64	(40)	X'40'	0	QSUCBLEN	"*-QSUCB" Length of element

Table 402. Structure PERFCB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PERFCB	, Resume PERFCB DSECT
		PCE performance information. Information is tracked for each PCE and for each type of PCE. The PCE performance block (PPB) is located before each PCE in storage. The PCE type performance blocks (PTPB) represents a type of PCE and tracks information based on PCE types (as defined by $PCETABs). The WTCB track $WAIT based on $WAIT invocation. The PSCBD tracks $POSTs based on $POST type.			
184	(B8)	DBL WORD	8	PCBCPULD	CPU time of last dispatch
192	(C0)		1	PCBRUNLD	STCKE time of last dispatch
208	(D0)	DBL WORD	8	PCBCPULW	CPU time of last $WAIT
216	(D8)		1	PCBRUNLW	STCKE time of last $WAIT
232	(E8)	DBL WORD	8	PCBLSTRS	CPU time at last reset
240	(F0)		1	PCBLSTRT	STCKE time at last reset
256	(100)	DBL WORD	8	PCBRSTIS	CPU reset interval (micro)
264	(108)	DBL WORD	8	PCBRSTIT	STCK reset interval (micro)
272	(110)	ADDRESS	4	PCBPTPB	PTPB chain pointer
276	(114)	ADDRESS	4	PCBPTPBS	Sorted chain anchor
280	(118)	BITSTRING	2	PCBPCEID	PCEID of last disp PCE
282	(11A)	BITSTRING	2		Reserved
284	(11C)	CHARACTER	8	PCBPCNAM	PCE name of last disp PCE

Table 403. Structure PPB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PPB	, PCE performance block
0	(0)	CHARACTER	4	PPBID	Eyecatcher
4	(4)	BITSTRING	1	PPBVERN	Version number
4	(4)	X'1'	0	PPBVER	"1" Current version
5	(5)	BITSTRING	1		Reserved
		This 2 byte code is post code for the last post of this PCE. Byte 1 is the post type (equates below). Byte 2 is the specific event post that placed the PCE on the ready queue. An event $POST with byte 2 = 0 indicates a $POST xx,FORCE.			
6	(6)	BITSTRING	2	PPBLPOST	Last post type (valid only when PCE is on the ready Q)
6	(6)	X'0'	0	PPBLPRES	"0" Resource post (Must be 0)
6	(6)	X'1'	0	PPBLPEVN	"1" Event post (Must be 1)
6	(6)	X'2'	0	PPBLPXEC	"2" XECB post
6	(6)	X'3'	0	PPBLPSSI	"3" $$POST of a event
6	(6)	X'4'	0	PPBLPSUB	"4" $POST from a subtask

Table 403. Structure PPB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
8	(8)	ADDRESS	4	PPBPTPB	Addr of related PTPB
12	(C)	SIGNED	4	PPBWAITC	$WAIT count for this PCE
16	(10)	DBL WORD	8	PPBCPUT	CPU time used by this PCE
24	(18)	DBL WORD	8	PPBRUNT	Run time used by this PCE
32	(20)	DBL WORD	8	PPBWAITT	Total $WAIT time for PCE
40	(28)	DBL WORD	8	PPBQSUSE	$QSUSE time used by PCE (in microseconds)
48	(30)	SIGNED	4	PPBIOCNT	I/O count for this PCE
52	(34)	SIGNED	4	PPBCKPTN	Num of $CKPTs for this PCE
56	(38)	SIGNED	4	PPBPAWCT	Num of $PAWSs for this PCE
60	(3C)	SIGNED	4		Reserved
64	(40)	SIGNED	4		Reserved
72	(48)	DBL WORD	8	(0)	Ensure alignment
72	(48)	X'48'	0	PPBLEN	"*-PPB" Length of control block

Table 404. Structure PERFCB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PERFCB	, Resume PERFCB DSECT

Table 405. Structure GTPTDAT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	GTPTDAT	GETPTIME output area DSECT
0	(0)	DBL WORD	8	GTPTCPUT	CPU time for PCE
8	(8)	DBL WORD	8	GTPTRUNT	Run time for PCE
16	(10)	DBL WORD	8	GTPTQSUS	QSUSE run time for PCE
24	(18)	DBL WORD	8	GTPTSTCK	Time GETPTIME was called
24	(18)	X'20'	0	GTPTLEN	"*-GTPTDAT" Length of output area

Table 406. Structure PERFCB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PERFCB	, Resume PERFCB DSECT

Table 407. Structure PTPB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PTPB	, PCE type performance block
0	(0)	CHARACTER	4	PTPBID	Eyecatcher
4	(4)	ADDRESS	4	PTPBNEXT	Chain pointer
8	(8)	ADDRESS	4	PTPBNXT2	2ndary chain word
12	(C)	ADDRESS	4	PTPBTAB	Address of PCETAB
16	(10)	SIGNED	4	PTPBIOCT	I/O count for PCE type
24	(18)	DBL WORD	8	PTPBRUNT	Total run time for all PCEs
32	(20)	DBL WORD	8	PTPBCPUT	Total CPU time for all PCEs

Table 407. Structure PTPB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
40	(28)	DBL WORD	8	PTPBQSUS	Total $QSUSE time for all PCEs (in microseconds)
48	(30)	ADDRESS	4	PTPBWTCH	Chain of $WAIT CBs
52	(34)	SIGNED	4	PTPBCKPT	Num of $CKPTs for all PCEs
56	(38)	SIGNED	4	PTPBPAWC	Num of $PAWSs for all PCEs
60	(3C)	SIGNED	4		Reserved
64	(40)	SIGNED	4		Reserved
72	(48)	DBL WORD	8	(0)	Ensure alignment
72	(48)	X'48'	0	PTPBLEN	"*-PTPB" Length of control block

Table 408. Structure PERFCB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PERFCB	, Resume PERFCB DSECT

Table 409. Structure WTCB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	WTCB	, Wait performance block
0	(0)	CHARACTER	4	WTCBID	Eyecatcher
4	(4)	ADDRESS	4	WTCBNEXT	Pointer to next WTCB
8	(8)	DBL WORD	8	WTCBINFO(0)	Wait address information
8	(8)	ADDRESS	4	WTCBADR	Address of $WAIT parmlist
12	(C)	ADDRESS	4	WTCBADR2	2ndary parmlst pointer
16	(10)	ADDRESS	4	WTCBPSCB	Address of PSCB chain
20	(14)	SIGNED	4	WTCBWCNT	Wait count
24	(18)	DBL WORD	8	WTCBWAIT	Total $WAIT time for PCEs
32	(20)	DBL WORD	8	WTCBPLST(0)	Copy of $WAIT parmlist:
32	(20)	BITSTRING	4	WTCBPINS	(Instruction after BASR)
36	(24)	BITSTRING	1	WTCBPFL1	$WAIT macro option flags -see $PARMLST/$WTFLAG1
37	(25)	BITSTRING	1	WTCBPINH	Inhibitor: prevs PCE redispatch before specific $POST
38	(26)	CHARACTER	8	WTCBPSEC	Control section name
46	(2E)	CHARACTER	8	WTCBPSEQ	Invoking seq number
54	(36)	ADDRESS	2	WTCBPRQO	Resource queue offset/0
56	(38)	SIGNED	4	WTCB2PLT(0)	Copy of 2ndary parmlst:
56	(38)	CHARACTER	8	WTCB2SEC	Control section name
64	(40)	CHARACTER	8	WTCB2SEQ	Invoking seq number
72	(48)	ADDRESS	4	WTCB2PLA	Addr of copy of 2ndary parmlst
76	(4C)	BITSTRING	1	WTCBXIT	Exit number for wait
77	(4D)	BITSTRING	3		Reserved for future use
80	(50)	DBL WORD	8	(0)	Alignment
80	(50)	X'50'	0	WTCBLEN	"*-WTCB" Length of control block
80	(50)	X'10'	0	WTCB2PLL	"L'WTCB2SEC+L'WTCB2SEQ" Len of 2ndary parmlst

Table 410. Structure PERFCB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PERFCB	, Resume PERFCB DSECT

Table 411. Structure PSCBD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PSCBD	, $POST performance block
0	(0)	CHARACTER	4	PSCBID	Eyecatcher
4	(4)	ADDRESS	4	PSCBNEXT	Pointer to next PSCB
8	(8)	SIGNED	2	PSCBTYPE	$POST Type (see PPBLPOST)
10	(A)	BITSTRING	2		Reserved
12	(C)	SIGNED	4	PSCBWCNT	Wait count
16	(10)	DBL WORD	8	PSCBWAIT	Total $WAIT time for PCEs
24	(18)	DBL WORD	8	(0)	Alignment
24	(18)	X'18'	0	PSCBLEN	"*-PSCBD" Length of control block

Table 412. Structure PERFCB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PERFCB	, Resume PERFCB DSECT
		Event reporting information. Every time an note worthy event is noticed, a record is created to note the time and PCE that had the event. These are then displayed by $D PERFDATA(EVENT). As new event types are added (EVNTTYPE), the $SCANTAB in HASPSTAB must be updated.			
292	(124)	ADDRESS	4	PCBEVNTF	1st event control block
296	(128)	ADDRESS	4	PCBEVNTL	Last (newest) event CB
300	(12C)	SIGNED	4	PCBEVCNT	Count of exception CBs
300	(12C)	X'64'	0	PCBEVNLM	"100" Limit of events tracked
304	(130)		1	PCBEVLRS	STCKE time at last reset
320	(140)	DBL WORD	8	PCBEVINT	STCK reset interval (micro)

Table 413. Structure EVENT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	EVENT	, Exception description
0	(0)	CHARACTER	4	EVNTID	Eyecatcher
4	(4)	ADDRESS	4	EVNTNEXT	Next exception
8	(8)	DBL WORD	8	EVNTTIME	STCK of exception
16	(10)	DBL WORD	8	EVNTDUR	Duration of event or 0 (micro seconds)
24	(18)	CHARACTER	8	EVNTPNAM	PCE/DCT name
32	(20)	CHARACTER	8	EVNTMODN	Related module name
40	(28)	CHARACTER	8	EVNTSEQN	Related seq number/offset
48	(30)	CHARACTER	8	EVNTJID	Related job id
56	(38)	SIGNED	1	EVNTTYPE	Type of event
56	(38)	X'1'	0	EVNTRUN	"1" Excessive run time
56	(38)	X'2'	0	EVNTABND	"2" ABEND/$ERROR

Table 413. Structure EVENT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
56	(38)	X'3'	0	EVNTDIST	"3" $DISTERR
57	(39)	BITSTRING	3		Reserved
60	(3C)	CHARACTER	8	EVNTDATA	Additional data
72	(48)	DBL WORD	8	(0)	Alignment
72	(48)	X'48'	0	EVNTLEN	"*-EVENT" Length of control block

Table 414. Structure PERFCB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PERFCB	, Resume PERFCB DSECT
CKPT reporting information.					
328	(148)		1	PCBCKLRS	STCKE time at last reset
344	(158)	DBL WORD	8	PCBCKINT	STCK reset interval (micro)
352	(160)	DBL WORD	8	PCBCKTHL	Total hold time (STCK)
360	(168)	DBL WORD	8	PCBCKAHL	Average hold time (micro)
368	(170)	SIGNED	4	PCBCKCHL	Hold time count
372	(174)	SIGNED	4	PCBCKCDR	Dormancy time count
376	(178)	DBL WORD	8	PCBCKTDR	Total dormancy time (STCK)
384	(180)	DBL WORD	8	PCBCKADR	Avg dormancy time (micro)
392	(188)	SIGNED	4	PCBCKCNT	$CKPT count
396	(18C)	SIGNED	4	PCBCKOCK	$CKPT optimization count
400	(190)	SIGNED	4	PCBCKO4K	4K page optimization count
404	(194)	SIGNED	4	PCBCK4KC	Count of 4K pages written (in IW and FW)
408	(198)	SIGNED	4	PCBCKCBC	Count of control blocks written (in IW and FW)
412	(19C)	SIGNED	4	PCBCKNAD	Nr of adjustments
416	(1A0)	DBL WORD	8	PCBCKTPN	Total pain value
416	(1A0)	X'1A4'	0	PCBCKTP1	"PCBCKTPN+4,4" 32-bit subset
424	(1A8)	DBL WORD	8	PCBCKTPM	Total pain value for this member
424	(1A8)	X'1AC'	0	PCBCKTP2	"PCBCKTPM+4,4" 32-bit subset
432	(1B0)	SIGNED	4	PCBCKHHI	Highest HOLD set
436	(1B4)	SIGNED	4	PCBCKHLO	Lowest HOLD set
440	(1B8)	SIGNED	4	PCBCKDHI	Highest DORMANCY
444	(1BC)	SIGNED	4	PCBCKDLO	Lowest DORMANCY
448	(1C0)	DBL WORD	8	PCBCKQDF	Difference between HOLD and longest QSUSE time (in microseconds)
456	(1C8)	DBL WORD	8	PCBCKQDA	Average difference (in microseconds)

Table 415. Structure PCBCKIO

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCBCKIO	
0	(0)	CHARACTER	4	PCBCKION	Name of the I/O
4	(4)	SIGNED	4	PCBCKIOC	Count of I/Os
8	(8)	DBL WORD	8	PCBCKIOT	Total I/O time (STCK)
16	(10)	DBL WORD	8	PCBCKIOA	Average I/O time (micro)

Table 415. Structure PCBCKIO (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
24	(18)	DBL WORD	8	PCBCKIO4	Total 4K page count
32	(20)	DBL WORD	8	PCBCKIOB	Total CB count
40	(28)	DBL WORD	8	PCBCKIST_CPU	Total subtask CPU (micro)
48	(30)	DBL WORD	8	PCBCKIST_ACPU	Average subtask CPU
56	(38)	DBL WORD	8	PCBCKIST_TIM	Total subtask time (micro)
64	(40)	DBL WORD	8	PCBCKIST_ATIM	Average subtask time
72	(48)	DBL WORD	8	PCBCKIST_IOS	Total subtask I/Os
80	(50)	DBL WORD	8	PCBCKIST_AIOS	Average subtask I/Os
88	(58)	DBL WORD	8	PCBCKIST_REC	Total subtask records
96	(60)	DBL WORD	8	PCBCKIST_AREC	Average subtask records
96	(60)	X'68'	0	PCBCKIOL	"*-PCBCKIO" Length of area

Table 416. Structure PERFCB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PERFCB	, Resume PERFCB DSECT
464	(1D0)	DBL WORD	8	(0)	Align I/O data areas
464	(1D0)	BITSTRING	104	PCBCKR1	Data area for read 1
568	(238)	BITSTRING	104	PCBCKR2	Data area for read 2
672	(2A0)	BITSTRING	104	PCBCKPW	Data area for Primary Write
776	(308)	BITSTRING	104	PCBCKIW	Data area for Intermediate
880	(370)	BITSTRING	104	PCBCKFW	Data area for Final Write
984	(3D8)	BITSTRING	1	PCBCKFMT	Data area for formats
984	(3D8)	X'6'	0	PCBCKIO#	"(*-PCBCKR1)/PCBCKIOL" Number of I/O entries
	General subtask statistics.				
1088	(440)		1	PCBSBLRS	STCKE time at last reset
1104	(450)	DBL WORD	8	PCBSBINT	STCK reset interval (micro)
1112	(458)	ADDRESS	4	PCBSBQUE	Queue of subtask statistics
1116	(45C)	SIGNED	4		Reserved

Table 417. Structure PCBSBST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCBSBST	
0	(0)	CHARACTER	4	PCBSBID	Eyecatcher
4	(4)	CHARACTER	8	PCBSBNAM	Routine name
12	(C)	ADDRESS	4	PCBSBNXT	Chain field
16	(10)	SIGNED	4	PCBSBCNT	Count of requests
20	(14)	SIGNED	4		Reserved
24	(18)	DBL WORD	8	PCBSBQTM	Total queue time (micro)
32	(20)	DBL WORD	8	PCBSBQTA	Average queue time (micro)
40	(28)	DBL WORD	8	PCBSBRTM	Total run time (micro)
48	(30)	DBL WORD	8	PCBSBRTA	Average run time (micro)
56	(38)	DBL WORD	8	PCBSBCTM	Total CPU time (micro)
64	(40)	DBL WORD	8	PCBSBCTA	Average CPU time (micro)
64	(40)	X'48'	0	PCBSBSTL	"*-PCBSBST" Length of area

$PERFCB mapping

Table 418. Structure PERFCB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PERFCB	, Resume PERFCB DSECT
	Device gatherer performance information.				
1120	(460)		1	PCBDGLRS	STCKE time at last reset
1136	(470)	DBL WORD	8	PCBDGINT	STCK reset interval (micro)
1144	(478)	SIGNED	4	PCBDGSYN	SYNCH count
1148	(47C)	SIGNED	4	PCBDGUPS	Updates sent count
1152	(480)	SIGNED	4	PCBDGUPR	Updates received count
1156	(484)	SIGNED	4	PCBDGNTS	NITs sent
1160	(488)	SIGNED	4	PCBDGNTB	NIT broadcasts
1164	(48C)	SIGNED	4	PCBDGCNR	CNIT updates received
1168	(490)	SIGNED	4	PCBDGCNU	CNITs updated
1172	(494)	SIGNED	4		Reserved
	SPOOL Migration performance information.				
1176	(498)	ADDRESS	4	PCBMIGR	Newest migration CB

Table 419. Structure PMIG

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PMIG	, Migration information
0	(0)	CHARACTER	4	PMIGID	Eyecatcher
4	(4)	ADDRESS	4	PMIGNEXT	Next migration
8	(8)	CHARACTER	6	PMIGSORC	Source vol being migrated
14	(E)	CHARACTER	6	PMIGTARG	Target vol of migration
20	(14)	BITSTRING	1	PMIGFLG1	Flag byte
		1...		PMIG1MOV	"B'10000000'" Move migration
21	(15)	BITSTRING	3		Reserved
24	(18)	DBL WORD	8	PMIGSTRT	STCK time migration started
32	(20)	DBL WORD	8	PMIGINTT	Init phase time (micro)
40	(28)	DBL WORD	8	PMIGSETT	Setup phase time (micro)
48	(30)	DBL WORD	8	PMIGCPYT	Copy phase time (micro)
56	(38)	SIGNED	4	PMIGCPYC	Copy phase track count
60	(3C)	SIGNED	4	PMIGCPYM	Copy phase message count
64	(40)	DBL WORD	8	PMIGCUPT	Catchup phase time (micro)
72	(48)	SIGNED	4	PMIGCUPC	Catchup phase track count
76	(4C)	SIGNED	4	PMIGCUPM	Catchup phase message count
80	(50)	DBL WORD	8	PMIGCLNT	Cleanup phase time (micro)
88	(58)	DBL WORD	8	PMIGOVRT	Overall time for migration (micro)
96	(60)	DBL WORD	8	(0)	Alignment
96	(60)	X'60'	0	PMIGLEN	"*-PMIG" Length of control block

Table 420. Structure PERFCB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PERFCB	, Resume PERFCB DSECT
	Work selection performance information (WSSTAT)				
1180	(49C)	SIGNED	4	PCB#PNUM	Number of calls to $#POST
1184	(4A0)	DBL WORD	8	PCB#PCPU	$#POST tot CPU time

Table 420. Structure PERFCB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1192	(4A8)	DBL WORD	8	PCB#PCAV	and average (micro)
	Normal $#GET work found				
1200	(4B0)	DBL WORD	8	PCB#GCPU	$#GET tot CPU time
1208	(4B8)	DBL WORD	8	PCB#GCAV	and average (micro)
1216	(4C0)	SIGNED	4	PCB#GNUM	Number of $#GETs that returned a JOE
	Normal $#GET no work found				
1220	(4C4)	SIGNED	4	PCB#GZNM	Number of $#GETs that did not find work
1224	(4C8)	DBL WORD	8	PCB#GZCP	$#GET tot CPU time
1232	(4D0)	DBL WORD	8	PCB#GZAV	and average (micro)
	Fast path $#GET work found				
1240	(4D8)	DBL WORD	8	PCB#GFCP	$#GET tot CPU time
1248	(4E0)	DBL WORD	8	PCB#GFAV	and average (micro)
1256	(4E8)	SIGNED	4	PCB#GFPN	Number of fast path $#GETs that found work
	Fast path $#GET no work found				
1260	(4EC)	SIGNED	4	PCB#GFPZ	Number of fast path $#GETS that did not find work
1264	(4F0)	DBL WORD	8	PCB#GFZC	$#GET tot CPU time
1272	(4F8)	DBL WORD	8	PCB#GFZV	and average (micro)
	Indexed $#GET work found				
1280	(500)	DBL WORD	8	PCB#GXCP	$#GET tot CPU time
1288	(508)	DBL WORD	8	PCB#GXAV	and average (micro)
1296	(510)	SIGNED	4	PCB#GXNM	Number of indexed $#GETs that found work
	Indexed $#GET No work found				
1300	(514)	SIGNED	4	PCB#GXZN	Number of indexed $#GETs that did not find work
1304	(518)	DBL WORD	8	PCB#GXZC	$#GET tot CPU time
1312	(520)	DBL WORD	8	PCB#GXZV	and average (micro)
1320	(528)		1	PCB#WLRS	STCKE time at last reset
1336	(538)	DBL WORD	8	PCB#WINT	STCK reset interval (micro)
1344	(540)	ADDRESS	4	PCBTEWA	Address of TEWA (Timed Event Work Area)
1348	(544)	SIGNED	4	(3)	Reserved
1360	(550)	DBL WORD	8	(0)	Alignment
1360	(550)	X'550'	0	PCBLEN	"*-PERFCB" Length of PERFCB

Table 421. Cross Reference for $PERFCB

Name	Offset	Hex Tag
EVENT	0	
EVNTABND	38	2
EVNTDATA	3C	
EVNTDIST	38	3
EVNTDUR	10	

Table 421. Cross Reference for $PERFCB (continued)

Name	Offset	Hex Tag
EVNTID	0	C5E5D5E3
EVNTJID	30	
EVNTLEN	48	48
EVNTMODN	20	
EVNTNEXT	4	
EVNTPNAM	18	
EVNTRUN	38	1
EVNTSEQN	28	
EVNTTIME	8	
EVNTTYPE	38	
GTPTCPUT	0	
GTPTDAT	0	
GTPTLEN	18	20
GTPTQSUS	10	
GTPTRUNT	8	
GTPTSTCK	18	
INITRCPU	10	
INITRENT	10	0
INITRNAM	0	
INITRTIM	8	
INITSTAT	0	
PCB#GCAV	4B8	
PCB#GCPU	4B0	
PCB#GFAV	4E0	
PCB#GFCP	4D8	
PCB#GFPN	4E8	
PCB#GFPZ	4EC	
PCB#GFZC	4F0	
PCB#GFZV	4F8	
PCB#GNUM	4C0	
PCB#GXAV	508	
PCB#GXCP	500	
PCB#GXNM	510	
PCB#GXZC	518	
PCB#GXZN	514	
PCB#GXZV	520	
PCB#GZAV	4D0	
PCB#GZCP	4C8	
PCB#GZNM	4C4	
PCB#PCAV	4A8	
PCB#PCPU	4A0	
PCB#PNUM	49C	
PCB#WINT	538	
PCB#WLRS	528	
PCBCKADR	180	
PCBCKAHL	168	
PCBCKCBC	198	
PCBCKCDR	174	
PCBCKCHL	170	

Table 421. Cross Reference for $PERFCB (continued)

Name	Offset	Hex Tag
PCBCKCNT	188	
PCBCKDHI	1B8	
PCBCKDLO	1BC	
PCBCKFMT	3D8	
PCBCKFW	370	
PCBCKHHI	1B0	
PCBCKHLO	1B4	
PCBCKINT	158	
PCBCKIO	0	
PCBCKIO#	3D8	6
PCBCKIOA	10	
PCBCKIOB	20	
PCBCKIOC	4	
PCBCKIOL	60	68
PCBCKION	0	
PCBCKIOT	8	
PCBCKIO4	18	
PCBCKIST_ACPU	30	
PCBCKIST_AIOS	50	
PCBCKIST_AREC	60	
PCBCKIST_ATIM	40	
PCBCKIST_CPU	28	
PCBCKIST_IOS	48	
PCBCKIST_REC	58	
PCBCKIST_TIM	38	
PCBCKIW	308	
PCBCKLRS	148	
PCBCKNAD	19C	
PCBCKOCK	18C	
PCBCKO4K	190	
PCBCKPW	2A0	
PCBCKQDA	1C8	
PCBCKQDF	1C0	
PCBCKR1	1D0	
PCBCKR2	238	
PCBCKTDR	178	
PCBCKTHL	160	
PCBCKTPM	1A8	
PCBCKTPN	1A0	
PCBCKTP1	1A0	1A4
PCBCKTP2	1A8	1AC
PCBCK4KC	194	
PCBCPULD	B8	
PCBCPULW	D0	
PCBDGCNR	48C	
PCBDGCNU	490	
PCBDGINT	470	
PCBDGLRS	460	
PCBDGNTB	488	

Table 421. Cross Reference for $PERFCB (continued)

Name	Offset	Hex Tag
PCBDGNTS	484	
PCBDGSYN	478	
PCBDGUPR	480	
PCBDGUPS	47C	
PCBEVCNT	12C	
PCBEVINT	140	
PCBEVLRS	130	
PCBEVNLM	12C	64
PCBEVNTF	124	
PCBEVNTL	128	
PCBID	0	D7C3C240
PCBINITS	10	
PCBLEN	550	550
PCBLSTRS	E8	
PCBLSTRT	F0	
PCBMIGR	498	
PCBPCEID	118	
PCBPCNAM	11C	
PCBPTPB	110	
PCBPTPBS	114	
PCBQSINT	B0	
PCBQSLRS	A0	
PCBQSNDX	1C	
PCBQSUHD	14	
PCBQSUTL	18	
PCBRSTIS	100	
PCBRSTIT	108	
PCBRUNLD	C0	
PCBRUNLW	D8	
PCBSBCNT	10	
PCBSBCTA	40	
PCBSBCTM	38	
PCBSBID	0	E2C2E2E3
PCBSBINT	450	
PCBSBLRS	440	
PCBSBNAM	4	
PCBSBNXT	C	
PCBSBQTA	20	
PCBSBQTM	18	
PCBSBQUE	458	
PCBSBRTA	30	
PCBSBRTM	28	
PCBSBST	0	
PCBSBSTL	40	48
PCBTEWA	540	
PCBVERN	4	2
PCBVERSN	4	
PCBWORK	8	
PERFCB	0	

Table 421. Cross Reference for $PERFCB (continued)

Name	Offset	Hex Tag
PERFCB	0	
PERFCB	0	
PERFCB	0	
PERFCB	0	
PERFCB	0	
PERFCB	0	
PERFCB	0	
PERFCB	0	
PERFCB	0	
PERFCB	0	
PERFCB	0	
PMIG	0	
PMIGCLNT	50	
PMIGCPYC	38	
PMIGCPYM	3C	
PMIGCPYT	30	
PMIGCUPC	48	
PMIGCUPM	4C	
PMIGCUPT	40	
PMIGFLG1	14	
PMIGID	0	D7D4C9C7
PMIGINTT	20	
PMIGLEN	60	60
PMIGNEXT	4	
PMIGOVRT	58	
PMIGSETT	28	
PMIGSORC	8	
PMIGSTRT	18	
PMIGTARG	E	
PMIG1MOV	14	80
PPB	0	
PPBCKPTN	34	
PPBCPUT	10	
PPBID	0	
PPBIOCNT	30	
PPBLEN	48	48
PPBLPEVN	6	1
PPBLPOST	6	
PPBLPRES	6	0
PPBLPSSI	6	3
PPBLPSUB	6	4
PPBLPXEC	6	2
PPBPAWCT	38	
PPBPTPB	8	
PPBQSUSE	28	
PPBRUNT	18	
PPBVER	4	1
PPBVERN	4	
PPBWAITC	C	

Table 421. Cross Reference for $PERFCB (continued)

Name	Offset	Hex Tag
PPBWAITT	20	
PSCBD	0	
PSCBID	0	
PSCBLEN	18	18
PSCBNEXT	4	
PSCBTYPE	8	
PSCBWAIT	10	
PSCBWCNT	C	
PTPB	0	
PTPBCKPT	34	
PTPBCPUT	20	
PTPBID	0	
PTPBIOCT	10	
PTPBLEN	48	48
PTPBNEXT	4	
PTPBNXT2	8	
PTPBPAWC	38	
PTPBQSUS	28	
PTPBRUNT	18	
PTPBTAB	C	
PTPBWTCH	30	
QSUCB	0	
QSUCBADR	14	
QSUCBANX	8	
QSUCBCNT	1C	
QSUCBID	0	
QSUCBLEN	40	40
QSUCBPFL	2C	
QSUCBPIN	28	
QSUCBPLT	28	
QSUCBPSC	2E	
QSUCBPSQ	36	
QSUCBTIM	20	
QSUCBUNX	C	
QSUCBUPR	10	
QSUCBVR	4	1
QSUCBVRN	4	
QSUCBXIT	3E	
WTCB	0	
WTCBADR	8	
WTCBADR2	C	
WTCBID	0	
WTCBINFO	8	
WTCBLEN	50	50
WTCBNEXT	4	
WTCBPFL1	24	
WTCBPINH	25	
WTCBPINS	20	
WTCBPLST	20	

Table 421. Cross Reference for $PERFCB (continued)

Name	Offset	Hex Tag
WTCBPRQO	36	
WTCBPSCB	10	
WTCBPSEC	26	
WTCBPSEQ	2E	
WTCBWAIT	18	
WTCBWCNT	14	
WTCBXIT	4C	
WTCB2PLA	48	
WTCB2PLL	50	10
WTCB2PLT	38	
WTCB2SEC	38	
WTCB2SEQ	40	

Chapter 169. $PIT Information

$PIT Programming Interface Information

$PIT is a programming interface.

$PIT Heading Information

Common Name:	Partition Information Table dsect
Macro ID:	$PIT
DSECT Name:	PIT
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'PIT ' Offset: LMT-$CSBPRFX+$CSBID Length: 4
Storage Attributes:	Subpool: 241 Key: 1 Residency: Virtual and real storage are anywhere (above or below 16M) in common storage (CSA), once JES2 has been initialized. During a non-hot start JES2 initialization, temporary PITs exist in JES2 extended private in subpool 6.
Size:	See the PITLEN equate.
Created by:	Temporary PITs are created during JES2 initialization for the maximum number possible (the $MAXINIT equate). Permanent PITs are created by JES2 initialization in CSA, and kept across possible JES2 outages, after the installation's INITDEF PARTNUM parameter is defined.
Pointed to by:	- The CCTPIT field of the $HCCT data area in CSA points to the first PIT. - The $PITABLE field of the $HCT data area in the JES2 address space points to the first PIT. - The PITNEXT field of the previous $PIT data area points to the next numbered PIT. - The SJBPIT field of a batch-job $SJB data area points to the PIT representing the initiator under which that job is running.
Serialization:	Serialization of the PITs is implicit in the status flags in the PITs, and the way they are used by the JES2 main task. Except for the PITSTAT2 flag byte only the main task can alter the fields in the PITs.

$PIT Heading Information

Function: The Partition Information Table (PIT) represents a logic batch-job initiator. JES2 manages multiple logical initiators, which can be separately started, drained, and halted. Each can separately define the ordered list of job classes they will select from. When an initiator is started by an operator, via a $S I command, JES2 submits a START command to create a started task address space, running the MVS Initiator program. As that address space is started up, it is associated with the PIT for which it was started. The Initiator then makes generic subsystem-interface calls for any batch job to be run, without care to what job class or other criteria they have. JES2 applies the checks of criteria based on the logical initiator, the PIT.
Logical initiators can be managed as groups. That is, multiple PITs may have the same value in PITPATID. If, for example, 25 PITs are defined during initialization to have NAME= (PITPATID) XYZ, then commands to start, drain, display, etc 'I XYZ' will apply to all 25, and messages will indicate only XYZ (not the original number). The current ASID for the initiator is the only qualifying information.

$PIT mapping

Table 422. Structure PIT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PIT	HASP PARTITION INFORMATION TBL DSECT
0	(0)	ADDRESS	4	PITNEXT	ADDRESS OF NEXT PIT
4	(4)	ADDRESS	4	PITSJB	ADDRESS OF SJB FOR EXECUTING JOB
8	(8)	ADDRESS	4	PITASCB	Address of initiator's ASCB
12	(C)	BITSTRING	8	PITASCBT	Address Space Token
20	(14)	ADDRESS	4	PITJQOFF	Offset of initiator's JQE
24	(18)	BITSTRING	1	PITFLAGS	PIT FLAG BYTE
EQU B'10000000' Was PITDUPJ					
		.1..		PITSMVER	"B'01000000'" Waiting for memory create
		..1.		PITSIVER	"B'00100000'" PIT Awaiting $SI verification
		...1		PITSRSOK	"B'00010000'" Initiator start-up has progressed far enough to allow automatic restart
		.... 1...		PITCLFMT	"B'00001000'" PITCLASS format : OFF = PITCLASS contains up to 36 one char class names. ON = PITCLASS contains a mixture of up to 8 eight char class names and class group names.
25	(19)	BITSTRING	1	PITSTAT	LOGICAL PARTITION STATUS BYTE
		1...		PITHOLDA	"B'10000000'" PIT is drained ($P I)
		.1..		PITHOLD1	"B'01000000'" PIT is drained ($P IN)

Table 422. Structure PIT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		PITHOLDR	"B'00100000'" PIT is stopped, but not via a command. PIT will automatically be restarted if PITHOLDA and PITHOLD1 are not on.
25	(19)	X'E0'	0	PITHOLD	"PITHOLDA+PITHOLD1+PITHOLDR" PIT is drained
		...1		PITBUSY	"B'00010000'" Partition busy indicator
		.... 1...		PITHALTA	"B'00001000'" PIT is halted ($ZI)
		.... .1..		PITHALT1	"B'00000100'" PIT is halted ($ZIN)
		.... ..1.		PITINIT	"B'00000010'" OS initiator exists for PIT
		1		PITIDLE	"B'00000001'" PIT 'Idle' message sent and no jobs are executing on this started initiator
26	(1A)	BITSTRING	1	PITSTAT2	PIT status byte that may be updated outside JES2 address space and needs proper serialization. Update to this field should be via OIL/NIL
		1...		PIT2NSJB	"B'10000000'" Init with no SJB needs to be cleaned up
27	(1B)	SIGNED	1	PITCLEAN	ID of PIT cleaner
27	(1B)	X'1'	0	PITCLN1	"1" PIT cleanup routine
27	(1B)	X'2'	0	PITCLN2	"2" Pending by class
27	(1B)	X'3'	0	PITCLN3	"3" XPITTERM
27	(1B)	X'4'	0	PITCLN4	"4" XINSTART (ASCRE failed)
27	(1B)	X'5'	0	PITCLN5	"5" XDRINIT
27	(1B)	X'6'	0	PITCLN6	"6" XREENQ
27	(1B)	X'7'	0	PITCLN7	"7" XINSTART (Before ASCRE)
		The PITPATID is the initiator's 'name' or 'id'. 1) If NAME= was not coded on an INIT(n) init stmt for the initiator, PITPATID is the character value for its number, left-justified. 2) If NAME= was coded on an initialization stmt for the initiator, PITPATID is that NAME= value, left-justified. The value does not have to be unique (and probably is not). Commands against PITs can be done with subscript compares in character format, or with numerical indices. For example, $SI(1-20) starts all initiators in the numerical range 1-20 regardless of the value of PITPATID. $SI(ABC), on the other hand, starts all initiators with a name of ABC in PITPATID. Normal $SCAN rules apply when determining whether the specified subscript corresponds to the symbolic name or the numerical index.				
28	(1C)	CHARACTER	4	PITPATID	Initiator partition 'id'
32	(20)	CHARACTER	64	PITCLASS	Class list. Contents depend on the PITCLFMT bit.
32	(20)	CHARACTER	36	PITCLS1	1 character class list (PITCLFMT bit off)

Table 422. Structure PIT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
32	(20)	CHARACTER	8	PITCLS8(0)	8 character class list (PITCLFMT bit on)
96	(60)	BITSTRING	4	PITJBKEY	Job key for INIT STC
100	(64)	SIGNED	2	PITASID	Initiator ASID
102	(66)	BITSTRING	6		Reserved
112	(70)	DBL WORD	8	(0)	Ensure doubleword length
112	(70)	X'70'	0	PITLEN	"*-PIT" PIT LENGTH

Table 423. Cross Reference for $PIT

Name	Offset	Hex Tag
PIT	0	
PITASCB	8	
PITASCBT	C	
PITASID	64	
PITBUSY	19	10
PITCLASS	20	
PITCLEAN	1B	
PITCLFMT	18	8
PITCLN1	1B	1
PITCLN2	1B	2
PITCLN3	1B	3
PITCLN4	1B	4
PITCLN5	1B	5
PITCLN6	1B	6
PITCLN7	1B	7
PITCLS1	20	
PITCLS8	20	
PITFLAGS	18	
PITHALTA	19	8
PITHALT1	19	4
PITHOLD	19	E0
PITHOLDA	19	80
PITHOLDR	19	20
PITHOLD1	19	40
PITIDLE	19	1
PITINIT	19	2
PITJBKEY	60	
PITJQOFF	14	
PITLEN	70	70
PITNEXT	0	
PITPATID	1C	
PITSIVER	18	20
PITSJB	4	
PITSMVER	18	40
PITSRSOK	18	10
PITSTAT	19	
PITSTAT2	1A	
PIT2NSJB	1A	80

Chapter 170. $PPPWORK Information

$PPPWORK Programming Interface Information

$PPPWORK is a programming interface.

$PPPWORK Heading Information

Common Name:	JES2 Print/Punch PCE Work Area
Macro ID:	$PPPWORK
DSECT Name:	PCE ($PPPWORK is part of the PCE DSECT)
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4
Storage Attributes:	Subpool: See $PCE Key: See $PCE Residency: See $PCE
Size:	See symbol PPPLEN for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by:	See $PCE for local printers and punches Created by $PCEDYN when RJE devices sign on
Pointed to by:	The $PRTPCE field of the $HCT data area, and the $PUNPCE field of the $HCT data area, and the $TPPRPCE field of the $HCT data area, and the $TPPUPCE field of the $HCT data area points into the $PCEORG/$PCELAST chain to the first Print/Punch PCE. Since this chain contains all PCEs, use the PCEID field to determine when you have chained past the last PCE of this type. The DCTPCE field of the $DCT data area (see "Function" below) See $PCE for other pointer fields that apply to all PCE types.
Serialization:	Normal PCE dispatch serialization
Function:	The fields in this work area are used by a JES2 Print/Punch Processor and by its support routines and exits. $PPPWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $PPPWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEPRTID or PCEPUNID in the second byte of field PCEID. The $PPPWORK mapping is used for printers in JES mode. The PCE work area for printers in FSS mode is mapped by $FSSWORK. This PCE is device related. This processor type has a one-to-one relationship to devices. Field PCEDCT points to a Device Control Table (DCT) and field DCTPCE in that DCT points to this PCE.

$PPPWORK mapping

Table 424. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	HASP PRINT/PUNCH PROCESSOR
320	(140)	BITSTRING	1	PPPFLAG1	PRINT/PUNCH FLAG BYTE
		1...		PPP1WRTS	"X'80'" PRINT/PUNCH WRITE SWITCH
		.1..		PPP1SUSP	"X'40'" PRINT/PUNCH SUSPEND SWITCH
		..1.		PPP1NSKP	"X'20'" No Skip-to-channel-1
		...1		PPP1TERM	"X'10'" PRINT/PUNCH TERMINATION SWITCH
		.... 1...		PPP1FNCI	"X'08'" PUNCH INTERPRET REQUESTED
		.... .1..		PPP1DRER	"X'04'" PRINT/PUNCH DATA READ ERROR
		.... ..1.		PPP1JIRE	"X'02'" PRINT/PUNCH JCT/IOT READ ERROR
321	(141)	BITSTRING	1	PPPFLAG2	PRINT/PUNCH FLAG BYTE
		1...		PPP2TCEL	"X'80'" TRACK-CELL DE-SPOOLING SWITCH
		.1..		PPP2READ	"X'40'" PRINT/PUNCH READ SWITCH
		..1.		PPP2CKPN	"X'20'" PRINT/PUNCH CKPT-NEEDED SWITCH
		...1		PPP2CKPA	"X'10'" PRINT/PUNCH CKPT-ALLOWED SWITCH
		.... 1...		PPP2PCIW	"X'08'" PRINT/PUNCH PCI WAIT SWITCH
		.... .1..		PPP2OPTJ	"X'04'" PRINTER OPTCD=J SWITCH
		.... ..1.		PPP2FDS	"X'02'" FIRST SYSOUT DATA SET SWITCH
		1		PPP2SMFE	"X'01'" DATA BUFFER ERROR FLAG FOR SMF
322	(142)	BITSTRING	1	PPPFLAG3	PRINT/PUNCH FLAG BYTE 3
		1...		PPP3TRNC	"X'80'" TRUNCATE OUTPUT
		.1..		PPP3RECV	"X'40'" RECOVERY IN PROCESS
		..1.		PPP3NAVL	"X'20'" DEVICE NO LONGER AVAILABLE
		...1		PPP3CK38	"X'10'" 3800 CHECKPOINT FLAG
		.... 1...		PPP3CKRP	"X'08'" 3800 REPOSITION BIT
		.... .1..		PPP3CKSU	"X'04'" 3800 PPQ SUSPEND BIT
		.... ..1.		PPP3CKRS	"X'02'" 3800 RESTART BIT G38E
		1		PPP3INIT	"X'01'" FIRST USE BIT
323	(143)	BITSTRING	1	PPPS6DCI	PRINT/PUNCH SMF FLAGS (SMF6DCI)
324	(144)	BITSTRING	1	PPPDCTFL	PR/PU/RMT DCT FLAGS (DCTFLAGS)
325	(145)	BITSTRING	1	PPPBFOPT	PRINT/PUNCH BUFFERING OPTION
326	(146)	SIGNED	2		Reserved
328	(148)	SIGNED	4	PPPUCB	ADDRESS OF OUTPUT DEVICE UCB
332	(14C)	SIGNED	4	PPPXTCCW(0)	3800 SELECT-XTAB CCW OP-CODES
332	(14C)	SIGNED	4	PPPUECCW	ADDRESS OF PUNCH ERROR CCW
336	(150)	SIGNED	8	PPPTIMON	PRT/PUN SIGN-ON TIME/DATE
344	(158)	SIGNED	4	PPPBFADR	ADDR OF 1ST DATA BUFFER CHAIN
348	(15C)	SIGNED	4	PPPBFSAV	ADDR OF NEXT DATA BUFFER CHAIN
352	(160)	SIGNED	4	PPPJCTBF	ADDRESS OF JCT BUFFER
356	(164)	SIGNED	4	PPPLCCWA	ADDRESS OF LAST CCW

Table 424. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
360	(168)	SIGNED	2	PPPLCCWO	OFFSET TO LAST CCW IN CHAIN
362	(16A)	BITSTRING	1	PPPRMSEL	SNA REMOTE SELECT BYTE SAVE AREA
363	(16B)	BITSTRING	1	PPP3211I	3211 INDEX VALUE
364	(16C)	BITSTRING	1	PPPFLAG4	PRINT/PUNCH FLAG BYTE 4
		1...		PPP4PS38	"X'80'" 3800 PATH SET INDICATOR
		.1..		PPP43081	"X'40'" WCS PATH INDICATOR
		..1.		PPP4EX15	"X'20'" EXIT 15 SWITCH
		...1		PPP4RPBS	"X'10'" REPOSITION DUE TO BSPACE
		.... 1...		PPP4QSMF	"X'08'" $QUESMFB INDICATOR
		.... .1..		PPP4FPRD	"X'04'" $F PRTN,D IN PROGRESS
		.... ..1.		PPP4FAUT	"X'02'" A PDDB within the work JOE failed the authorization check
		1		PPP4CALL	"X'01'" All skips to channel treated as new page
365	(16D)	BITSTRING	1	PPPFLAG5	PRPU FLAG BYTE 5, HASP185 USE
		1...		PPP5DSOP	"B'10000000'" DATASET OPEN, NOT CLOSED
		.1..		PPP5IJBK	"B'01000000'" INVALID JOB KEY FOR BUFFER
		..1.		PPP5IDSK	"B'00100000'" INVALID DATASET KEY FOR BUFFER
		...1		PPP5IOER	"B'00010000'" I/O ERROR ON CNTRL BLOCK READ
		.... 1...		PPP5IMTT	"B'00001000'" INVALID TRACK ADDR FOR READ
		.... .1..		PPP5OJOE	"B'00000100'" PRINT/PUNCH OBSOLETE JOE SWITCH
		.... ..1.		PPP5AUTF	"B'00000010'" AUTHORIZATION FAILED
		1		PPP5T185	"B'00000001'" ERROR ENCOUNTERED WHEN DATASET WAS CLOSED
366	(16E)	BITSTRING	1	PPPFLAG6	Print/Punch Flag byte 6
		1...		PPP6LERR	"B'10000000'" Logical error during SWBTUREQ service
		.1..		PPP6NEWS	"B'01000000'" JESNEWS requested and available
		..1.		PPP6SWBD	"B'00100000'" Unsuccessful I/O for SWBITs
		...1		PPP6NODS	"B'00010000'" No data set found in IOT
		.... 1...		PPP6BFER	"B'00001000'" Large SMF buffer is too small to hold type 6 with SWBTU
		.... .1..		PPP6DSMR	"B'00000100'" PDSMRSWB routine entered
		.... ..1.		PPP6MRGR	"B'00000010'" $SWBMERG invoked
		1		PPP6ABND	"B'00000001'" Abend in PDSMRSWB and/or $SWBMERG service
367	(16F)	BITSTRING	1	PPPFLAG7	Print/Punch Flag byte 7
		1...		PPP7RTRI	"B'10000000'" Recovering from abend in $SWBMERG service
		.1..		PPP7SMRC	"B'01000000'" Abend in $SWBMERG cleanup call

Table 424. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		PPP7SMFU	"B'00100000'" SMF RECORD UPDATED
		...1		PPP7TRAN	"B'00010000'" Translate lines
		.... 1...		PPP71PPF	"B'00001000'" In case of impact printer restarting from backspace
		.... .1..		PPP7TRLR	"B'00000100'" Printing job trailer page
368	(170)	BITSTRING	1		RESERVED FOR FUTURE USE
369	(171)	BITSTRING	1	PPPSAVDF	WORK AREA FOR SPACING FLAG
370	(172)	BITSTRING	1	PPPJOEFL	COPY OF JOEFLAG1
371	(173)	BITSTRING	2	PPPFCBMP	FCB BIT MAP
373	(175)	BITSTRING	1	PPPERCNT	PERM ERP ERROR COUNT
374	(176)	SIGNED	2	PPPBFLRC	NO. OF LRC WITHIN CURRENT BUFFR
376	(178)	SIGNED	4	PPPRCBSV	RCB WORK AREA
384	(180)	DBL WORD	8	PPPCCWRK	CCW ANALYSIS SAVE AREA
392	(188)	SIGNED	4	PPPPNUMR	PAGE NUMBER FOR RE-POSITIONING
396	(18C)	BITSTRING	1	PPPBUFRO	BUFFER OFFSET FOR RE-POSITIONING
397	(18D)	BITSTRING	1	PPPBUFAV	COUNT OF AVAILABLE INPUT BUFFERS
398	(18E)	BITSTRING	1	PPPDSCPY	DATA SET COPY COUNT
399	(18F)	BITSTRING	1	PPPPDIRI	PDIR IDENTIFIER
400	(190)	ADDRESS	4	PPPCHKBF	ADDRESS OF CHK BUFFER
404	(194)	ADDRESS	4	PPPSESSA	Address of the ES section in the SMF type 24 record
408	(198)	SIGNED	2	PPPNSWB	Number of SWBITS for a PDDB
410	(19A)	SIGNED	2	PPPTUSUM	Total size of all SWBTUs
412	(19C)	BITSTRING	1	PPPRESP	Copy of the response byte returned from Exit 1 & 15
413	(19D)	BITSTRING	1	PPPSEPPG	Copy of $SEPPAGE from HCT
414	(19E)	SIGNED	2	PPPSPCTR	Separator page counter
416	(1A0)	BITSTRING	6	PPPFIOTK	Track address (MQTR) of the IOT for the 1st PDDB of the JOE
422	(1A6)	BITSTRING	2		Reserved
424	(1A8)	ADDRESS	4	PPPFIOTA	Buffer address of the IOT for the 1st PDDB of the JOE
428	(1AC)	SIGNED	4	PPPFPDDB	Address of the 1st PDDB of the JOE
432	(1B0)	SIGNED	4	PPPFSWTR	Address of the 1st SWBIT MTTR of the JOE
436	(1B4)	SIGNED	4	PPPSWBIT	Address of SWBIT chain
440	(1B8)	SIGNED	4	PPPTURET	Address of TU Pointer List for SWBTUREQ RETRIEVE
444	(1BC)	SIGNED	4	PPPTUSPL	Address of TU Pointer List for SWBTUREQ SPLICE
448	(1C0)	SIGNED	4	PPPKYLST	Address of the Key List used for SWBTUREQ SERVICE
452	(1C4)	SIGNED	4	PPPTUADR	Address of TU output area used for SWBTUREQ SERVICE
456	(1C8)	ADDRESS	4	PPPJSWBT	Address of JOE SWBIT chain
460	(1CC)	SIGNED	2	PPPMOSZ	Modify SWBTU size
462	(1CE)	SIGNED	2	PPPMESZ	Merged SWBTU size
464	(1D0)	ADDRESS	4	PPPMEST	Merged SWBTU address
468	(1D4)	ADDRESS	4	PPPSBMPL	Address of $SWBMERG parameter list

Table 424. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
472	(1D8)	SIGNED	2	PPPTUSZ	Size of the TU output area used for SWBTUREQ SERVICE
474	(1DA)	SIGNED	2	PPPADNUM	Number of lines of ADDRESS
476	(1DC)	ADDRESS	4	PPPIIOB2	Save field for the IIOB
480	(1E0)	ADDRESS	4	PPPBFSV2	Buffer save field
484	(1E4)	ADDRESS	4	PPPBFAD2	Buffer save field
488	(1E8)	SIGNED	4	PPPSEGID	Segment ID for SPIN data sets
492	(1EC)	ADDRESS	4	PPPXPARM	Exit point parameter list
496	(1F0)	BITSTRING	6	PPPWKPTN	Segment number work area
502	(1F6)	BITSTRING	2	PPPSWBRC	Logical error return code
504	(1F8)	BITSTRING	4	PPPSWBRS	Logical error reason code
508	(1FC)	BITSTRING	1	PPPHRSN	JOE hold reason
509	(1FD)	BITSTRING	3		Reserved for future use
512	(200)	CHARACTER	36	PPPERMSG	Logical error message
548	(224)	ADDRESS	4	PPPIOTAD	Address of IOT buffer save area
552	(228)	CHARACTER	80	PPPBUFSV	PCOMMENT WORK AREA
552	(228)	DBL WORD	8	PPPSSRWK	SEPARATOR SERVICE RTN WORK
		BEGIN PRINT/PUNCH CHECKPOINT DATA AREA. THESE FIELDS MUST CORRESPOND EXACTLY TO THE CHKJESWK FIELDS MAPPED IN THE $CHK DSECT.			
632	(278)	SIGNED	4	(0)	FORCE FULLWORD ALIGNMENT
632	(278)	SIGNED	2	PPPEBRCB	NUMBER OF LAST EJECT RCB
634	(27A)	SIGNED	2	PPPDDBDS	CURRENT PDDB DISPLACEMENT
636	(27C)	SIGNED	4	PPPDDBPC	CURRENT PDDB PAGE COUNTER
640	(280)	SIGNED	4	PPPLCCNT	CURRENT LINE OR CARD COUNT
644	(284)	SIGNED	4	PPPPAGCT	CURRENT PAGE COUNT (PHYSICAL)
648	(288)	SIGNED	4		Unused - for alignment
652	(28C)	SIGNED	4		Unused - for alignment
656	(290)	BITSTRING	1	PPPCOPCT	COPY COUNTER
657	(291)	BITSTRING	1	PPPLEBOF	LAST EJECT BUFFER OFFSET
658	(292)	BITSTRING	1	PPPCGCNT	CURRENT COPY GROUP COUNT
659	(293)	BITSTRING	1	PPPDSCT	CURRENT DATA SET COUNT
		KEEP NEXT TWO FIELDS TOGETHER FOR $DU COMMAND			
660	(294)	SIGNED	4	PPPRECNM	CURRENT RECORD NUMBER
664	(298)	SIGNED	4	PPPPAGNM	CURRENT PAGE NUMBER
668	(29C)	CHARACTER	13		Unused - for alignment
681	(2A9)	BITSTRING	1	PPPCVERS	CHK version - see $CHK
682	(2AA)	SIGNED	2	PPPBPHPC	PDDB PHYSICAL PAGE COUNT
684	(2AC)	BITSTRING	6	PPPLEBTK	LAST EJECT BUFFER MQTR
690	(2B2)	BITSTRING	6	PPPIOTTK	CURRENT IOT MQTR
690	(2B2)	X'278'	0	PPPCKPTD	"PPPEBRCB,*-PPPEBRCB" CKPT-DATA EQUATE AND LENGTH
		END PRINT/PUNCH CHECKPOINT DATA AREA.			
696	(2B8)	SIGNED	4	(0)	ESTABLISH THE
688	(2B0)	SIGNED	4	PPPDADCT(0)	USING STORAGE FOR THE DCT FIELDS NOT IN A DA DCT
696	(2B8)	SIGNED	4	(0)	DA DCT FOR $EXCP
724	(2D4)	SIGNED	4	PPPDEVTP	PRINT/PUNCH DEVICE TYPE
724	(2D4)	X'2D7'	0	PPPDEVB1	"PPPDEVTP+3,1" UCB BYTE4 HAS 1BYTE DEV CODE

Table 424. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
724	(2D4)	X'2D6'	0	PPPDEVB2	"PPPDEVTP+2,1" UCB BYTE3 HAS 1BYTE CODE
728	(2D8)	SIGNED	4	PPPLSAVE	LINK REGISTER SAVE WORD
732	(2DC)	SIGNED	4	PPPLNECT	MAXIMUM LINES PER PAGE
736	(2E0)	SIGNED	4	PPPPLC	PRINT/PUNCH PAGE LINE COUNTER
740	(2E4)	BITSTRING	2	PPPPLC2	Continuation of PPPPLC for when we use PPPPLC as an MQTR save area.
742	(2E6)	SIGNED	2	PPPCKPPS	LOG PAGES/CKPT SAVE AREA
744	(2E8)	SIGNED	2	PPPCKPP	LOG PAGES/CKPT COUNTER
746	(2EA)	SIGNED	2	PPPCKPLS	LINES/LOG PAGE SAVE AREA
748	(2EC)	SIGNED	2	PPPCKPL	LINES/LOG PAGE COUNTER
752	(2F0)	ADDRESS	4	PPPWKJOE	Address of real work JOE
756	(2F4)	ADDRESS	4	PPPJOAA	Address of JOA that corresponds to PPPWKJOE
760	(2F8)	CHARACTER	8	PPPWKFRM	WORK AREA FOR DEVICE FORMS
768	(300)	CHARACTER	0	PPPWKWFM(0)	BACKUP AREA FOR LIST OF FORMS
832	(340)	CHARACTER	8	PPPBLKWK(0)	WORK AREA FOR BLOCK ROUTINE
832	(340)	CHARACTER	4	PPPWKFCB	WORK AREA FOR DEVICE FCB
836	(344)	CHARACTER	4	PPPWKUCS	WORK AREA FOR DEVICE UCS
840	(348)	SIGNED	4	PPPBSPCT	BSP FRAME PAGE COUNTER
NOTE: Keep PPPCCWPU,PPPPURCB, and PPPPUBFO together					
844	(34C)	SIGNED	4	PPPLNDSP(0)	PRT BLK LETTER NEW LINE DISPL'T
844	(34C)	BITSTRING	6	PPPCCWPU	MQTR OF LAST PU CCW
850	(352)	SIGNED	2	PPPLNCTR(0)	PRT BLK LETTER LINE COUNTER
850	(352)	BITSTRING	2	PPPPURCB	RCB OF LAST PU CCW
852	(354)	BITSTRING	1	PPPPUBFO	BUFFER OFFSET OF LAST PU CCW
853	(355)	BITSTRING	1	PPPL3625	LAST 3525 PRINT LINE COMMAND
854	(356)	BITSTRING	1	PPPRSC38	MOST RECENT 3800 SELECT CCW
855	(357)	BITSTRING	1	PPPTRC38	MAXIMUM 3800 TABLE REF CHAR VALUE
856	(358)	CHARACTER	80	PPPMSG	MESSAGE WORK AREA
856	(358)	X'358'	0	PPPMSFRM	"PPPMSG,L'PDBFORMS" SAVE AREA FOR FORMS
856	(358)	X'360'	0	PPPMSFCB	"PPPMSG+L'PDBFORMS,L'PDBFCB" SAVE AREA FOR FCB
856	(358)	X'364'	0	PPPMSUCS	"PPPMSG+L'PDBFORMS+L'PDBFCB,L'PDBUCS" SAVE AREA UCS
936	(3A8)	CHARACTER	8	PPPSFORM	SETUP FORM NUMBER
944	(3B0)	CHARACTER	4	PPPSFCB	SETUP FCB IMAGE
948	(3B4)	CHARACTER	4	PPPSCHR1	SETUP TRANSLATE TABLE 1
952	(3B8)	CHARACTER	4	PPPSCHR2	SETUP TRANSLATE TABLE 2
956	(3BC)	CHARACTER	4	PPPSCHR3	SETUP TRANSLATE TABLE 3
960	(3C0)	CHARACTER	4	PPPSCHR4	SETUP TRANSLATE TABLE 4
964	(3C4)	CHARACTER	4	PPPSFLSH	SETUP FLASH ID
968	(3C8)	CHARACTER	4	PPPSMODI	SETUP MODIFICATION IMAGE
972	(3CC)	BITSTRING	1	PPPSFLSC	SETUP FLASH COUNT
973	(3CD)	BITSTRING	1	PPPSMODT	SETUP MODIFICATION TRC
974	(3CE)	BITSTRING	1	PPPSSCOP	SETUP STARTING COPY NUMBER
975	(3CF)	BITSTRING	1	PPPSCOPN	SETUP NO. COPIES THIS XMISSION
976	(3D0)	BITSTRING	1	PPPSFL38	3800 SETUP FLAG

Table 424. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		PPPSBRST	"B'10000000'" SETUP BURST=YES FLAG
		.1..		PPPSREXM	"B'01000000'" RETRANSMISSION FLAG
		..1.		PPPSSEP	"B'00100000'" SETUP FOR SEPARATORS
		...1		PPPSNFLS	"B'00010000'" SETUP FLASH=NO FLAG
		.... 1...		PPPSPCMD	"B'00001000'" SETUP FOR CMD MSG
977	(3D1)	BITSTRING	1		Reserved for future use
978	(3D2)	CHARACTER	8	PPPKEY(0)	JOB KEY AND DATA SET KEY
978	(3D2)	CHARACTER	4	PPPJKEY	JOB KEY FROM JCT
982	(3D6)	CHARACTER	4	PPPDSKEY	DATA SET KEY FROM PDDB
986	(3DA)	BITSTRING	2	PPPDSORT	Sort key generation field (low order two bytes of PDBCRTME)
988	(3DC)	BITSTRING	2	PPPDSINS	Instance id from PDDB
992	(3E0)	SIGNED	4	PPPFBPGC	$F/$B PAGE COUNT
996	(3E4)	SIGNED	4	PPPOIOB	OUTPUT IOB ADDRESS
1000	(3E8)	SIGNED	4	PPPIIOB	INPUT IOB ADDRESS
1004	(3EC)	SIGNED	4	PPPOCCWP	PRIMARY OUTPUT CCW AREA
1008	(3F0)	SIGNED	4	PPPOCCWS	SECONDARY OUTPUT CCW AREA
1012	(3F4)	BITSTRING	6	PPPNXTCL	MQTR OF NEXT TRAKCELL
1018	(3FA)	BITSTRING	2		Reserved
1020	(3FC)	SIGNED	4	PPPTRBFT	ADDR OF MTTR/BUFFER ADDR TABLE
1024	(400)	SIGNED	4	PPPCKPTP	CHECKPOINT DATA POINTER
1028	(404)	ADDRESS	4	PPPIMDTE	ADDR OF HASPIMAG TASK DTE
1032	(408)	SIGNED	4	PPPRATAD(0)	SAVE AREA FOR RAT ADDRESS
1032	(408)	SIGNED	4	PPPPQH38	3800 PAGE QUEUE HEADER ADR G38E
1036	(40C)	SIGNED	4	PPPDSRCT	DATA SET RECORD COUNT
1040	(410)	SIGNED	4	PPPNBLK	NUMBER OF DATA BLOCKS READ
1044	(414)	SIGNED	4	PPPSMFBF	SMF BUFFER SAVE AREA
1048	(418)	SIGNED	4	PPPSMFPQ	SMF BUFS ON PAGE QUEUE
1052	(41C)	BITSTRING	1	PPPPSC38	PREVIOUS 3800 STARTING COPY NO.
1053	(41D)	BITSTRING	1	PPPPCC38	PREVIOUS 3800 COPY COUNT
1054	(41E)	BITSTRING	8	PPPCGR28	3800 COPY GROUPS DISTRIBUTION
1062	(426)	BITSTRING	1	PPPFLC38	3800 FLASH COUNT
1063	(427)	BITSTRING	1	PPPPRFLC	PREVIOUS FLASH COUNT
1064	(428)	CHARACTER	28	PPPBSPT	FOUR ENTRY BACKSPACE TABLE
1092	(444)	ADDRESS	4	PPPBUFER	BUFFER OBTAINED IN $#GET
		PARAMETER LIST FOR PRTAUTH ROUTINE CALLED FROM HASPPRPU. THIS MATCHES THE ONE DEFINED IN $FSACB.			
1096	(448)	SIGNED	4	PPPAPARM(0)	PARM LIST FOR PRTAUTH
1096	(448)	ADDRESS	4	PPPJCTAD	JCT ADDRESS
1100	(44C)	ADDRESS	4	PPPPDDBA	PDDB ADDRESS
1104	(450)	ADDRESS	4	PPPANEWS	JESNEWS ADDRESS
1108	(454)	CHARACTER	40	PPPLOGST	LOG STRING (ENTITY NAME WITH LENGTH IN THE FIRST BYTE)
1148	(47C)	ADDRESS	4		RESERVED FOR FUTURE USE
1148	(47C)	X'38'	0	PPPAPLEN	"*-PPPAPARM" LENGTH OF PRTAUTH PARMLIST END OF PRTAUTH PARM LIST

Table 424. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Work area for ASAXWC macros MACDATE -06/16/09-<0>			
0	(0)	X'480'	0	M00M1319	"PPPLIST" ++ ASAXWC NAME
1152	(480)	SIGNED	4	PPPLIST(0)	++ ASAXWC PARM LIST
1152	(480)	CHARACTER	4	PPPLIST_XPARMAREA1	++ FIELD_LABEL
1156	(484)	CHARACTER	24	PPPLIST_XPARMAREA2	++ FIELD_LABEL
1156	(484)	X'49C'	0	PPPLIST_PL_END	"*" ++ END OF BASE PLIST
1152	(480)	ADDRESS	4	PPPLIST_XPATTERNSTR_ADDR	++ ADDR
1156	(484)	SIGNED	4	PPPLIST_XPATTERNSTRLEN	++
1160	(488)	ADDRESS	4	PPPLIST_XSTRING_ADDR	++ ADDR
1164	(48C)	SIGNED	4	PPPLIST_XSTRINGLEN	++
1168	(490)	ADDRESS	4	PPPLIST_XZEROORMORE_ADDR	++ ADDR
1172	(494)	ADDRESS	4	PPPLIST_XONECHAR_ADDR	++ ADDR
1176	(498)	ADDRESS	4	PPPLIST_XDELIMITER_ADDR	++ ADDR
1152	(480)	ADDRESS	4	PPPLIST_XPPPATTERNINFO_ADDR	++ ADDR
1156	(484)	ADDRESS	4	PPPLIST_XPPPATTERNSTR_ADDR	++ ADDR
1160	(488)	SIGNED	4	PPPLIST_XPPPATTERNSTRLEN	++
1164	(48C)	ADDRESS	4	PPPLIST_XPPZEROORMORE_ADDR	++ ADDR
1168	(490)	ADDRESS	4	PPPLIST_XPPONECHAR_ADDR	++ ADDR
1172	(494)	ADDRESS	4	PPPLIST_XPPDELIMITER_ADDR	++ ADDR
1156	(484)	ADDRESS	4	PPPLIST_XPPSTRING_ADDR	++ ADDR
1160	(488)	SIGNED	4	PPPLIST_XPPSTRINGLEN	++
1180	(49C)	X'1C'	0	PPPLISTL	"*-PPPLIST" ++ LENGTH OF PLIST
				ASAXWC-0	
1180	(49C)	BITSTRING	256	PPPAREA	Work area passed to ASAXWC
1180	(49C)	X'49C'	0	PPPWRK18	"PPPAREA,18,C'C'" 18-byte work area
1436	(59C)	SIGNED	4	PPPOILNL(3)	OIL/NIL regs save area
1448	(5A8)	DBL WORD	8	(0)	
1448	(5A8)	X'468'	0	PPPLEN	"*-PCEWORK" SIZE OF PPU PCE WORK AREA

Table 425. Cross Reference for $PPPWORK

Name	Offset	Hex Tag
M00M1319	0	480
PCE	0	
PPPADNUM	1DA	
PPPANEWS	450	
PPPAPARM	448	
PPPAPLEN	47C	38
PPPAREA	49C	
PPPBFADR	158	
PPPBFAD2	1E4	
PPPBFLRC	176	
PPPBFOPT	145	
PPPBFSAV	15C	
PPPBFSV2	1E0	
PPPBLKWK	340	

Table 425. Cross Reference for $PPPWORK (continued)

Name	Offset	Hex Tag
PPPBPHPC	2AA	
PPPBSPCT	348	
PPPBSPT	428	
PPPBUFAV	18D	
PPPBUFER	444	
PPPBUFRO	18C	
PPPBUFSV	228	
PPPCCWPU	34C	
PPPCCWRK	180	
PPPCGCNT	292	
PPPCGR28	41E	
PPPCHKBF	190	
PPPCKPL	2EC	
PPPCKPLS	2EA	
PPPCKPP	2E8	
PPPCKPPS	2E6	
PPPCKPTD	2B2	278
PPPCKPTP	400	
PPPCOPCT	290	
PPPCVERS	2A9	
PPPDADCT	2B0	
PPPDCTFL	144	
PPPDDBDS	27A	
PPPDDBPC	27C	
PPPDEVB1	2D4	2D7
PPPDEVB2	2D4	2D6
PPPDEVTP	2D4	
PPPDSCPY	18E	
PPPDSCT	293	
PPPDSINS	3DC	
PPPDSKEY	3D6	
PPPDSORT	3DA	
PPPDSRCT	40C	
PPPEBRCB	278	
PPPERCNT	175	
PPPERMSG	200	
PPPFBPGC	3E0	
PPPFCBMP	173	
PPPFIOTA	1A8	
PPPFIOTK	1A0	
PPPFLAG1	140	
PPPFLAG2	141	
PPPFLAG3	142	
PPPFLAG4	16C	
PPPFLAG5	16D	
PPPFLAG6	16E	
PPPFLAG7	16F	
PPPFLC38	426	
PPPFPDDB	1AC	

Table 425. Cross Reference for $PPPWORK (continued)

Name	Offset	Hex Tag
PPPFSWTR	1B0	
PPPHRSN	1FC	
PPPIIOB	3E8	
PPPIIOB2	1DC	
PPPIMDTE	404	
PPPIOTAD	224	
PPPIOTTK	2B2	
PPPJCTAD	448	
PPPJCTBF	160	
PPPJKEY	3D2	
PPPJOAA	2F4	
PPPJOEFL	172	
PPPJSWBT	1C8	
PPPKEY	3D2	
PPPKYLST	1C0	
PPPLCCNT	280	
PPPLCCWA	164	
PPPLCCWO	168	
PPPLEBOF	291	
PPPLEBTK	2AC	
PPPLEN	5A8	468
PPPLIST	480	
PPPLIST_PL_END	484	49C
PPPLIST_XDELIMITER_ADDR	498	
PPPLIST_XONECHAR_ADDR	494	
PPPLIST_XPARMAREA1	480	
PPPLIST_XPARMAREA2	484	
PPPLIST_XPATTERNSTR_ADDR	480	
PPPLIST_XPATTERNSTRLEN	484	
PPPLIST_XPPDELIMITER_ADDR	494	
PPPLIST_XPPONECHAR_ADDR	490	
PPPLIST_XPPPATTERNINFO_ADDR	480	
PPPLIST_XPPPATTERNSTR_ADDR	484	
PPPLIST_XPPPATTERNSTRLEN	488	
PPPLIST_XPPSTRING_ADDR	484	
PPPLIST_XPPSTRINGLEN	488	
PPPLIST_XPPZEROORMORE_ADDR	48C	
PPPLIST_XSTRING_ADDR	488	
PPPLIST_XSTRINGLEN	48C	
PPPLIST_XZEROORMORE_ADDR	490	
PPPLISTL	49C	1C
PPPLNCTR	352	
PPPLNDSP	34C	
PPPLNECT	2DC	
PPPLOGST	454	
PPPLSAVE	2D8	
PPPL3625	355	
PPPMEST	1D0	
PPPMESZ	1CE	

Table 425. Cross Reference for $PPPWORK (continued)

Name	Offset	Hex Tag
PPPMOSZ	1CC	
PPPMSFCB	358	360
PPPMSFRM	358	358
PPPMSG	358	
PPPMSUCS	358	364
PPPNBLK	410	
PPPNSWB	198	
PPPNXTCL	3F4	
PPPOCCWP	3EC	
PPPOCCWS	3F0	
PPPOILNL	59C	
PPPOIOB	3E4	
PPPPAGCT	284	
PPPPAGNM	298	
PPPPCC38	41D	
PPPPDDBA	44C	
PPPPDIRI	18F	
PPPPLC	2E0	
PPPPLC2	2E4	
PPPPNUMR	188	
PPPPQH38	408	
PPPPRFLC	427	
PPPPSC38	41C	
PPPPUBFO	354	
PPPPURCB	352	
PPPRATAD	408	
PPPRCBSV	178	
PPPRECNM	294	
PPPRESP	19C	
PPPRMSEL	16A	
PPPRSC38	356	
PPPSAVDF	171	
PPPSBMPL	1D4	
PPPSBRST	3D0	80
PPPSCHR1	3B4	
PPPSCHR2	3B8	
PPPSCHR3	3BC	
PPPSCHR4	3C0	
PPPSCOPN	3CF	
PPPSEGID	1E8	
PPPSEPPG	19D	
PPPSESSA	194	
PPPSFCB	3B0	
PPPSFLSC	3CC	
PPPSFLSH	3C4	
PPPSFL38	3D0	
PPPSFORM	3A8	
PPPSMFBF	414	
PPPSMFPQ	418	

Table 425. Cross Reference for $PPPWORK (continued)

Name	Offset	Hex Tag
PPPSMODI	3C8	
PPPSMODT	3CD	
PPPSNFLS	3D0	10
PPPSPCMD	3D0	8
PPPSPCTR	19E	
PPPSREXM	3D0	40
PPPSSCOP	3CE	
PPPSSEP	3D0	20
PPPSSRWK	228	
PPPSWBIT	1B4	
PPPSWBRC	1F6	
PPPSWBRS	1F8	
PPPS6DCI	143	
PPPTIMON	150	
PPPTRBFT	3FC	
PPPTRC38	357	
PPPTUADR	1C4	
PPPTURET	1B8	
PPPTUSPL	1BC	
PPPTUSUM	19A	
PPPTUSZ	1D8	
PPPUCB	148	
PPPUECCW	14C	
PPPWKFCB	340	
PPPWKFRM	2F8	
PPPWKJOE	2F0	
PPPWKPTN	1F0	
PPPWKUCS	344	
PPPWKWFM	300	
PPPWRK18	49C	49C
PPPXPARM	1EC	
PPPXTCCW	14C	
PPP1DRER	140	4
PPP1FNCI	140	8
PPP1JIRE	140	2
PPP1NSKP	140	20
PPP1SUSP	140	40
PPP1TERM	140	10
PPP1WRTS	140	80
PPP2CKPA	141	10
PPP2CKPN	141	20
PPP2FDS	141	2
PPP2OPTJ	141	4
PPP2PCIW	141	8
PPP2READ	141	40
PPP2SMFE	141	1
PPP2TCEL	141	80
PPP3CKRP	142	8
PPP3CKRS	142	2

Table 425. Cross Reference for $PPPWORK (continued)

Name	Offset	Hex Tag
PPP3CKSU	142	4
PPP3CK38	142	10
PPP3INIT	142	1
PPP3NAVL	142	20
PPP3RECV	142	40
PPP3TRNC	142	80
PPP3211I	16B	
PPP4CALL	16C	1
PPP4EX15	16C	20
PPP4FAUT	16C	2
PPP4FPRD	16C	4
PPP4PS38	16C	80
PPP4QSMF	16C	8
PPP4RPBS	16C	10
PPP43081	16C	40
PPP5AUTF	16D	2
PPP5DSOP	16D	80
PPP5IDSK	16D	20
PPP5IJBK	16D	40
PPP5IMTT	16D	8
PPP5IOER	16D	10
PPP5OJOE	16D	4
PPP5T185	16D	1
PPP6ABND	16E	1
PPP6BFER	16E	8
PPP6DSMR	16E	4
PPP6LERR	16E	80
PPP6MRGR	16E	2
PPP6NEWS	16E	40
PPP6NODS	16E	10
PPP6SWBD	16E	20
PPP7RTRI	16F	80
PPP7SMFU	16F	20
PPP7SMRC	16F	40
PPP7TRAN	16F	10
PPP7TRLR	16F	4
PPP71PPF	16F	8

Chapter 171. $PQE Information

$PQE Programming Interface Information

$PQE is a programming interface.

$PQE Heading Information

Common Name:	JES2 3800 Page Queue Entry
Macro ID:	$PQE
DSECT Name:	PQE
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	None
Storage Attributes:	Subpool: 0 Key: 1 Residency: Virtual and real storage are anywhere, above or below 16M, in private storage of the JES2 address space.
Size:	See PQELENG
Created by:	JES2 Print/Punch PCE for a 3800 printer
Pointed to by:	PQENEXT field of the PQE data area PQEPREV field of the PQE data area PQECPQED field of the PQE data area PQEJNEXT field of the PQE data area PQHFIRST field of the PQH data area PQHLAST field of the PQH data area PQHFREE field of the PQH data area PQHOPQE field of the PQH data area PQHTPQE field of the PQH data area PQHPQEJ field of the PQH data area
Serialization:	Serialized under the JES2 TCB
Function:	The PQEs contain 3800 printer page information

$PQE mapping

Table 426. Structure PQE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PQE	3800 PAGE QUEUE ENTRY G38E
0	(0)	SIGNED	4	PQENEXT	ADDRESS OF NEXT PQE G38E
4	(4)	SIGNED	4	PQEPREV	ADDRESS OF PREVIOUS PQE G38E
8	(8)	SIGNED	4	PQEHDR	ADDRESS OF EXTENT HEADER
12	(C)	BITSTRING	1	PQETYPE	TYPE OF PQE G38E
		1...		PQEC	"B'10000000'" CHECKPOINT PQE G38E
		.1..		PQES	"B'01000000'" SMF TYPE 6 PQE G38E
		..1.		PQEJ	"B'00100000'" JOB START PQE G38E
		...1		PQED	"B'00010000'" DATA SET PQE G38E
13	(D)	BITSTRING	1	PQESPEC(0)	START OF SPECIFIC SECTION G38E
		PQE FIELDS -- USED AS A CHECKPOINT ENTRY G38E			

Table 426. Structure PQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
13	(D)	BITSTRING	1	PQECFLAG	CHECKPOINT PQE FLAG G38E
		1...		PQECFPG	"B'10000000'" FIRST PAGE OF DATA SET G38E
		.1..		PQECLPG	"B'01000000'" LAST PAGE OF DATA SET G38E
		..1.		PQECBSP	"B'00100000'" PQE SAVED FOR BACKSPACE G38E
14	(E)	SIGNED	2	PQECPGID	CHANNEL PAGE ID G38E
16	(10)	SIGNED	4	PQECSENS(0)	ADR OF SENSED ID AND FCBLN G38E
16	(10)	SIGNED	2	PQERPGID	REPOSITION PAGE ID G38E
18	(12)	SIGNED	2	PQEFCBLN	FCB LINE POSITION G38E
20	(14)	SIGNED	4	PQECPQED	ADDRESS OF DATA SET PQE G38E
24	(18)	SIGNED	4	PQECPPCT	PDDB LOGICAL PAGE COUNT G38E
28	(1C)	SIGNED	4	PQECTLNC	TOTAL JOE LINE COUNT G38E
32	(20)	SIGNED	4	PQECTPCT	TOTAL JOE PAGE COUNT G38E
36	(24)	BITSTRING	6	PQECMQTR	Track address (MQTR) of spool data.
42	(2A)	BITSTRING	2		Reserved
44	(2C)	SIGNED	4	PQECRECN	# RECORDS PRINTED SO FAR G38E
48	(30)	SIGNED	2	PQECJRCB	DISP INTO EJECT BUFFER G38E
PQE FIELDS -- USED AS AN SMF TYPE 6 PQE G38E					
13	(D)	BITSTRING	1		CHECKPOINT PQE FLAG G38E
14	(E)	SIGNED	2		CHANNEL PAGE ID G38E
16	(10)	SIGNED	2		REPOSITION PAGE ID G38E
18	(12)	SIGNED	2		FCB LINE POSITION G38E
20	(14)	SIGNED	4	PQESBUF	ADDRESS OF SMF BUFFER G38E
PQE FIELDS -- USED AS A JOB START PQE G38E					
13	(D)	BITSTRING	1		CHECKPOINT PQE FLAG G38E
14	(E)	SIGNED	2		CHANNEL PAGE ID G38E
16	(10)	SIGNED	2		REPOSITION PAGE ID G38E
18	(12)	SIGNED	2		FCB LINE POSITION G38E
20	(14)	SIGNED	4	PQEJWJOE	ADDRESS OF WORK JOE G38E
24	(18)	SIGNED	4	PQEJNEXT	ADR OF NEXT PQEJ ON QUEUE G38E
PQE FIELDS -- USED AS A DATA SET PQE G38E					
13	(D)	BITSTRING	1	PQEDCOPY	COPY NUMBER IN PROGRESS G38E
14	(E)	BITSTRING	1	PQEDCPYG	OFFSET INTO COPY GROUP G38E
15	(F)	BITSTRING	1	PQEDTNDS	TOTAL JOE DATA SET COUNT G38E
16	(10)	SIGNED	4	PQEDWJOE	ADDRESS OF WORK JOE G38E
20	(14)	BITSTRING	6	PQEDIOTK	Current IOT track address (MQTR).
26	(1A)	BITSTRING	2		Reserved
28	(1C)	SIGNED	4	PQEDJBNO	Job number
32	(20)	BITSTRING	4	PQEDJKEY	JOB IDENTIFIER KEY G38E
36	(24)	SIGNED	2	PQEDPDDB	DISP OF PDDB INTO IOT G38E
38	(26)	BITSTRING	1	PQEDCGCT	COPY GROUP CT FOR DATA SET G38E
39	(27)	BITSTRING	1	PQEDFLAG	DATA SET PQE FLAG BYTE G38E
		1...		PQEDLAST	"B'10000000'" LAST DATA SET OF JOE G38E
		.1..		PQEDCAN	"B'01000000'" JOE CANCELLED G38E

Table 426. Structure PQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		PQEDINT	"B'00100000'" JOE INTERRUPTED G38E
		...1		PQEDRPT	"B'00010000'" JOE REPEATED G38E
		.... 1...		PQEDRST	"B'00001000'" JOE RESTARTED G38E
		.... .1..		PQEDALOC	"B'00000100'" ALLOCATION IOT G38E
		.... ..1.		PQEDCJP	"B'00000010'" JOE CANCELLED BY $CJP
		1		PQEDADD	"B'00000001'" JOE ADDED FOR $EPRT
40	(28)	BITSTRING	8	PQEDCGRP	DATASET COPY GROUPS
48	(30)	BITSTRING	1	PQEDSCPY	DATASET COPY COUNT
49	(31)	BITSTRING	4	PQEDSKEY	DATASET KEY
53	(35)	BITSTRING	2	PQEDSINS	Dataset multi-dest instance
55	(37)	BITSTRING	2	PQEDSORT	Sort key generation field (low order two bytes of PDBCRTME)
57	(39)	CHARACTER	64	PQEDJCOR	Job Correlator
121	(79)	BITSTRING	1	PQEFLAGF	FREE PQE INDICATOR
		1111 1111		PQEFFREE	"X'FF'" ON FREE QUEUE
124	(7C)	SIGNED	4	PQEEND(0)	END OF PQEC G38E
124	(7C)	X'C'	0	PQEDATA	"PQETYPE,PQEEND-PQETYPE" START OF PQE DATA
124	(7C)	X'7C'	0	PQELENG	"PQEEND-PQE" LENGTH OF PQEC G38E

Table 427. Cross Reference for $PQE

Name	Offset	Hex Tag
PQE	0	
PQEC	C	80
PQECBSP	D	20
PQECFLAG	D	
PQECFPG	D	80
PQECJRCB	30	
PQECLPG	D	40
PQECMQTR	24	
PQECPGID	E	
PQECPPCT	18	
PQECPQED	14	
PQECRECN	2C	
PQECSENS	10	
PQECTLNC	1C	
PQECTPCT	20	
PQED	C	10
PQEDADD	27	1
PQEDALOC	27	4
PQEDATA	7C	C
PQEDCAN	27	40
PQEDCGCT	26	
PQEDCGRP	28	
PQEDCJP	27	2

Table 427. Cross Reference for $PQE (continued)

Name	Offset	Hex Tag
PQEDCOPY	D	
PQEDCPYG	E	
PQEDFLAG	27	
PQEDINT	27	20
PQEDIOTK	14	
PQEDJBNO	1C	
PQEDJCOR	39	
PQEDJKEY	20	
PQEDLAST	27	80
PQEDPDDB	24	
PQEDRPT	27	10
PQEDRST	27	8
PQEDSCPY	30	
PQEDSINS	35	
PQEDSKEY	31	
PQEDSORT	37	
PQEDTNDS	F	
PQEDWJOE	10	
PQEEND	7C	
PQEFCBLN	12	
PQEFFREE	79	FF
PQEFLAGF	79	
PQEHDR	8	
PQEJ	C	20
PQEJNEXT	18	
PQEJWJOE	14	
PQELENG	7C	7C
PQENEXT	0	
PQEPREV	4	
PQERPGID	10	
PQES	C	40
PQESBUF	14	
PQESPEC	D	
PQETYPE	C	

Chapter 172. $PREBERT Information

$PREBERT Heading Information

Common Name:	Prefix for BERT processing
Macro ID:	$PREBERT
DSECT Name:	PREBERT and PBEUSER
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	Varies according to block being mapped Offset: 0 Length: 4
Storage Attributes:	Subpool: 0 Key: 1 or 8 (Depends upon whether the control following this prefix is READONLY or UPDATE Residency: JES2 address space, above or below the line
Size:	See PBESIZE and PBEUSIZE
Created by:	Any service routine which in turn uses the $DOGBERT service routine.
Pointed to by:	$PBELST field of the $HCT data area points to chain of locked PREBERTs in UPDATE mode PBEUSERS field of the PREBERT points to first PBEUSER PBEUPBEU field of the PBEUSER points to next PBEUSER Implicitly pointed to by anyone calling the $DOGBERT service. The PREBERT is always in front of the block of memory specified via $CBADDR keyword
Serialization:	None
Function:	The PREBERT is used by the $DOGBERT service to control and record access to data in the BERT. The PBEUSER is used by $DOGJQE service to control stack of users using a given PREBERT in UPDATE mode.

$PREBERT mapping

Table 428. Structure PREBERT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PREBERT	, Prefix for BERT processing
0	(0)	CHARACTER	4	PBEID	Identity of block following
4	(4)	BITSTRING	4	PBETOKEN	BERT token
8	(8)	BITSTRING	1	PBEUSERS	Owner information (see PBEUSER DSECT for mapping)
		PBEPCE points to the PCE that owns this element. If the high bit is on in the word, that indicates that TERM should never free this if the PCE ABENDs. This is because the PCE may be serving multiple non-main task requestors.			
28	(1C)	ADDRESS	4	PBEPCE	PCE address or zero
28	(1C)	X'1C'	0	PBETCB	"PBEPCE,4,C'A'" TCB addr if not main task
32	(20)		1	PBETTOKN	Owning TTOKEN (if $JQESERV)
48	(30)	SIGNED	4	PBEINDEX	Index into CTENT for block

Table 428. Structure PREBERT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
52	(34)	SIGNED	4	PBEINDX2	2ndary control block index
56	(38)	ADDRESS	4	PBENEXT	Address of next PREBERT on PCE chain
60	(3C)	ADDRESS	4	PBEPREV	Address of previous PREBERT on PCE chain
64	(40)		1	PBEPWAIT	Time PCE last $WAITed when $DOGBERT called for FETCH - or - Time PCE ABENDed while owning the BERT lock
80	(50)	BITSTRING	1	PBEUSEQ	Update sequence field (managed by $DOGBERT)
81	(51)	BITSTRING	1	PBEDGBF1	In line flag $DGBFLAG moved here if $DGB2PBE on
DGBWAIT EQU B'10000000' $WAIT is allowed DGBQSUS EQU B'01000000' Get the queues DGBUPDT EQU B'00100000' Update access needed DGBNAME EQU B'00010000' NAME= was passed DGBTOKN EQU B'00001000' TOKEN= was passed DGBSPEC EQU B'00000100' SPECIAL=YES was specified DGBNUPD EQU B'00000010' No write update requested DGBNRDD EQU B'00000001' No read data requested					
82	(52)	BITSTRING	1	PBEDGBF2	In line flag $DGBFLG2 moved here if $DGB2PBE on
DGB2CRE EQU B'10000000' ACTION=(,CREATE) spec DGB2UNK EQU B'01000000' CB type unknown DGB2PAD EQU B'00100000' ACTION=(CKPT,PAD) DGB2PBE EQU B'00010000' Reserved DGB2NEV EQU B'00001000' MOREBERTS=NEVER					
83	(53)	BITSTRING	1	PBEMVERS	$MSTRVER level when built
84	(54)	BITSTRING	1	PBEFLAG1	Access flags (managed by DOGBERT, INIT, and TERM)
		1...		PBE1UPDT	"B'10000000'" UPDATE mode
		.1..		PBE1READ	"B'01000000'" READ mode
		..1.		PBE1SPEC	"B'00100000'" SPECIAL mode
		...1		PBE1DOGB	"B'00010000'" DOGBERT used to construct block
		.... 1...		PBE1NEWB	"B'00001000'" New BERT was obtained
		.... .1..		PBE1ABND	"B'00000100'" Owned by ABENDing PCE
		1		PBE1PAD	"B'00000001'" Retain maximum BERTs
85	(55)	BITSTRING	1	PBEFLAG2	Flags (managed by services at a higher level than DOGBERT)
		1...		PBE2UPDT	"B'10000000'" Data orig. update mode
		.1..		PBE2PSEU	"B'01000000'" Pseudo-BERT (does not contain real BERT data)
		..1.		PBE2FREB	"B'00100000'" BERT lock freed via (MANAGELOCK,RELEASE)
		...1		PBE2LONG	"B'00010000'" GETWORK area includes JQO
		.... 1...		PBE2EMPT	"B'00001000'" Block following is empty

Table 428. Structure PREBERT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		PBE2FREE	"B'00000100'" Memory for block freed
		1		PBE2DSTK	"B'00000001'" When creating a stack element, turn on PBEU1PCE
DOGDJB managed bits					
		1...		PBE2CACH	"B'10000000'" DJB in read cache
		.1..		PBE2INV	"B'01000000'" Cached DJB invalidated
		..1.		PBE2PXEQ	"B'00100000'" Pretend job in family is executing
		...1		PBE2CACE	"B'00010000'" DJB eligible for caching
86	(56)	BITSTRING	1	PBEBTYPE	BERT type (same as BRTTYPE)
87	(57)	BITSTRING	1	PBEFLAG3	Flags (managed by services at a higher level than DOGBERT)
		1...		PBE3QPSY	"B'10000000'" Perform QPOST when JQA returned no matter what
		.1..		PBE3#PSY	"B'01000000'" Perform $#POST when JQA returned no matter what
		..1.		PBE3#KPJ	"B'00100000'" $#POST to be done with CLEAR_JWEL=NO
		...1		PBE3#JOT	"B'00010000'" $#POST required to manage JOECRTME
		.... 1...		PBE3CTCI	"B'00001000'" 'CAT Cache' element indicator. Denotes if an element in the 'CAT Cache' is a CAT(OFF) or a GRPOBJ(ON). See $CAT 'CAT Cache' info.
		.... .1..		PBE3ALLQ	"B'00000100'" If PBE2PSEU=ON, this indicates if $DOGCAT/ CATREAD is processing 'Pseudo CATs' (NON- execution queues) for ALLQUES=YES.
88	(58)	SIGNED	2	PBEDLEN	Size of the BERT data area
90	(5A)	BITSTRING	1	PBEFLAG4	Concurrent set flags
		1...		PBE4SCSP	"B'10000000'" Skip concurrent set post processing
		.1..		PBE4DCSP	"B'01000000'" Do concurrent set processing in DILBERT
		..1.		PBE4FCSP	"B'00100000'" Force concurrent set processing in DILBERT
91	(5B)	BITSTRING	5		Reserved
91	(5B)	X'60'	0	PBEDATA	"*" Beginning of actual data
91	(5B)	X'60'	0	PBESIZE	"*-PREBERT"

Table 429. Structure PBEUSER

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PBEUSER	, PREBERT user stack element
0	(0)	CHARACTER	4	PBEUID	Eye catcher
4	(4)	ADDRESS	4	PBEUPBEU	Address of prior user block
8	(8)	ADDRESS	4	PBEUPBE	Address of PREBERT

Table 429. Structure PBEUSER (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
12	(C)	ADDRESS	4	PBEULINK	R14 value of $DOGxxx caller
16	(10)	BITSTRING	1	PBEUFLG1	Flags
		1...		PBEU1USE	"B'10000000'" User block in use
		.1..		PBEU1PCE	"B'01000000'" An existing PREBERT for this PCE was used
		..1.		PBEU1RD	"B'00100000'" Caller wanted read mode
17	(11)	SIGNED	1	PBEUEXID	Exit ID in control when built (0 if IBM code)
18	(12)	BITSTRING	2		Reserved for future use
18	(12)	X'14'	0	PBEUSIZE	"*-PBEUSER" Size of User block

Table 430. Cross Reference for $PREBERT

Name	Offset	Hex Tag
PBEBTYPE	56	
PBEDATA	5B	60
PBEDGBF1	51	
PBEDGBF2	52	
PBEDLEN	58	
PBEFLAG1	54	
PBEFLAG2	55	
PBEFLAG3	57	
PBEFLAG4	5A	
PBEID	0	
PBEINDEX	30	
PBEINDX2	34	
PBEMVERS	53	
PBENEXT	38	
PBEPCE	1C	
PBEPREV	3C	
PBEPWAIT	40	
PBESIZE	5B	60
PBETCB	1C	1C
PBETOKEN	4	
PBETTOKN	20	
PBEUEXID	11	
PBEUFLG1	10	
PBEUID	0	D7E4E2D9
PBEULINK	C	
PBEUPBE	8	
PBEUPBEU	4	
PBEUSEQ	50	
PBEUSER	0	
PBEUSERS	8	
PBEUSIZE	12	14
PBEU1PCE	10	40
PBEU1RD	10	20
PBEU1USE	10	80

Table 430. Cross Reference for $PREBERT (continued)

Name	Offset	Hex Tag
PBE1ABND	54	4
PBE1DOGB	54	10
PBE1NEWB	54	8
PBE1PAD	54	1
PBE1READ	54	40
PBE1SPEC	54	20
PBE1UPDT	54	80
PBE2CACE	55	10
PBE2CACH	55	80
PBE2DSTK	55	1
PBE2EMPT	55	8
PBE2FREB	55	20
PBE2FREE	55	4
PBE2INV	55	40
PBE2LONG	55	10
PBE2PSEU	55	40
PBE2PXEQ	55	20
PBE2UPDT	55	80
PBE3#JOT	57	10
PBE3#KPJ	57	20
PBE3#PSY	57	40
PBE3ALLQ	57	4
PBE3CTCI	57	8
PBE3QPSY	57	80
PBE4DCSP	5A	40
PBE4FCSP	5A	20
PBE4SCSP	5A	80
PREBERT	0	

Chapter 173. $PRGWORK Information

$PRGWORK Programming Interface Information

$PRGWORK is a programming interface.

$PRGWORK Heading Information

Common Name:	JES2 Purge PCE Work Area
Macro ID:	$PRGWORK
DSECT Name:	PCE ($PRGWORK is part of the PCE DSECT)
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4
Storage Attributes:	Subpool: See $PCE Key: See $PCE Residency: See $PCE
Size:	See symbol PRGWLEN for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by:	See $PCE
Pointed to by:	The $PURGPCE field of the $HCT data area points into the $PCEORG/$PCELAST chain to the first Purge PCE. Since this chain contains all PCEs, use the PCEID field to determine when you have chained past the last PCE of this type. See $PCE for other pointer fields that apply to all PCE types.
Serialization:	Normal PCE dispatch serialization
Function:	The fields in this work area are used by a JES2 Purge Processor and by its support routines and exits. $PRGWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $PRGWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEPRGID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

$PRGWORK mapping

Table 431. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
320	(140)	ADDRESS	4	PRGWPRM	NODE TABLE ADDRESS
324	(144)	ADDRESS	4		CONTROL BLOCK ADDRESS
328	(148)	ADDRESS	4		ADDRESS OF JQE
332	(14C)	ADDRESS	1		QUEUE TYPE SPECIFIED
333	(14D)	ADDRESS	1		WORK SELECTION TYPE FLAG

Table 431. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
334	(14E)	ADDRESS	1		RESERVED FOR FUTURE USE
334	(14E)	X'140'	0	PRGWLST	"PRGWPRM,*-PRGWPRM" QGET PARAMETER LIST STORAGE
336	(150)	SIGNED	4	PRGBLD(0)	Control block ID
340	(154)	BITSTRING	4		Console ID
344	(158)	ADDRESS	4		Address of the CART
348	(15C)	ADDRESS	4		Pointer for JOBID
352	(160)	ADDRESS	4		Control block address
356	(164)	ADDRESS	4		Display routine address
360	(168)	ADDRESS	4	(6)	6 word work area
384	(180)	ADDRESS	4		Caller's R11 value
388	(184)	BITSTRING	2		ROUT code for Message
390	(186)	BITSTRING	2		Not used
392	(188)	CHARACTER	4		Message ID
396	(18C)	CHARACTER	1		Separator character
397	(18D)	ADDRESS	1		Flag byte 1
398	(18E)	ADDRESS	1		'DISPER'
399	(18F)	ADDRESS	1		Flag byte 2
400	(190)	ADDRESS	1		Flag byte 3
401	(191)	CHARACTER	8		Symbolic name of dest.
409	(199)	BITSTRING	15		Not used
424	(1A8)	ADDRESS	4	(0)	Ensure multiple of 4
424	(1A8)	ADDRESS	2	(0)	
424	(1A8)	BITSTRING	1	PRGFLAG1	Flags
		1...		PRG1DUPL	"B'10000000'" Job held for duplicate jobname at least once
		.1..		PRG1JCTR	"B'01000000'" The JCT for the currently purging job has been read
		..1.		PRG1LSPN	"B'00100000'" Job went thru unspun
		...1		PRG1XWTR	"B'00010000'" At lease one work JOE was removed by external dev.
		.... 1...		PRG1EXJO	"B'00001000'" Exited JOE loop early
425	(1A9)	BITSTRING	1	PRGJQEF	JQEFLAG1 saved here
426	(1AA)	BITSTRING	1	PRGJQEF5	JQEFLAG5 saved here
427	(1AB)	BITSTRING	1		Reserved
428	(1AC)	ADDRESS	4	PRGSNFL	Anchor for MTT list
432	(1B0)	CHARACTER	64	PRGJCOR	Job correlator for SMF
496	(1F0)	DBL WORD	8	(0)	Ensure double word length
496	(1F0)	X'B0'	0	PRGWLEN	"*-PCEWORK" WORK AREA LENGTH

Table 432. Cross Reference for $PRGWORK

Name	Offset	Hex Tag
PCE	0	
PRGBLD	150	C2D3C440
PRGFLAG1	1A8	
PRGJCOR	1B0	
PRGJQEF	1A9	
PRGJQEF5	1AA	

Table 432. Cross Reference for $PRGWORK (continued)

Name	Offset	Hex Tag
PRGSNFL	1AC	
PRGWLEN	1F0	B0
PRGWLST	14E	140
PRGWPRM	140	
PRG1DUPL	1A8	80
PRG1EXJO	1A8	8
PRG1JCTR	1A8	40
PRG1LSPN	1A8	20
PRG1XWTR	1A8	10

Chapter 174. $PSO Information

$PSO Heading Information

Common Name:	HASP Process Sysout Work Area DSECT
Macro ID:	$PSO
DSECT Name:	PSO
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'$PSO' Offset: PSOID-PSO Length: 4
Storage Attributes:	Subpool: n/a Key: 1 Residency: In the jesxPSO data space
Size:	See PSOLNGTH
Created by:	Process Sysout Subsystem Interface code running in the requestor's address space.
Pointed to by:	SJBPSO field of the $SJB data area CCTPSO field of the $HCCT data area PSONEXT field of the $PSO data area MTRBPARM field of the $MTRB data area
Serialization:	Compare and Swap
Function:	The PSO contains an image of the IEFSSSO SSOB extension in order that data set selection for External Writers and the TSO OUTPUT command can be supported in the JES2 address space.

$PSO mapping

Table 433. Structure PSO

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PSO	PSO PARAMETER LIST DSECT
0	(0)	CHARACTER	4	PSOID	Eye catcher
4	(4)	ADDRESS	4	PSONEXT	Addr of next PSO on queue
8	(8)	SIGNED	4	PSOCRDT	ELLIGIBILITY CUT-OFF DATE
12	(C)	BITSTRING	1	PSOPFLAG	FLAG USED BY PSO PROCESSOR
		1...		PSOPFSWT	"B'10000000'" READ BOTH IOT CHAINS
		.1..		PSOPFREQ	"B'01000000'" NEW SELECTION REQUIREMENTS
		.... 1...		PSOPFHLD	"B'00001000'" HOLD AT UNALLOC SPECIFIED
		.... .1..		PSOPFDAU	"B'00000100'" PROCESSING A DAUGHTER CHAIN
		.... ..1.		PSOPFACT	"B'00000010'" Accounting cell addr valid
		1		PSOPFUSR	"B'00000001'" Userid included in PSODEST
13	(D)	BITSTRING	1	PSOPFLG2	Flag used by PSO processor

Table 433. Structure PSO (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		PSOP2E58	"B'10000000'" ENF58 Select issued, ENF58 Deselect not yet issued
14	(E)	BITSTRING	18		Reserved for future use
32	(20)	SIGNED	4	PSORSVD2	RESERVED
36	(24)	BITSTRING	768	PSOPDDB	Work area for PDDB
806	(326)	BITSTRING	1	PSOUFLG	GROUP REQUEST OPTIONS BYTE
807	(327)	CHARACTER	1		RESERVED
808	(328)	BITSTRING	1	PSOFLG1	DATA SET SELECTION CONTROL FLAGS
809	(329)	BITSTRING	1	PSOFLG2	DATA SET DISPOSITION AND CTL FLAGS
810	(32A)	SIGNED	2	PSOCOPY	NUMBER OF DATA SET COPIES
812	(32C)	CHARACTER	8	PSOJOBN	JOB NAME
820	(334)	CHARACTER	8	PSOJOBI	HASP JOB ID (JOBNNNNN)
828	(33C)	CHARACTER	1	PSOCLS	NEW SYSOUT CLASS (GROUP REQ ONLY)
829	(33D)	SIGNED	2	PSOMLRL	Maximum Logical record length
		Prior to OY64290, userid was not allowed to be included in destination (SSSODEST) on a Process SYSOUT request. Therefore, flag SSSOUSER was assumed to indicate a TSO RECEIVE request by HASPPSO processing. With OY64290, userid is now allowed: - If SSSOUSER is ON and PSOPFUSR is OFF, the userid in PSOPGMN is for a TSO RECEIVE call. - If both PSOPFUSR and SSSOUSER are ON, then the userid in PSOPGMN is the userid included in the input destination SSSODEST/PSODEST.				
831	(33F)	BITSTRING	1	PSOFLGA	Flag byte
832	(340)	CHARACTER	8	PSODEST	REMOTE USER ID FOR SELECTION
840	(348)	CHARACTER	8	PSOPGMN	USER WRITER NAME
848	(350)	CHARACTER	8	PSORBA	RBA OF SYSOUT DATA SET
856	(358)	CHARACTER	44	PSODSN	SYSOUT DATA SET NAME
900	(384)	CHARACTER	4	PSOFORM	DATA SET FORM NAME (first 4 bytes if 8 byte form name)
904	(388)	CHARACTER	8	PSOCLAS	CLASS(ES) TO BE PROCESSED
912	(390)	ADDRESS	4	PSOWTRC	ADDR OF XWTR PARAMETER LIST
916	(394)	CHARACTER	8	PSODSID	DATA SET IDENT CHAR STRING
PROCESS SYSOUT EXTENSION (This section is present if flag SSSOPSEE is on in byte PSOFLG2)					
916	(394)	X'39C'	0	PSOPSE	"*" PROCESS SYSOUT EXTENSION
924	(39C)	BITSTRING	1	PSOFLG3	BDT CONTROL BYTE
925	(39D)	BITSTRING	1	PSOFLG4	USER JOB OPTION FLAG

Table 433. Structure PSO (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		The first release of support for security tokens provided the field SSSOSECT as the address of the security token area which was to be provided by the caller. There was no requirement that the caller provide the length or version that was expected to be returned. It was assumed that the caller would provide an area large enough for the version one form of the SAF token. This new support will allow the caller to specify the length and version of the SAF token. The token will be transformed from the current version and length to the version and length requested by the caller via the TOKENMAP service of the SAF interface. In order to allow migration of process sysout users, a two stage 'commit' is provided. The PSO user can ask that the length and version in the area pointed to by SSSOSECT be used for TOKENMAP by setting SSSOTKNR. If the JES servicing the request has had the other half of this update, it will return the data in the requested format and set SSSOTKNG that says it did so. If the process sysout user does not ask for this service, (by not setting SSSOTKNR), the JES will copy the token to the address specified in SSSOSECT assuming that the length of the area is the same as the SAF version one token length			
926	(39E)	BITSTRING	1	PSOFLG5	Flags
927	(39F)	CHARACTER	1	PSORSV6	RESERVED
928	(3A0)	CHARACTER	8		JES3 use only
936	(3A8)	SIGNED	4	PSOLNCT	DATASET LINE COUNT
940	(3AC)	CHARACTER	8	PSOPRCD	DATASET PROC NAME
948	(3B4)	CHARACTER	8	PSOSTPD	DATASET STEP NAME
956	(3BC)	CHARACTER	8	PSODDND	DATASET DD NAME
964	(3C4)	ADDRESS	4	PSOSECT	Address of SAF token
968	(3C8)	CHARACTER	8	PSOFOR8	Form number
976	(3D0)	ADDRESS	4	PSOACCT	Address of acctng string
		The following field has the 26 character JES2 JOE name (Job Output Element name). The string can be used as given in JES2 commands which require OUTGRP= specifications. Flag SSSOGNVA (in SSSOFLG5) is set if the field is valid. The data set returned with a given output group name will not necessarily continue to have the given output group name if this request (or a later request) asks for held data sets (SSSOUFLG on) and data set characteristics are changed (via a non-zero SSSOUFLG).			
980	(3D4)	CHARACTER	26	PSOOGNM	JES2 output group name
1006	(3EE)	CHARACTER	14		Reserved for future use
1020	(3FC)	ADDRESS	4	PSOTCB	TCB ADDRESS OF LAST PSO USER
1024	(400)	BITSTRING	4	PSORETN	SUB-SYSTEM RETURN CODE
1028	(404)	BITSTRING	6	PSOIOTTK	Track address (MQTR) of IOT
1034	(40A)	BITSTRING	2		Reserved
1036	(40C)	BITSTRING	6	PSOIOTCH	MQTR FOR IOT CHAIN
1042	(412)	BITSTRING	2		Reserved

Table 433. Structure PSO (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1044	(414)	ADDRESS	4	PSOSJB	ADDRESS OF SJB
1048	(418)	ADDRESS	4	PSOECBP	Address of ECB for JOT WAIT
1052	(41C)	BITSTRING	4	PSORDRON	TIME ON INPUT PROCESSOR
1056	(420)	BITSTRING	4	PSORDTON	DATE ON INPUT PROCESSOR
1060	(424)	CHARACTER	8	PSOUSEID	JMR installation data field
1068	(42C)	ADDRESS	4	PSOWKOFF	OFFSET OF WORK JOE
1072	(430)	ADDRESS	4	PSOCHOFF	OFFSET OF CHAR JOE
1076	(434)	BITSTRING	1	PSOJOEFL	COPY OF JOEFLAG1
1077	(435)	BITSTRING	1	PSOFLGR	DATA SET SECURITY ATTR FLGS
		1...		PSORSEL	"B'10000000'" SELECT REQUEST (NON-DISP)
1078	(436)	CHARACTER	1	PSOMCLAS	MESSAGE CLASS FOR JOB
1079	(437)	BITSTRING	1		RESERVED FOR FUTURE USE
1080	(438)	BITSTRING	4	PSOJBKEY	JOB IDENTIFIER KEY
1084	(43C)	ADDRESS	4	PSOMTRB	Address of MTRB
1088	(440)	ADDRESS	4	PSOPCE	Address of current or last PCE that processed
1092	(444)	ADDRESS	4	PSOJQEP	HASP JQE OFFSET
1096	(448)	SIGNED	4	PSOJBNUM	HASP job number (binary)
1100	(44C)	SIGNED	4	PSOROUTE	SELECTION ROUTE CODE (BINARY)
1104	(450)	SIGNED	2	PSOHDOFF	IOT offset of selected held PDDB and held support indicator
1106	(452)	SIGNED	2	PSOXDOFF	IOT offset of selected non-held PDDB
1108	(454)	CHARACTER	80	PSOTOKEN	PSO SECURITY TOKEN FOR REQUESTOR
1188	(4A4)	CHARACTER	80	PSODSTOK	DATA SET TOKEN
1268	(4F4)	BITSTRING	148	PSOACCT2	Accounting string
1416	(588)	ADDRESS	4	PSOACTGC	Address of accounting cell
1420	(58C)	BITSTRING	2		Reserved for future use
1422	(58E)	BITSTRING	1	PSOFLG6	Flags (use CS to serialize)
		1...		PSO6FFGX	"B'10000000'" XWTR wait for JOT post
		.1..		PSO6FFGJ	"B'01000000'" PSO wait for JOT post
1422	(58E)	X'C0'	0	PSO6FFGW	"PSO6FFGJ+PSO6FFGX" Waiting for JOT processing
		..1.		PSO6JWEL	"B'00100000'" A JWEL created
		...1		PSO6SJID	"B'00010000'" PSO application is an STC
1423	(58F)	BITSTRING	1	PSOFLG7	Flags (use CS to serialize)
		...1		PSO7ABRT	"B'00010000'" PSO request aborted
		.... 1...		PSO7XPST	"B'00001000'" Application has been POSTed
		.... .1..		PSO7PCE	"B'00000100'" PCE is processisng
1424	(590)	BITSTRING	8	PSOASCBT	Address space token
1432	(598)	SIGNED	2	PSOASID	Address space ID
1434	(59A)	CHARACTER	8	PSOJOBID	Job ID of PSO application
1442	(5A2)	CHARACTER	8	PSOJOBNM	Job name of PSO applicaiton
1450	(5AA)	CHARACTER	8	PSOCHKEY	CHKEY from CSCB
1464	(5B8)	DBL WORD	8	(0)	
1464	(5B8)	X'5B8'	0	PSOLNGTH	"*-PSO" LENGTH OF PSO DSECT

Table 434. Cross Reference for $PSO

Name	Offset	Hex Tag
PSO	0	
PSOACCT	3D0	
PSOACCT2	4F4	
PSOACTGC	588	
PSOASCBT	590	
PSOASID	598	
PSOCHKEY	5AA	
PSOCHOFF	430	
PSOCLAS	388	
PSOCLS	33C	
PSOCOPY	32A	
PSOCRDT	8	
PSODDND	3BC	
PSODEST	340	
PSODSID	394	C3C3C3C3
PSODSN	358	
PSODSTOK	4A4	
PSOECBP	418	
PSOFLGA	33F	
PSOFLGR	435	
PSOFLG1	328	
PSOFLG2	329	
PSOFLG3	39C	
PSOFLG4	39D	
PSOFLG5	39E	
PSOFLG6	58E	
PSOFLG7	58F	
PSOFORM	384	
PSOFOR8	3C8	
PSOHDOFF	450	
PSOID	0	5BD7E2D6
PSOIOTCH	40C	
PSOIOTTK	404	
PSOJBKEY	438	
PSOJBNUM	448	
PSOJOBI	334	
PSOJOBID	59A	
PSOJOBN	32C	
PSOJOBNM	5A2	
PSOJOEFL	434	
PSOJQEP	444	
PSOLNCT	3A8	
PSOLNGTH	5B8	5B8
PSOMCLAS	436	
PSOMLRL	33D	
PSOMTRB	43C	
PSONEXT	4	
PSOOGNM	3D4	
PSOPCE	440	

Table 434. Cross Reference for $PSO (continued)

Name	Offset	Hex Tag
PSOPDDB	24	
PSOPFACT	C	2
PSOPFDAU	C	4
PSOPFHLD	C	8
PSOPFLAG	C	
PSOPFLG2	D	
PSOPFREQ	C	40
PSOPFSWT	C	80
PSOPFUSR	C	1
PSOPGMN	348	
PSOPRCD	3AC	
PSOPSE	394	39C
PSOP2E58	D	80
PSORBA	350	
PSORDRON	41C	
PSORDTON	420	
PSORETN	400	
PSOROUTE	44C	
PSORSEL	435	80
PSORSVD2	20	
PSORSV6	39F	
PSOSECT	3C4	
PSOSJB	414	
PSOSTPD	3B4	
PSOTCB	3FC	
PSOTOKEN	454	
PSOUFLG	326	
PSOUSEID	424	
PSOWKOFF	42C	
PSOWTRC	390	
PSOXDOFF	452	
PSO6FFGJ	58E	40
PSO6FFGW	58E	C0
PSO6FFGX	58E	80
PSO6JWEL	58E	20
PSO6SJID	58E	10
PSO7ABRT	58F	10
PSO7PCE	58F	4
PSO7XPST	58F	8

Chapter 175. $PSOWORK Information

$PSOWORK Heading Information

Common Name:	JES2 Process SYSOUT Work Area
Macro ID:	$PSOWORK
DSECT Name:	PCE ($PSOWORK is part of the PCE DSECT)
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4
Storage Attributes:	Subpool: See $PCE Key: See $PCE Residency: See $PCE
Size:	See symbol PSPWKSIZ for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by:	See $PCE
Pointed to by:	The $PSOPCE field of the $HCT data area points into the $PCEORG/$PCELAST chain to the first Process SYSOUT PCE. Since this chain contains all PCEs, use the PCEID field to determine when you have chained past the last PCE of this type. See $PCE for other pointer fields that apply to all PCE types. PSOPCE of the $PSO data area
Serialization:	Normal PCE dispatch serialization
Function:	The fields in this work area are used by a JES2 Process SYSOUT Processor and by its support routines and exits. $PSOWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $PSOWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEPSOID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

$PSOWORK mapping

Table 435. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
320	(140)	ADDRESS	4	PSPCKPTB	OUTPUT CKPT I/O BUFFER ADDRESS
324	(144)	ADDRESS	4	PSPCHARJ	Addr of current Char JOE (only valid if SSSOSPGM is on and SSSOSCLS off in PSOFLG1)
328	(148)	BITSTRING	1	PSPMCLAS	SYSOUT MESSAGE CLASS (FROM JCT)
329	(149)	BITSTRING	1		Reserved for future use
330	(14A)	SIGNED	2	PSPWORKA	PSO PROCESSING WORK AREA
332	(14C)	SIGNED	4	PSPRSVD2	RESERVED
336	(150)	BITSTRING	3	PSPHDSCT	HELD DATA SET COUNT

Table 435. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
339	(153)	BITSTRING	1		RESERVED
340	(154)	CHARACTER	18	PSPDEST	PSO DESTINATION WORK AREA
358	(166)	BITSTRING	12	PSPXWTRE	SAVE XWTR ECB
370	(172)	BITSTRING	1	PSPFLAG1	FLAGS
		1...		PSP1RLSE	"B'10000000'" BUFFER WAS PAGE RELEASED, HENCE NEEDS IOB BUILD
		.1..		PSP1RACR	"B'01000000'" RACROUTE HAS BEEN DONE
		..1.		PSP1FSAM	"B'00100000'" PDDB is repeated
		...1		PSP1JRUL	"B'00010000'" SET OFF USE JOE BUILD RULE 1 SET ON USE JOE BUILD RULE 2
		.... 1...		PSP1IOTR	"B'00001000'" IOT is in memory (flag bit is only valid for xwtr)
371	(173)	BITSTRING	1	PSPFLAG2	FLAGS FOR PSO QUEUE PROC
		1...		PSP2LQUE	"B'10000000'" PROCESS LOCAL QUEUE
		.1..		PSP2UQUE	"B'01000000'" PROCESS USERID QUEUE
		..1.		PSP2RQUE	"B'00100000'" PROCESS REMOTE QUEUE
		...1		PSP2UQP	"B'00010000'" USERID Q HAS BEEN PROCESSED
		.... 1...		PSP2RQP	"B'00001000'" REMOTE Q HAS BEEN PROCESSED
		.... .1..		PSP2CQP	"B'00000100'" CHAR Q IS BEING PROCESSED
372	(174)	ADDRESS	4	PSPBUFAD	Buffer address $EXCP
376	(178)	BITSTRING	192	PSPRGRPM	TREGROUP Parm list
568	(238)	ADDRESS	4	PSPCLASS	Current class list address
572	(23C)	ADDRESS	4	PSPCALET	and its ALET
576	(240)	BITSTRING	4	PSPJBKEY	Job key
		PSPPSO is populated just prior to $SEAS requests. Do not use this copy of the PSO in other circumstances.			
584	(248)	DBL WORD	8	(0)	Ensure double word aligned
584	(248)	BITSTRING	1464	PSPPSO	Copy of PSO (See above)
2048	(800)	SIGNED	4	PSPROUTE	Selection route code (bin)
2052	(804)	BITSTRING	1	PSPTOKEN	Data set token field
		The following fields are needed for HASP186 message.			
2132	(854)	CHARACTER	8	PSPJOBID	Job id of PSO application
2140	(85C)	CHARACTER	8	PSPJOBNM	Job name of PSO application
2148	(864)	ADDRESS	4	PSPCHKEY	CHKEY from CSCB
End of HASP186 fields					
2152	(868)	BITSTRING	8	PSPASCBT	Application ASCB token
2160	(870)	CHARACTER	18	PSPRTXT	Reason text area for ENF58
--BLDM $BLDMSG MF=L List form of $BLDMSG					
2180	(884)	SIGNED	4	PSPBLDM(0)	Control block ID
2184	(888)	BITSTRING	4		Console ID

Table 435. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2188	(88C)	ADDRESS	4		Address of the CART
2192	(890)	ADDRESS	4		Pointer for JOBID
2196	(894)	ADDRESS	4		Control block address
2200	(898)	ADDRESS	4		Display routine address
2204	(89C)	ADDRESS	4	(6)	6 word work area
2228	(8B4)	ADDRESS	4		Caller's R11 value
2232	(8B8)	BITSTRING	2		ROUT code for Message
2234	(8BA)	BITSTRING	2		Not used
2236	(8BC)	CHARACTER	4		Message ID
2240	(8C0)	CHARACTER	1		Separator character
2241	(8C1)	ADDRESS	1		Flag byte 1
2242	(8C2)	ADDRESS	1		'DISPER'
2243	(8C3)	ADDRESS	1		Flag byte 2
2244	(8C4)	ADDRESS	1		Flag byte 3
2245	(8C5)	CHARACTER	8		Symbolic name of dest.
2253	(8CD)	BITSTRING	15		Not used
2268	(8DC)	ADDRESS	4	(0)	Ensure multiple of 4
2268	(8DC)	ADDRESS	2	(0)	
2272	(8E0)	DBL WORD	8	(0)	Ensure double word aligned
2272	(8E0)	X'7A0'	0	PSPWKSIZ	"*-PCEWORK" LENGTH OF PSO PCE WORK AREA

Table 436. Cross Reference for $PSOWORK

Name	Offset	Hex Tag
PCE	0	
PSPASCBT	868	
PSPBLDM	884	C2D3C440
PSPBUFAD	174	
PSPCALET	23C	
PSPCHARJ	144	
PSPCHKEY	864	
PSPCKPTB	140	
PSPCLASS	238	
PSPDEST	154	
PSPFLAG1	172	
PSPFLAG2	173	
PSPHDSCT	150	
PSPJBKEY	240	
PSPJOBID	854	
PSPJOBNM	85C	
PSPMCLAS	148	
PSPPSO	248	
PSPRGRPM	178	
PSPROUTE	800	
PSPRSVD2	14C	
PSPRTXT	870	
PSPTOKEN	804	
PSPWKSIZ	8E0	7A0
PSPWORKA	14A	

Table 436. Cross Reference for $PSOWORK (continued)

Name	Offset	Hex Tag
PSPXWTRE	166	
PSP1FSAM	172	20
PSP1IOTR	172	8
PSP1JRUL	172	10
PSP1RACR	172	40
PSP1RLSE	172	80
PSP2CQP	173	4
PSP2LQUE	173	80
PSP2RQP	173	8
PSP2RQUE	173	20
PSP2UQP	173	10
PSP2UQUE	173	40

Chapter 176. $PSV Information

$PSV Programming Interface Information

$PSV is a programming interface.

$PSV Heading Information

Common Name:	JES2 save area DSECT
Macro ID:	$PSV
DSECT Name:	PSV and PSVAREGS
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	SAVE, CSAV, and ARSA Offset: PSVID-PSV and PSVARID-PSVAREGS Length: L'PSVID and L'PSVARID
Storage Attributes:	Subpool: 0 or 230 Key: 1 Residency: Virtual and real storage are anywhere (above or below 16M), in the private storage of the JES2 or user address space.
Size:	See PSVLENG and PSVARLEN
Created by:	$SAVE service
Pointed to by:	$SAVAREA field of the $HCT data area $SAVALST field of the $HCT data area PCELPSV field of the $PCE data area PREPSVAD field of the $PRE data area PSVNEXT field of the $PSV data area PSVPREV field of the $PSV data area PSVARPTR field of the $PSV data area PSVARCHN field of the $PSV data area TRERSAVE field of the $TRE data area
Serialization:	None required
Function:	This macro generates an MVS style save area DSECT mapping with JES2 extensions added on the end. The DSECT generated is dependent on the caller's environment.

$PSV mapping

Table 437. Structure PSV

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PSV	
0	(0)	CHARACTER	4	PSVID	SAVE AREA IDENTIFIER
4	(4)	ADDRESS	4	PSVPREV	PREVIOUS SAVE AREA ADDRESS
8	(8)	ADDRESS	4	PSVNEXT	NEXT SAVE AREA ADDRESS
12	(C)	SIGNED	4	PSVR14	REGISTER 14 STORAGE
16	(10)	SIGNED	4	PSVR15	REGISTER 15 STORAGE
20	(14)	SIGNED	4	PSVR0	REGISTER 0 STORAGE
24	(18)	SIGNED	4	PSVR1	REGISTER 1 STORAGE
28	(1C)	SIGNED	4	PSVR2	REGISTER 2 STORAGE

Table 437. Structure PSV (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
32	(20)	SIGNED	4	PSVR3	REGISTER 3 STORAGE
36	(24)	SIGNED	4	PSVR4	REGISTER 4 STORAGE
40	(28)	SIGNED	4	PSVR5	REGISTER 5 STORAGE
44	(2C)	SIGNED	4	PSVR6	REGISTER 6 STORAGE
48	(30)	SIGNED	4	PSVR7	REGISTER 7 STORAGE
52	(34)	SIGNED	4	PSVR8	REGISTER 8 STORAGE
56	(38)	SIGNED	4	PSVR9	REGISTER 9 STORAGE
60	(3C)	SIGNED	4	PSVR10	REGISTER 10 STORAGE
64	(40)	SIGNED	4	PSVR11	REGISTER 11 STORAGE
68	(44)	SIGNED	4	PSVR12	REGISTER 12 STORAGE
72	(48)	ADDRESS	4	PSVADDR	ENVIRONMENT DEPENDENT ADDRS (CSAV area in USER env.)
72	(48)	X'48'	0	PSVPCE	"PSVADDR,4,C'A'" PCE addr (main task only)
76	(4C)	ADDRESS	4	PSVLABAD	ADDRESS OF $SAVE IDENTIFIER
		The offset of the following fields are referenced in PLAS code. The offset is frozen			
80	(50)	ADDRESS	2	(0)	
80	(50)	ADDRESS	2	(0)	
80	(50)	SIGNED	4	PSVHR13	High half register 13
84	(54)	SIGNED	4	PSVHR14	High half Register 14
88	(58)	SIGNED	4	PSVHR15	High half Register 15
92	(5C)	SIGNED	4	PSVHR0	High half Register 0
96	(60)	SIGNED	4	PSVHR1	High half Register 1
100	(64)	SIGNED	4	PSVHR2	High half Register 2
104	(68)	SIGNED	4	PSVHR3	High half Register 3
108	(6C)	SIGNED	4	PSVHR4	High half Register 4
112	(70)	SIGNED	4	PSVHR5	High half Register 5
116	(74)	SIGNED	4	PSVHR6	High half Register 6
120	(78)	SIGNED	4	PSVHR7	High half Register 7
124	(7C)	SIGNED	4	PSVHR8	High half Register 8
128	(80)	SIGNED	4	PSVHR9	High half Register 9
132	(84)	SIGNED	4	PSVHR10	High half Register 10
136	(88)	SIGNED	4	PSVHR11	High half Register 11
140	(8C)	SIGNED	4	PSVHR12	High half Register 12
144	(90)	ADDRESS	4	PSVLSPTR	LINKAGE STACK POINTER (AT TIME OF $SAVE)
148	(94)	ADDRESS	4	PSVARPTR	Pointer to AR save area (or zero if none)
152	(98)	BITSTRING	1	PSVMODE	AR mode and key of caller Bits 0-3 - ASC mode 4-7 - PSW key
153	(99)	SIGNED	1	PSVEXID	Exit number when $SAVE done
154	(9A)	BITSTRING	1	PSVAMODE	AMODE of caller/flags
		1...		PSVAM31	"B'10000000'" AMODE 31
		.1..		PSVANO$W	"B'01000000'" $WAITs prohibited when $SAVE was done
		1		PSVAM64	"B'00000001'" AMODE 64
155	(9B)	BITSTRING	1		Reserved
156	(9C)	ADDRESS	4	PSVADDR2	Environ dependent addr 2 (TRX in USER environment)
160	(A0)	DBL WORD	8	PSVSTCK	Time PSV was created
160	(A0)	X'A8'	0	PSVLENG	"*-PSV" LENGTH OF SAVE AREA

Table 438. Structure PSVAREGS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PSVAREGS	, Start of access registers
0	(0)	CHARACTER	4	PSVARID	Eyecatcher
4	(4)	ADDRESS	4	PSVARCHN	Pointer to real save area
8	(8)	SIGNED	4	PSVAR0	Access register 0 storage
12	(C)	SIGNED	4	PSVAR1	Access register 1 storage
16	(10)	SIGNED	4	PSVAR2	Access register 2 storage
20	(14)	SIGNED	4	PSVAR3	Access register 3 storage
24	(18)	SIGNED	4	PSVAR4	Access register 4 storage
28	(1C)	SIGNED	4	PSVAR5	Access register 5 storage
32	(20)	SIGNED	4	PSVAR6	Access register 6 storage
36	(24)	SIGNED	4	PSVAR7	Access register 7 storage
40	(28)	SIGNED	4	PSVAR8	Access register 8 storage
44	(2C)	SIGNED	4	PSVAR9	Access register 9 storage
48	(30)	SIGNED	4	PSVAR10	Access register 10 storage
52	(34)	SIGNED	4	PSVAR11	Access register 11 storage
56	(38)	SIGNED	4	PSVAR12	Access register 12 storage
60	(3C)	SIGNED	4	PSVAR13	Access register 13 storage
64	(40)	SIGNED	4	PSVAR14	Access register 14 storage
68	(44)	SIGNED	4	PSVAR15	Access register 15 storage
72	(48)	BITSTRING	1	PSVARFLG	Access register flags
		1...		PSVARF15	"B'10000000'" Restore access register 15
		.1..		PSVARF0	"B'01000000'" Restore access register 0
		..1.		PSVARF1	"B'00100000'" Restore access register 1
73	(49)	BITSTRING	7		Reserved
73	(49)	X'50'	0	PSVARLEN	"*-PSVAREGS" Length of access registers

Table 439. Structure PSV64

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PSV64	, Start of 64 bit save area
0	(0)	CHARACTER	4	P64EYE	Eyecatcher
4	(4)	CHARACTER	4	P64ID	Save area type
8	(8)	DBL WORD	8	P64R14	64 bit register 14 area
16	(10)	DBL WORD	8	P64R15	64 bit register 15 area
24	(18)	DBL WORD	8	P64R0	64 bit register 0 area
32	(20)	DBL WORD	8	P64R1	64 bit register 1 area
40	(28)	DBL WORD	8	P64R2	64 bit register 2 area
48	(30)	DBL WORD	8	P64R3	64 bit register 3 area
56	(38)	DBL WORD	8	P64R4	64 bit register 4 area
64	(40)	DBL WORD	8	P64R5	64 bit register 5 area
72	(48)	DBL WORD	8	P64R6	64 bit register 6 area
80	(50)	DBL WORD	8	P64R7	64 bit register 7 area
88	(58)	DBL WORD	8	P64R8	64 bit register 8 area
96	(60)	DBL WORD	8	P64R9	64 bit register 9 area
104	(68)	DBL WORD	8	P64R10	64 bit register 10 area
112	(70)	DBL WORD	8	P64R11	64 bit register 11 area

Table 439. Structure PSV64 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
120	(78)	DBL WORD	8	P64R12	64 bit register 12 area
128	(80)	ADDRESS	8	P64PREV	Addr of previous save area
136	(88)	ADDRESS	8	P64NEXT	Addr of next save area
136	(88)	X'90'	0	P64LEN	"*-PSV64" Length of save area

Table 440. Cross Reference for $PSV

Name	Offset	Hex Tag
PSV	0	
PSVADDR	48	
PSVADDR2	9C	
PSVAMODE	9A	
PSVAM31	9A	80
PSVAM64	9A	1
PSVANO$W	9A	40
PSVARCHN	4	
PSVAREGS	0	
PSVARFLG	48	
PSVARF0	48	40
PSVARF1	48	20
PSVARF15	48	80
PSVARID	0	
PSVARLEN	49	50
PSVARPTR	94	
PSVAR0	8	
PSVAR1	C	
PSVAR10	30	
PSVAR11	34	
PSVAR12	38	
PSVAR13	3C	
PSVAR14	40	
PSVAR15	44	
PSVAR2	10	
PSVAR3	14	
PSVAR4	18	
PSVAR5	1C	
PSVAR6	20	
PSVAR7	24	
PSVAR8	28	
PSVAR9	2C	
PSVEXID	99	
PSVHR0	5C	
PSVHR1	60	
PSVHR10	84	
PSVHR11	88	
PSVHR12	8C	
PSVHR13	50	
PSVHR14	54	
PSVHR15	58	

Table 440. Cross Reference for $PSV (continued)

Name	Offset	Hex Tag
PSVHR2	64	
PSVHR3	68	
PSVHR4	6C	
PSVHR5	70	
PSVHR6	74	
PSVHR7	78	
PSVHR8	7C	
PSVHR9	80	
PSVID	0	C3E2C1E5
PSVLABAD	4C	
PSVLENG	A0	A8
PSVLSPTR	90	
PSVMODE	98	
PSVNEXT	8	
PSVPCE	48	48
PSVPREV	4	
PSVR0	14	
PSVR1	18	
PSVR10	3C	
PSVR11	40	
PSVR12	44	
PSVR14	C	
PSVR15	10	
PSVR2	1C	
PSVR3	20	
PSVR4	24	
PSVR5	28	
PSVR6	2C	
PSVR7	30	
PSVR8	34	
PSVR9	38	
PSVSTCK	A0	
PSV64	0	
P64EYE	0	
P64ID	4	
P64LEN	88	90
P64NEXT	88	
P64PREV	80	
P64R0	18	
P64R1	20	
P64R10	68	
P64R11	70	
P64R12	78	
P64R14	8	
P64R15	10	
P64R2	28	
P64R3	30	
P64R4	38	
P64R5	40	

Table 440. Cross Reference for $PSV (continued)

Name	Offset	Hex Tag
P64R6	48	
P64R7	50	
P64R8	58	
P64R9	60	

Chapter 177. $QSE Information

$QSE Programming Interface Information

$QSE is a programming interface.

$QSE Heading Information

Common Name: Multi-access SPOOL shared communications queue control element
Macro ID: $QSE
DSECT Name: QSE
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: None
Storage Attributes:
```
Subpool:   0 or 231
Key:       1
Residency: Virtual and Real storage are anywhere
```

Size: See QSELEN
Created by: HASPIRDA
Pointed to by:
$QSE1 field of the $HCT data area
$AQSE field of the $HCT data area
Serialization: Fields are updated only when the JES2 checkpoint is owned by the member updating.
Function: One QSE exists for each member of a multi-access spool. The QSE describes this potential member of the complex.
The QSEs are checkpointed control blocks. This means there are two or more copies of each QSE in storage at any one time. The actual and I/O copies are always there and reside in subpool 0. If the system is running with an application copy of the checkpoint a third copy will be in subpool 0 if the application copy is in private, and in subpool 231 if the application copy is in common. If the system is running with checkpoint versioning, then zero or more copies will be in a data space.
Note: the QSEs are contiguous in storage and must stay that way since the way to get to the QSE for a system is to use the system busy byte to index into the QSE table which begins at the address held in $QSE1.

$QSE mapping

Table 441. Structure QSE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	QSE	
0	(0)	DBL WORD	8	QSESITIM	TOD of last CKPT access for this member
8	(8)	CHARACTER	4	QSESID	Member name-default SMF ID
12	(C)	BITSTRING	1	QSERSTID	Id of member doing $ESYS

Table 441. Structure QSE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
13	(D)	BITSTRING	1		Reserved for future IBM use
14	(E)	BITSTRING	1	QSESIBSY	Member id for busy indicators and equal to the member number
15	(F)	BITSTRING	3	QSEAFFIN	This members affinity token
18	(12)	BITSTRING	6		Reserved for future use
Beginning of fields zeroed at all member warm start					
24	(18)	BITSTRING	8	QSEPLXID	Sysplex id
32	(20)	BITSTRING	8	QSEMEMTK	XCF member token
40	(28)	DBL WORD	8	QSEECF(0)	CROSS-SYSTEM RESOURCE $POST ECF
48	(30)	CHARACTER	8	QSEPLXNM	MVS sysplex name
End of fields zeroed at all member warm start					
48	(30)	X'18'	0	QSEWARM1	"QSEPLXID,*-QSEPLXID" Zeroed at all-mbr wrmstart
56	(38)	CHARACTER	8	QSEMVSNM	MVS system name
Beginning of fields zeroed at all member warm start					
64	(40)	CHARACTER	8	QSEJ2VRN	The JES2 version that last warmstarted this member
72	(48)	BITSTRING	4	QSESYTOK	System token of the MVS system
76	(4C)	BITSTRING	1	QSEPOSTS	CROSS-SYSTEM $POST FLAG BYTES
		1...		QSEPXEQ	"B'10000000'" Cross-system $POST execution
		.1..		QSEPJOT	"B'01000000'" Cross-member $#POST for JOE/JQE
EQU B'00100000' Reserved (was QSEPSOST)					
77	(4D)	BITSTRING	1	QSEJCMD	JCMD processor post
		1...		QSEJWRK	"B'10000000'" Batch work for JCMD
End of fields zeroed at all member warm start					
77	(4D)	X'40'	0	QSEWARM2	"QSEJ2VRN,*-QSEJ2VRN" Zeroed at all-mbr wrmstart
78	(4E)	BITSTRING	1	QSESTAT	SYSTEM STATUS BYTE

Table 441. Structure QSE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Valid states for QSEQUICK and QSE$EMEM: QSEQUICK QSE$EMEM Explanation off off no $EMEMBER nor AMWS ever done This is normal state for a running member or a crashed member for which no warmstart has been attempted. off on $EMEMBER or AMWS has completed, but at least one JQE was not processed because of inability to get BERT lock. The ALICE PCE will set QSEQUICK on when all JQEs have been processed. This setting can also occur if SMWS is done after an AMWS by a member with OW35410 installed. on off An AMWS or $EMEMBER has been done before OW35410 was installed. This will disappear after the first ALICE processor successfully scans the jobqueue and should never appear in the MAS again unless an AMWS or $EMEMBER is performed by a member without OW35410 installed. on on Member has been successfully warmstarted by an AMWS or via $EMEMBER with no BERT problems. Note: AMWS = All Member Warm Start SMWS = Single Member Warm Start			
	1...			QSEACTIV	"B'10000000'" Member is active
	.1..			QSEQUICK	"B'01000000'" Member is warm started
	..1.			QSELAST	"B'00100000'" Last QSE
	...1			QSE$PCMD	"B'00010000'" $P command in effect
	.... 1...			QSE$PXEQ	"B'00001000'" $P XEQ command in effect
	.... .1..			QSEBOSS	"B'00000100'" This member is boss
	.... ..1.			QSE$EMEM	"B'00000010'" $E MEMBER finished
	1			QSECKPT2	"B'00000001'" QSECPKLV is for CKPT2
79	(4F)	BITSTRING	1	QSESTAT2	ADDITIONAL SYSTEM STATUS BYTE
	1...			QSE2EDEL	"B'10000000'" Member deleted, ESYS'D required
	.1..			QSE2$IND	"B'01000000'" Member in ind mode
	..1.			QSE2LRGB	"B'00100000'" Member has large (z22) size TGR entries
	...1			QSE2NMAL	"B'00010000'" This member has two ckpt datasets allocated
	.... 1...			QSE2EGON	"B'00001000'" XCF system gone, ESYS,SID required
	EQU B'00000100' Reserved (was QSE2NPST)				

Table 441. Structure QSE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ..1.		QSE2PRIM	"B'00000010'" Member is a primary subsystem
		1		QSE2SPLX	"B'00000001'" Command Prefix has SYSplex scope.
Beginning of fields zeroed at all member warm start					
80	(50)	BITSTRING	4	QSEMAXMS	Members that ceased sending msgs because of $MAXMSGQ
84	(54)	BITSTRING	1	QSESCMSK	SHRD COMM QUE SPLS USED MSK
The following fields are used by SDSF on their MEMBER display. QSEHOLD, QSEMIND, and QSEMAXD are in hundredths of a second. QSESYNC is in seconds. QSEAHOLD and QSEADORM are bits 16-47 of a STCK value. Bit 47 of a STCK is incremented every 0.000016 seconds.					
116	(74)	SIGNED	4	QSEHOLD	MASDEF HOLD=
120	(78)	SIGNED	4	QSEMIND	MASDEF DORMANCY=(xxxx)
124	(7C)	SIGNED	4	QSEMAXD	MASDEF DORMANCY=(,xxxx)
128	(80)	SIGNED	4	QSESYNC	MASDEF SYNCTOL=
132	(84)	SIGNED	4	QSEAHOLD	Actual HOLD value
136	(88)	SIGNED	4	QSEADORM	Actual dormancy value
End of section for SDSF MEMBER display					
140	(8C)	CHARACTER	1	QSECCHAR	CONDEF CONCHAR=
141	(8D)	BITSTRING	1	QSESTYPE	Last start type - see flag definitions in $WARMTYP
142	(8E)	SIGNED	2		Possible number of lost TGs (not used in SP 5.2)
144	(90)	SIGNED	4	QSESTIME	STCK time of last start
148	(94)	BITSTRING	3		Reserved (was QSESNIFF)
151	(97)	SIGNED	1	QSEJ2VR2	JES2 version last active on this member
152	(98)	SIGNED	1	QSEHIVER	Highest compatible JES2 version
153	(99)	BITSTRING	3	QSEFEAT	Reserved for future use as feature flags
EQU B'10000000' Reserved (was QSEFXMT)					
		.1..		QSEFLVLS	"B'01000000'" Service level fields set (QSEJ2PLV/QSEJ2SLV)
		..1.		QSEFXNNM	"B'00100000'" QSEXLNNM field set
		...1		QSEFDASA	"B'00010000'" OA18783 applied
		.... 1...		QSEFXGNM	"B'00001000'" Use XCFGRPNM for SYSJ2$XD
End of fields zeroed at all member warm start					
153	(99)	X'50'	0	QSEWARM3	"QSEMAXMS,*-QSEMAXMS" Zeroed at all-mbr warmstart
156	(9C)	SIGNED	4	QSESYSLG	Current SYSLOG job index
160	(A0)	SIGNED	1	QSEJ2PLV	Product level of JES2 last active on this member (&J2PLVL)
161	(A1)	SIGNED	1	QSEJ2SLV	Service level of JES2 last active on this member (&J2SLVL)
162	(A2)	SIGNED	2		Reserved for future use
Beginning of fields zeroed at all member warm start					

Table 441. Structure QSE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
164	(A4)	CHARACTER	4	QSESSNAM	Subsys name (JES2/JESA...)
168	(A8)	SIGNED	4	QSECKPLV	Last CKPT level number
End of fields zeroed at all member warm start					
168	(A8)	X'A4'	0	QSEWARM4	"QSESSNAM,*-QSESSNAM" Zeroed at all-mbr wrmstart
QSEGMTOF allows to compare local times from different members.					
172	(AC)	SIGNED	4	QSEGMTOF	GMT offset of this member
Beginning of fields zeroed at all member warm start					
176	(B0)	CHARACTER	4	QSEMVSID	SMF id of MVS system
180	(B4)	CHARACTER	8	QSEXLNNM	Local node name at time of XCF join
188	(BC)	BITSTRING	5	QSESNFMT	MQT this memb is sniffing - 1 byte M and 4 byte TTTT
End of fields zeroed at all member warm start					
188	(BC)	X'B0'	0	QSEWARM5	"QSEMVSID,*-QSEMVSID" Zeroed at all-mbr warmstart
193	(C1)	BITSTRING	3		Reserved
196	(C4)	SIGNED	4		Reserved (as of HJE7705)
196	(C4)	X'C8'	0	QSELEN	"*-QSE" LENGTH OF QSE
200	(C8)	ADDRESS	4	QSEEND(0)	End of QSE

Table 442. Cross Reference for $QSE

Name	Offset	Hex Tag
QSE	0	
QSE$EMEM	4E	2
QSE$PCMD	4E	10
QSE$PXEQ	4E	8
QSEACTIV	4E	80
QSEADORM	88	
QSEAFFIN	F	
QSEAHOLD	84	
QSEBOSS	4E	4
QSECCHAR	8C	
QSECKPLV	A8	
QSECKPT2	4E	1
QSEECF	28	
QSEEND	C8	
QSEFDASA	99	10
QSEFEAT	99	
QSEFLVLS	99	40
QSEFXGNM	99	8
QSEFXNNM	99	20
QSEGMTOF	AC	
QSEHIVER	98	
QSEHOLD	74	

Table 442. Cross Reference for $QSE (continued)

Name	Offset	Hex Tag
QSEJCMD	4D	
QSEJWRK	4D	80
QSEJ2PLV	A0	
QSEJ2SLV	A1	
QSEJ2VRN	40	
QSEJ2VR2	97	
QSELAST	4E	20
QSELEN	C4	C8
QSEMAXD	7C	
QSEMAXMS	50	
QSEMEMTK	20	
QSEMIND	78	
QSEMVSID	B0	
QSEMVSNM	38	
QSEPJOT	4C	40
QSEPLXID	18	
QSEPLXNM	30	
QSEPOSTS	4C	
QSEPXEQ	4C	80
QSEQUICK	4E	40
QSERSTID	C	
QSESCMSK	54	
QSESIBSY	E	
QSESID	8	
QSESITIM	0	
QSESNFMT	BC	
QSESSNAM	A4	
QSESTAT	4E	
QSESTAT2	4F	
QSESTIME	90	
QSESTYPE	8D	
QSESYNC	80	
QSESYSLG	9C	
QSESYTOK	48	
QSEWARM1	30	18
QSEWARM2	4D	40
QSEWARM3	99	50
QSEWARM4	A8	A4
QSEWARM5	BC	B0
QSEXLNNM	B4	
QSE2$IND	4F	40
QSE2EDEL	4F	80
QSE2EGON	4F	8
QSE2LRGB	4F	20
QSE2NMAL	4F	10
QSE2PRIM	4F	2
QSE2SPLX	4F	1

Chapter 178. $RAT Information

$RAT Programming Interface Information

$RAT is a programming interface.

$RAT Heading Information

Common Name:	Remote Attribute Table
Macro ID:	$RAT
DSECT Name:	RAT
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	The permanent RATs are in contiguous storage with an eyecatcher 'RAT ' and storage length before the RAT table. Offset: -8 from value of $RATABLE Length: 4
Storage Attributes:	Subpool: 23 (temporary RAT during initialization), 0 (permanent RAT after initialization) Key: 1 Residency: Virtual and real storage are anywhere in the private storage of the JES2 address space.
Size:	RATTLE * $MAXRJE (temporary RAT during initialization) RATTLE * $RMTNUM (permanent RAT after initialization)
Created by:	HASPIRMA (temporary RAT during initialization) HASPIRRE (permanent RAT after initialization)
Pointed to by:	$RATABLE field of the $HCT data area MDCTRAT field of the $DCT data area
Serialization:	Logon of a remote is not permitted on an MAS member if the remote is logged on another member (which is indicated in the $RMTSON vector).
Function:	The RAT describes the attributes of a JES2 remote. Remotes are devices (remote workstations) or pseudo devices (e.g. programs emulating RJE protocols connected to JES2 via an SNA line). The protocol defines a single transmission mechanism (the line), with single transmitter/receivers at either end (e.g. the JES2 Line Manager PCE, and an RJE workstation CPU or RJE emulation program). Multiple streams of data records can be interleaved in the traffic to/from the MLLM and the workstation, which are broken out at each end as data to/for workstation peripherals (PRTs, RDRs, PUNs, CON) and the matching JES2 logical processors. The RAT is a set of contiguous entries, one for each remote (the first is for remote 1, not 0). The size of each entry is RATTLE, and you can index into the RAT to find the desired entry using a remote number. The number of entries is $RMTNUM, which is the largest allowed remote number (may be different on each MAS member). This is the RAT definition after initialization - during parmlib processing there is a temporary RAT with $MAXRJE entries.

$RAT mapping

Table 443. Structure RAT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	RAT	REMOTE ATTRIBUTE TABLE DSECT
0	(0)	CHARACTER	8	RATNAME	REMOTE NAME
8	(8)	ADDRESS	4	RATRDCT	ADDRESS OF FIRST REMOTE DCT
12	(C)	ADDRESS	4	RATLDCT	ADDRESS OF LINE DCT
16	(10)	ADDRESS	4	RATTOKA	Address of SAF token
20	(14)	SIGNED	4	RATROUTE(0)	REMOTES ROUTE CODE
20	(14)	SIGNED	2	RATNODE	NODE NUMBER
22	(16)	SIGNED	2	RATRTE	REMOTE ROUTE
24	(18)	BITSTRING	1	RATTYPE	TERMINAL TYPE (SEE MDCTTYPE)
25	(19)	BITSTRING	1	RATFMT	TERMINAL DATA FORMAT
26	(1A)	BITSTRING	1	RATFEAT	TERMINAL FEATURES
27	(1B)	ADDRESS	1	RATNUMRD	NUMBER OF READERS
28	(1C)	ADDRESS	1	RATNUMPR	NUMBER OF PRINTERS
29	(1D)	ADDRESS	1	RATNUMPU	NUMBER OF PUNCHES
30	(1E)	BITSTRING	1	RATCONF	REMOTE CONSOLE FLAGS
31	(1F)	BITSTRING	1		RESERVED FOR FUTURE USE
32	(20)	SIGNED	4	RATCONRT	REMOTE CONSOLE ROUTE CODE
36	(24)	SIGNED	2	RATBUFSZ	TERMINAL BUFFER SIZE
38	(26)	SIGNED	2	RATWTIME	TERMINAL WAIT TIME
40	(28)	BITSTRING	1	RATFLAGS	REMOTE FLAGS
41	(29)	BITSTRING	1	RATFLAG2	REMOTE FLAGS
42	(2A)	SIGNED	2	RATDINTV	REMOTE DISCONNECT INTERVAL
44	(2C)	SIGNED	4	RATIMER	REMOTE CLOCK VALUE
48	(30)	CHARACTER	8	RATSYMB	REMOTES PRIMARY LUNAME
56	(38)	CHARACTER	8	RATPSWD	REMOTE PASSWORD
64	(40)	ADDRESS	4	RATRMJQE	RMT MSG DS JQE OFFSET - IF NON-ZERO, MSGS EXIST FOR PRT
68	(44)	SIGNED	2	RATLOGN	LOGON DCT NUMBER TO USE
70	(46)	SIGNED	2	RATRMTNO	Remote number
72	(48)	ADDRESS	8	RATCDCT	CDCT address
80	(50)	SIGNED	4	RATEND(0)	END OF RAT DSECT
80	(50)	X'50'	0	RATTLE	"*-RAT" LENGTH OF RAT
RATCONF					
	1...			RATCONFT	"B'10000000'" DISPLAY TIME STAMP, JOB ID, TEXT
	.1..			RATCONFJ	"B'01000000'" DISPLAY JOB ID, TEXT
	..1.			RATCONFC	"B'00100000'" REMOTE HAS A CONSOLE
ATCONFO EQU B'00010000' REMOTE CONSOLE OPERATIONAL					
	.... 1...			RATCONFI	"B'00001000'" ISSUE SETUP MSGS AS 'INFO'
	.... .1..			RATCONFD	"B'00000100'" ISSUE HASP150 ON-DEVICE MSG TO RMT CONSOLE AS WELL AS OPERATOR, INEFFECTIVE IF IF CONFC IS OFF
	.... ..1.			RATCONFS	"B'00000010'" SUPPRESS RMT MSG PRINTING (MSGPRT=NO ON RMTNN STMT)

Table 443. Structure RAT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
	RATFLAGS				
		1...		RATALM	"B'10000000'" REMOTE IS IN AUTOLOGON MODE
		.1..		RATSRMT	"B'01000000'" REMOTE SHOULD BE STARTED
		..1.		RATTINT	"B'00100000'" TEMP DISC INTERVAL IN EFFECT
		...1		RATPILUN	"B'00010000'" RATSYMB PERMANENTLY INITIALIZED
	EQU B'00001000' Reserved for future use EQU B'00000100' Reserved for future use				
		.... ..1.		RATVALID	"B'00000010'" RAT ENTRY IS VALID, IF FLAG IS OFF NO RDR/PRT/PUN DCTS ARE ALLOCATED, SIGNON IS NOT BE PERMITTED
		1		RATOUTPT	"B'00000001'" OUTPUT EXISTS FOR THIS RMT
	RATFLAG2 RAT2NSHR and RAT2SHRE are mutually exclusive flags, and are meaningless if RATLDCT contains zero or if remote is signed on to an unleased line.				
		1...		RAT2QSCN	"B'10000000'" AUTOLG FULL Q SCAN REQUIRED
		.1..		RAT2NSHR	"B'01000000'" RATLDCT holds nonshared lne
		..1.		RAT2SHRE	"B'00100000'" RATLDCT holds shared line

Table 444. Cross Reference for $RAT

Name	Offset	Hex Tag
RAT	0	
RATALM	50	80
RATBUFSZ	24	
RATCDCT	48	
RATCONF	1E	
RATCONFC	50	20
RATCONFD	50	4
RATCONFI	50	8
RATCONFJ	50	40
RATCONFS	50	2
RATCONFT	50	80
RATCONRT	20	
RATDINTV	2A	
RATEND	50	
RATFEAT	1A	
RATFLAGS	28	
RATFLAG2	29	
RATFMT	19	
RATIMER	2C	

Table 444. Cross Reference for $RAT (continued)

Name	Offset	Hex Tag
RATLDCT	C	
RATLOGN	44	
RATNAME	0	
RATNODE	14	
RATNUMPR	1C	
RATNUMPU	1D	
RATNUMRD	1B	
RATOUTPT	50	1
RATPILUN	50	10
RATPSWD	38	
RATRDCT	8	
RATRMJQE	40	
RATRMTNO	46	
RATROUTE	14	
RATRTE	16	
RATSRMT	50	40
RATSYMB	30	
RATTINT	50	20
RATTLE	50	50
RATTOKA	10	
RATTYPE	18	
RATVALID	50	2
RATWTIME	26	
RAT2NSHR	50	40
RAT2QSCN	50	80
RAT2SHRE	50	20

Chapter 179. $RCPWORK Information

$RCPWORK Programming Interface Information

$RCPWORK is a programming interface.

$RCPWORK Heading Information

Common Name:	JES2 Remote Console Processor
Macro ID:	$RCPWORK
DSECT Name:	PCE ($RCPWORK is part of the PCE DSECT)
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4
Storage Attributes:	Subpool: See $PCE Key: See $PCE Residency: See $PCE
Size:	See symbol RCPPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by:	See $PCE
Pointed to by:	The $MCONPCE field of the $HCT data area points to the remote console PCE. See $PCE for other pointer fields that apply to all PCE types.
Serialization:	Normal PCE dispatch serialization
Function:	The fields in this work area are used by the JES2 remote console processor. $RCPWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $RCPWORK are actually part of the PCE DSECT, but only map the PCE with the value PCERCPID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

$RCPWORK mapping

Table 445. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	HASP REMOTE CONSOLE PROCESSOR
		REMOTE CONSOLE DEVICE CONTROL TABLE (WITH COMBINED BSC AND SNA FOUNDATION EXTENSIONS			
320	(140)	DBL WORD	8	(0)	BEGINNING OF DCT
320	(140)	BITSTRING	1	RCPDCT	BSC RMT DCT & EXTNSN
		END OF REMOTE CONSOLE DEVICE CONTROL TABLE			
456	(1C8)	ADDRESS	1	RCPWF	WORK/WAIT FLAGS
457	(1C9)	BITSTRING	1	RCPWF2	MORE WORK/WAIT FLAGS
458	(1CA)	ADDRESS	1	RCPMF	MESSAGE PENDING FLAGS

Table 445. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
460	(1CC)	ADDRESS	4	RCPJQTMR	WAITING FOR JOB QUEUE TIMER
464	(1D0)	DBL WORD	8	RCPEXTPL	RCP EXTP PARAMETER LIST AREA
472	(1D8)	DBL WORD	8	RCPBASET	TIME OF SCAN
	CURRENT CONCURRENT FUNCTION EXIT ADDRESSES				
480	(1E0)	SIGNED	4	RCPXIT(0)	
480	(1E0)	ADDRESS	4	RCPMSXIT	EXIT TO MESSAGE SPOOLING CHECK RTN
484	(1E4)	ADDRESS	4	RCPSOXIT	EXIT TO SPOOLING OUT FUNCTION
488	(1E8)	ADDRESS	4	RCPSIXIT	EXIT TO SPOOLING IN FUNCTION
492	(1EC)	ADDRESS	4	RCPIOXIT	EXIT TO INPUT FUNCTION
492	(1EC)	X'1E0'	0	RCPDMXCN	"RCPXIT,*-RCPXIT"
496	(1F0)	SIGNED	4	RCPREGSV(16)	INTERNAL RCP SAVE/WORK AREA
560	(230)	ADDRESS	4	RCPIOT	IOT BUFFER
564	(234)	ADDRESS	4	RCPSWELQ	Pending SAF requests
	MESSAGE SPOOLING CONTROLS				
568	(238)	ADDRESS	4	RCPMSB1	FIRST MESSAGE BUFFER ADDRESS
572	(23C)	ADDRESS	4	RCPMSBL	LAST MESSAGE BUFFER ADDRESS
576	(240)	ADDRESS	4	RCPMSLBW	LAST BUFFER WRITTEN TO MSG DS + 1
580	(244)	ADDRESS	4	RCPMSCB	NEXT MESSAGE SPOOL BUFFER TO CHECK
584	(248)	ADDRESS	4	RCPMSBSV	NEXT MSG BUFFER TO PROCESS
588	(24C)	ADDRESS	4	RCPMSRRD	BFR CURRENTLY BEING REREAD
592	(250)	ADDRESS	4	RCPMSIOT	ADDRESS OF CURRENT RMT MSG IOT
596	(254)	ADDRESS	4	RCPMSBAT	BAT for IOT buffer
600	(258)	ADDRESS	4	RCPMSRAT	ADDRESS OF CURRENT RAT ELEMENT
604	(25C)	ADDRESS	4	RCPMSNTK	MTTR OF NEXT MSG REC TO WRITE
608	(260)	ADDRESS	4	RCPMSCMB	CMB address
612	(264)	ADDRESS	4	RCPMSHDR	SAVE AREA FOR CMB HEADER
616	(268)	ADDRESS	4	RCPMSRTE	RMT NO. OF CMB BEING SPOOLED
620	(26C)	ADDRESS	4	RCPROUT	SCANNED OUTPUT REMOTE NUMBER
624	(270)	CHARACTER	8	RCPMSKEY(0)	REMOTE MESSAGE DS KEY
624	(270)	SIGNED	4	RCPMSKJK	JOB IDENTIFIER KEY
628	(274)	SIGNED	4	RCPMSKDK	DATA SET KEY
632	(278)	ADDRESS	2	RCPBFSZ	CONSOLE BUFFER SIZE
634	(27A)	BITSTRING	1	RCPCFLG	CMB processing flags
		1...		RCPCFQCH	"B'10000000'" CMB has been dechained from $BUSYRQ, OK to run entire chain
		.1..		RCPCFVTS	"B'01000000'" SNA buffer shortage HASP248 has been issued
		..1.		RCPCFBSS	"B'00100000'" BSC buffer shortage HASP248 has been issued
		...1		RCPCFMLM	"B'00010000'" MLLM suspended HASP248 has been issued
		.... 1...		RCPCFPLF	"B'00001000'" All CMBs dequeued from CCTNOUSQ
635	(27B)	ADDRESS	1		RESERVED FOR FUTURE USE
	SPOOL OUT CONTROLS				

Table 445. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
636	(27C)	ADDRESS	4	RCPSOBAK	BACK UP ADDRESS TO SPOOL OUT BUFFER
640	(280)	ADDRESS	4	RCPSOOUT	SHARED QUEUE OUTPUT BUFFER ADDRESS
644	(284)	ADDRESS	4	RCPSOLR	LOCATION OF LOGICAL RECORD
648	(288)	ADDRESS	2	RCPSOFRE	FREE DATA COUNT
650	(28A)	ADDRESS	2	RCPSOCTR	COUNTER
652	(28C)	ADDRESS	4	RCPSOQSE	CURRENT OUTPUT QSE ADDRESS
652	(28C)	X'C'	0	RCPTABBL	"L'IOTRCPBA+L'TABRCPBA" BACK-UP AREA FOR 1 SYSTEM
656	(290)	BITSTRING	1	RCPTABBA(0)	Work data for $TRACK
1040	(410)	ADDRESS	3	RCPSORT	CURRENT NODE-QUALIFIER TO SPOOL
	NODAL OUTPUT CONTROL				
1043	(413)	ADDRESS	3	RCPNORT	CURRENT NODE TO NODE OUT
1046	(416)	BITSTRING	3	RCPNMRP	3-BYTE PREFACE TO NODAL MSG REC
NOTE: MUST ALWAYS PRECEDE NMR ASSEMBLY AREA --- USED BY $EXTP PUT TO BUILD RID					
1049	(419)	BITSTRING	178	RCPNMR	ASSEMBLY AREA FOR NODAL MESSAGE RECS
1227	(4CB)	ADDRESS	1	RCPAUTH	NODAL COMMAND AUTHORITY RESTRICTIONS
1228	(4CC)	ADDRESS	4	RCPNODCT	CURRENT NODAL OUTPUT DCT ADDR
1232	(4D0)	ADDRESS	4	RCPNPMB	DELAY TIMER FOR BUSY PATH MANAGER
	SHARED QUEUE INPUT CONTROL				
1236	(4D4)	ADDRESS	4	RCPSIIN	SHARED QUEUE INPUT BUFFER
1240	(4D8)	ADDRESS	4	RCPSILR	LOCATION OF LOGICAL RECORD
1244	(4DC)	ADDRESS	2	RCPSICTR	COUNTER
1246	(4DE)	ADDRESS	2	RCPSICTA	COUNTER
1248	(4E0)	ADDRESS	4	RCPSIQSQ	CURRENT INPUT QSE CONTROL ELEMENT
1252	(4E4)	ADDRESS	4	RCPMTTR	SAVE AREA - CURRENT INPUT MTTR
1256	(4E8)	ADDRESS	2	RCPSID	System id number
1258	(4EA)	BITSTRING	48	RCPSIRT	CMB SPOOL HEADER IN MLWTO
1306	(51A)	ADDRESS	2	RCPSIQCT	QSE SEARCH COUNTER SAVE AREA
	INPUT FUNCTION SPOOL OUT CONTROL				
1308	(51C)	ADDRESS	4	RCPIOOUT	INPUT OVERFLOW OUTPUT BUFFER ADDRESS
1312	(520)	ADDRESS	4	RCPIOLR	LOCATION OF LOGICAL RECORD
1316	(524)	ADDRESS	2	RCPIOFRE	FREE DATA COUNT
1318	(526)	ADDRESS	2	RCPIOCTR	COUNTER
1320	(528)	ADDRESS	4	RCPIOTTR	ACTIVE INPUT SPOOL OUTPUT RECRD
	NODAL INPUT CONTROL				
1324	(52C)	ADDRESS	4	RCPININ	INPUT OVERFLOW INPUT BUFFER
1328	(530)	ADDRESS	4	RCPINLNE	CURRENT INPUT SOURCE DCT ADDR
1332	(534)	ADDRESS	4	RCPINTME	LINE INPUT DELAY TIMER

Table 445. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Area to receive commands from RJEs and NJE nodes Note that RCPTOKN is not referred to by name; the token is moved to the next available byte after the command.			
1336	(538)	BITSTRING	232	RCPIN	Cmd/msg input work area
1568	(620)	BITSTRING	256	RCPINA	AREA TO RECEIVE DATA
1824	(720)	BITSTRING	1	RCPTOKN	Area for token
		MISCELLANEOUS			
1904	(770)	SIGNED	4	(0)	Ensure alignment
1904	(770)	CHARACTER	64	RCPSAFPM	Parameters for MSAFCHK
1968	(7B0)	ADDRESS	1	RCPFL	FLAGS
1969	(7B1)	ADDRESS	1	RCPFI	FLAGS FOR INPUT FUNCTIONS
1970	(7B2)	ADDRESS	2	RCPSCQOF	Offset of this member's SCQ
1972	(7B4)	ADDRESS	4	RCPSCQAD	Addr of this member's SCQS
1976	(7B8)	ADDRESS	4	RCPRESV	RESERVED BUFFER
1980	(7BC)	BITSTRING	48	RCPLSAV	MLWTO CNTRL FOR INPUT LNES
2028	(7EC)	CHARACTER	18	RCPDSTWK	DEST WORK AREA
2046	(7FE)	CHARACTER	1	RCPRSV1	RESERVED FOR FUTURE USE
		LIST FORM OF GETMAIN			
2048	(800)	ADDRESS	4	RCPGM	LENGTH
2052	(804)	ADDRESS	4		ADDR. OF ADDR. LIST
2056	(808)	BITSTRING	1		MODE AND OPTION FLAGS
2057	(809)	ADDRESS	1		SUBPOOL VALUE
2048	(800)	ADDRESS	4	RCPXSAV(3)	EXIT ROUTINE ACTIVATOR SAVE AREA
2060	(80C)	ADDRESS	2	RCPSIDEL(0)	Offsets for interrupted READs
2124	(84C)	ADDRESS	4	RCPSIDLP	CURRENT INTERRUPTED READ OFFSET
2128	(850)	SIGNED	4	RCPREGS(16)	Save area for $SETAFF macro
		Parameter list and other work areas for MVS Cloning translation service routine.			
2192	(890)	SIGNED	4	RCPSYMBP(0)	Parameter List
2220	(8AC)	SIGNED	4	RCPSYMLN	Length of translated cmd
2224	(8B0)	SIGNED	4	RCPSYMRC	RC from translation service
2228	(8B4)	ADDRESS	4	RCPSYMBF	Addr of trans output bfr
2228	(8B4)	X'778'	0	RCPPCEWS	"*-PCEWORK"
		RCPWF DEFINITIONS			
		1...		RCPWFCMB	"B'10000000'" WAIT ON CMB
		.1..		RCPWFQX	"B'01000000'" WAIT ON JOB QUEUE IN EXIT
		..1.		RCPWFQO	"B'00100000'" WAIT ON JOB QUEUE FOR OUTPUT
		...1		RCPWFTRK	"B'00010000'" WAIT ON $TRACK
		.... 1...		RCPWFPCB	"B'00001000'" PURGE CMB (CMB SHORTAGE)
		.... .1..		RCPWFBUF	"B'00000100'" WAIT ON TP BUFFER
		.... ..1.		RCPWFIBF	"B'00000010'" WAIT ON INPUT TP BUFFER
		1		RCPWFPSO	"B'00000001'" PURGE SPOOL OUTPUT BUFFER
		RCPWF2 DEFINITIONS			

Table 445. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		RCPWF2ML	"B'01000000'" MLWTO IN PROGRESS
	RCPFL DEFINITIONS				
		1...		RCPFLSOM	"B'10000000'" SPOOLING OUT WORKING ON MLWTO
		.1..		RCPFLSOE	"B'01000000'" SPOOLING OUT DISASTROUS ERROR FLAG
		..1.		RCPFLNOM	"B'00100000'" NODAL OUT WORKING ON MLWTO
	EQU B'00010000' Reserved for future use				
		.... 1...		RCPFLTML	"B'00001000'" WE ARE CURRENTLY TRANSMITTING MLWTO
		.... .1..		RCPFLT	"B'00000100'" TEMPORARY CONDITION INDICATOR
		.... ..1.		RCPFLMXM	"B'00000010'" &SPOLMSG MAX MSG RECS REACHED
		1		RCPFLIOE	"B'00000001'" I/O ERROR SPOOLING RMT MSGS
	RCPMF DEFINITIONS				
		1...		RCPMFSPF	"B'10000000'" MTTRVAL error
		.1..		RCPMFRRD	"B'01000000'" ERROR READING REMOTE MSGS
		..1.		RCPMFRWR	"B'00100000'" ERROR WRITING REMOTE MSGS
		...1		RCPMFMNU	"B'00010000'" SPOOL MEM NOT UP-MSGS DISCARDED
		.... 1...		RCPMFMAX	"B'00001000'" MSG LIMIT REACHED ON INPUT
		.... .1..		RCPMFMQE	"B'00000100'" MAX MSGS TO SPOOL Q EXCEEDED
		.... ..1.		RCPMFSMP	"B'00000010'" SPOOL OUT ERROR MESSAGE PENDING
		1		RCPMFIMP	"B'00000001'" INPUT ERROR MESSAGE PENDING
		.111 1111		RCPMFPND	"B'01111111'" Bits used in RCPMF - used to determine if a message needs to be issued.
	RCPFI DEFINITIONS				
		1...		RCPFIIE	"B'10000000'" ERROR ON INPUT
		.1..		RCPFIM	"B'01000000'" NODE INPUT IS PROCESSING MLWTO
		..1.		RCPFISP	"B'00100000'" INPUT SPOOLING IS ACTIVE
		...1		RCPFIOE	"B'00010000'" INPUT SPOOL OUT ERROR
		.... 1...		RCPFISID	"B'00001000'" SPOOL BUFFER HAS DATA
		.... .1..		RCPFINUL	"B'00000100'" INPUT SPOOL DISCARDING
		.... ..1.		RCPFIA	"B'00000010'" INPUT SPOOL WRITING

Table 445. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
	1			RCPFIR	"B'00000001'" PAGE RELEASE REQUIRED ON SPOOL INPUT

Table 446. Cross Reference for $RCPWORK

Name	Offset	Hex Tag
PCE	0	
RCPAUTH	4CB	
RCPBASET	1D8	0
RCPBFSZ	278	
RCPCFBSS	27A	20
RCPCFLG	27A	
RCPCFMLM	27A	10
RCPCFPLF	27A	8
RCPCFQCH	27A	80
RCPCFVTS	27A	40
RCPDCT	140	0
RCPDMXCN	1EC	1E0
RCPDSTWK	7EC	
RCPEXTPL	1D0	0
RCPFI	7B1	
RCPFIA	8B4	2
RCPFIIE	8B4	80
RCPFIM	8B4	40
RCPFINUL	8B4	4
RCPFIOE	8B4	10
RCPFIR	8B4	1
RCPFISID	8B4	8
RCPFISP	8B4	20
RCPFL	7B0	
RCPFLIOE	8B4	1
RCPFLMXM	8B4	2
RCPFLNOM	8B4	20
RCPFLSOE	8B4	40
RCPFLSOM	8B4	80
RCPFLT	8B4	4
RCPFLTML	8B4	8
RCPGM	800	
RCPIN	538	0
RCPINA	620	0
RCPININ	52C	
RCPINLNE	530	
RCPINTME	534	
RCPIOCTR	526	0
RCPIOFRE	524	0
RCPIOLR	520	
RCPIOOUT	51C	
RCPIOT	230	

Table 446. Cross Reference for $RCPWORK (continued)

Name	Offset	Hex Tag
RCPIOTTR	528	
RCPIOXIT	1EC	
RCPJQTMR	1CC	
RCPLSAV	7BC	0
RCPMF	1CA	
RCPMFIMP	8B4	1
RCPMFMAX	8B4	8
RCPMFMNU	8B4	10
RCPMFMQE	8B4	4
RCPMFPND	8B4	7F
RCPMFRRD	8B4	40
RCPMFRWR	8B4	20
RCPMFSMP	8B4	2
RCPMFSPF	8B4	80
RCPMSBAT	254	
RCPMSBL	23C	
RCPMSBSV	248	
RCPMSB1	238	
RCPMSCB	244	
RCPMSCMB	260	
RCPMSHDR	264	
RCPMSIOT	250	
RCPMSKDK	274	
RCPMSKEY	270	
RCPMSKJK	270	
RCPMSLBW	240	
RCPMSNTK	25C	
RCPMSRAT	258	
RCPMSRRD	24C	
RCPMSRTE	268	
RCPMSXIT	1E0	
RCPMTTR	4E4	
RCPNMR	419	0
RCPNMRP	416	0
RCPNODCT	4CC	
RCPNORT	413	
RCPNPMB	4D0	
RCPPCEWS	8B4	778
RCPREGS	850	
RCPREGSV	1F0	
RCPRESV	7B8	
RCPROUT	26C	
RCPRSV1	7FE	
RCPSAFPM	770	
RCPSCQAD	7B4	
RCPSCQOF	7B2	0
RCPSICTA	4DE	0
RCPSICTR	4DC	0
RCPSID	4E8	0

Table 446. Cross Reference for $RCPWORK (continued)

Name	Offset	Hex Tag
RCPSIDEL	80C	0
RCPSIDLP	84C	
RCPSIIN	4D4	
RCPSILR	4D8	
RCPSIQCT	51A	0
RCPSIQSQ	4E0	
RCPSIRT	4EA	0
RCPSIXIT	1E8	
RCPSOBAK	27C	
RCPSOCTR	28A	0
RCPSOFRE	288	0
RCPSOLR	284	
RCPSOOUT	280	
RCPSOQSE	28C	
RCPSORT	410	
RCPSOXIT	1E4	
RCPSWELQ	234	
RCPSYMBF	8B4	
RCPSYMBP	890	
RCPSYMLN	8AC	
RCPSYMRC	8B0	
RCPTABBA	290	0
RCPTABBL	28C	C
RCPTOKN	720	0
RCPWF	1C8	
RCPWFBUF	8B4	4
RCPWFCMB	8B4	80
RCPWFIBF	8B4	2
RCPWFPCB	8B4	8
RCPWFPSO	8B4	1
RCPWFQO	8B4	20
RCPWFQX	8B4	40
RCPWFTRK	8B4	10
RCPWF2	1C9	0
RCPWF2ML	8B4	40
RCPXIT	1E0	
RCPXSAV	800	

Chapter 180. $RDRWORK Information

$RDRWORK Programming Interface Information

The following fields are **NOT** programming interface information:

- RDWOCT
- RDWRJCB
- RDWRJCBS

$RDRWORK Heading Information

Common Name:	JES2 Input Services PCE Work Area
Macro ID:	$RDRWORK
DSECT Name:	PCE ($RDRWORK is part of the PCE DSECT)
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4
Storage Attributes:	Subpool: See $PCE Key: See $PCE Residency: See $PCE
Size:	See RDWLEN for normal devices. See RDWRJELN for RJE Input devices. See RDWNJRLN for Network Job Receivers. See RDWILEN for Internal Readers. The overall length of the PCE is stored in field PCELENG.
Created by:	Created by $PCEDYN during JES2 initialization for most input services PCEs. PCEs for remote readers are an exception, they are created by $PCEDYN when the remote for that reader is started.
Pointed to by:	$RDRPCE field of the $HCT data area $INRPCE field of the $HCT data area $TPRDPCE field of the $HCT data area $NJRPCE field of the $HCT data area $OJRPCE field of the $HCT data area $NRRPCE field of the $HCT data area $EXECPCE field of the $HCT data area $TRCPCE field of the $HCT data area $OUTPCE field of the $HCT data area $STACPCE field of the $HCT data area $RESMPCE field of the $HCT data area $SPOLPCE field of the $HCT data area DCTPCE field of the $DCT data area See $PCE for other pointer fields that apply to all PCE types.
Serialization:	Normal PCE dispatch serialization

$RDRWORK Heading Information

Function: The fields in this work area are used by a JES2 Input Service Processor and by its support routines and exits. $RDRWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $RDRWORK are actually part of the PCE DSECT, but only map PCEs with the value PCERDRID, PCENJRID or PCENRRID in the second byte of field PCEID, and a few other PCE work areas that also contain the $RDRWORK area; $COMWORK, $OUTWORK, $PSOWORK, $SPNWORK, $TLGWORK, $XEQWORK, and $SPIWORK.
This PCE is device related. This processor type has a one-to-one relationship to devices. Field PCEDCT points to a Device Control Table (DCT) and field DCTPCE in that DCT points to this PCE.

$RDRWORK mapping

Table 447. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
320	(140)	BITSTRING	1	RDWSW1	Reader switches
		1...		RDW1EOF	"B'10000000'" End-of-file switch
		.1..		RDW1DRN	"B'01000000'" SPOF recver being drained
321	(141)	BITSTRING	2		Reserved for future use
323	(143)	BITSTRING	1	RDWFLAGX	READER EXITS FLAG BYTE
324	(144)	SIGNED	4	RDWIBEND	ADDRESS OF LAST CARD IN INPUT BUFFER
328	(148)	ADDRESS	4	RDWIBSTD	INPUT BUFFER START DISPLACEMENT
	RPUT parameter lists				
332	(14C)	BITSTRING	48	RDWPJCL	JCLIN data set parm list
380	(17C)	BITSTRING	48	RDWPSYSN	SYSIN data set parm list
428	(1AC)	CHARACTER	10	RDWDEST	DESTINATION WORK AREA
438	(1B6)	BITSTRING	2		Reserved space
440	(1B8)	ADDRESS	4	RDWSMFB	SMF BUFFER POINTER
448	(1C0)	DBL WORD	8	RDWCWKAR(0)	Common work area
	RDWRECCT and RDWCURRC are for SDSF use				
448	(1C0)	X'220'	0	RDWCURRC	"(JRWCUREC-JRW)+RDWCWKAR,4,C'F'" Count of records received
448	(1C0)	X'21C'	0	RDWRECCT	"(JRWRCOUN-JRW)+RDWCWKAR,4,C'F'" Total input records (from NJH)
2400	(960)	ADDRESS	4	RDWIBCUR	Input buffer current card
2404	(964)	SIGNED	4	(3)	RESERVED
2404	(964)	X'970'	0	RDWORG	"*" START OF READER EXTENSIONS
	WORK AREA FOR RJE INPUT DEVICES				
2416	(970)	CHARACTER	260	RDWRJECD(0)	REMOTE READER INPUT AREA
2416	(970)	CHARACTER	256	RDWRCARD	MAX RJE CARD IMAGE SIZE
2672	(A70)	CHARACTER	4	RDWRCDXT	RESERVED FOR XTRA WK SPACE
2676	(A74)	BITSTRING	8		Reserved
2676	(A74)	X'93C'	0	RDWRJELN	"*-PCEWORK" LENGTH OF RJE INPUT PCE WORK AREA

Table 447. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		WORK AREA FOR NETWORK JOB RECEIVERS			
2416	(970)	BITSTRING	260	RDWNJRCD(0)	JOB RECEIVER INPUT AREA
2416	(970)	BITSTRING	256	RDWNCARD	MAXIMUM NJE HEADER SIZE
2672	(A70)	BITSTRING	4	RDWNCDXT	RESERVED FOR XTRA WK SPACE
2676	(A74)	ADDRESS	4	RDWNIBUF	Address of 32K input buffer
2680	(A78)	BITSTRING	1	RDWNSRCB	SRCB work area
2681	(A79)	BITSTRING	3		Reserved
2681	(A79)	X'93C'	0	RDWNJRLN	"*-PCEWORK" JOB RECEIVER PCE WORK AREA LENGTH
2681	(A79)	X'93C'	0	RDWLEN	"*-PCEWORK" Length of normal input PCE work area
		Ensure lengths of extensions are equal. Assembly errors will show in following SCONS if not equal.			
2684	(A7C)	ADDRESS	2	(0)	
2684	(A7C)	ADDRESS	2	(0)	

Table 448. Structure RDWPUTPL

Offset Dec	Offset Hex	Type	Len	Name(Dec)	Description
0	(0)	STRUCTURE	0	RDWPUTPL	, RPUT parameter list DSECT
0	(0)	ADDRESS	4	RDWPLBUF	Current output buffer
4	(4)	ADDRESS	4	RDWPLBNX	Next card in buffer addr
8	(8)	ADDRESS	4	RDWPLBND	End of output buffer addr
12	(C)	BITSTRING	6	RDWPLCTK	Current buffer track address (MQTR)
18	(12)	BITSTRING	2		Reserved
20	(14)	ADDRESS	4	RDWPLPDB	Associated PDDB
24	(18)	BITSTRING	6	RDWPLIMQ	MQTR of IOT containing PDDB
30	(1E)	BITSTRING	2		Reserved
32	(20)	ADDRESS	4	RDWPLREC	Record pointer
36	(24)	BITSTRING	1	RDWPLCC	Carriage control
37	(25)	BITSTRING	1	RDWPLLRC	LRC to be used
38	(26)	SIGNED	2	RDWPLRCL	Record LRECL
38	(26)	X'26'	0	RDWPLSLN	"RDWPLRCL,1" SCR length (SCRTLENG)
38	(26)	X'27'	0	RDWPLSTY	"RDWPLRCL+1,1" SCR Type (SCRTYPE)
40	(28)	BITSTRING	1	RDWPLFG1	Control flags
		1...		RDWPL1TR	"B'10000000'" Truncate current buffer
		.1..		RDWPL1CL	"B'01000000'" Truncate and close steam
		..1.		RDWPL1JL	"B'00100000'" JCL data set (will be read by converter)
		Work areas used by RPUT and close processing			
41	(29)	BITSTRING	1	RDWPLFG2	Data flag byte
		1...		RDWPL2FR	"B'10000000'" At least one record proc
		.1..		RDWPL2VA	"B'01000000'" Record sized vary

Table 448. Structure RDWPUTPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		RDWPL2CA	"B'00100000'" ASA control character found
		...1		RDWPL2CM	"B'00010000'" Machine control chars found
42	(2A)	SIGNED	2	RDWPLMLR	Max LRECL seen by RPUT
44	(2C)	SIGNED	2	RDWPLCLN	Blank truncated card length
48	(30)	SIGNED	4	(0)	Align
48	(30)	X'30'	0	RDWPLSIZ	"*-RDWPUTPL" Parameter list size
		...1		RDWSIOCS	"X'10'" SIO CSW STORED BIT
		..11		RDWSIOCC	"X'30'" SIO COMPLETION CODE BITS

Table 449. Cross Reference for $RDRWORK

Name	Offset	Hex Tag
PCE	0	
RDWCURRC	1C0	220
RDWCWKAR	1C0	
RDWDEST	1AC	
RDWFLAGX	143	
RDWIBCUR	960	
RDWIBEND	144	
RDWIBSTD	148	
RDWLEN	A79	93C
RDWNCARD	970	
RDWNCDXT	A70	
RDWNIBUF	A74	
RDWNJRCD	970	
RDWNJRLN	A79	93C
RDWNSRCB	A78	
RDWORG	964	970
RDWPJCL	14C	
RDWPLBND	8	
RDWPLBNX	4	
RDWPLBUF	0	
RDWPLCC	24	
RDWPLCLN	2C	
RDWPLCTK	C	
RDWPLFG1	28	
RDWPLFG2	29	
RDWPLIMQ	18	
RDWPLLRC	25	
RDWPLMLR	2A	
RDWPLPDB	14	
RDWPLRCL	26	
RDWPLREC	20	
RDWPLSIZ	30	30
RDWPLSLN	26	26
RDWPLSTY	26	27
RDWPL1CL	28	40

Table 449. Cross Reference for $RDRWORK (continued)

Name	Offset	Hex Tag
RDWPL1JL	28	20
RDWPL1TR	28	80
RDWPL2CA	29	20
RDWPL2CM	29	10
RDWPL2FR	29	80
RDWPL2VA	29	40
RDWPSYSN	17C	
RDWPUTPL	0	
RDWRCARD	970	
RDWRCDXT	A70	
RDWRECCT	1C0	21C
RDWRJECD	970	
RDWRJELN	A74	93C
RDWSIOCC	30	30
RDWSIOCS	30	10
RDWSMFB	1B8	
RDWSW1	140	
RDW1DRN	140	40
RDW1EOF	140	80

Chapter 181. $RECY Information

$RECY Heading Information

Common Name: Recovery CTENT
Macro ID: $RECY
DSECT Name: RECYDAS
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: The pool of RECY CTENTs are preceded by an eyecatcher '**RECY POOL**' in the header for the pool.
Offset: HDPID-HDP
Length: 13
Storage Attributes: Subpool: 0,dataspace
Key: 1
Residency: Virtual storage is anywhere (below or above 16M) in the JES2 address space. Real storage is anywhere.

Size: $RCDSIZE in the $HCT data contains the size of a RECYDAS array element.
Created by: JES2 initialization allocates storage for the RECY CTENTS in JES2 private. The checkpoint versions subtask creates copies of the RECYDAS checkpoint versions dataspace.
Pointed to by: The $RCDFRST field of the $HCT data area points to the first RECY in the JES2 private area.
Serialization: None
Function: Represents recovery data for a control block when rebuilding the control block.
The RECYDAS is used to rebuild individual DASes and their chaining on the track queue, work queue, and/or neither queue when an error has been detected during validation performed at initialization.

$RECY mapping

Table 450. Structure RECYDAS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	RECYDAS	
0	(0)	CHARACTER	6	RCDVOLID	EBCDIC Volser id
6	(6)	BITSTRING	1	RCDFLAG1	Shadow copy of DASFLAG
7	(7)	BITSTRING	1	RCDFLAG2	Shadow copy of DASFLAG2
8	(8)	BITSTRING	1	RCDFLAG3	Shadow copy of DASFLAG3
9	(9)	BITSTRING	1	RCDFLAG4	Shadow copy of DASFLAG4
10	(A)	BITSTRING	1	RCDFLAG5	Shadow copy of DASFLAG5
11	(B)	BITSTRING	1	RCDFLAG6	Shadow copy of DASFLAG6
12	(C)	BITSTRING	1	RCD7PHAS	Shadow copy of DASPHAS7
13	(D)	BITSTRING	1	RCDFLAG8	Shadow copy of DASFLAG8
14	(E)	SIGNED	2	RCDNOTGP	Number of tracks per group
16	(10)	SIGNED	4	RCDTRK(0)	Valid track range
16	(10)	BITSTRING	2	RCDLOTRK	Lower limit

Table 450. Structure RECYDAS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
18	(12)	BITSTRING	2	RCDUPTRK	Upper limit
20	(14)	SIGNED	4	RCDSTRK	Start track for extent
24	(18)	SIGNED	4	RCDMAPO	Offset from $TGMAP for this extent
28	(1C)	SIGNED	4	(0)	Ensure fullword alignment
28	(1C)	BITSTRING	4	RCDALOCS	Sys. with ext alloc'ed
32	(20)	BITSTRING	4	RCDERROR	Sys. error during alloc
36	(24)	BITSTRING	32	RCDERCDE	Error codes for systems
68	(44)	SIGNED	4	RCDTGNUM	Num of trackgroup in extent
72	(48)	ADDRESS	1	RCDMIGTR	SYSID of migrator system - system housing the migrator subtask. DASMIGTR
73	(49)	CHARACTER	6	RCDTARG	Represents target volser for spool migration. DASTARG.
79	(4F)	BITSTRING	1	RCDFLAGA	Shadow copy of DASFLAGA
80	(50)	CHARACTER	8		Reserved for future use
88	(58)	DBL WORD	8	(0)	Align end of RECY
88	(58)	SIGNED	4	RCDBSEND(0)	End of base section
		The INTERNAL format of the RECY is different depending on the mode of the JES2 checkpoint: - If the JES2 checkpoint is in z/OS 1.2 mode, each checkpointed RCD entry DOES NOT include the expanded area. - If the JES2 checkpoint is in z/OS 1.11 mode, each checkpointed RCD entry DOES include the expanded area.			
88	(58)	X'58'	0	RCDLEN_Z2	"*-RECYDAS" Length of checkpointed z/OS 1.2 mode RECY.
88	(58)	CHARACTER	44	RCDDSN	Data set name for spool data set (only valid in z/OS 1.11 mode)
132	(84)	BITSTRING	4	RCDMAPTR	Mapped track number in target volume. DASMAPTR
132	(84)	X'88'	0	RCDZ11LN	"*-RECYDAS" Length of checkpointed z/OS 1.11 mode RECY.
132	(84)	X'1'	0	RCDVRZ2	"1" RECY control block version for z/OS version 1.2 checkpoint mode.
132	(84)	X'2'	0	RCDVRZ11	"2" RECY control block version for z/OS version 1.11 checkpoint mode.

Table 451. Cross Reference for $RECY

Name	Offset	Hex Tag
RCDALOCS	1C	0
RCDBSEND	58	
RCDDSN	58	E2E8E2F1
RCDERCDE	24	0
RCDERROR	20	0
RCDFLAGA	4F	
RCDFLAG1	6	
RCDFLAG2	7	

Table 451. Cross Reference for $RECY (continued)

Name	Offset	Hex Tag
RCDFLAG3	8	
RCDFLAG4	9	
RCDFLAG5	A	
RCDFLAG6	B	
RCDFLAG8	D	
RCDLEN_Z2	58	58
RCDLOTRK	10	
RCDMAPO	18	
RCDMAPTR	84	
RCDMIGTR	48	
RCDNOTGP	E	
RCDSTRK	14	
RCDTARG	49	40404040
RCDTGNUM	44	
RCDTRK	10	
RCDUPTRK	12	
RCDVOLID	0	40404040
RCDVRZ11	84	2
RCDVRZ2	84	1
RCDZ11LN	84	88
RCD7PHAS	C	
RECYDAS	0	

Chapter 182. $REQJID Information

$REQJID Programming Interface Information

$REQJID is a programming interface.

$REQJID Heading Information

Common Name:	Request job id specifications
Macro ID:	$REQJID
DSECT Name:	RJI
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	RJI Offset: RJIID Length: L'RJIID
Storage Attributes:	Subpool: 0 Key: 1 Residency: Virtual storage is 31 bit. No restriction on real storage
Size:	See RJILEN
Created by:	JES2 Initialization
Pointed to by:	CCTREQJI field of the HCCT data area
Serialization:	Normal PCE dispatch serialization
Function:	Specifications for Request jobid jobs. See below for the information stored.

$REQJID mapping

Table 452. Structure RJI

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	RJI	
0	(0)	CHARACTER	4	RJIID	
4	(4)	BITSTRING	6	RJIJLOG	JES log control
10	(A)	BITSTRING	1	RJIFLAG1	Flag byte
		1...		RJI1TY6	"B'10000000'" Create type 6 SMF records
		.1..		RJI1TY26	"B'01000000'" Create type 26 SMF records
		..1.		RJI1UJP	"B'00100000'" Allow IEFUJP exit
10	(A)	X'B'	0	RJILEN	"*-RJI"

Chapter 183. $RESNAM Information

$RESNAM Programming Interface Information

$RESNAM is a programming interface.

$RESNAM Heading Information

Common Name: JES2 Resource Name Mapping
Macro ID: $RESNAM
DSECT Name: RESNAM
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: None
Storage Attributes:
```
Subpool:   N/A
Key:       N/A
Residency: N/A
```

Size: See RESJLEN and RESILEN
Created by: $RESNAME is normally included as part of another control block, for example $WAVE.
Pointed to by: N/A
Serialization: None required
Function:

```
The Resource names are built by routines in JES
that require a resource name in the parameter list
for RACROUTE / $SEAS when making SAF calls.
The $RESNAM DSECT maps the SAF Resource names.
The Resource names mapped by this DSECT have the
following format:
:xmp.
   JESSPOOL Resource name is
    nodename.userid.jobname.jobid.GROUP.Groupname
   WHERE
     nodename  = The eight character nodename
     userid    = The eight character USER ID
     jobname   = The eight character JOB NAME
     Jobid     = The eight character JOBID
     GROUP     = The Constant 'GROUP'
     groupname = The eight character output group
:exmp.
:xmp.
   ISF DEST caller Resource name is
    ISFAUTH.DEST.destname
   WHERE
     ISFAUTH   = The 7 character constant 'ISFAUTH'
     DEST      = The 4 character constant 'DEST'
     destname  = THe destination name (converted by
                 $DEST to character format).
:exmp.
```

$RESNAM mapping

Table 453. Structure RESNAM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	RESNAM	
0	(0)	SIGNED	4	RESJSPL(0)	JES2 JESSPOOL RESOURCE NAME
0	(0)	CHARACTER	8	RESJNODE	Nodename
8	(8)	CHARACTER	1	RESJSEP1	separator 1
9	(9)	CHARACTER	8	RESJUSER	USER ID
17	(11)	CHARACTER	1	RESJSEP2	separator 2
18	(12)	CHARACTER	8	RESJJBNM	JOB NAME
26	(1A)	CHARACTER	1	RESJSEP3	separator 3
27	(1B)	CHARACTER	8	RESJJBID	JOB ID
35	(23)	CHARACTER	1	RESJSEP4	separator 4
36	(24)	CHARACTER	8	RESJGRPC	Constant GROUP
44	(2C)	CHARACTER	1	RESJSEP5	separator 5
45	(2D)	CHARACTER	8	RESJGRPN	Groupname
45	(2D)	X'35'	0	RESJLEN	"*-RESJSPL" Length of JESPOOL resource name
		The following mapping is used for the ISF DEST authority resource name.			
0	(0)	CHARACTER	63	RESISFNM(0)	ISFAUTH resource name
0	(0)	CHARACTER	8	RESIAUTH	Constant 'ISFAUTH'
8	(8)	CHARACTER	1	RESISEP1	separator 1
9	(9)	CHARACTER	4	RESIDEST	constant 'DEST'
13	(D)	CHARACTER	1	RESISEP2	separator 2
14	(E)	CHARACTER	1	RESIDSTN	Converted destination name
14	(E)	X'20'	0	RESISUBL	"*" Length without padding
32	(20)	CHARACTER	1	RESIPADN	padding
32	(20)	X'3F'	0	RESILEN	"*-RESISFNM" REQUIRED LENGTH OF NAME
		The following mapping is used for the JESJOBS job modify resource name : ENTITY.nodename.userid.jobname			
0	(0)	SIGNED	4	RESJMRNM(0)	JESJOBS JOB MODIFY RESOURCE NAME
0	(0)	CHARACTER	8	RESJMENT	Entity name
8	(8)	CHARACTER	1	RESJMSE1	separator
9	(9)	CHARACTER	8	RESJMNDE	Node name
17	(11)	CHARACTER	1	RESJMSE2	separator
18	(12)	CHARACTER	8	RESJMUID	user ID
26	(1A)	CHARACTER	1	RESJMSE3	separator
27	(1B)	CHARACTER	8	RESJMJBN	Job name
27	(1B)	X'23'	0	RESJMLEN	"*-RESJMRNM" Length of JESJOBS job modify resource name

Table 454. Cross Reference for $RESNAM

Name	Offset	Hex Tag
RESIAUTH	0	C9E2C6C1
RESIDEST	9	C4C5E2E3
RESIDSTN	E	40404040
RESILEN	20	3F
RESIPADN	20	40404040

Table 454. Cross Reference for $RESNAM (continued)

Name	Offset	Hex Tag
RESISEP1	8	4B
RESISEP2	D	4B
RESISFNM	0	
RESISUBL	E	20
RESJGRPC	24	
RESJGRPN	2D	40404040
RESJJBID	1B	D1D6C2F1
RESJJBNM	12	40404040
RESJLEN	2D	35
RESJMENT	0	40404040
RESJMJBN	1B	40404040
RESJMLEN	1B	23
RESJMNDE	9	40404040
RESJMRNM	0	
RESJMSE1	8	4B
RESJMSE2	11	4B
RESJMSE3	1A	4B
RESJMUID	12	40404040
RESJNODE	0	40404040
RESJSEP1	8	4B
RESJSEP2	11	4B
RESJSEP3	1A	4B
RESJSEP4	23	4B
RESJSEP5	2C	4B
RESJSPL	0	
RESJUSER	9	40404040
RESNAM	0	

Chapter 184. $RESWORK Information

$RESWORK Heading Information

Common Name: JES2 Resource Manager PCE Work Area
Macro ID: $RESWORK
DSECT Name: PCE ($RESWORK is part of the PCE DSECT)
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'PCE '
Offset: PCEEYE-PCE
Length: 4
Storage Attributes: Subpool: See $PCE
Key: See $PCE
Residency: See $PCE

Size: See symbol RESPCEWL for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by: See $PCE
Pointed to by: The $RESMPCE field of the $HCT data area
See $PCE for other pointer fields that apply to all PCE types.
Serialization: Normal PCE dispatch serialization
Function: The fields in this work area are used by a JES2 Resource Manager Processor. $RESWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $RESWORK are actually part of the PCE DSECT, but only map PCEs with the value PCERESID in the second byte of field PCEID.
This PCE is not device related. Field PCEDCT is zero.

$RESWORK mapping

Table 455. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
		The following fields are used to hold information required to manage the issuance, deletion, and timing for the $HASP050 messages They are each pointed to by the table in the RESMGR processor. These fields do not have to be in the same order, and grouped, for each resource type. However, that format may prove useful eventually.			
320	(140)	X'3'	0	RESNTHR	"3" Number of 2-byte fields used for threshhold comparison
320	(140)	ADDRESS	4	RESTBERT	HASP050 time offset - BERTs
324	(144)	SIGNED	2	RESPBERT	HASP050 prct offset - BERTs
326	(146)	SIGNED	2	RESOBERT(0)	Threshold prct offset BERTs
332	(14C)	ADDRESS	4	RESDBERT	$HASP050 DOM id for BERTs

Table 455. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
336	(150)	ADDRESS	4	RESTCMBS	HASP050 ISSUED TIME AND
340	(154)	SIGNED	2	RESPCMBS	ISSUED THRESHOLD FOR CMBS
342	(156)	SIGNED	2	RESOCMBS(0)	ISSUED THRESHOLD VALUES
348	(15C)	ADDRESS	4	RESDCMBS	$HASP050 DOM id for CMBS
352	(160)	ADDRESS	4	RESTLBUF	HASP050 ISSUED TIME AND
356	(164)	SIGNED	2	RESPLBUF	ISSUED THRESHOLD FOR LBUF
358	(166)	SIGNED	2	RESOLBUF(0)	ISSUED THRESHOLD VALUES
364	(16C)	ADDRESS	4	RESDLBUF	$HASP050 DOM id for LBUF
368	(170)	ADDRESS	4	RESTBFX	HASP050 ISSUED TIME AND
372	(174)	SIGNED	2	RESPBFX	ISSUED THRESHOLD FOR CB
374	(176)	SIGNED	2	RESOBFX(0)	ISSUED THRESHOLD VALUES
380	(17C)	ADDRESS	4	RESDBFX	$HASP050 DOM id for BFX
384	(180)	ADDRESS	4	RESTBSCB	HASP050 ISSUED TIME AND
388	(184)	SIGNED	2	RESPBSCB	ISSUED THRESHOLD FOR BSC
390	(186)	SIGNED	2	RESOBSCB(0)	ISSUED THRESHOLD VALUES
396	(18C)	ADDRESS	4	RESDBSCB	$HASP050 DOM id for BSC
400	(190)	ADDRESS	4	RESTVTAM	HASP050 ISSUED TIME AND
404	(194)	SIGNED	2	RESPVTAM	ISSUED THRESHOLD FOR VTAM
406	(196)	SIGNED	2	RESOVTAM(0)	ISSUED THRESHOLD VALUES
412	(19C)	ADDRESS	4	RESDVTAM	$HASP050 DOM id for VTAM
416	(1A0)	ADDRESS	4	RESTSMFB	HASP050 ISSUED TIME AND
420	(1A4)	SIGNED	2	RESPSMFB	ISSUED THRESHOLD FOR SMFB
422	(1A6)	SIGNED	2	RESOSMFB(0)	ISSUED THRESHOLD VALUES
428	(1AC)	ADDRESS	4	RESDSMFB	$HASP050 DOM id for SMFB
432	(1B0)	ADDRESS	4	RESTJQES	HASP050 ISSUED TIME AND
436	(1B4)	SIGNED	2	RESPJQES	ISSUED THRESHOLD FOR JQES
438	(1B6)	SIGNED	2	RESOJQES(0)	ISSUED THRESHOLD VALUES
444	(1BC)	ADDRESS	4	RESDJQES	$HASP050 DOM id for JQES
448	(1C0)	ADDRESS	4	RESTJOES	HASP050 ISSUED TIME AND
452	(1C4)	SIGNED	2	RESPJOES	ISSUED THRESHOLD FOR JOES
454	(1C6)	SIGNED	2	RESOJOES(0)	ISSUED THRESHOLD VALUES
460	(1CC)	ADDRESS	4	RESDJOES	$HASP050 DOM id for JOES
464	(1D0)	ADDRESS	4	RESTJNUM	HASP050 ISSUED TIME AND
468	(1D4)	SIGNED	2	RESPJNUM	ISSUED THRESHOLD FOR JNUM
470	(1D6)	SIGNED	2	RESOJNUM(0)	ISSUED THRESHOLD VALUES
476	(1DC)	ADDRESS	4	RESDJNUM	$HASP050 DOM id for JNUM
480	(1E0)	ADDRESS	4	RESTTGS	HASP050 ISSUED TIME AND
484	(1E4)	SIGNED	2	RESPTGS	ISSUED THRESHOLD FOR TGS
486	(1E6)	SIGNED	2	RESOTGS(0)	ISSUED THRESHOLD VALUES
492	(1EC)	ADDRESS	4	RESDTGS	$HASP050 DOM id for TGS
496	(1F0)	ADDRESS	4	RESTTTAB	HASP050 ISSUED TIME AND
500	(1F4)	SIGNED	2	RESPTTAB	ISSUED THRESHOLD FOR TTAB
502	(1F6)	SIGNED	2	RESOTTAB(0)	ISSUED THRESHOLD VALUES
508	(1FC)	ADDRESS	4	RESDTTAB	$HASP050 DOM id for TTAB
512	(200)	ADDRESS	4	RESTCKVR	HASP050 ISSUED TIME AND
516	(204)	SIGNED	2	RESPCKVR	ISSUED THRESHOLD FOR CKVR
518	(206)	SIGNED	2	RESOCKVR(0)	ISSUED THRESHOLD VALUES
524	(20C)	ADDRESS	4	RESDCKVR	$HASP050 DOM id for CKVR
528	(210)	ADDRESS	4	RESTNHBS	HASP050 ISSUED TIME AND
532	(214)	SIGNED	2	RESPNHBS	ISSUED THRESHOLD FOR NHBS
534	(216)	SIGNED	2	RESONHBS(0)	ISSUED THRESHOLD VALUES
540	(21C)	ADDRESS	4	RESDNHBS	$HASP050 DOM id for NHBS

Table 455. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
544	(220)	ADDRESS	4	RESTICES	HASP050 ISSUED TIME AND
548	(224)	SIGNED	2	RESPICES	ISSUED THRESHOLD FOR ICES
550	(226)	SIGNED	2	RESOICES(0)	ISSUED THRESHOLD VALUES
556	(22C)	ADDRESS	4	RESDICES	$HASP050 DOM id for ICES
560	(230)	ADDRESS	4	RESTCMDS	HASP050 ISSUED TIME AND
564	(234)	SIGNED	2	RESPCMDS	ISSUED THRESHOLD FOR CMDS
566	(236)	SIGNED	2	RESOCMDS(0)	ISSUED THRESHOLD VALUES
572	(23C)	ADDRESS	4	RESDCMDS	$HASP050 DOM id for CMDS
576	(240)	ADDRESS	4	RESTZJC	HASP050 issued time and
580	(244)	SIGNED	2	RESPZJC	issued threshold for ZJC
582	(246)	SIGNED	2	RESOZJC(0)	issued threshold values
588	(24C)	ADDRESS	4	RESDZJC	$HASP050 DOM id for ZJC
		The following fields are for various other data area required by the RESMGR processor.			
592	(250)	BITSTRING	1	RESMFLAG	RESOURCE MANAGER WORK FLAG
		1...		RESWANTQ	"B'10000000'" This processor needs the CKPT to process JESPLEX resources
593	(251)	BITSTRING	1	RESBERTD	Dispers for HASP052
		1...		RESDUMMY	"B'10000000'" DISPER valid settings
		See $FLAG4 for $BERT32 and $BERT16 definitions			
594	(252)	BITSTRING	2		Reserved for future use
596	(254)	BITSTRING	12	RESTQE	TIMER QUEUE ELEMENT
608	(260)	SIGNED	4		RESERVED FOR FUTURE USE
		Temporary FREE/INUSE/TOTAL counts that are computed at the start of RESMGR processing.			
612	(264)	SIGNED	4	RESTGFRE	Count of free track groups
616	(268)	SIGNED	4	RESJOFRE	Count of free JOEs
620	(26C)	SIGNED	4	RESTTFRE	Count of free TTABs
624	(270)	SIGNED	4	RESTTNUM	Total number of TTABs
628	(274)	SIGNED	4	RESJNFRE	Count of free job #'s
632	(278)	SIGNED	4	RESJNNUM	Count of assignable job #'s
636	(27C)	SIGNED	4	RESBRFRE	Count of free BERTs
640	(280)	SIGNED	4	RESBRCNT	Total number of BERTs
644	(284)	SIGNED	4	RESBABS	Absolute value used for critical BERT shortage M
648	(288)	SIGNED	4	RESBDOM	HASP052 DOMID
652	(28C)	SIGNED	4	RESBSTCK	STCK last HASP052
		Work fields for $HASP050 message			
656	(290)	DBL WORD	8	RESCTIME	Current time - filled in using $STCK
		------- $BLDMSG MSGID=050,TYPE=WTO,SEPAR=NULL,MF=L			
664	(298)	SIGNED	4	RESBM050(0)	Control block ID
668	(29C)	BITSTRING	4		Console ID
672	(2A0)	ADDRESS	4		Address of the CART
676	(2A4)	ADDRESS	4		Pointer for JOBID
680	(2A8)	ADDRESS	4		Control block address
684	(2AC)	ADDRESS	4		Display routine address

Table 455. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
688	(2B0)	ADDRESS	4	(6)	6 word work area
712	(2C8)	ADDRESS	4		Caller's R11 value
716	(2CC)	BITSTRING	2		ROUT code for Message
718	(2CE)	BITSTRING	2		Not used
720	(2D0)	CHARACTER	4		Message ID
724	(2D4)	BITSTRING	1		Indicate SEPAR=NULL
725	(2D5)	ADDRESS	1		Flag byte 1
726	(2D6)	ADDRESS	1		'DISPER'
727	(2D7)	ADDRESS	1		Flag byte 2
728	(2D8)	ADDRESS	1		Flag byte 3
729	(2D9)	CHARACTER	8		Symbolic name of dest.
737	(2E1)	BITSTRING	15		Not used
752	(2F0)	ADDRESS	4	(0)	Ensure multiple of 4
752	(2F0)	ADDRESS	2	(0)	
752	(2F0)	SIGNED	4	RES50WRK(0)	
752	(2F0)	CHARACTER	4	RESTYPE	Resource name
756	(2F4)	SIGNED	2	RESPRCT	Total percent required
758	(2F6)	SIGNED	2	RESPRCTA	Percent actually in use
760	(2F8)	SIGNED	2	RESPRCTB	Percent waited for
762	(2FA)	SIGNED	2	RESUNFRQ	Number of unfulfilled requests for resource
762	(2FA)	X'2F6'	0	RESPRCTS	"RESPRCTA,*-RESPRCTA" Percents from last 050
764	(2FC)	SIGNED	4	RESNUM	NUMBER DEFINED
768	(300)	SIGNED	4	RESNUMRQ	NUMBER REQUIRED
772	(304)	SIGNED	4	RESNUMA	Number actually in use
776	(308)	SIGNED	4	RESNUMB	Number waited for
780	(30C)	SIGNED	4	RESNUMC	Largest unfulfilled request for resource
784	(310)	BITSTRING	1	RESDISPR	DISPER for $HASP050 message
		1...		RESSHORT	"X'80'" DISPER for short form
		.1..		RESLONG	"X'40'" DISPER for long form
784	(310)	X'21'	0	RES50LEN	"*-RES50WRK"
784	(310)	X'1D1'	0	RESPCEWL	"*-PCEWORK" LENGTH OF RESOURCE PCE WORK AREA

Table 456. Cross Reference for $RESWORK

Name	Offset	Hex Tag
PCE	0	
RESBABS	284	
RESBDOM	288	
RESBERTD	251	
RESBM050	298	C2D3C440
RESBRCNT	280	
RESBRFRE	27C	
RESBSTCK	28C	
RESCTIME	290	
RESDBERT	14C	
RESDBFX	17C	
RESDBSCB	18C	

Table 456. Cross Reference for $RESWORK (continued)

Name	Offset	Hex Tag
RESDCKVR	20C	
RESDCMBS	15C	
RESDCMDS	23C	
RESDICES	22C	
RESDISPR	310	
RESDJNUM	1DC	
RESDJOES	1CC	
RESDJQES	1BC	
RESDLBUF	16C	
RESDNHBS	21C	
RESDSMFB	1AC	
RESDTGS	1EC	
RESDTTAB	1FC	
RESDUMMY	251	80
RESDVTAM	19C	
RESDZJC	24C	
RESJNFRE	274	
RESJNNUM	278	
RESJOFRE	268	
RESLONG	310	40
RESMFLAG	250	
RESNTHR	140	3
RESNUM	2FC	
RESNUMA	304	
RESNUMB	308	
RESNUMC	30C	
RESNUMRQ	300	
RESOBERT	146	
RESOBFX	176	
RESOBSCB	186	
RESOCKVR	206	
RESOCMBS	156	
RESOCMDS	236	
RESOICES	226	
RESOJNUM	1D6	
RESOJOES	1C6	
RESOJQES	1B6	
RESOLBUF	166	
RESONHBS	216	
RESOSMFB	1A6	
RESOTGS	1E6	
RESOTTAB	1F6	
RESOVTAM	196	
RESOZJC	246	
RESPBERT	144	
RESPBFX	174	
RESPBSCB	184	
RESPCEWL	310	1D1
RESPCKVR	204	

Table 456. Cross Reference for $RESWORK (continued)

Name	Offset	Hex Tag
RESPCMBS	154	
RESPCMDS	234	
RESPICES	224	
RESPJNUM	1D4	
RESPJOES	1C4	
RESPJQES	1B4	
RESPLBUF	164	
RESPNHBS	214	
RESPRCT	2F4	
RESPRCTA	2F6	
RESPRCTB	2F8	
RESPRCTS	2FA	2F6
RESPSMFB	1A4	
RESPTGS	1E4	
RESPTTAB	1F4	
RESPVTAM	194	
RESPZJC	244	
RESSHORT	310	80
RESTBERT	140	
RESTBFX	170	
RESTBSCB	180	
RESTCKVR	200	
RESTCMBS	150	
RESTCMDS	230	
RESTGFRE	264	
RESTICES	220	
RESTJNUM	1D0	
RESTJOES	1C0	
RESTJQES	1B0	
RESTLBUF	160	
RESTNHBS	210	
RESTQE	254	
RESTSMFB	1A0	
RESTTFRE	26C	
RESTTGS	1E0	
RESTTNUM	270	
RESTTTAB	1F0	
RESTVTAM	190	
RESTYPE	2F0	
RESTZJC	240	
RESUNFRQ	2FA	
RESWANTQ	250	80
RES50LEN	310	21
RES50WRK	2F0	

Chapter 185. $RJCB Information

$RJCB Heading Information

Common Name:	Job Reader Card Buffer
Macro ID:	$RJCB
DSECT Name:	RJCB
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'RJCB' Offset: RJCBID-RJCB Length: 4
Storage Attributes:	Subpool: 1 Key: 1 Residency: Virtual and real storage can be anywhere in private storage of the JES2 address space.
Size:	See RJCBLENG
Created by:	HASPRDR Input Reader Processor (via $GETWORK) HASPSRIP Input Service Routine (via $GETMAIN)
Pointed to by:	JRWRJCB field of the $JRW data area JRWRJCBN field of the $JRW data area JRWRJCBF field of the $JRW data area JRWRJCBM field of the $JRW data area RJCBRJCB field of the $RJCB data area
Serialization:	None required
Function:	This macro provides the mapping for the buffer that is used to contain one card that makes up a JCL statement.

$RJCB mapping

Table 457. Structure RJCB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	RJCB	Reader JOB Card buffer
0	(0)	CHARACTER	4	RJCBID	Control Block identifier
4	(4)	BITSTRING	1	RJCBFLGT	Flag byte (not cleared)
		1...		RJCBTGTW	"B'10000000'" RJCB was $GETWORKed
4	(4)	X'5'	0	RJCBCSTR	"*" Start of where to clear data area on reuse
5	(5)	BITSTRING	1	RJCBFLG1	Flag byte
		1...		RJCB1GEN	"B'10000000'" Generated card image
		.1..		RJCB1XBM	"B'01000000'" Add card to XBM input DS
		..1.		RJCB1MSG	"B'00100000'" RJCBCARD contains a msg
		...1		RJCB1CMB	"B'00010000'" RJCBCARD contains a CMB
		.... 1...		RJCB1SCR	"B'00001000'" RJCBCARD contains an SCR

Table 457. Structure RJCB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
6	(6)	BITSTRING	1	RJCBFLG2	Flag byte
		1...		RJCB2XIT	"B'10000000'" Exit has seen card once
		.1..		RJCB2XMO	"B'01000000'" Exit modified card image
		..1.		RJCB2XA2	"B'00100000'" Exit 2 added card image
		...1		RJCB2XA4	"B'00010000'" Exit 4 added card image
6	(6)	X'30'	0	RJCB2XAD	"RJCB2XA2+RJCB2XA4" Some exit added card
		.... 1...		RJCB2LOP	"B'00001000'" Last operand is on card
		.... .1..		RJCB2QUO	"B'00000100'" Unfinished quote at end of card
		.... ..1.		RJCB2CCM	"B'00000010'" Card is a cont comment
		1		RJCB2LST	"B'00000001'" Last card in statement
6	(6)	X'F'	0	RJCB2CRD	"RJCB2LOP+RJCB2QUO+RJCB2CCM+RJCB2LST" Card type
7	(7)	BITSTRING	1	RJCBFLG3	Flag byte
		1...		RJCB3LOC	"B'10000000'" An exit modified or added card should not be sent to other nodes or offloaded
8	(8)	ADDRESS	4	RJCBRJCB	Pointer to next RJCB
		RJCBOCRD - is the card image prior to any changes made by an exit RJCBCARD - is the card image with any exit changes RJCBMSG - if RJCB1MSG is on, RJCBMSGL contains the message length and RJCBMSG contains the a message of the format: $MSG nnn,'text' text is assumed to begin with "-- " RJCBCMB - if RJCB1CMB is on, RJCBCMB contains a CMB to be processed by JES2. If CMBFLAGC is on the CMB contains a JES2 command, otherwise it contains a message			
12	(C)	SIGNED	4	(0)	Align following
12	(C)	CHARACTER	80	RJCBOCRD	Original card image
92	(5C)	CHARACTER	80	RJCBCARD	Card image
12	(C)	ADDRESS	2	RJCBMSGL	Message length
14	(E)	CHARACTER	120	RJCBMSG	Message ($MSGID nnn,'text')
134	(86)	BITSTRING	1	RJCBMSGF	Message flags
		1...		RJCBMFRJ	"B'10000000'" Send message to RJE
		.1..		RJCBMFNJ	"B'01000000'" Send message to NJE
		..1.		RJCBMFJC	"B'00100000'" Write message to JCLIN
		...1		RJCBMFEX	"B'00010000'" Extend local msg with source information
		.... 1...		RJCBMF1S	"B'00001000'" Add msg to front of queue

Table 457. Structure RJCB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		RJCBMERR	"B'00000100'" Message is for an error
		.... ..1.		RJCBMWAR	"B'00000010'" Message is a warning
135	(87)	BITSTRING	1		Reserved
12	(C)	BITSTRING	216	RJCBCMB	CMB for JES2 processing
12	(C)	BITSTRING	80	RJCBSCR	SCR to be written
92	(5C)	ADDRESS	4	RJCBPDDB	Address of related PDDB
96	(60)	SIGNED	2	RJCBSROF	Off in SCR for chain track
98	(62)	BITSTRING	1	RJCBSCRF	SCR flag bytes
		1...		RJCBSFTR	"B'10000000'" Trunc buffer after SCR
232	(E8)	DBL WORD	8	(0)	Alignment
232	(E8)	X'5'	0	RJCBCLR	"RJCBCSTR,*-RJCBCSTR" Area of RJCB to be cleared
232	(E8)	X'E8'	0	RJCBLENG	"*-RJCB" Length of RJCB in bytes
232	(E8)	X'3A'	0	RJCBWORD	"RJCBLENG/4" Length of RJCB in words

Table 458. Cross Reference for $RJCB

Name	Offset	Hex Tag
RJCB	0	
RJCBCARD	5C	
RJCBCLR	E8	5
RJCBCMB	C	
RJCBCSTR	4	5
RJCBFLGT	4	
RJCBFLG1	5	
RJCBFLG2	6	
RJCBFLG3	7	
RJCBID	0	
RJCBLENG	E8	E8
RJCBMERR	86	4
RJCBMFEX	86	10
RJCBMFJC	86	20
RJCBMFNJ	86	40
RJCBMFRJ	86	80
RJCBMF1S	86	8
RJCBMSG	E	
RJCBMSGF	86	
RJCBMSGL	C	
RJCBMWAR	86	2
RJCBOCRD	C	
RJCBPDDB	5C	
RJCBRJCB	8	
RJCBSCR	C	
RJCBSCRF	62	
RJCBSFTR	62	80
RJCBSROF	60	

Table 458. Cross Reference for $RJCB (continued)

Name	Offset	Hex Tag
RJCBTGTW	4	80
RJCBWORD	E8	3A
RJCB1CMB	5	10
RJCB1GEN	5	80
RJCB1MSG	5	20
RJCB1SCR	5	8
RJCB1XBM	5	40
RJCB2CCM	6	2
RJCB2CRD	6	F
RJCB2LOP	6	8
RJCB2LST	6	1
RJCB2QUO	6	4
RJCB2XAD	6	30
RJCB2XA2	6	20
RJCB2XA4	6	10
RJCB2XIT	6	80
RJCB2XMO	6	40
RJCB3LOC	7	80

Chapter 186. $ROTT Information

$ROTT Heading Information

Common Name: ROTT
Macro ID: $ROTT
DSECT Name: ROTT, ROTE
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: ROTT
Offset: ROTID
Length: L'ROTID
Storage Attributes: Subpool: n/a
Key: 1
Residency: Virtual and real are in 64 bit storage

Size: This DSECT defines a number of tables. Each table has a fixed size header (length is ROTSIZE) and then the actual trace data. The size of each entry is dependant on the data area being traced. Each table is stored in a 1M 64 bit segment. The number of entries is based on what fits in 1M of storage.

Table	Anchor	Element size
JQEs	$ROTJQE	ROTJSIZE
JOEs	$ROTJOE	ROTJSIZE
Dispatcher	$ROTDISP	ROTDSIZE
SAPI	$ROTSAPI	ROTSSIZE
CKPT	$ROTCKPT	ROTCSIZE

Created by: HASPIRDA
Pointed to by: $ROTJQE field of the HCT (for the JQE table)
$ROTJOE field of the HCT (for the JOE table)
$ROTDISP field of the HCT (for the $WAIT table)
$ROTSAPI field of the HCT (for the SAPI table)
$ROTCKPT field of the HCT (for the CKPT table)
Serialization: None - table is updated only by the main JES2 TCB.
Function: This DSECT maps the CTRACE rolling trace entries used by JES2. The following CTRACE SUBs exist in JES2:
JQE - JQE services ($Qxxxx services and $DOGBERT)
JOE - JOE services ($#xxxx services)
DISP - $WAIT, PCE dispatch and MVS WAIT services
SAPI - SAPI request processing
CKPT - CKPT R/W processing
The intent of these traces is to provide a history of what happened in JES2 to the various control blocks to aid in debugging JES2 problems.

$ROTT mapping

Table 459. Structure ROTT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ROTT	
		Table control			

Table 459. Structure ROTT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	CHARACTER	4	ROTID	Eye catcher
4	(4)	SIGNED	1	ROTVER	Version
4	(4)	X'1'	0	ROTCVER	"1" Current version
5	(5)	BITSTRING	1	ROTFLAG1	Flags
6	(6)	SIGNED	2	ROTELEN	Length of an element
8	(8)	ADDRESS	8	ROTFIRST	Addr of first element
16	(10)	ADDRESS	8	ROTLAST	Addr of last element
24	(18)	ADDRESS	8	ROTCURR	Addr of current element
32	(20)	DBL WORD	8	ROTELEM(0)	Element definition begins here
32	(20)	X'20'	0	ROTSIZE	"*-ROTT" Length of header portion

Table 460. Structure ROTE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ROTE	, Map trace element
		Information common to all trace entries Goal: Make this information identical to the CTRACE element header			
0	(0)	SIGNED	2	ROTELENP	Length of trace element
2	(2)	SIGNED	2	ROTEOFF	Data offset
4	(4)	SIGNED	4	ROTEFMTI	Format ID key
8	(8)	BITSTRING	8	ROTETIME	TOD clock value
16	(10)	BITSTRING	1	ROTEDATA(0)	Variable data goes here
		JES2 component information common to all elements			
16	(10)	ADDRESS	4	ROTEPCE	PCE address
20	(14)	BITSTRING	1	ROTEFLG1	Flags
		1...		ROTE1ART	"B'10000000'" Artificial JQE
		.1..		ROTE1JOA	"B'01000000'" Artificial JOE
21	(15)	BITSTRING	1	ROTEEXIT	Current exit number
22	(16)	BITSTRING	2		Reserved for future use
24	(18)	SIGNED	4	ROTEJNUM	Job number
28	(1C)	ADDRESS	4	ROTEOFFS	Offset of JQE/JOE
		Service IDs represent the service (e.g.$QMOD, $#REM) which caused the trace entry to be built.			
32	(20)	BITSTRING	1	ROTESERV	Service id
		....		ROTQSRV	"X'00'" First JQE service id
		....		ROTQADD	"X'00'" $QADD
		1		ROTQPUT	"X'01'" $QPUT
		.... ..1.		ROTQREM	"X'02'" $QREM
		11		ROTQMOD	"X'03'" $QMOD
		.... .1..		ROTQJIX	"X'04'" $QJIX (alloc new number)
		.... .1.1		ROTQJIXS	"X'05'" $QJIX (swap job numbers)
		.... .11.		ROTGETJL	"X'06'" $GETJLOK
		.... .111		ROTFREJL	"X'07'" $FREJLOK
		.... 1...		ROTQRBDC	"X'08'" $QRBDCHK (add to queue)
		.... 1..1		ROTQBUSY	"X'09'" $QBUSY
		.... 1.1.		ROTDOGJQ	"X'0A'" $DOGJQE
		...1		ROT#SRV	"X'10'" First JOE service id

Table 460. Structure ROTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		ROT#ADD	"X'10'" $#ADD
		...1 ...1		ROT#PUT	"X'11'" $#PUT
		...1 ..1.		ROT#REM	"X'12'" $#REM
		...1 ..11		ROT#MOD	"X'13'" $#MOD
		...1 .1..		ROT#RBDC	"X'14'" $#RBDCHK (add to queue)
		...1 1..1		ROT#BUSY	"X'19'" $#BUSY
		...1 1.1.		ROT#GET	"X'1A'" $#GET
		...1 1.11		ROT#CAN	"X'1B'" $#CAN
		...1 11..		ROT#REP	"X'1C'" $#REP
		...1 11.1		ROTDOGJO	"X'1D'" $DOGJOE
		..1.		ROTDSRV	"X'20'" First $WAIT service id
		..1.		ROTWAIT	"X'20'" $WAIT
		..1. ...1		ROTDISP	"X'21'" Dispatch
		..1. ..1.		ROTMVSWA	"X'22'" MVS WAIT
		..11		ROTSAPI	"X'30'" First SAPI service id
		..11 ...1		ROTPUTGT	"X'31'" PUT/GET request
		..11 ..1.		ROTCOUNT	"X'32'" Count request
		..11 ..11		ROTBULKM	"X'33'" Bulk Modify request
		.1..		ROTCKPT	"X'40'" First CKPT service id
		.1.. ...1		ROTREAD1	"X'41'" Read1 service
		.1.. ..1.		ROTREAD2	"X'42'" Read2 service
		.1.. ..11		ROTPRIMW	"X'43'" Primary write
		.1.. .1..		ROTNPRIM	"X'44'" Skipped primary write
		.1.. .1.1		ROTINTW	"X'45'" Intermediate write
		.1.. .11.		ROTFINW	"X'46'" Final write
		.1.. .111		ROTFMT	"X'47'" CKPT format
		.1.. 1...		ROTRECON	"X'48'" CKPT reconfig
33	(21)	BITSTRING	1	ROTESRV2	Sub service number
34	(22)	BITSTRING	2		Reserved for future use
JES2 component information common to JOE and JQEs					
36	(24)	SIGNED	4	ROTESPEC(0)	Start of 'specific' data
36	(24)	ADDRESS	4	ROTECALR	Caller of service
40	(28)	BITSTRING	1	ROTEOQUE	Original queue (or class)
41	(29)	BITSTRING	1	ROTENQUE	New queue (or class)
42	(2A)	BITSTRING	1	ROTEBUSY	Busy byte
43	(2B)	BITSTRING	1	ROTQLOCK	Lock (JQE only)
43	(2B)	X'2B'	0	ROT#TYPE	"ROTQLOCK,1,C'X'" Type (JOE only)
48	(30)	DBL WORD	8	ROTEND(0)	Ensure entry ends on double word boundary
46	(2E)	SIGNED	2	ROTELENE	Length of element
46	(2E)	X'30'	0	ROTEJSIZ	"*-ROTE" Size of one entry
Field for a dispatcher trace entry Note ROTEEVNT is incremented by one to simplify IPCS code.					
36	(24)	BITSTRING	1	ROTEEVNT	Event byte
37	(25)	BITSTRING	1	ROTERESO	Resource byte
38	(26)	BITSTRING	1	ROTEWFG1	$WAIT parm $WTFLAG1
39	(27)	BITSTRING	1		Reserved
40	(28)	CHARACTER	8	ROTECSCT	CSECT
48	(30)	CHARACTER	8	ROTESEQ	Sequence

Table 460. Structure ROTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
56	(38)	BITSTRING	8	ROTEWTME	$WAIT time or Run time (In microseconds)
64	(40)	BITSTRING	8	ROTEWCPU	CPU Used ($WAIT Entry) (In microseconds)
64	(40)	BITSTRING	2	ROTEPSTR	$POST reason ($DISP entry) See PPBLPOST
88	(58)	DBL WORD	8	ROTEND2(0)	Ensure entry ends on double word boundary
86	(56)	SIGNED	2	ROTEDLEN	Length of element
86	(56)	X'58'	0	ROTEDSIZ	"*-ROTE" Size of one entry
Field for a SAPI trace entry					
36	(24)	CHARACTER	17	ROTEDEVN	SAPI device name
53	(35)	BITSTRING	1	ROTESFL1	Entry flag byte
		1...		ROTES1JO	"B'10000000'" SAPID assigned a JOE
		.1..		ROTES1PU	"B'01000000'" JOE was returned
		..1.		ROTES1BS	"B'00100000'" TREGROUP was called
		...1		ROTES1CT	"B'00010000'" Control bit is on
		.... 1...		ROTES1DP	"B'00001000'" No duplicate set
54	(36)	BITSTRING	1	ROTESEL1	SSS2 select flag SSS2SEL1
55	(37)	BITSTRING	1	ROTESEL2	SSS2 select flag SSS2SEL2
56	(38)	BITSTRING	1	ROTESEL3	SSS2 select flag SSS2SEL3
57	(39)	BITSTRING	1	ROTESEL4	SSS2 select flag SSS2SEL4
58	(3A)	BITSTRING	1	ROTESEL5	SSS2 select flag SSS2SEL5
59	(3B)	BITSTRING	1	ROTESEL6	SSS2 select flag SSS2SEL6
60	(3C)	SIGNED	4	ROTESAPD	SAPID address
64	(40)	DBL WORD	8	ROTESCPU	CPU time (microseconds)
72	(48)	DBL WORD	8	ROTESRUN	Run time (microseconds)
80	(50)	DBL WORD	8	ROTESQSU	QSUSE time (microseconds)
88	(58)	DBL WORD	8	ROTESELP	Elapsed time (microseconds)
96	(60)	DBL WORD	8	ROTESGET	$#GET CPU time (microsecs)
104	(68)	DBL WORD	8	ROTESRQT	$RQUE time (microseconds)
112	(70)	SIGNED	4	ROTESIOC	I/O count
120	(78)	DBL WORD	8	ROTEND3(0)	Ensure entry ends on double word boundary
118	(76)	SIGNED	2	ROTESLEN	Length of element
118	(76)	X'78'	0	ROTESSIZ	"*-ROTE" Size of one entry
Field for a CKPT trace entry					
36	(24)	CHARACTER	8	ROTECKPN	CKPT name
44	(2C)	BITSTRING	1	ROTECKFL	CKPT flags (CTWFLAG1)
45	(2D)	BITSTRING	3		Reserved
48	(30)	SIGNED	4	ROTECLEV	Level number of data set
52	(34)	SIGNED	4	ROTECKPC	Number of $CKPTs issued
56	(38)	SIGNED	4	ROTECKPO	$CKPTs optimization
60	(3C)	SIGNED	4	ROTECPAR	$QSUSE pain rate
64	(40)	SIGNED	4	ROTECPAV	$QSUSE pain value
68	(44)	SIGNED	4	ROTECOVH	CKPT access overhead (in microseconds)
72	(48)	SIGNED	4	ROTECPWT	Number of times PCE waited before starting write

Table 460. Structure ROTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
76	(4C)	SIGNED	4	ROTECIOT	I/O time (microseconds)
80	(50)	SIGNED	4	ROTECMST	KMAINSB run time
84	(54)	SIGNED	4	ROTECMSC	KMAINSB CPU time
88	(58)	SIGNED	4	ROTEC4KP	4K Page count
92	(5C)	SIGNED	4	ROTECBCT	CB count
	Subtask statistics				
96	(60)	SIGNED	4	ROTECTIM	Wall clock to complete req
100	(64)	SIGNED	4	ROTECCPU	CPU time to complete req
104	(68)	SIGNED	4	ROTECIOC	I/O count for request
108	(6C)	SIGNED	4	ROTECCNT	CB count for request
	HOLD/DORMANCY information				
112	(70)	SIGNED	4	ROTEHOLD	Current HOLD value
116	(74)	SIGNED	4	ROTEDORM	Current MIN and
120	(78)	SIGNED	4	ROTEMAXD	MAX dormancy values
124	(7C)	SIGNED	4	ROTEAHLD	Actual hold time (FW)
128	(80)	SIGNED	4	ROTEADOR	Actual dormancy (R1)
	Reconfiguration data				
36	(24)	CHARACTER	8	ROTERMOD	$CKPTDIA calling module
44	(2C)	CHARACTER	8	ROTERSEQ	and sequence number
52	(34)	BITSTRING	1	ROTERACT	Action taken
53	(35)	BITSTRING	1	ROTERREA	Reason for call
136	(88)	DBL WORD	8	ROTEND4(0)	Ensure entry ends on double word boundary
134	(86)	SIGNED	2	ROTECLEN	Length of element
134	(86)	X'88'	0	ROTECSIZ	"*-ROTE" Size of one entry

Table 461. Cross Reference for $ROTT

Name	Offset	Hex Tag
ROT#ADD	20	10
ROT#BUSY	20	19
ROT#CAN	20	1B
ROT#GET	20	1A
ROT#MOD	20	13
ROT#PUT	20	11
ROT#RBDC	20	14
ROT#REM	20	12
ROT#REP	20	1C
ROT#SRV	20	10
ROT#TYPE	2B	2B
ROTBULKM	20	33
ROTCKPT	20	40
ROTCOUNT	20	32
ROTCURR	18	
ROTCVER	4	1
ROTDISP	20	21
ROTDOGJO	20	1D
ROTDOGJQ	20	A

Table 461. Cross Reference for $ROTT (continued)

Name	Offset	Hex Tag
ROTDSRV	20	20
ROTE	0	
ROTEADOR	80	
ROTEAHLD	7C	
ROTEBUSY	2A	
ROTECALR	24	
ROTECBCT	5C	
ROTECCNT	6C	
ROTECCPU	64	
ROTECIOC	68	
ROTECIOT	4C	
ROTECKFL	2C	
ROTECKPC	34	
ROTECKPN	24	
ROTECKPO	38	
ROTECLEN	86	
ROTECLEV	30	
ROTECMSC	54	
ROTECMST	50	
ROTECOVH	44	
ROTECPAR	3C	
ROTECPAV	40	
ROTECPWT	48	
ROTECSCT	28	
ROTECSIZ	86	88
ROTECTIM	60	
ROTEC4KP	58	
ROTEDATA	10	
ROTEDEVN	24	
ROTEDLEN	56	
ROTEDORM	74	
ROTEDSIZ	56	58
ROTEEVNT	24	
ROTEEXIT	15	
ROTEFLG1	14	
ROTEFMTI	4	
ROTEHOLD	70	
ROTEJNUM	18	
ROTEJSIZ	2E	30
ROTELEM	20	
ROTELEN	6	
ROTELENE	2E	
ROTELENP	0	
ROTEMAXD	78	
ROTEND	30	
ROTEND2	58	
ROTEND3	78	
ROTEND4	88	
ROTENQUE	29	

Table 461. Cross Reference for $ROTT (continued)

Name	Offset	Hex Tag
ROTEOFF	2	
ROTEOFFS	1C	
ROTEOQUE	28	
ROTEPCE	10	
ROTEPSTR	40	
ROTERACT	34	
ROTERESO	25	
ROTERMOD	24	
ROTERREA	35	
ROTERSEQ	2C	
ROTESAPD	3C	
ROTESCPU	40	
ROTESELP	58	
ROTESEL1	36	
ROTESEL2	37	
ROTESEL3	38	
ROTESEL4	39	
ROTESEL5	3A	
ROTESEL6	3B	
ROTESEQ	30	
ROTESERV	20	
ROTESFL1	35	
ROTESGET	60	
ROTESIOC	70	
ROTESLEN	76	
ROTESPEC	24	
ROTESQSU	50	
ROTESRQT	68	
ROTESRUN	48	
ROTESRV2	21	
ROTESSIZ	76	78
ROTES1BS	35	20
ROTES1CT	35	10
ROTES1DP	35	8
ROTES1JO	35	80
ROTES1PU	35	40
ROTETIME	8	
ROTEWCPU	40	
ROTEWFG1	26	
ROTEWTME	38	
ROTE1ART	14	80
ROTE1JOA	14	40
ROTFINW	20	46
ROTFIRST	8	
ROTFLAG1	5	
ROTFMT	20	47
ROTFREJL	20	7
ROTGETJL	20	6
ROTID	0	

Table 461. Cross Reference for $ROTT (continued)

Name	Offset	Hex Tag
ROTINTW	20	45
ROTLAST	10	
ROTMVSWA	20	22
ROTNPRIM	20	44
ROTPRIMW	20	43
ROTPUTGT	20	31
ROTQADD	20	0
ROTQBUSY	20	9
ROTQJIX	20	4
ROTQJIXS	20	5
ROTQLOCK	2B	
ROTQMOD	20	3
ROTQPUT	20	1
ROTQRBDC	20	8
ROTQREM	20	2
ROTQSRV	20	0
ROTREAD1	20	41
ROTREAD2	20	42
ROTRECON	20	48
ROTSAPI	20	30
ROTSIZE	20	20
ROTT	0	
ROTVER	4	
ROTWAIT	20	20

Chapter 187. $SAFINFO Information

$SAFINFO Programming Interface Information

$SAFINFO is a programming interface.

$SAFINFO Heading Information

Common Name:	HASP Security Information Block
Macro ID:	$SAFINFO
DSECT Name:	SAFINFO
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'SFI ' Offset: SFIEYE-SAFINFO Length: 4
Storage Attributes:	Subpool: N/A Key: 1 Residency: Virtual and real storage are anywhere (above or below 16M) in the private storage of the JES2 address space.
Size:	See SFILEN
Created by:	JOBVALM caller and SYSOVFY caller
Pointed to by:	Register one upon entry to the called routine
Serialization:	None
Function:	This is the parameter list to both the JOBVALM and SYSOVFY routines. Values in this DSECT will be used to construct the RACROUTE VERIFYX, AUTH, and TOKENBLD parameter lists.

$SAFINFO mapping

Table 462. Structure SAFINFO

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SAFINFO	Security Information Parameter List
0	(0)	CHARACTER	4	SFIEYE	Control block ID
4	(4)	ADDRESS	1	SFILEVEL	Control block version
4	(4)	X'1'	0	SFIVRSN	"1" Control block version equate
5	(5)	BITSTRING	1	SFIFLAG1	SAFINFO Flag Byte 1
		1...		SFI1PASE	"B'10000000'" NJHGPASS is encrypted
		.1..		SFI1NPSE	"B'01000000'" NJHGNPAS is encrypted
		..1.		SFIRESV1	"B'00100000'" Reserved for IBM dvlmt use
		...1		SFI1XMIT	"B'00010000'" XMIT request
		.... 1...		SFI1XBM	"B'00001000'" This is an XBM joblet

Table 462. Structure SAFINFO (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		SFI1NORM	"B'00000100'" Get a token for the job
		.... ..1.		SFI1SREQ	"B'00000010'" Get a submitter for the job
		1		SFI1DFLT	"B'00000001'" Get an undefined user token
6	(6)	BITSTRING	1	SFIFLAG2	SAFINFO Flag Byte 2
		1...		SFI2STKN	"B'10000000'" Submitter token in SFITOKEN or returned in JCTTOKEN
		.1..		SFI2VTKN	"B'01000000'" SFITOKEN is a pre-verified token (used by SYSOVFY only)
		..1.		SFI2VXPS	"B'00100000'" JOB/OUTPUT passed VERIFYX. Used as input if SFI2VTKN set. Set on output if VX return code is 0 or 4 (used by SYSOVFY only)
7	(7)	BITSTRING	1	SFIFLAG3	SAFINFO FLAG BYTE 3
7	(7)	X'3'	0	SFI3JOB	"JQE3JOB" BATCH JOB (WHEN BITS ZERO)
7	(7)	X'1'	0	SFI3STC	"JQE3STC" FLAG FOR STC TYPE JOB
7	(7)	X'2'	0	SFI3TSU	"JQE3TSU" FLAG FOR TSU TYPE JOB
8	(8)	SIGNED	2	SFIRESCD	Error reason code for RC=4 or 8 only (else 0)
12	(C)	ADDRESS	4	SFIJCT	Address of Job Control Table
16	(10)	ADDRESS	4	SFITWA	Address Token Work Area for TOKENBLD
20	(14)	ADDRESS	4	SFIIOT	Address of job's primary alloc IOT
24	(18)	ADDRESS	4	SFITOKEN	Address of input token
28	(1C)	ADDRESS	4	SFIHTOKN	Address of header token
32	(20)	SIGNED	2	SFIHTLEN	Length of header token
34	(22)	BITSTRING	1	SFIHTFLG	Header token flags
		1...		SFIHTJOB	"B'10000000'" Header token is job token
35	(23)	BITSTRING	1		Reserved for future use
36	(24)	ADDRESS	4	SFIWAVE	Address of WAVE
40	(28)	CHARACTER	8	SFIPOE	Port Of Entry name
48	(30)	ADDRESS	4	SFITOKA	Submitter token (DCTTOKA)
52	(34)	BITSTRING	1	SFIDEVTP	Device type (DCTDEVTP)
53	(35)	BITSTRING	3		Reserved
		The following fields are available/used by SYSOVFY only.			
56	(38)	ADDRESS	4	SFIPDDB	Address of PDDB for verify
60	(3C)	CHARACTER	8	SFIDSNM	DSNAME or jobname from DSH
		SFICONTG maps a contiguous storage area. Caution should be exercised when placing fields within this area.			
60	(3C)	X'48'	0	SFICONTL	"SFICEND-SFICBEGN" Length of total contiguous area
60	(3C)	X'8'	0	SFIELEML	"8" Length of individual element
60	(3C)	X'44'	0	SFICBEGN	"*" Beginning of contiguous area
68	(44)	ADDRESS	1	SFIUIDL	USERID length + value

Table 462. Structure SAFINFO (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
68	(44)	X'45'	0	SFIUID	"SFIUIDL+1,SFIELEML,C'C'" USERID for this job
77	(4D)	ADDRESS	1	SFIGRPL	GROUP length + value
77	(4D)	X'4E'	0	SFIGRP	"SFIGRPL+1,SFIELEML,C'C'" GROUP for this job
86	(56)	ADDRESS	1	SFIPASL	PASSWORD length + value
86	(56)	X'57'	0	SFIPAS	"SFIPASL+1,SFIELEML,C'C'" PASSWORD for this job
95	(5F)	ADDRESS	1	SFINPASL	New PASSWORD len + value
95	(5F)	X'60'	0	SFINPAS	"SFINPASL+1,SFIELEML,C'C'" New PASSWORD for this job
104	(68)	ADDRESS	1	SFIXNDEL	Execution node len + val
104	(68)	X'69'	0	SFIXNDE	"SFIXNDEL+1,SFIELEML,C'C'" Execution node for this job
113	(71)	ADDRESS	1	SFISNDEL	Submittor node len + val
113	(71)	X'72'	0	SFISNDE	"SFISNDEL+1,SFIELEML,C'C'" Submittor node for this job
122	(7A)	ADDRESS	1	SFISUIDL	Submittor USERID len+val
122	(7A)	X'7B'	0	SFISUID	"SFISUIDL+1,SFIELEML,C'C'" Submittor USERID for this job
131	(83)	ADDRESS	1	SFISGRPL	Submittor GROUP len+val
131	(83)	X'84'	0	SFISGRP	"SFISGRPL+1,SFIELEML,C'C'" Submittor GROUP for this job
131	(83)	X'8C'	0	SFICEND	"*" End of contiguous area
140	(8C)	CHARACTER	8	SFISECL	Security label (blanks if none)
148	(94)	ADDRESS	4		RESERVED FOR FUTURE IBM USE
152	(98)	DBL WORD	8	(0)	End of SAFINFO
152	(98)	X'98'	0	SFILEN	"*-SAFINFO" Length of SAFINFO

Table 463. Cross Reference for $SAFINFO

Name	Offset	Hex Tag
SAFINFO	0	
SFICBEGN	3C	44
SFICEND	83	8C
SFICONTL	3C	48
SFIDEVTP	34	
SFIDSNM	3C	
SFIELEML	3C	8
SFIEYE	0	E2C6C940
SFIFLAG1	5	
SFIFLAG2	6	
SFIFLAG3	7	
SFIGRP	4D	4E
SFIGRPL	4D	
SFIHTFLG	22	
SFIHTJOB	22	80
SFIHTLEN	20	
SFIHTOKN	1C	
SFIIOT	14	
SFIJCT	C	

Table 463. Cross Reference for $SAFINFO (continued)

Name	Offset	Hex Tag
SFILEN	98	98
SFILEVEL	4	
SFINPAS	5F	60
SFINPASL	5F	
SFIPAS	56	57
SFIPASL	56	
SFIPDDB	38	
SFIPOE	28	
SFIRESCD	8	
SFIRESV1	5	20
SFISECL	8C	40404040
SFISGRP	83	84
SFISGRPL	83	
SFISNDE	71	72
SFISNDEL	71	
SFISUID	7A	7B
SFISUIDL	7A	
SFITOKA	30	
SFITOKEN	18	
SFITWA	10	
SFIUID	44	45
SFIUIDL	44	
SFIVRSN	4	1
SFIWAVE	24	
SFIXNDE	68	69
SFIXNDEL	68	
SFI1DFLT	5	1
SFI1NORM	5	4
SFI1NPSE	5	40
SFI1PASE	5	80
SFI1SREQ	5	2
SFI1XBM	5	8
SFI1XMIT	5	10
SFI2STKN	6	80
SFI2VTKN	6	40
SFI2VXPS	6	20
SFI3JOB	7	3
SFI3STC	7	1
SFI3TSU	7	2

Chapter 188. $SAPID Information

$SAPID Heading Information

Common Name:	Sysout API data area
Macro ID:	$SAPID
DSECT Name:	SAPID and TJEV
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	$SAP Offset: SAPEYE-SAPID Length: L'SAPEYE
Storage Attributes:	Subpool: n/a Key: 1 Residency: In the jesxSAPI data space in cpool SAPID In the JES2 64-bit private storage in cpool TJEV
Size:	See SAPLEN See TJELEN
Created by:	HASCSAPI (SAPID) HASPJOS (TJEV)
Pointed to by:	SAPID - SSS2JEST field of the IAZSSS2 SSOB extension and by TJESAP SAPID - SAPNEXT field of the SAPID TJEV - SAPTJEVA field of the SAPID
Serialization:	SAPID Compare and Swap TJEV None (only used in JES2 address space)
Function:	The SAPID contains the specifications of the SAPI user for the work desired. It also contains status information of the SAPI "thread". The TJEV holds a vector of bits (one bit per potential JOE). The absense of a TJEV means that the thread has not excluded any JOE. The presense of a TJEV with the bit corresponding to a given work JOE non-zero means that the corresponding JOE is excluded for selection by the thread.

$SAPID mapping

Table 464. Structure SAPID

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SAPID	, SYSOUT API Data Area
0	(0)	CHARACTER	4	SAPEYE	Eye catcher
4	(4)	BITSTRING	1	SAPFLAG1	Flags (serialized via compare and swap)
		1...		SAP1RQUE	"B'10000000'" This SAPID managed by RQUE
		.1..		SAP1GAVE	"B'01000000'" The last time control was returned to this caller, work was given
		..1.		SAP1WSPV	"B'00100000'" The SAPWSP has a WSP which has been constructed by $WSSCAN

Table 464. Structure SAPID (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		SAP1TERM	"B'00010000'" Terminate this SAPID
		.... 1...		SAP1HOT	"B'00001000'" RQUE Post because of hot start
		.... .1..		SAP1PCE	"B'00000100'" Being processed by SPI PCE
		.... ..1.		SAP1JWEL	"B'00000010'" Non-Bulk Modify JWELs have been created
		1		SAP1BJWL	"B'00000001'" JWELs for Bulk Modify have been created
5	(5)	BITSTRING	1	SAPFLAGJ	Flags representing JOE state
		1...		SAPJCOMP	"B'10000000'" JOE has been completely processed
		.1..		SAPJSAF	"B'01000000'" JOE access rejected by SAF
		..1.		SAPJALLO	"B'00100000'" JOE is allocated (to us)
		...1		SAPJFINI	"B'00010000'" JOE is no longer suitable
		.... 1...		SAPJCTRL	"B'00001000'" Do not give new JOE
		.... ..1.		SAPJASH	"B'00000010'" Put JOE in address space hold (do not give to this AS again)
		1		SAPJBUST	"B'00000001'" At least one PDDB has been busted out of this JOE
6	(6)	BITSTRING	1	SAPFLGJ2	More flags for JOE state
		1...		SAPJ2TH	"B'10000000'" Thread hold this data set
		.1..		SAPJ2OLD	"B'01000000'" JOE is no longer valid
		..1.		SAPJ2SFP	"B'00100000'" Started with first PDDB in JOE
		.... 1...		SAPJ2SON	"B'00001000'" Last data set obtained with SAF READ access
		.... .1..		SAPJ2PRI	"B'00000100'" One or more data sets prio set via CSPDISP
		.... ..1.		SAPJ2CKV	"B'00000010'" SAPI has written CHK - CHK valid should be set
		1		SAPJ2CKE	"B'00000001'" I/O error while R/W CHK spool record
7	(7)	SIGNED	1	SAPMSTRV	Level of checkpoint in use when SAIFETCH populated ($MSTRVER is saved here)
8	(8)	BITSTRING	1	SAPCKEY	SSI caller's key
9	(9)	BITSTRING	3		Reserved for future use
		SAPSSS2 is an exact duplicate of the caller's SSOB extension. To gain addressability, specify: USING SSS2,SAPSSS2			
12	(C)	ADDRESS	4	SAPNEXT	SAP.Addr of next SAPID in data space SERIALIZATION: Compare and Swap
16	(10)	BITSTRING	1	SAPSSS2	Shadow of caller's SSOB extension

Table 464. Structure SAPID (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
16	(10)	X'38'	0	SAPECBP	"SAPSSS2+SSS2ECBP-SSS2,L'SSS2ECBP,C'A'"
1176	(498)	BITSTRING	4	SAPROUTE	<----+ Selection route code in form nnrr
1180	(49C)	CHARACTER	8	SAPUSER	<----+ and userid
1188	(4A4)	SIGNED	4	SAPJNOLO	Low job number for selection
1192	(4A8)	SIGNED	4	SAPJNOHI	High job number for selection
1196	(4AC)	CHARACTER	8	SAPJCHLO	Low char version of job id
1204	(4B4)	CHARACTER	8	SAPJCHHI	High char version of job id
1212	(4BC)	BITSTRING	4	SAPROUTN	New route code for group requests
1216	(4C0)	CHARACTER	8	SAPUSERN	New userid for group requests
1224	(4C8)	SIGNED	4	SAPRETN	SSOBRETN equivalent
1228	(4CC)	BITSTRING	8	SAPPRIV	Copied to the SSS2
1236	(4D4)	ADDRESS	4	SAPASCB	COM.ASCB address of SAPI address space
1240	(4D8)	BITSTRING	8	SAPASCBT	Address space token
1240	(4D8)	X'4D8'	0	SAPWRASI	"SAPASCBT,L'SAPASCBT" Address space level JWEL
1248	(4E0)	ADDRESS	4	SAPTCB	UAS.TCB address of last SAPID user
1252	(4E4)	ADDRESS	4	SAPOTCB	UAS.Owning TCB address (TCB which created the SAPID)
1256	(4E8)	ADDRESS	4	SAPIOT	UAS.Address of current IOT
1260	(4EC)	ADDRESS	4	SAPIOTPA	UAS.Address of previous IOT
1264	(4F0)	ADDRESS	4	SAPJCT	UAS.Address of current JCT
1268	(4F4)	ADDRESS	4	SAPCHK	UAS.Address of current CHK
1272	(4F8)	ADDRESS	4	SAPWAVE	UAS.Address of WAVE
1276	(4FC)	ADDRESS	4	SAPBTOK	UAS.Address of SPOOL browse token
1280	(500)	ADDRESS	4	SAPACCT	UAS.Addr of accounting information
1284	(504)	ADDRESS	4	SAPDTKN	UAS.Addr of Data set token
1288	(508)	ADDRESS	4	SAPNJH	UAS.Addr of NJE job header
1292	(50C)	ADDRESS	4	SAPNDH	UAS.Addr of NJE data set header
1296	(510)	ADDRESS	4	SAPSWB	UAS.Addr of SWBTU buffer
1300	(514)	ADDRESS	4	SAPJOA	UAS.Addr of JOA
1304	(518)	ADDRESS	8	SAPTJEVA	TJE.Addr of JOE exclusion vector for this thread
1312	(520)	BITSTRING	8	SAPSWBTK	SJF token for non-SWA SWBs
1320	(528)	BITSTRING	6	SAPANCHR	MQTR of first regular IOT
1326	(52E)	BITSTRING	6	SAPIOTW	MQTR of IOT waiting in the "wings"
1332	(534)	BITSTRING	6	SAPIOTC	MQTR of current IOT
1338	(53A)	BITSTRING	6	SAPIOTF	MQTR of first IOT for JOE
1344	(540)	BITSTRING	6		Reserved for future use
1350	(546)	SIGNED	2	SAPPDDBW	Offset of PDDB waiting in the "wings" (See routine CSPNPDDB in HASCSAPI)
1352	(548)	SIGNED	2	SAPPDDBO	Offset of current PDDB
1354	(54A)	SIGNED	2	SAPPDDBF	Offset of first PDDB
1356	(54C)	SIGNED	4		Reserved for future use
1360	(550)	ADDRESS	4	SAPSJB	COM.Address of SJB

Table 464. Structure SAPID (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1364	(554)	ADDRESS	4	SAPSDB	COM.Address of SDB
1368	(558)	ADDRESS	4	SAPMTRB	COM.Address of MTRB representing this request
1372	(55C)	SIGNED	4	SAPWKOFF	Offset of work JOE into JOT
1376	(560)	SIGNED	4	SAPWJTOF	Offset of work JOE matching the SYSOUT token
		PDDB work areas below have standard JES2 prefix (see $CSBPRFX in $HASPEQU). Work area address point to a start of PDDB in a work area. Work areas are allocated in the private storage of the address space which initiated SAPI session and therefore is not easily accessible outside of that address space.			
1380	(564)	ADDRESS	4	SAPPDDB	Copy of currently allocated PDDB
1384	(568)	SIGNED	4	SAPPDDBM	Max size of PDDB which will fit in SAPPDDB
1388	(56C)	ADDRESS	4	SAPPDDB2	Copy of PDDB after the current PDDB (if any)
1392	(570)	SIGNED	4	SAPPDB2M	Max size of PDDB which will fit in SAPPDDB2
1396	(574)	SIGNED	4	SAPRJOEO	Offset of $TREGROUP JOE
1400	(578)	SIGNED	4	(4)	Reserved for future use
1416	(588)	BITSTRING	180	SAPWKJOA	Copy of WORK/CHAR JOA (never modified)
1596	(63C)	BITSTRING	1	SAPJQEAR	Copy of JQE (no SPOOLs mask)
1596	(63C)	X'64C'	0	SAPJBKEY	"SAPJQEAR+JQEJBKEY-JQE,L'JQEJBKEY" Job key
1692	(69C)	BITSTRING	180	SAPWWJOA	Working WORK/CHAR JOA Updated at PUT-GET TIME in the user ADDRESS SPACE
1872	(750)	BITSTRING	180	SAP2WJOA	2nd Working WORK/CHAR JOA updated at unallocation TIME IN the user address space
2052	(804)	BITSTRING	80	SAPCTKN	Copy of client or JOE token
2132	(854)	BITSTRING	576	SAPWSP	Copy of WSP used for $#GET
2708	(A94)	BITSTRING	228	SAPWS	EBCDIC WS list
2936	(B78)	DBL WORD	8	(0)	
2936	(B78)	SIGNED	2	SAP#SKIP	Number of PDDBs skipped for SAF reasons
2938	(B7A)	SIGNED	2	SAP#PDDB	Number of PDDBs processed within the current JOE. Meaningless IF SAPJCOMP is on.
2940	(B7C)	SIGNED	2	SAPCLFT	Number of copies left for the last PDDB in this grp
2942	(B7E)	SIGNED	2	SAPONODE	Origin node for selection
2944	(B80)	BITSTRING	8	SAPRBA	RBA for last PDDB in group (SAP2CHKP must be set)
2952	(B88)	ADDRESS	1	SAPTYPE	Application call type
2953	(B89)	CHARACTER	8	SAPAPPL	Application thread name
2961	(B91)	CHARACTER	8	SAPJNAME	Job name of the application
2969	(B99)	CHARACTER	8	SAPJOBID	Application jobid
2977	(BA1)	CHARACTER	8	SAPCHKEY	Application CSCB CHKEY
2985	(BA9)	BITSTRING	3		Reserved for future use

Table 464. Structure SAPID (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2988	(BAC)	SIGNED	4	SAPWRNUM	Unique number identifying this SAPID. Used in JWEL tables. High order bit always on to differentiate from DCT addresses
2992	(BB0)	BITSTRING	1	SAPFLAG2	Miscellaneous flags
		1...		SAP2UNAV	"B'10000000'" Data set not available
		.1..		SAP2COPY	"B'01000000'" User's SSS2 copied to SAPID
		..1.		SAP2NPRO	"B'00100000'" PDDB at offset SAPPDDBO not yet given to caller but been SAF verified ==> SAPPDDB2 validated
		...1		SAP2END	"B'00010000'" No more PDDBs this JOE
		.... 1...		SAP2NEW	"B'00001000'" The JOE associated with this SAPID has changed (either there is a new JOE or there is no JOE)
		.... .1..		SAP2NEWS	"B'00000100'" This is NEWS PDDB
		.... ..1.		SAP2CHKP	"B'00000010'" SAPRBA is valid
		1		SAP2NCKU	"B'00000001'" Do not update CHK
2993	(BB1)	CHARACTER	1	SAPMCLAS	Message class of job
2994	(BB2)	BITSTRING	1	SAPFLAG3	More miscellaneous flags information
		1...		SAP3VTOK	"B'10000000'" D S obtained via token
		.1..		SAP3DNFJ	"B'01000000'" Do not find new JOE
		..1.		SAP3GENC	"B'00100000'" Low job id has a generic
		...1		SAP3GEN1	"B'00010000'" Low job id has generic '*' as the first char
		.... 1...		SAP3SYSH	"B'00001000'" Put JOE in system hold
		.... .1..		SAP3IOEH	"B'00000100'" Put JOE in system hold because of I/O error
2995	(BB3)	SIGNED	1	SAPREAS	Reason code for SSS2EODS
2996	(BB4)	BITSTRING	4		Reserved for future use
3000	(BB8)	DBL WORD	8	SAPSTCK	STCK when application last made an SSI call
3008	(BC0)	CHARACTER	64	SAPCJCOR	Job correlator from caller work selection criteria
3072	(C00)	CHARACTER	64	SAPJCOR	Job correlator of selected job
3136	(C40)	DBL WORD	8	(0)	Double word aligned
3136	(C40)	X'C40'	0	SAPLEN	"*-SAPID" Length of SAPID dsect

Table 465. Structure TJEV

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	TJEV	
0	(0)	CHARACTER	4	TJEEYE	Eye catcher

Table 465. Structure TJEV (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	ADDRESS	4	TJESAP	SAP.Address of corresponding SAPID
8	(8)	BITSTRING	1	TJEJOES(0)	Exclusion indicators
312512	(4C4C0)	DBL WORD	8	(0)	Double word aligned
312512	(4C4C0)	X'4C4C0'	0	TJELEN	"*-TJEV" Length of TJEV

Table 466. Cross Reference for $SAPID

Name	Offset	Hex Tag
SAP#PDDB	B7A	
SAP#SKIP	B78	
SAPACCT	500	
SAPANCHR	528	
SAPAPPL	B89	
SAPASCB	4D4	
SAPASCBT	4D8	
SAPBTOK	4FC	
SAPCHK	4F4	
SAPCHKEY	BA1	
SAPCJCOR	BC0	
SAPCKEY	8	
SAPCLFT	B7C	
SAPCTKN	804	
SAPDTKN	504	
SAPECBP	10	38
SAPEYE	0	5BE2C1D7
SAPFLAGJ	5	
SAPFLAG1	4	
SAPFLAG2	BB0	
SAPFLAG3	BB2	
SAPFLGJ2	6	
SAPID	0	
SAPIOT	4E8	
SAPIOTC	534	
SAPIOTF	53A	
SAPIOTPA	4EC	
SAPIOTW	52E	
SAPJALLO	5	20
SAPJASH	5	2
SAPJBKEY	63C	64C
SAPJBUST	5	1
SAPJCHHI	4B4	
SAPJCHLO	4AC	
SAPJCOMP	5	80
SAPJCOR	C00	
SAPJCT	4F0	
SAPJCTRL	5	8
SAPJFINI	5	10
SAPJNAME	B91	

Table 466. Cross Reference for $SAPID (continued)

Name	Offset	Hex Tag
SAPJNOHI	4A8	
SAPJNOLO	4A4	
SAPJOA	514	
SAPJOBID	B99	
SAPJQEAR	63C	
SAPJSAF	5	40
SAPJ2CKE	6	1
SAPJ2CKV	6	2
SAPJ2OLD	6	40
SAPJ2PRI	6	4
SAPJ2SFP	6	20
SAPJ2SON	6	8
SAPJ2TH	6	80
SAPLEN	C40	C40
SAPMCLAS	BB1	
SAPMSTRV	7	
SAPMTRB	558	
SAPNDH	50C	
SAPNEXT	C	
SAPNJH	508	
SAPONODE	B7E	
SAPOTCB	4E4	
SAPPDB2M	570	
SAPPDDB	564	
SAPPDDBF	54A	
SAPPDDBM	568	
SAPPDDBO	548	
SAPPDDBW	546	
SAPPDDB2	56C	
SAPPRIV	4CC	
SAPRBA	B80	
SAPREAS	BB3	
SAPRETN	4C8	
SAPRJOEO	574	
SAPROUTE	498	
SAPROUTN	4BC	
SAPSDB	554	
SAPSJB	550	
SAPSSS2	10	
SAPSTCK	BB8	
SAPSWB	510	
SAPSWBTK	520	
SAPTCB	4E0	
SAPTJEVA	518	
SAPTYPE	B88	
SAPUSER	49C	
SAPUSERN	4C0	
SAPWAVE	4F8	
SAPWJTOF	560	

Table 466. Cross Reference for $SAPID (continued)

Name	Offset	Hex Tag
SAPWKJOA	588	
SAPWKOFF	55C	
SAPWRASI	4D8	4D8
SAPWRNUM	BAC	
SAPWS	A94	
SAPWSP	854	
SAPWWJOA	69C	
SAP1BJWL	4	1
SAP1GAVE	4	40
SAP1HOT	4	8
SAP1JWEL	4	2
SAP1PCE	4	4
SAP1RQUE	4	80
SAP1TERM	4	10
SAP1WSPV	4	20
SAP2CHKP	BB0	2
SAP2COPY	BB0	40
SAP2END	BB0	10
SAP2NCKU	BB0	1
SAP2NEW	BB0	8
SAP2NEWS	BB0	4
SAP2NPRO	BB0	20
SAP2UNAV	BB0	80
SAP2WJOA	750	
SAP3DNFJ	BB2	40
SAP3GENC	BB2	20
SAP3GEN1	BB2	10
SAP3IOEH	BB2	4
SAP3SYSH	BB2	8
SAP3VTOK	BB2	80
TJEEYE	0	E3D1C5E5
TJEJOES	8	
TJELEN	4C4C0	4C4C0
TJESAP	4	
TJEV	0	

Chapter 189. $SBWA Information

$SBWA Heading Information

Common Name:	Hasp Spool Browse Work Area
Macro ID:	$SBWA
DSECT Name:	SBWA
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	SBWA Offset: SBWAID-SBWA Length: 4
Storage Attributes:	Subpool: 231 Key: 0 Residency: Virtual - Anywhere Real - Anywhere
Size:	See SBWASIZE
Created by:	SVCSRB (HASCHAM)
Pointed to by:	SRBPARM field of the SRB data area
Serialization:	None required
Function:	The $SBWA data area provides the mapping DSECT for the data areas used for passing the "unwritten buffer" from a job's address space to CSA so HASCHAM can pass records to the user.

$SBWA mapping

Table 467. Structure SBWA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SBWA	SPOOL BROWSE WORK AREA
0	(0)	CHARACTER	4	SBWAID	$SBWA IDENTIFIER
4	(4)	ADDRESS	4	SBWAHCCT	Address of the HCCT
8	(8)	SIGNED	4	SBWAMTTR	TRACK ADDRESS OF BUFFER
12	(C)	ADDRESS	4	SBWAFSDB	FIRST SDB OF JOB W/ BUFFER
16	(10)	DBL WORD	8	SBWAKEY(0)	UNIQUE KEY FOR BUFFER
16	(10)	SIGNED	4	SBWAJKEY	JOB KEY FOR BUFFER
20	(14)	SIGNED	4	SBWADKEY	DATA SET KEY FOR BUFFER
24	(18)	CHARACTER	4	SBWAMEMB	Owning member name
28	(1C)	ADDRESS	4	SBWAHSXB	Target HASXB address
32	(20)	BITSTRING	8	SBWASTKN	Target address space token
40	(28)	BITSTRING	1	SBWAQNUM	PBF Queue counter
42	(2A)	SIGNED	2	SBWASID	Target ASID
44	(2C)	BITSTRING	1	SBWAMEMN	Owning member number
46	(2E)	SIGNED	2	SBWAWKAL	LENGTH OF WORK AREA
48	(30)	SIGNED	2	SBWABFSZ	LENGTH OF IO BUFFER
50	(32)	BITSTRING	1	SBWAFLG1	UBSR flags
		1...		SBWAISDB	"B'10000000'" Invalid SDB
		.1..		SBWAFSD	"B'01000000'" SDB found
		..1.		SBWAIBFD	"B'00100000'" Invalid BFD
		...1		SBWAFBFD	"B'00010000'" BFD found

Table 467. Structure SBWA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
51	(33)	BITSTRING	1	SBWAFLG2	Data set information
		1...		SBWA2SPB	"B'10000000'" Spool browse
		.1..		SBWA2JLG	"B'01000000'" Job log data set
		..1.		SBWA2ARQ	"B'00100000'" ASINFO requested
		...1		SBWA2ART	"B'00010000'" ASINFO returned
52	(34)	BITSTRING	2		Reserved for alignment
56	(38)	ADDRESS	4	SBWALOC	BFDLOC for copied buffer
60	(3C)	ADDRESS	4	SBWASCDR	SDBSCDR for copied buffer
		Information on Executing Step This information is returned with the unwritten buffer when the data set being read is EVENTLOG.			
64	(40)	BITSTRING	1	SBWAASIN	ASINFO (IAZLGSTP mapped)
		Parameter list for SJB ENQ			
276	(114)	CHARACTER	12	SBWAMINN	SJB ENQ minor name
		MACRO-DATE = 03/16/15			
288	(120)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
288	(120)	ADDRESS	4		PREFIX - TCB ADDRESS X02113
292	(124)	ADDRESS	4		PREFIX - ECB ADDRESS
292	(124)	X'128'	0	SBWAENQ	"*" X02113
296	(128)	ADDRESS	1		PELLAST flag byte. X02113
297	(129)	ADDRESS	1		PELMILEN - RNAME length.
298	(12A)	BITSTRING	1		
		PELFLAG - flag byte 2.			
299	(12B)	ADDRESS	1		PELRET - return code byte.
300	(12C)	ADDRESS	4		QNAME ADDRESS
304	(130)	ADDRESS	4		RNAME ADDRESS
304	(130)	X'C'	0	SBWAENQL	"*-SBWAENQ"
308	(134)	BITSTRING	8	SBWAWORK	Work area
		ERROR EQUATE VALUES FROM UBSRB AND SVCSRB. When adding a new return code, there are two branch tables which need to be updated: 1. HASCHAM: near label PRSRCBT 2. HASCSISC: near label SIOSRBOK			
316	(13C)	SIGNED	4	SBWARETC	RETURN CODE FROM SRB
316	(13C)	X'0'	0	SBWAOK	"0" PROCESSING SUCCESSFUL
316	(13C)	X'4'	0	SBWABFNF	"4" BUFFER NOT FOUND
316	(13C)	X'8'	0	SBWAINBF	"8" INVALID BUFFER
316	(13C)	X'C'	0	SBWASDNF	"12" SDB NOT FOUND
316	(13C)	X'10'	0	SBWAINSD	"16" INVALID SDB
316	(13C)	X'14'	0	SBWASRBF	"20" SRB FAILURE
316	(13C)	X'18'	0	SBWANBWA	"24" No storage for SBWA
316	(13C)	X'1C'	0	SBWANES1	"28" ESTAE1 not established
316	(13C)	X'20'	0	SBWASJNF	"32" SJB not found
316	(13C)	X'24'	0	SBWAINHB	"36" Invalid HASB
316	(13C)	X'28'	0	SBWAINSJ	"40" Invalid SJB
316	(13C)	X'2C'	0	SBWAPRNF	"44" Point record not found
316	(13C)	X'30'	0	SBWANDAT	"48" Dataset never written to
316	(13C)	X'30'	0	SBWAMXRC	"SBWANDAT" Largest valid return code

Table 467. Structure SBWA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Return status information from IEAMSCHD Values returned in SBWASCCC: 0 Successful Completion 8 SRB ABENDed and there is an associated reason code. 12 SRB ABENDed and there is no associated reason code. 16 SRB Purged by PurgeDQ Processing. 20 Undetermined. The SRB did not complete, but was dispatched -- MEMTERM and/or DATERR probable cause. 24 SRB was not scheduled, Return Code is in SBWASCRC. 28 SRB was not scheduled, ABEND Code is in SBWASCRC. 32 SRB was scheduled, however the caller's workunit was ABENDed while suspended waiting for the SYNCH(YES) SRB to complete. (' <- needed to make PLX compile work) Meaning of SBWASCRC based on SBWASCCC values: SBWASCCC SBWASCRC value 0 Register 15 when SRB completed. 8 ABEND Code (Same format as SDWAABCC.) 12 ABEND Code (Same format as SDWAABCC.) 16 -1 20 -1 24 Return Code propagated from the SUSPEND service. The SRB was not scheduled because this workunit could not be successfully suspended. 28 ABEND Code propagated from the SUSPEND service. The SRB was not scheduled because this workunit could not be successfully suspended. 32 ABEND Code that the workunit received when it was awaken from the Suspend. Meaning of SBWASCRS based on SBWASCCC values: SBWASCCC SBWASCRS value 0 Register 0 when SRB completed. 8 Reason Code associated with an ABEND Code. 12 -1 16 -1 20 -1 24 -1 28 Reason Code associated with a ABEND code from the attempting to suspend the current workunit. 32 Reason Code associated with the ABEND Code that the workunit received when it was awaken from the Suspend.			
320	(140) ADDRESS	4	SBWASCC@	SRB Completion code address
324	(144) ADDRESS	4	SBWASCR@	SRB Return code address
328	(148) ADDRESS	4	SBWASCS@	SRB Reason code address
332	(14C) SIGNED	4	SBWASCCC	SRB completion code

Table 467. Structure SBWA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
336	(150)	SIGNED	4	SBWASCRC	SRB Return code
340	(154)	SIGNED	4	SBWASCRS	SRB Reason code
	Parameter list for IEAMSCHD				
344	(158)	ADDRESS	4	SBWASRTN	Address of SRB routine
348	(15C)	ADDRESS	4	SBWASBWA	Address of this SBWA
352	(160)	DBL WORD	8	(0)	Align parm list MACDATE -05/03/13-<4>
0	(0)	X'160'	0	M00M1349	"SBWASCHA" ++ IEAMSCHD NAME
352	(160)	DBL WORD	8	SBWASCHA(0)	++ IEAMSCHD PARM LIST
352	(160)	BITSTRING	1	SBWASCHA_XVERSION	++ INPUT XVERSION
353	(161)	BITSTRING	1	SBWASCHA_XFLAG1	++ FIELD_LABEL
		.... 1...		SBWASCHA_XENV_STOKEN	"B'00001000'" ++ XENV.STOKEN KEYWORD
		.... .1..		SBWASCHA_XENV_FULLXM	"B'00000100'" ++ XENV.FULLXM KEYWORD
		.... ..1.		SBWASCHA_XENV_PRIMARY	"B'00000010'" ++ XENV.PRIMARY KEYWORD
		1		SBWASCHA_XENV_HOME	"B'00000001'" ++ XENV.HOME KEYWORD
354	(162)	BITSTRING	1	SBWASCHA_XFLAG2	++ FIELD_LABEL
		1...		SBWASCHA_XTRANSFER_YES	"B'10000000'" ++ XTRANSFER.YES KEYWORD
		.1..		SBWASCHA_KEYUSED_SRBIDTOKEN	"B'01000000'" ++ KEYUSED.SRBIDTOKEN KEYWORD
		..1.		SBWASCHA_KEYUSED_DUALPOOLTOKEN	"B'00100000'" ++ KEYUSED.DUALPOOLTOKEN KEYWORD
		...1		SBWASCHA_XSYNCH_YES	"B'00010000'" ++ XSYNCH.YES KEYWORD
		.... 1...		SBWASCHA_KEYUSED_KEYVALUE	"B'00001000'" ++ KEYUSED.KEYVALUE KEYWORD
		.... .1..		SBWASCHA_XLLOCK_YES	"B'00000100'" ++ XLLOCK.YES KEYWORD
		.... ..1.		SBWASCHA_XFEATURE_CPMASK	"B'00000010'" ++ XFEATURE.CPMASK KEYWORD
		1		SBWASCHA_XFEATURE_CRYPTO	"B'00000001'" ++ XFEATURE.CRYPTO KEYWORD
355	(163)	BITSTRING	1	SBWASCHA_XFLAG3	++ FIELD_LABEL
		..1.		SBWASCHA_XPRIORITY_CLIENT	"B'00100000'" ++ XPRIORITY.CLIENT KEYWORD
		...1		SBWASCHA_XPRIORITY_ENCLAVE	"B'00010000'" ++ XPRIORITY.ENCLAVE KEYWORD
		.... 1...		SBWASCHA_XPRIORITY_PREEMPT	"B'00001000'" ++ XPRIORITY.PREEMPT KEYWORD
		.... .1..		SBWASCHA_XPRIORITY_CURRENT	"B'00000100'" ++ XPRIORITY.CURRENT KEYWORD
		.... ..1.		SBWASCHA_XPRIORITY_GLOBAL	"B'00000010'" ++ XPRIORITY.GLOBAL KEYWORD
		1		SBWASCHA_XPRIORITY_LOCAL	"B'00000001'" ++ XPRIORITY.LOCAL KEYWORD
356	(164)	ADDRESS	4	SBWASCHA_XEPADDR	++
360	(168)	BITSTRING	8	SBWASCHA_XTARGETSTOKEN	++

Table 467. Structure SBWA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
368	(170)	CHARACTER	8	SBWASCHA_XENCLAVETOKEN	++
376	(178)	BITSTRING	1	SBWASCHA_XMINORPRIORITY	++
377	(179)	BITSTRING	1	SBWASCHA_XKEYVALUE	++
378	(17A)	BITSTRING	2	SBWASCHA_XCPUMASK	++
380	(17C)	SIGNED	4	SBWASCHA_XPARM	++
384	(180)	ADDRESS	4	SBWASCHA_XFRRADDR	++
388	(184)	ADDRESS	4	SBWASCHA_XRMTRADDR	++
392	(188)	BITSTRING	8	SBWASCHA_XPURGESTOKEN	++
400	(190)	ADDRESS	4	SBWASCHA_XPTCBADDR	++
404	(194)	BITSTRING	8	SBWASCHA_XCLIENTSTOKEN	++
412	(19C)	ADDRESS	4	SBWASCHA_XSYNCHCOMPADDR	++
416	(1A0)	ADDRESS	4	SBWASCHA_XSYNCHCODEADDR	++
420	(1A4)	ADDRESS	4	SBWASCHA_XSYNCHRSNADDR	++
424	(1A8)	CHARACTER	16	SBWASCHA_XDUALPOOLTOKEN	++
424	(1A8)	X'1B8'	0	SBWASCHA_PL_END	"*" ++ END OF BASE PLIST
384	(180)	CHARACTER	3	SBWASCHA_XRSV0001	++ RESERVED
387	(183)	BITSTRING	1	SBWASCHA_XFRRFLAG	++ FIELD_LABEL
		1		SBWASCHA_XSDWALOC31_YES	"B'00000001'" ++ XSDWALOC31.YES KEYWORD
440	(1B8)	X'58'	0	SBWASCHAL	"*-SBWASCHA" ++ LENGTH OF PLIST
				IEAMSCHD-4	
Footprint area for HASCUBSR					
440	(1B8)	BITSTRING	0	SBWASROA(0)	Output area from the SRB for debugging. Keep fields SBWASDBA through SBWABATA together.
440	(1B8)	ADDRESS	4	SBWASDBA	---+ A(SDB) that matches the key
444	(1BC)	ADDRESS	4	SBWAPBF	| SDBPBF
448	(1C0)	ADDRESS	4	SBWAPBFI	| Inflight PBF buffer address
452	(1C4)	ADDRESS	4	SBWABPTR	| Address of found buffer
456	(1C8)	SIGNED	4	SBWABTRK	| MTTR of found buffer
460	(1CC)	ADDRESS	4	SBWABDBF	| Address of invalid buffer
464	(1D0)	ADDRESS	4	SBWABDSD	| Address of invalid SDB
468	(1D4)	ADDRESS	4	SBWABATF	| BATPBF if checking this Q
472	(1D8)	ADDRESS	4	SBWABATA	---+ BATPBFA if checking this Q
472	(1D8)	X'24'	0	SBWAOLEN	"*-SBWASDBA" Length of output area
476	(1DC)	SIGNED	4	SBWARSV1	RESERVED
480	(1E0)	SIGNED	4	SBWARSV2	RESERVED
484	(1E4)	SIGNED	4	SBWARSV3	RESERVED
488	(1E8)	BITSTRING	1	SBWAEND(0)	
488	(1E8)	X'1E8'	0	SBWASIZE	"SBWAEND-SBWA" SIZE OF $SBWA DATA AREA
488	(1E8)	X'1E8'	0	SBWABFFR	"*" LOCATION OF BUFFER FOR MOVE

Table 468. Cross Reference for $SBWA

Name	Offset	Hex Tag
M00M1349	0	160
SBWA	0	
SBWAASIN	40	
SBWABATA	1D8	

Table 468. Cross Reference for $SBWA (continued)

Name	Offset	Hex Tag
SBWABATF	1D4	
SBWABDBF	1CC	
SBWABDSD	1D0	
SBWABFFR	1E8	1E8
SBWABFNF	13C	4
SBWABFSZ	30	
SBWABPTR	1C4	
SBWABTRK	1C8	
SBWADKEY	14	
SBWAEND	1E8	
SBWAENQ	124	128
SBWAENQL	130	C
SBWAFBFD	32	10
SBWAFLG1	32	
SBWAFLG2	33	
SBWAFSD	32	40
SBWAFSDB	C	
SBWAHCCT	4	
SBWAHSXB	1C	
SBWAIBFD	32	20
SBWAID	0	
SBWAINBF	13C	8
SBWAINHB	13C	24
SBWAINSD	13C	10
SBWAINSJ	13C	28
SBWAISDB	32	80
SBWAJKEY	10	
SBWAKEY	10	
SBWALOC	38	
SBWAMEMB	18	
SBWAMEMN	2C	
SBWAMINN	114	E2D1C24B
SBWAMTTR	8	
SBWAMXRC	13C	30
SBWANBWA	13C	18
SBWANDAT	13C	30
SBWANES1	13C	1C
SBWAOK	13C	0
SBWAOLEN	1D8	24
SBWAPBF	1BC	
SBWAPBFI	1C0	
SBWAPRNF	13C	2C
SBWAQNUM	28	
SBWARETC	13C	
SBWARSV1	1DC	
SBWARSV2	1E0	
SBWARSV3	1E4	
SBWASBWA	15C	
SBWASCC@	140	

Table 468. Cross Reference for $SBWA (continued)

Name	Offset	Hex Tag
SBWASCCC	14C	
SBWASCDR	3C	
SBWASCHA	160	
SBWASCHA_KEYUSED_DUALPOOLTOKEN	162	20
SBWASCHA_KEYUSED_KEYVALUE	162	8
SBWASCHA_KEYUSED_SRBIDTOKEN	162	40
SBWASCHA_PL_END	1A8	1B8
SBWASCHA_XCLIENTSTOKEN	194	
SBWASCHA_XCPUMASK	17A	
SBWASCHA_XDUALPOOLTOKEN	1A8	
SBWASCHA_XENCLAVETOKEN	170	
SBWASCHA_XENV_FULLXM	161	4
SBWASCHA_XENV_HOME	161	1
SBWASCHA_XENV_PRIMARY	161	2
SBWASCHA_XENV_STOKEN	161	8
SBWASCHA_XEPADDR	164	
SBWASCHA_XFEATURE_CPMASK	162	2
SBWASCHA_XFEATURE_CRYPTO	162	1
SBWASCHA_XFLAG1	161	
SBWASCHA_XFLAG2	162	
SBWASCHA_XFLAG3	163	
SBWASCHA_XFRRADDR	180	
SBWASCHA_XFRRFLAG	183	
SBWASCHA_XKEYVALUE	179	
SBWASCHA_XLLOCK_YES	162	4
SBWASCHA_XMINORPRIORITY	178	
SBWASCHA_XPARM	17C	
SBWASCHA_XPRIORITY_CLIENT	163	20
SBWASCHA_XPRIORITY_CURRENT	163	4
SBWASCHA_XPRIORITY_ENCLAVE	163	10
SBWASCHA_XPRIORITY_GLOBAL	163	2
SBWASCHA_XPRIORITY_LOCAL	163	1
SBWASCHA_XPRIORITY_PREEMPT	163	8
SBWASCHA_XPTCBADDR	190	
SBWASCHA_XPURGESTOKEN	188	
SBWASCHA_XRMTRADDR	184	
SBWASCHA_XRSV0001	180	
SBWASCHA_XSDWALOC31_YES	183	1
SBWASCHA_XSYNCH_YES	162	10
SBWASCHA_XSYNCHCODEADDR	1A0	
SBWASCHA_XSYNCHCOMPADDR	19C	
SBWASCHA_XSYNCHRSNADDR	1A4	
SBWASCHA_XTARGETSTOKEN	168	
SBWASCHA_XTRANSFER_YES	162	80
SBWASCHA_XVERSION	160	
SBWASCHAL	1B8	58
SBWASCR@	144	
SBWASCRC	150	
SBWASCRS	154	

Table 468. Cross Reference for $SBWA (continued)

Name	Offset	Hex Tag
SBWASCS@	148	
SBWASDBA	1B8	
SBWASDNF	13C	C
SBWASID	2A	
SBWASIZE	1E8	1E8
SBWASJNF	13C	20
SBWASRBF	13C	14
SBWASROA	1B8	
SBWASRTN	158	
SBWASTKN	20	
SBWAWKAL	2E	
SBWAWORK	134	
SBWA2ARQ	33	20
SBWA2ART	33	10
SBWA2JLG	33	40
SBWA2SPB	33	80

Chapter 190. $SCAND Information

$SCAND Programming Interface Information

$SCAND is a programming interface.

$SCAND Heading Information

Common Name:	$SCAND parameter list
Macro ID:	$SCAND
DSECT Name:	SCDW
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	None
Storage Attributes:	Subpool: any Key: 0 or 1 Residency: Virtual and real storage are below 2G, in private storage.
Size:	See SCDWLEN
Created by:	$SCAND list form
Pointed to by:	Register 15 on entry to the $SCAND service
Serialization:	N/A
Function:	Maps the parameters specified for the $SCAND service

$SCAND mapping

Table 469. Structure SCDW

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SCDW	Map the $SCAND DSECT
0	(0)	ADDRESS	4	SCDWFLD	Address of field to display
4	(4)	ADDRESS	4	SCDWFLDA	ALET associated with field
8	(8)	SIGNED	2	SCDWFLDL	Field length
10	(A)	SIGNED	2	SCDWWDTH	Width
12	(C)	BITSTRING	1	SCDWOPT1	$SCAND options 1
		1...		SCDW1DBK	"B'10000000'" BREAK OPTION REQUESTED
		.1..		SCDW1DBL	"B'01000000'" DEBLANKING OPTION REQUESTED
		..1.		SCDW1DMK	"B'00100000'" MARK TEXT FOR BACKOUT
		...1		SCDW1DCR	"B'00010000'" CRLF was requested
		.... 1...		SCDW1NBN	"B'00001000'" Disallow break on next display at this level
		.... .1..		SCDW1NIN	"B'00000100'" Do not indent this line
13	(D)	BITSTRING	1	SCDWOPT2	$SCAND options 2
		1...		SCDW2LTC	"B'10000000'" Control line->WPLLTFA
		.1..		SCDW2LTL	"B'01000000'" Label line--->WPLLTFB

Table 469. Structure SCDW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		SCDW2LTD	"B'00100000'" Data line---->WPLLTFC
		...1		SCDW2LTE	"B'00010000'" End line----->WPLLTFD
		.... 1...		SCDW2BKS	"B'00001000'" BRKOPT=STAB specified
14	(E)	BITSTRING	1	SCDWCNV1	Conversion flags 1 (Maps to STABCNV1)
15	(F)	BITSTRING	1	SCDWCNV2	Conversion flags 2 (Maps to STABCNV2)
16	(10)	BITSTRING	1	SCDWCNV3	Conversion flags 3 (Maps to STABCNV3)
17	(11)	BITSTRING	1	SCDWCNV4	Conversion flags 4 (Maps to STABCNV4)
18	(12)	SIGNED	4	SCDWMULT	Multiplier
18	(12)	X'16'	0	SCDWLEN	"*-SCDW" Length of parameter list

Table 470. Cross Reference for $SCAND

Name	Offset	Hex Tag
SCDW	0	
SCDWCNV1	E	
SCDWCNV2	F	
SCDWCNV3	10	
SCDWCNV4	11	
SCDWFLD	0	
SCDWFLDA	4	
SCDWFLDL	8	
SCDWLEN	12	16
SCDWMULT	12	
SCDWOPT1	C	
SCDWOPT2	D	
SCDWWDTH	A	
SCDW1DBK	C	80
SCDW1DBL	C	40
SCDW1DCR	C	10
SCDW1DMK	C	20
SCDW1NBN	C	8
SCDW1NIN	C	4
SCDW2BKS	D	8
SCDW2LTC	D	80
SCDW2LTD	D	20
SCDW2LTE	D	10
SCDW2LTL	D	40

Chapter 191. $SCANWA Information

$SCANWA Programming Interface Information

$SCANWA is a programming interface.

$SCANWA Heading Information

Common Name:	$SCAN Facility Work Area
Macro ID:	$SCANWA
DSECT Name:	SCWA, SCWABA, SCWADA, XWCWA
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	"SCWA" or "TEMP" Offset: SCWAID-SCWA Length: L'SCWAID
Storage Attributes:	Subpool: 1 Key: 1 Residency: Virtual and real storage are above 16M, in the private storage of the JES2 address space.
Size:	See SCWALEN, SCWALEND
Created by:	$SCAN macro expansion (normal SCWAs) $SCANB service (backup SCWAs) $SCAND service (display SCWAs) Internal $SCAN processing (filter and subscript SCWAs)
Pointed to by:	R1 on entry to prescan and postscan exits SCWAPWA field of the $SCANWA data area SCWADNWA field of the $SCANWA data area SCWADPWA field of the $SCANWA data area SCWABNWA field of the $SCANWA data area SCWABPWA field of the $SCANWA data area SCWAFNWA field of the $SCANWA data area SCWASNWA field of the $SCANWA data area SCWAOLDP field of the $SCANWA data area SCWAWCWA field of the $SCANWA data area
Serialization:	None required.

$SCANWA Heading Information

Function: The SCWA is used as a general work area for $SCAN.
There are several types of SCWAs:
1) Normal SCWAs - these contain general information regarding the parsing of a string (for example, pointers and lengths of text within the string, subscript and control block information, etc.) One normal SCWA exists for each recursive level of $SCAN used in parsing a particular string.
2) Display SCWAs - these are chained to the "oldest" normal SCWA and contain text to be displayed on a $SCAN display request, specified by the $SCAND macro. This text is represented by smaller units within the display SCWA (SCWADAs), which contain additional information, such as whether it is allowed (or required) to begin a new display line.
3) Backup SCWAs - contain original values of fields modified by $SCAN, and are used to restore the original value in case of an error. The backup SCWA is broken up into smaller units (SCWABAs), which contain additional information, such as the length, address, and original value of the backed-up field.
4) Filter SCWAs - keep track of which keywords are specified as filters in the $SCAN input string.
5) Subscript SCWAs - keep track of additional subscripts or ranges of subscripts in the $SCAN input string.

$SCANWA mapping

Table 471. Structure SCWA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SCWA	INTERNAL SCAN WORK AREA DSECT
0	(0)	CHARACTER	4	SCWAID	EBCDIC CONTROL BLOCK ID, SET BY $GETWORK VIA USE=SCWA
4	(4)	ADDRESS	4	SCWADPWA	ADDR OF PREVIOUS DISPLAY SCWA
8	(8)	ADDRESS	4	SCWABPWA	ADDR OF PREVIOUS BACKUP SCWA
12	(C)	ADDRESS	4	SCWADNWA	ADDR OF NEXT DISPLAY SCWA
16	(10)	ADDRESS	4	SCWABNWA	ADDR OF NEXT BACKUP SCWA
20	(14)	ADDRESS	4	SCWAFNWA	ADDR OF NEXT FILTER SCWA
24	(18)	ADDRESS	4	SCWASNWA	ADDR OF NEXT SUBSCRIPT SCWA
28	(1C)	ADDRESS	4	SCWAENWA	ADDR of next TYPE=ERROR BACKUP SCWA
32	(20)	BITSTRING	1	SCWAKIND	$SCANWA WORK AREA KIND
		1...		SCWAKNOR	"B'10000000'" NORMAL SCWA
		.1..		SCWAKDSP	"B'01000000'" DISPLAY SCWA
		..1.		SCWAKBAK	"B'00100000'" BACKUP SCWA
		...1		SCWAKFLT	"B'00010000'" FILTER SCWA
		.... 1...		SCWAKSUB	"B'00001000'" SUBSCRIPT SCWA
33	(21)	BITSTRING	1	SCWAFLG6	GENERAL FLAG BYTE 6
		1...		SCWA6GEN	"B'10000000'" FIRST GENERIC ENTRY SAVED
		.1..		SCWA6BNO	"B'01000000'" BRKNEXT=NO specified for last $SCAND call

Table 471. Structure SCWA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		SCWA6NCR	"B'00100000'" Creates disallowed due to generic subscript
		...1		SCWA6MSS	"B'00010000'" Multiple subscripts
		.... 1...		SCWA60SS	"B'00001000'" No subscripts specified, '*' assumed
		.... .1..		SCWA6GT	"B'00000100'" Filter should match if >
		.... ..1.		SCWA6LT	"B'00000010'" Filter should match if <
		1		SCWA6EQ	"B'00000001'" Filter should match if =
33	(21)	X'7'	0	SCWA6NOT	"SCWA6GT+SCWA6EQ+SCWA6LT" Composite for ¬ (NOT)
34	(22)	BITSTRING	1	SCWASLVL	This SCWA scan call level (starting at 0 for the oldest parent)
35	(23)	BITSTRING	1	SCWAELVL	Scan level of error (to be propogated to oldest parent)
36	(24)	ADDRESS	4	SCWARLWA	Related SCWA (eg. set SCWA for display request)
40	(28)	DBL WORD	8	SCWADWRK	Doubleword work area
48	(30)	DBL WORD	8	SCWADWK1	Doubleword work area
56	(38)	DBL WORD	8	SCWADWK2	Doubleword work area
64	(40)	DBL WORD	8	SCWADWK3	Doubleword work area
64	(40)	X'28'	0	SCWAWK16	"SCWADWRK,16,C'X'" 16-byte work area
64	(40)	X'28'	0	SCWAWK20	"SCWADWRK,20,C'X'" 20-byte work area
64	(40)	X'28'	0	SCWAWK24	"SCWADWRK,24,C'X'" 24-byte work area
64	(40)	X'28'	0	SCWAWK32	"SCWADWRK,32,C'X'" 32-byte work area
64	(40)	X'38'	0	SCWAW16B	"SCWADWK2,16,C'X'" 16-byte work area 2
72	(48)	CHARACTER	16	SCWAXWA	SCAN work area
88	(58)	ADDRESS	4	SCWAWCWA	Address of ASAXWC parm list
92	(5C)	ADDRESS	4	SCWAORG1(0)	ORG POINT FOR DISPLAY AND BACKUP SCWA'S
92	(5C)	ADDRESS	4	SCWACR11	$SCAN caller's R11 value
96	(60)	ADDRESS	4	SCWATOKN	ADDR OF TOKEN
100	(64)	ADDRESS	4	SCWASTBS	ADDR OF $SCAN TABLES DOUBLEWORD
104	(68)	ADDRESS	4	SCWASTMT	ADDR OF PARM STMT TO SCAN
108	(6C)	SIGNED	2	SCWASLEN	LEN OF PARM STMT TO SCAN
110	(6E)	SIGNED	2	SCWADLEN	LEN OF DISPLAY OUTPUT AREA
112	(70)	ADDRESS	4	SCWADOUT	ADDR OF DISPLAY OUTPUT AREA
116	(74)	ADDRESS	4	SCWADRTN	ADDR OF DISPLAY OUTPUT ROUTINE
120	(78)	ADDRESS	4	SCWAPWA	ADDR OF PARENT SCWA (0 IN THE OLDEST PARENT SCWA)
124	(7C)	ADDRESS	4	SCWANWA	ADDR OF DAUGHTER SCWA (0 in the youngest SCWA)
128	(80)	ADDRESS	4	SCWASTAB	ADDR OF CURRENT SCAN TABLE ENTRY
132	(84)	ADDRESS	4	SCWAOTAB	ADDR OF ORIGINAL SCAN TABLE PRIOR TO ALIAS RESOLUTION

Table 471. Structure SCWA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
136	(88)	ADDRESS	4	SCWACBCL	ADDR OF CONTROL BLOCK PROVIDED BY CALLER
140	(8C)	ADDRESS	4	SCWACBAD	ADDR OF CURRENT CONTROL BLOCK
144	(90)	SIGNED	4	SCWACBAL	and current CB ALET
148	(94)	ADDRESS	4	SCWAFAD	ADDR OF CURRENT FIELD
152	(98)	SIGNED	4	SCWAFAL	and current field ALET
156	(9C)	ADDRESS	4	SCWATEMP	ADDR OF TEMPORARY AREA STACK
160	(A0)	SIGNED	4	SCWADAD2	Work storage for $GETABLE
164	(A4)	ADDRESS	4	SCWAWORK(0)	WORK AREA, USED ONLY BY HIGH LEVEL $SCAN SUBRTNS/EXITS, E.G. A(STAB) IN FINDTAB, DCTNAME IN FINDCB
174	(AE)	SIGNED	2	SCWARTCD	RETURN CODE OF PROCESSED REQUST
176	(B0)	ADDRESS	4	SCWAKPTR	PTR TO CURRENT KEYWORD IN STMT
180	(B4)	ADDRESS	4	SCWARPTR	PTR TO REMAINING TEXT IN STMT
184	(B8)	SIGNED	2	SCWARLEN	LEN OF REMAINING TEXT IN STMT
186	(BA)	SIGNED	2	SCWAILEN	LEN OF CURRENT INPUT STRING
188	(BC)	ADDRESS	4	SCWAIPTR	PTR TO CURRENT INPUT STRING
192	(C0)	SIGNED	4	SCWACNTR	COUNTER FIELD AVAILABLE FOR PRE AND POST-SCAN EXIT USE ONLY
196	(C4)	BITSTRING	1	SCWAEXFL	FLAG BYTE AVAILABLE FOR PRE AND POST-SCAN EXIT USE ONLY
		1...		SCWAJNET	"B'10000000'" ON JES2 NETACCT CHAIN SEARCH
		.1..		SCWARMTA	"B'01000000'" RMT CURRENTLY AUTOLOG MODE
		..1.		SCWARTRY	"B'00100000'" RETRY INDICATOR
		...1		SCWARMTL	"B'00010000'" $T/$ADD RMT spec LINE
		.... 1...		SCWARMSH	"B'00001000'" $T/$ADD RMT spec SHARABLE
		.... .1..		SCWACPCT	"B'00000100'" $T RPR/RPU specified CMPCT
		.... ..1.		SCWACMPR	"B'00000010'" $T RPR/RPU specif COMPRESS
		1...		SCWA$IND	"B'10000000'" $T MEMBER,IND=YES/NO
	Definitions used by $TJ command				
		1...		SCWA$TJP	"B'10000000'" $TJ PRIORITY specified
		.1..		SCWA$TJC	"B'01000000'" $TJ CLASS specified
		..1.		SCWA$TJX	"B'00100000'" $TJ XEQ specified
		...1		SCWA$TJS	"B'00010000'" $TJ SRVCLASS specified
		.... 1...		SCWA$TJE	"B'00001000'" $TJ SCHENV specified
		.... .1..		SCWA$TJI	"B'00000100'" $TJ SPIN specified
		.... ..1.		SCWA$TJD	"B'00000010'" $TJ SPIN,DDNAME= specified
	Definitions used by $TOJ command				
		1...		SCWA$TOX	"B'10000000'" Skip to next JQE

Table 471. Structure SCWA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		The following definitions are used by $C and $P job commands and must match parameters passed in R0 to the $JCAN macro			
		...1		SCWA$JPR	"B'00010000'" 'PROTECTED' specified
		.1..		SCWA$CDU	"B'01000000'" 'DUMP' specified
		EQU B'00100000' Internal $JCAN use			
		.... 1...		SCWA$FRC	"B'00001000'" 'FORCE' was specified
		.... .1..		SCWA$ARM	"B'00000100'" 'ARMRESTART' specified
		1		SCWA$CPU	"B'00000001'" Cancel with purge
		Definitions used by $EJ command			
		.... .1..		SCWA$EST	"B'00000100'" $EJOB,STEP requested
		.... ..1.		SCWA$ESH	"B'00000010'" $EJOB,STEP,HOLD requested
		1		SCWA$ECA	"B'00000001'" $EJOB,CANCEL requested
		The following are used for $T/$D JOBCLASS(x)			
		1...		SCWASTMD	"B'10000000'" JOBCLASS MODE= changed
		.1..		SCWACATL	"B'01000000'" Looping through CATs
		The following is used for $T NODE			
		1...		SCWA$NTC	"B'10000000'" Checkpointed attribute changed
		The following is used for $T NJEDEF			
		1...		SCWA$NNM	"B'10000000'" Checkpointed attribute changed
		The following is used for $SJ JOBCORR			
		1...		SCWA$COR	"B'10000000'" Job correlator filter provided
		The following is used for $D DUPJOB command			
		.1..		SCWADJBL	"B'01000000'" Looping through DJBs
		The following is used for SPL cmds with the RESERVED keyword.			
		1...		SCWA$RSV	"B'10000000'" Prescan was called for =RESERVED keyword
197	(C5)	ADDRESS	1	SCWAWARN	$SCAN WARNING MASK
198	(C6)	BITSTRING	1	SCWAFLG7	Flag byte 7
		1...		SCWA7BOU	"B'10000000'" Sets to back out at this level of scan exist
		.1..		SCWA7DNF	"B'01000000'" A conflict exists between set and filter keywords

Table 471. Structure SCWA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		SCWA7FLF	"B'00100000'" Current keyword MUST be processed as a filter
		...1		SCWA7DDN	"B'00010000'" The maximum number of display messages has been exceeded
		.... 1...		SCWA7FXT	"B'00001000'" Filter SCWA - additional processing required
		.... .1..		SCWA7DAL	"B'00000100'" Display all was requested for this keyword
		.... ..1.		SCWA7DSP	"B'00000010'" Something displayed at this level on this iteration
		1		SCWA7SDS	"B'00000001'" Something done at subscript SCWA level (similar to SCWA4SDL but reset for new subscript SCWA)
199	(C7)	ADDRESS	1	SCWACALD	CALLER FOR DISPLAY ON $SCAN CALLS THAT ARE SETDISP, SETCRDISP, ETC, DURING DISP = ORIG SET CALLER
200	(C8)	SIGNED	4	SCWASUBS	LOWER BOUNDRY AND/OR SBSCPT
204	(CC)	SIGNED	4	SCWASUBH	UPPER BOUNDRY OF SUBSCRIPT (MAY BE A LOWER VALUE THAN SSCR, IMPLYING A DECREMENTING LOOP)
208	(D0)	SIGNED	2	SCWASCRL	LENGTH OF SUBSCRIPT AREA
210	(D2)	SIGNED	2	SCWAVCNT	COUNT OF VECTOR ELMTS PROCESSED FOR ENTIRE VECTOR SUBSCAN
212	(D4)	SIGNED	2	SCWASTVC	COUNT OF VECTOR ELMTS PROCESSED WITHIN CURRENT SCANTAB ENTRY
214	(D6)	SIGNED	2	SCWASBL	FIELD LENGTH FOR $SCANB
216	(D8)	BITSTRING	1	SCWAFLG9	Still more flags
		1...		SCWA9NFT	"B'10000000'" SCWA for nested filter
217	(D9)	BITSTRING	1		Reserved
218	(DA)	SIGNED	2	SCWAINDL	INDENT VALUE FOR DISPARSE RTN
220	(DC)	ADDRESS	4	SCWADADD	ADDR OF CURRENT TABLE ENTRY FOR A DISPLAY ALL ENTRIES REQUEST
224	(E0)	BITSTRING	1	SCWATYPE	$SCAN CALL TYPE
		1...		SCWASET	"B'10000000'" $SCAN SCAN=SET
		.1..		SCWADISP	"B'01000000'" $SCAN SCAN=DISPLAY
		..1.		SCWADSPA	"B'00100000'" FLAG FOR DISPLAY-AFTER
		.1.1		SCWAMSG	"B'01010000'" $SCAN SCAN=MSG
		.... 1...		SCWACR	"B'00001000'" $SCAN SCAN=CR
		.... .1..		SCWADELE	"B'00000100'" $SCAN SCAN=DELETE
224	(E0)	X'88'	0	SCWASETC	"SCWASET+SCWACR" $SCAN SCAN=SETCR
224	(E0)	X'A0'	0	SCWASETD	"SCWASET+SCWADSPA" $SCAN SCAN=SETDISP
224	(E0)	X'A8'	0	SCWASCD	"SCWASETC+SCWADSPA" $SCAN SCAN=SETCRDISP
224	(E0)	X'28'	0	SCWACRDI	"SCWACR+SCWADSPA" $SCAN SCAN=CRDISP

Table 471. Structure SCWA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
224	(E0)	X'44'	0	SCWADDEL	"SCWADISP+SCWADELE" $SCAN SCAN=DISPDEL
224	(E0)	X'C4'	0	SCWACRRT	"SCWASET+SCWADISP+SCWADELE" Flags to indicate (all off) CR(new CB) required
225	(E1)	BITSTRING	1	SCWAFLG1	GENERAL FLAG BYTE
		1...		SCWAPAR	"B'10000000'" SCAN STARTED WITH A PARENTHESIS (MUST END WITH ONE)
		.1..		SCWASING	"B'01000000'" SCAN RESTRICTED TO SINGLE KEYWORD (POSSIBLY NEEDING MULTI-SUBSCAN)
		..1.		SCWASSER	"B'00100000'" POSSIBLE SUBSCRIPT ERROR
		...1		SCWAVECT	"B'00010000'" VECTOR SCAN BEING PROCESSED
		.... 1...		SCWAPSCN	"B'00001000'" PRESCAN EXIT DID SCANNING
		.... .1..		SCWARANG	"B'00000100'" POSSIBLE SUBSCRIPT RANGE FOUND
		.... ..1.		SCWASCAN	"B'00000010'" SUBSCAN IS REQUIRED
		1		SCWADCOM	"B'00000001'" COMMA REQUIRED WITHIN A DISPLAY
226	(E2)	BITSTRING	1	SCWAFLG2	GENERAL FLAG BYTE 2
		1...		SCWADALL	"B'10000000'" DISPLAY ALL SUBPARAMETERS
		.1..		SCWAHASP	"B'01000000'" HAVE COMPLETED HASP TABLE
		..1.		SCWA2LNG	"B'00100000'" Do LONG display all
		...1		SCWASPAN	"B'00010000'" TEXT SPANS AN SCWA
		.... 1...		SCWALOOP	"B'00001000'" DISPLAY LOOP AS GENERATED FROM A PRE OR POST-SCAN EXIT AND ONLY AVAILABLE FOR THEIR USE
		.... .1..		SCWA2QSS	"B'00000100'" Quotes around subscript
		.... ..1.		SCWAPAR2	"B'00000010'" Copy of SCWAPAR for loops
		1		SCWAPERD	"B'00000001'" INDICATE MULTI-SECTIONED KYWRD
227	(E3)	BITSTRING	1	SCWAFLG3	GENERAL FLAG BYTE 3
		1...		SCWAMLVL	"B'10000000'" DISPLAY MORE THAN ONE SUB-KEYWORD SECTION
		.1..		SCWAPARN	"B'01000000'" SCWA CONTAINS PART(S) OF THE HIGHEST LEVEL KYWRD SPECIFIED
		..1.		SCWAERR	"B'00100000'" SCANDIAG BUILDING DIAGNSTC MSG
		...1		SCWAGRPD	"B'00010000'" INDICATES SOMETHING DISPLAYED
		.... 1...		SCWAD1ST	"B'00001000'" FIRST CALL TO DISPRTN

Table 471. Structure SCWA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		SCWADLST	"B'00000100'" LAST CALL TO DISPRTN
		.... ..1.		SCWA3TCB	"B'00000010'" SCWACBAD POINTS TO TEMP CB
		1		SCWA3DCT	"B'00000001'" SCWACBAD POINTS TO A DCT
228	(E4)	BITSTRING	1	SCWAFLG4	GENERAL FLAG BYTE 4
		1...		SCWA4SSG	"B'10000000'" GENERIC SYMBOLIC SUBSCRIPT
		.1..		SCWA4PSS	"B'01000000'" PARENS AROUND SUBSCRIPT
		..1.		SCWA4ACT	"B'00100000'" ACTIVITY DETERMINED THIS LEVEL
		...1		SCWA4SDL	"B'00010000'" SOMETHING DONE IN POSSIBLE LOOP, USED TO REPORT IF NO MATCHES
		.... 1...		SCWA4LFC	"B'00001000'" LKUPFLD HAS BEEN CHANGED BY SET, DISPLAY MUST USE NEW SUBSCRP
		.... .1..		SCWA4FLM	"B'00000100'" Filter match found
		.... ..1.		SCWA4ETL	"B'00000010'" END OF SCAN FOR THIS LEVEL
		1		SCWA4RDE	"B'00000001'" ERROR FLAG FOR RESTDISP
229	(E5)	BITSTRING	1	SCWAFLG5	GENERAL FLAG BYTE 5
		1...		SCWA5FLT	"B'10000000'" FILTER REQUEST DETECTED
		.1..		SCWA5FRJ	"B'01000000'" FILTER REQUEST REJECTED
		..1.		SCWA5DSP	"B'00100000'" Something done at this level other than filters
		...1		SCWA5PS2	"B'00010000'" SECOND 'DISPLAY ALL' PASS IN PROGRESS FOR KEYWORD
		.... 1...		SCWA5FND	"B'00001000'" FILTER DETECTED WHICH ALSO REQUIRES A DISPLAY
		.... .1..		SCWA5XPR	"B'00000100'" DO NOT TAKE ANY MORE PRESCAN EXIT ROUTINES FOR THIS KEYWORD ITERATION
		.... ..1.		SCWA5XPO	"B'00000010'" DO NOT TAKE ANY MORE POSTSCAN EXIT ROUTINES FOR THIS KEYWORD ITERATION
		1		SCWA5NSS	"B'00000001'" Input at this level contained a numeric subscript (if symbolic then SCWASSSL is set)
230	(E6)	SIGNED	2	SCWARPMM	MAXIMUM RPTR MOVED IN LOOP
232	(E8)	CHARACTER	1	SCWASEPR	SEPARATOR CHARACTER USED DURING DISPLAY CREATION
233	(E9)	BITSTRING	1	SCWADSPR	$SCAN DISPLAYER ID
234	(EA)	ADDRESS	1	SCWAKWDL	LENGTH OF FIRST SECTION OF A MULTI- SECTIONED KEYWORD

Table 471. Structure SCWA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
235	(EB)	ADDRESS	1	SCWACALR	$SCAN CALLER ID - HASP IDS ARE DEFINED IN $HASPEQU, USERS SHOULD USE IDS FROM 255 DOWN (IF NEEDED)
236	(EC)	BITSTRING	1	SCWABFLG	FLAG BYTE USED BY $SCANB MACRO TO PASS TYPE TO $SCANB ROUTINE - ALL BIT DEFINITIONS IN SCWABAFG
237	(ED)	SIGNED	1	SCWASSSL	LENGTH OF INPUT SYMBOLIC SS
238	(EE)	SIGNED	1	SCWASSL2	LENGTH of second symbolic in range
239	(EF)	BITSTRING	1	SCWAFLG8	Even more flags
		1...		SCWA8LTC	"B'10000000'" Control line->WPLLTFA
		.1..		SCWA8LTL	"B'01000000'" Label line--->WPLLTFB
		..1.		SCWA8LTD	"B'00100000'" Data line---->WPLLTFC
		...1		SCWA8LTE	"B'00010000'" End line----->WPLLTFD
		.... 1...		SCWA8DOU	"B'00001000'" Display area obtained by $SCAN
		.... .1..		SCWA8DCC	"B'00000100'" Display routine R11=HCCT
		.... ..1.		SCWA8DHC	"B'00000010'" Display routine R11=HCT
		1		SCWA8HIC	"B'00000001'" Hi delimiter flag
240	(F0)	BITSTRING	2	SCWAFVCT	Counter for vector filters specifying NOVORDER
242	(F2)	BITSTRING	2	SCWAMIDL	Message id length for current message
244	(F4)	ADDRESS	4	SCWASSIE	Indirection entry save area If SUBFLD or LKUPFLD, it is current index value If SUBSCRP (direct index) it is looping CBIND adr
248	(F8)	CHARACTER	16	SCWASSS(0)	Symbolic subscript values in normal and subscript SCWAs
248	(F8)	CHARACTER	8	SCWASSSC	SYMBOLIC SUBSCRIPT VALUE
256	(100)	CHARACTER	8	SCWASSSH	SYMBOLIC SUBSCRIPT VALUE (HIGH RANGE VALUE)
256	(100)	X'F8'	0	SCWAFW16	"SCWASSS" 16-byte work area - only in filter SCWAs
256	(100)	X'F8'	0	SCWAFW8	"SCWAFW16,8" 8-byte work area
256	(100)	X'100'	0	SCWAFW8A	"SCWAFW16+8,8" 8-byte work area
264	(108)	ADDRESS	4	SCWASSSS	SYM SUBSCRIPT CB SAVE AREA
268	(10C)	SIGNED	4	SCWASSSA	and ALET
272	(110)	ADDRESS	4	SCWASSDR	HIGHEST LEVEL SYMBOLIC LKUPFLD ADDR (USED FOR LATER DISPLAY IF SCWA4LFC IS TURNED ON)
276	(114)	BITSTRING	1	SCWAPRRC	Highest RC encountered from prescan routine
277	(115)	BITSTRING	1	SCWAPCNT	Count of nested parens for CONV=CHAR
278	(116)	ADDRESS	1	SCWAMSDL	MAXIMUM SUBSCRIPT DISPLAY LENGTH
279	(117)	ADDRESS	1	SCWANBLN	ACTUAL SUBSCRIPT LENGTH

Table 471. Structure SCWA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
280	(118)	ADDRESS	4	SCWAVERB	Addr of verb (1 byte length followed by char verb)
284	(11C)	ADDRESS	4		Reserved for future use
288	(120)	ADDRESS	4	SCWASCND(0)	Start of list form
288	(120)	ADDRESS	4		Text address unknown
292	(124)	ADDRESS	4		ALET of field
296	(128)	ADDRESS	2		Text length
298	(12A)	ADDRESS	2		Text width
300	(12C)	ADDRESS	1		
301	(12D)	ADDRESS	1		Option flag 2
302	(12E)	ADDRESS	1		Conversion flag 1
303	(12F)	ADDRESS	1		Conversion flag 2
304	(130)	ADDRESS	1		Conversion flag 3
305	(131)	ADDRESS	1		Conversion flag 4
306	(132)	ADDRESS	4		Multiplier
	Dual use work area for filtering. The following fields map the data areas in a normal SCWAs. They are used to remember display or backup areas that have to be backed out later due to a filter mismatch.				
312	(138)	ADDRESS	4	SCWAFLTA(0)	Start of remapped area
312	(138)	ADDRESS	4	SCWADCWA	Addr of display SCWA of prefix area for text to back out
316	(13C)	SIGNED	2	SCWADCOF	Offset within display SCWA of prefix area for keyword (SCWANXPT)
318	(13E)	SIGNED	2	SCWADCLN	Remaining length in display SCWA after text is backed out (SCWADFAL)
320	(140)	ADDRESS	4	SCWADCTA	Addr of last prefix area (SCWALTA)
324	(144)	ADDRESS	4	SCWABCWA	Addr of backup SCWA of prefix area for sets to back out (SCWA address)
328	(148)	SIGNED	2	SCWABCOF	Offset within backup SCWA of prefix area for keyword (SCWABLUO)
330	(14A)	SIGNED	2	SCWABCLN	Remaining length in backup SCWA after sets are backed out (SCWABLA)
332	(14C)	SIGNED	2	SCWABCNA	Next remaining area (SCWABNO)
334	(14E)	SIGNED	2		Reserved for future use
	Work area in Filter SCWAs The following fields map the data areas in a filter SCWA. These fields are used to store working fields and STAB addresses from earlier levels of $SCAN.				
312	(138)	ADDRESS	4	SCWAFLST	Looping level $SCANTAB for this filter SCWA
316	(13C)	SIGNED	4	SCWAFWA_START(0)	Begin filter WA ($SCANTAB addrs in filter SCWAs)
336	(150)	SIGNED	4	SCWAFWA_END(0)	End filter WA

Table 471. Structure SCWA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
336	(150)	X'13C'	0	SCWAFWA	"SCWAFWA_START,SCWAFWA_END-SCWAFWA_START" Define work area
		SET SCWA BACKUP AREA FIELDS MAPPED OVER COMMON SCWA			
92	(5C)	SIGNED	2	SCWABLA	LEN OF AVAILABLE BACKUP SPACE
94	(5E)	SIGNED	2	SCWABLT	LEN OF TOTAL BACKUP SPACE
96	(60)	SIGNED	2	SCWABLUO	OFFSET OF LAST USED BACKUP AREA
98	(62)	SIGNED	2	SCWABNO	OFFSET OF NEXT AVAILABLE BACKUP AREA
100	(64)	SIGNED	4	(0)	BACKUP AREA ELEMENTS
100	(64)	BITSTRING	16	SCWABELM	Ensure at least one fits
		SET SCWA DISPLAY AREA FIELDS MAPPED OVER BACKUP FIELDS			
92	(5C)	ADDRESS	4	SCWAOLDP	ADDR OF OLDEST PARENT SCWA
96	(60)	SIGNED	2	SCWADFAL	LENGTH OF FREE AREA LEFT
98	(62)	SIGNED	2	SCWANXPT	OFFSET TO NXT POSSIBLE TXT AREA
100	(64)	SIGNED	4	SCWALTA	ADDRESS TO PREVIOUS TEXT AREA
104	(68)	SIGNED	4	(0)	Beginning of display elmts
104	(68)	BITSTRING	16	SCWADELM	Ensure at least one fits
336	(150)	X'150'	0	SCWALEN	"*-SCWA" LEN OF GENERAL SCWA WORK AREA
336	(150)	X'1000'	0	SCWALEND	"4096" Len of DISPLAY SCWA

Table 472. Structure SCWADA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SCWADA	, Mapping for display element
0	(0)	SIGNED	2	SCWADTXL	LEN OF TEXT
2	(2)	SIGNED	2	SCWADTLS	LEN OF TEXT IN THIS SCWA
4	(4)	SIGNED	4	SCWANDTA	ADDR OF NEXT TEXT AREA
8	(8)	ADDRESS	4	SCWADSTB	ADDR OF THIS TEXT'S STAB
12	(C)	BITSTRING	1	SCWADFLG	Flags for display
		1...		SCWADLTC	"B'10000000'" Control line
		.1..		SCWADLTL	"B'01000000'" Label line
		..1.		SCWADLTD	"B'00100000'" Data line
		...1		SCWADLTE	"B'00010000'" End line
		.... 1...		SCWADFCR	"B'00001000'" Place CRLF before text
		.... .1..		SCWADFCT	"B'00000100'" This SCWADA continued in next display SCWA
		.... ..1.		SCWANIND	"B'00000010'" Do not indent this output
13	(D)	BITSTRING	3		Reserved for future use
16	(10)	SIGNED	4	SCWADTXT(0)	START OF TEXT
16	(10)	X'10'	0	SCWADAL	"*-SCWADA"

Table 473. Structure SCWABA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SCWABA	, BACKUP AREA ELEMENT

Table 473. Structure SCWABA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	BITSTRING	1	SCWABAFG	FLAG BYTE FIELD CORRESPONDING TO THE FLAG BYTE OF SCWABFLG
		1...		SCWABABA	"B'10000000'" BACKUP AREA CONTAINS BACKED UP STORAGE
		.1..		SCWABADI	"B'01000000'" BACKUP AREA CONTAINS STABNAME TO DISPLAY (FOR SET-DISPLAY)
		..1.		SCWABAER	"B'00100000'" BACKUP AREA CONTAINS KEYWORD OR VALUE IN ERROR
		.... ..1.		SCWABASC	"B'00000010'" Secondary TYPE=ERROR entry
		1		SCWABAIN	"B'00000001'" Backup area is no longer valid
1	(1)	BITSTRING	1	SCWABALV	LEVEL OF THE VALUE SAVED
2	(2)	BITSTRING	2		RESERVED FOR FUTURE USE
4	(4)	ADDRESS	4	SCWABAAD	ADDRESS OF STORAGE BACKED UP
8	(8)	SIGNED	4	SCWABAAL	and ALET
12	(C)	SIGNED	2	SCWABALN	LENGTH OF STORAGE BACKED UP
14	(E)	SIGNED	2	SCWABAPO	OFFSET OF PREVIOUS BA IN SCWA OR 0
16	(10)	SIGNED	4	SCWABAFC(0)	CONTENTS OF BACKED-UP FIELD
16	(10)	X'10'	0	SCWABAL	"*-SCWABA"

Table 474. Structure XWCWA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	XWCWA	, ASAXWC work area
0	(0)	CHARACTER	4		Eyecatcher
4	(4)	CHARACTER	256	XWCDATA	Data work area
260	(104)	SIGNED	4	XWCDATAL	Length of data
264	(108)	CHARACTER	256	XWCSTR	Input string area
520	(208)	SIGNED	4	XWCSTRL	Length of input string MACDATE -06/16/09-<0>
0	(0)	X'20C'	0	M00M1353	"XWCLIST" ++ ASAXWC NAME
524	(20C)	SIGNED	4	XWCLIST(0)	++ ASAXWC PARM LIST
524	(20C)	CHARACTER	4	XWCLIST_XPARMAREA1	++ FIELD_LABEL
528	(210)	CHARACTER	24	XWCLIST_XPARMAREA2	++ FIELD_LABEL
528	(210)	X'228'	0	XWCLIST_PL_END	"*" ++ END OF BASE PLIST
524	(20C)	ADDRESS	4	XWCLIST_XPATTERNSTR_ADDR	++ ADDR
528	(210)	SIGNED	4	XWCLIST_XPATTERNSTRLEN	++
532	(214)	ADDRESS	4	XWCLIST_XSTRING_ADDR	++ ADDR
536	(218)	SIGNED	4	XWCLIST_XSTRINGLEN	++
540	(21C)	ADDRESS	4	XWCLIST_XZEROORMORE_ADDR	++ ADDR
544	(220)	ADDRESS	4	XWCLIST_XONECHAR_ADDR	++ ADDR
548	(224)	ADDRESS	4	XWCLIST_XDELIMITER_ADDR	++ ADDR
524	(20C)	ADDRESS	4	XWCLIST_XPPPATTERNINFO_ADDR	++ ADDR
528	(210)	ADDRESS	4	XWCLIST_XPPPATTERNSTR_ADDR	++ ADDR
532	(214)	SIGNED	4	XWCLIST_XPPPATTERNSTRLEN	++
536	(218)	ADDRESS	4	XWCLIST_XPPZEROORMORE_ADDR	++ ADDR
540	(21C)	ADDRESS	4	XWCLIST_XPPONECHAR_ADDR	++ ADDR

Table 474. Structure XWCWA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
544	(220)	ADDRESS	4	XWCLIST_XPPDELIMITER_ADDR	++ ADDR
528	(210)	ADDRESS	4	XWCLIST_XPPSTRING_ADDR	++ ADDR
532	(214)	SIGNED	4	XWCLIST_XPPSTRINGLEN	++
552	(228)	X'1C'	0	XWCLISTL	"*-XWCLIST" ++ LENGTH OF PLIST
				ASAXWC-0	
552	(228)	BITSTRING	256	XWCAREA	Work area passed to ASAXWC
808	(328)	BITSTRING	40	XWCGENWA	List of diagnostic levels
848	(350)	CHARACTER	100	XWCGENWB	Message work area
952	(3B8)	DBL WORD	8	(0)	
952	(3B8)	X'3B8'	0	XWCLEN	"*-XWCWA" Length of work area
952	(3B8)	X'EE'	0	XWCWORDS	"XWCLEN/4" Length in words

Table 475. Structure SCWA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SCWA	Restore SCWA DSECT

Table 476. Cross Reference for $SCANWA

Name	Offset	Hex Tag
M00M1353	0	20C
SCWA	0	
SCWA	0	
SCWA$ARM	C4	4
SCWA$CDU	C4	40
SCWA$COR	C4	80
SCWA$CPU	C4	1
SCWA$ECA	C4	1
SCWA$ESH	C4	2
SCWA$EST	C4	4
SCWA$FRC	C4	8
SCWA$IND	C4	80
SCWA$JPR	C4	10
SCWA$NNM	C4	80
SCWA$NTC	C4	80
SCWA$RSV	C4	80
SCWA$TJC	C4	40
SCWA$TJD	C4	2
SCWA$TJE	C4	8
SCWA$TJI	C4	4
SCWA$TJP	C4	80
SCWA$TJS	C4	10
SCWA$TJX	C4	20
SCWA$TOX	C4	80
SCWABA	0	
SCWABAAD	4	
SCWABAAL	8	
SCWABABA	0	80

Table 476. Cross Reference for $SCANWA (continued)

Name	Offset	Hex Tag
SCWABADI	0	40
SCWABAER	0	20
SCWABAFC	10	
SCWABAFG	0	
SCWABAIN	0	1
SCWABAL	10	10
SCWABALN	C	
SCWABALV	1	
SCWABAPO	E	
SCWABASC	0	2
SCWABCLN	14A	
SCWABCNA	14C	
SCWABCOF	148	
SCWABCWA	144	
SCWABELM	64	
SCWABFLG	EC	
SCWABLA	5C	
SCWABLT	5E	
SCWABLUO	60	
SCWABNO	62	
SCWABNWA	10	
SCWABPWA	8	
SCWACALD	C7	
SCWACALR	EB	
SCWACATL	C4	40
SCWACBAD	8C	
SCWACBAL	90	
SCWACBCL	88	
SCWACMPR	C4	2
SCWACNTR	C0	
SCWACPCT	C4	4
SCWACR	E0	8
SCWACRDI	E0	28
SCWACRRT	E0	C4
SCWACR11	5C	
SCWADA	0	
SCWADADD	DC	
SCWADAD2	A0	
SCWADAL	10	10
SCWADALL	E2	80
SCWADCLN	13E	
SCWADCOF	13C	
SCWADCOM	E1	1
SCWADCTA	140	
SCWADCWA	138	
SCWADDEL	E0	44
SCWADELE	E0	4
SCWADELM	68	
SCWADFAL	60	

Table 476. Cross Reference for $SCANWA (continued)

Name	Offset	Hex Tag
SCWADFCR	C	8
SCWADFCT	C	4
SCWADFLG	C	
SCWADISP	E0	40
SCWADJBL	C4	40
SCWADLEN	6E	
SCWADLST	E3	4
SCWADLTC	C	80
SCWADLTD	C	20
SCWADLTE	C	10
SCWADLTL	C	40
SCWADNWA	C	
SCWADOUT	70	
SCWADPWA	4	
SCWADRTN	74	
SCWADSPA	E0	20
SCWADSPR	E9	
SCWADSTB	8	
SCWADTLS	2	
SCWADTXL	0	
SCWADTXT	10	
SCWADWK1	30	
SCWADWK2	38	
SCWADWK3	40	
SCWADWRK	28	
SCWAD1ST	E3	8
SCWAELVL	23	
SCWAENWA	1C	
SCWAERR	E3	20
SCWAEXFL	C4	
SCWAFAD	94	
SCWAFAL	98	
SCWAFLG1	E1	
SCWAFLG2	E2	
SCWAFLG3	E3	
SCWAFLG4	E4	
SCWAFLG5	E5	
SCWAFLG6	21	
SCWAFLG7	C6	
SCWAFLG8	EF	
SCWAFLG9	D8	
SCWAFLST	138	
SCWAFLTA	138	
SCWAFNWA	14	
SCWAFVCT	F0	
SCWAFWA	150	13C
SCWAFWA_END	150	
SCWAFWA_START	13C	
SCWAFW16	100	F8

Table 476. Cross Reference for $SCANWA (continued)

Name	Offset	Hex Tag
SCWAFW8	100	F8
SCWAFW8A	100	100
SCWAGRPD	E3	10
SCWAHASP	E2	40
SCWAID	0	
SCWAILEN	BA	
SCWAINDL	DA	
SCWAIPTR	BC	
SCWAJNET	C4	80
SCWAKBAK	20	20
SCWAKDSP	20	40
SCWAKFLT	20	10
SCWAKIND	20	
SCWAKNOR	20	80
SCWAKPTR	B0	
SCWAKSUB	20	8
SCWAKWDL	EA	
SCWALEN	150	150
SCWALEND	150	1000
SCWALOOP	E2	8
SCWALTA	64	
SCWAMIDL	F2	
SCWAMLVL	E3	80
SCWAMSDL	116	
SCWAMSG	E0	50
SCWANBLN	117	
SCWANDTA	4	
SCWANIND	C	2
SCWANWA	7C	
SCWANXPT	62	
SCWAOLDP	5C	
SCWAORG1	5C	
SCWAOTAB	84	
SCWAPAR	E1	80
SCWAPARN	E3	40
SCWAPAR2	E2	2
SCWAPCNT	115	
SCWAPERD	E2	1
SCWAPRRC	114	
SCWAPSCN	E1	8
SCWAPWA	78	
SCWARANG	E1	4
SCWARLEN	B8	
SCWARLWA	24	
SCWARMSH	C4	8
SCWARMTA	C4	40
SCWARMTL	C4	10
SCWARPMM	E6	
SCWARPTR	B4	

Table 476. Cross Reference for $SCANWA (continued)

Name	Offset	Hex Tag
SCWARTCD	AE	
SCWARTRY	C4	20
SCWASBL	D6	
SCWASCAN	E1	2
SCWASCD	E0	A8
SCWASCND	120	
SCWASCRL	D0	
SCWASEPR	E8	
SCWASET	E0	80
SCWASETC	E0	88
SCWASETD	E0	A0
SCWASING	E1	40
SCWASLEN	6C	
SCWASLVL	22	
SCWASNWA	18	
SCWASPAN	E2	10
SCWASSDR	110	
SCWASSER	E1	20
SCWASSIE	F4	
SCWASSL2	EE	
SCWASSS	F8	
SCWASSSA	10C	
SCWASSSC	F8	
SCWASSSH	100	
SCWASSSL	ED	
SCWASSSS	108	
SCWASTAB	80	
SCWASTBS	64	
SCWASTMD	C4	80
SCWASTMT	68	
SCWASTVC	D4	
SCWASUBH	CC	
SCWASUBS	C8	
SCWATEMP	9C	
SCWATOKN	60	
SCWATYPE	E0	
SCWAVCNT	D2	
SCWAVECT	E1	10
SCWAVERB	118	
SCWAWARN	C5	
SCWAWCWA	58	
SCWAWK16	40	28
SCWAWK20	40	28
SCWAWK24	40	28
SCWAWK32	40	28
SCWAWORK	A4	
SCWAW16B	40	38
SCWAXWA	48	40404040
SCWA2LNG	E2	20

Table 476. Cross Reference for $SCANWA (continued)

Name	Offset	Hex Tag
SCWA2QSS	E2	4
SCWA3DCT	E3	1
SCWA3TCB	E3	2
SCWA4ACT	E4	20
SCWA4ETL	E4	2
SCWA4FLM	E4	4
SCWA4LFC	E4	8
SCWA4PSS	E4	40
SCWA4RDE	E4	1
SCWA4SDL	E4	10
SCWA4SSG	E4	80
SCWA5DSP	E5	20
SCWA5FLT	E5	80
SCWA5FND	E5	8
SCWA5FRJ	E5	40
SCWA5NSS	E5	1
SCWA5PS2	E5	10
SCWA5XPO	E5	2
SCWA5XPR	E5	4
SCWA6BNO	21	40
SCWA6EQ	21	1
SCWA6GEN	21	80
SCWA6GT	21	4
SCWA6LT	21	2
SCWA6MSS	21	10
SCWA6NCR	21	20
SCWA6NOT	21	7
SCWA60SS	21	8
SCWA7BOU	C6	80
SCWA7DAL	C6	4
SCWA7DDN	C6	10
SCWA7DNF	C6	40
SCWA7DSP	C6	2
SCWA7FLF	C6	20
SCWA7FXT	C6	8
SCWA7SDS	C6	1
SCWA8DCC	EF	4
SCWA8DHC	EF	2
SCWA8DOU	EF	8
SCWA8HIC	EF	1
SCWA8LTC	EF	80
SCWA8LTD	EF	20
SCWA8LTE	EF	10
SCWA8LTL	EF	40
SCWA9NFT	D8	80
XWCAREA	228	
XWCDATA	4	
XWCDATAL	104	
XWCGENWA	328	

Table 476. Cross Reference for $SCANWA (continued)

Name	Offset	Hex Tag
XWCGENWB	350	
XWCLEN	3B8	3B8
XWCLIST	20C	
XWCLIST_PL_END	210	228
XWCLIST_XDELIMITER_ADDR	224	
XWCLIST_XONECHAR_ADDR	220	
XWCLIST_XPARMAREA1	20C	
XWCLIST_XPARMAREA2	210	
XWCLIST_XPATTERNSTR_ADDR	20C	
XWCLIST_XPATTERNSTRLEN	210	
XWCLIST_XPPDELIMITER_ADDR	220	
XWCLIST_XPPONECHAR_ADDR	21C	
XWCLIST_XPPPATTERNINFO_ADDR	20C	
XWCLIST_XPPPATTERNSTR_ADDR	210	
XWCLIST_XPPPATTERNSTRLEN	214	
XWCLIST_XPPSTRING_ADDR	210	
XWCLIST_XPPSTRINGLEN	214	
XWCLIST_XPPZEROORMORE_ADDR	218	
XWCLIST_XSTRING_ADDR	214	
XWCLIST_XSTRINGLEN	218	
XWCLIST_XZEROORMORE_ADDR	21C	
XWCLISTL	228	1C
XWCSTR	108	
XWCSTRL	208	
XWCWA	0	
XWCWORDS	3B8	EE

Chapter 192. $SCAT Information

$SCAT Programming Interface Information

$SCAT is a programming interface.

$SCAT Heading Information

Common Name: SYSOUT Class Attribute Table DSECT
Macro ID: $SCAT
DSECT Name: SCAT
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: None
Storage Attributes: Subpool: 241
Key: 1
Residency: The SCAT is in 24 bit virtual storage and 64 bit real storage.

Size: See SCATLEN
Created by: HASPIRSI during JES2 initialization
Pointed to by: CCTSCATP field of the $HCCT data area
CCTSCAT FIELD of the $HCCT data area
(CCTSCAT is the actual address of the SCAT which resides in the $HCCT. It is NOT a pointer and should not be used to address the SCAT.)
Serialization: None required
Function: The SCAT defines the attributes of the JES2 SYSOUT classes. There are 64 SCAT entries arranged contiguously. The appropriate SCAT entry for a particular class is found by taking the class (e.g. class A = X'C1'), turning off the high order two bits (e.g. class A =X'01'), multiplying by the SCATLEN equate, and adding to the address pointed to by CCTSCATP.

$SCAT mapping

Table 477. Structure SCAT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SCAT	SYSOUT CLASS ATTRIBUTE TABLE ELEMENT
0	(0)	BITSTRING	1	SCATFLG1	SYSOUT CLASS FLAG BYTE 1
		111.		SCATYPES	"B'11100000'" SCAT ELEMENT TYPES
		1...		SCAT1PRT	"B'10000000'" SYSOUT CLASS NORMALLY PRINTED
		.1..		SCAT1PCH	"B'01000000'" SYSOUT CLASS NORMALLY PUNCHED
		..1.		SCAT1DUM	"B'00100000'" TREAT SYSOUT CLASS AS DUMMY

Table 477. Structure SCAT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		SCAT1BLK	"B'00010000'" TRUNCATE THIS SYSOUT CLASS
		.... 1...		SCAT1TCL	"B'00001000'" TRAKCELL THIS SYSOUT CLASS
		1		SCAT1INV	"B'00000001'" INVALID SYSOUT CLASS
1	(1)	BITSTRING	1	SCATFLG2	SYSOUT CLASS FLAG BYTE 2
1	(1)	X'10'	0	SCT2NODP	"$ODPURGE" NORMAL OUTDISP=PURGE
1	(1)	X'8'	0	SCT2NODW	"$ODWRITE" NORMAL OUTDISP=WRITE
1	(1)	X'4'	0	SCT2NODH	"$ODHOLD" NORMAL OUTDISP=HOLD
1	(1)	X'2'	0	SCT2NODK	"$ODKEEP" NORMAL OUTDISP=KEEP
1	(1)	X'1'	0	SCT2NODL	"$ODLEAVE" NORMAL OUTDISP=LEAVE
1	(1)	X'1F'	0	SCT2NODA	"$ODANYWP" CHECK ALL BIT SETTINGS
2	(2)	BITSTRING	1	SCATFLG3	SYSOUT CLASS FLAG BYTE 3
2	(2)	X'10'	0	SCT3AODP	"$ODPURGE" ABNORMAL OUTDISP=PURGE
2	(2)	X'8'	0	SCT3AODW	"$ODWRITE" ABNORMAL OUTDISP=WRITE
2	(2)	X'4'	0	SCT3AODH	"$ODHOLD" ABNORMAL OUTDISP=HOLD
2	(2)	X'2'	0	SCT3AODK	"$ODKEEP" ABNORMAL OUTDISP=KEEP
2	(2)	X'1'	0	SCT3AODL	"$ODLEAVE" ABNORMAL OUTDISP=LEAVE
2	(2)	X'1F'	0	SCT3AODA	"$ODANYWP" CHECK ALL BIT SETTINGS
2	(2)	X'3'	0	SCATLEN	"*-SCAT" LENGTH OF A SCAT ENTRY

Table 478. Cross Reference for $SCAT

Name	Offset	Hex Tag
SCAT	0	
SCATFLG1	0	
SCATFLG2	1	
SCATFLG3	2	
SCATLEN	2	3
SCATYPES	0	E0
SCAT1BLK	0	10
SCAT1DUM	0	20
SCAT1INV	0	1
SCAT1PCH	0	40
SCAT1PRT	0	80
SCAT1TCL	0	8
SCT2NODA	1	1F
SCT2NODH	1	4
SCT2NODK	1	2
SCT2NODL	1	1
SCT2NODP	1	10
SCT2NODW	1	8
SCT3AODA	2	1F
SCT3AODH	2	4
SCT3AODK	2	2

Table 478. Cross Reference for $SCAT (continued)

Name	Offset	Hex Tag
SCT3AODL	2	1
SCT3AODP	2	10
SCT3AODW	2	8

Chapter 193. $SCID Information

$SCID Programming Interface Information

The following fields are **NOT** programming interface information:

- SCIDDSB
- SCIDSPUD
- SPUD_ACTIVE_COUNT
- SPUD_CHECK_AREA
- SPUD_DATASET_SIZE
- SPUD_ENQUEUE_COUNT
- SPUD_FREE_ALET
- SPUD_FREE_QUEUE
- SPUD_FREE_STOKEN
- SPUD_HOLD
- SPUD_HOLD_ALET
- SPUD_HOLD_STOKEN
- SPUD_LATEST_ALET
- SPUD_LATEST_STOKEN
- SPUD_LATEST_VERSION
- SPUD_LIVE_ALET
- SPUD_LIVE_STOKEN
- SPUD_LIVE_VERSION

$SCID Heading Information

Common Name:	Summary of Checkpoint Information
Macro ID:	$SCID
DSECT Name:	SCID
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	SCID Offset: SCIDID-SCID Length: L'SCIDID
Storage Attributes:	Subpool: 231 Key: 1 Residency: Virtual and real storage are anywhere, above or below 16M, in common storage.
Size:	See SCIDSIZE
Created by:	HASPCKVR during initialization processing
Pointed to by:	CCTSCIDS field of the $HCCT data area
Serialization:	All applicable techniques
Function:	This control block contains the necessary information needed by the Checkpoint Versions Subtask. It provides the means by which authorized programs access the checkpoint versions contained within the checkpoint data spaces.

$SCID mapping

Table 479. Structure SCID

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SCID	
0	(0)		1	(0)	Quad word align
0	(0)	CHARACTER	4	SCIDID	SCID eye catcher
4	(4)	BITSTRING	1	SCIDSUBP	SCID subpool
5	(5)	BITSTRING	3	SCIDLEN	SCID length
8	(8)	BITSTRING	1	SCIDCBVN	Control block vers. no
9	(9)	BITSTRING	1	SCIDFLG	Flag Byte-subtask stats
		1...		SCIDDSE	"B'10000000'" Data spaces exist
		.1..		SCIDDISA	"B'01000000'" Subtask disabled
		..1.		SCIDPJ2	"B'00100000'" Subtask in PJES2
		...1		SCIDSINA	"B'00010000'" Subtask inactive
		.... 1...		SCIDSREC	"B'00001000'" Subtask in recovery
10	(A)	BITSTRING	1	SCIDFLG2	Flag Byte-Versning stat
		.1..		SCIDVACT	"B'01000000'" Versioning active
11	(B)	BITSTRING	1		
12	(C)	CHARACTER	8	SCIDNAME(0)	Requested name of data sp
12	(C)	CHARACTER	4	SCIDSTNM	Subtask name 'CKVR'
16	(10)	CHARACTER	4	SCIDSSNM	Subsystem name 'JESX'
20	(14)	CHARACTER	8	SCIDDSPN	Official name of d.s.
28	(1C)	SIGNED	4	SCIDDSIZ	Size of data space
32	(20)	ADDRESS	4	SCIDSORG	Origin of data space
36	(24)	SIGNED	4	SCIDVRNO	Running version number
40	(28)	ADDRESS	4	SCIDDSB	Addr of data space DSB
44	(2C)	CHARACTER	8	SCIDSTCK(0)	Time of last request
44	(2C)	SIGNED	4	SCIDREQT	Primary part -time
48	(30)	SIGNED	4		Last part of time
52	(34)	CHARACTER	16	SCIDCVMN	Cur version ENQ minor name
68	(44)	CHARACTER	16	SCIDNVMN	Next version ENQ minor name
84	(54)	SIGNED	2	SPUD_MAX_VERSIONS	Max versions in dataspace
86	(56)	BITSTRING	10		Reserved for alignment
96	(60)		1	(0)	Quad word align
96	(60)	CHARACTER	16	SPUD_LATEST_VERSION(0)	Active Q head area
96	(60)	ADDRESS	4	SPUD_LATEST_ADDR	Active Q head addr
100	(64)	SIGNED	4	SPUD_LATEST_ALET	Active ALET
104	(68)	BITSTRING	8	SPUD_LATEST_STOKEN	Active STOKEN
112	(70)	BITSTRING	16	SPUD_FREE_QUEUE(0)	Free Q head area
112	(70)	ADDRESS	4	SPUD_FREE_ADDR	Free Q head addr
116	(74)	SIGNED	4	SPUD_FREE_ALET	Free ALET
120	(78)	BITSTRING	8	SPUD_FREE_STOKEN	STOKEN of free version
128	(80)	BITSTRING	16	SPUD_HOLD(0)	Hold area CVCB
128	(80)	ADDRESS	4	SPUD_HOLD_ADDR	Hold area Address
132	(84)	SIGNED	4	SPUD_HOLD_ALET	Hold ALET
136	(88)	BITSTRING	8	SPUD_HOLD_STOKEN	STOKEN of free area
144	(90)	BITSTRING	16	SPUD_LIVE_VERSION(0)	Live version CVCB area
144	(90)	ADDRESS	4	SPUD_LIVE_ADDR	Ptr to live version CVCB
148	(94)	SIGNED	4	SPUD_LIVE_ALET	Live ALET
152	(98)	BITSTRING	8	SPUD_LIVE_STOKEN	STOKEN of live version
160	(A0)	BITSTRING	16	OLD_LIVE_VERSION(0)	Old live version CVCB area
160	(A0)	ADDRESS	4	OLD_LIVE_ADDR	Old live version CVCB addr

Table 479. Structure SCID (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
164	(A4)	SIGNED	4	OLD_LIVE_ALET	Old live ALET
168	(A8)	BITSTRING	8	OLD_LIVE_STOKEN	Old STOKEN of live version
176	(B0)	ADDRESS	4	SPUD_CHECK_AREA	Low end of area
180	(B4)	SIGNED	4	SPUD_ACTIVE_COUNT	Number in active queue
184	(B8)	SIGNED	4	SPUD_ENQUEUE_COUNT	Number of CVCBs w/ enqueues
188	(BC)	SIGNED	4		Reserved
192	(C0)	SIGNED	4	SPUD_DATASET_SIZE	Size MR+4K pages
196	(C4)	SIGNED	4	(4)	Reserved
196	(C4)	X'D4'	0	SCIDSIZE	"*-SCID"
		.... ..1.		SCIDCVNO	"X'02'"
196	(C4)	X'C3C9C4'	0	SCIDEYEC	"C'SCID'"

Table 480. Cross Reference for $SCID

Name	Offset	Hex Tag
OLD_LIVE_ADDR	A0	
OLD_LIVE_ALET	A4	
OLD_LIVE_STOKEN	A8	
OLD_LIVE_VERSION	A0	
SCID	0	
SCIDCBVN	8	
SCIDCVMN	34	
SCIDCVNO	C4	2
SCIDDISA	9	40
SCIDDSB	28	
SCIDDSE	9	80
SCIDDSIZ	1C	
SCIDDSPN	14	
SCIDEYEC	C4	C3C9C4
SCIDFLG	9	
SCIDFLG2	A	
SCIDID	0	
SCIDLEN	5	
SCIDNAME	C	
SCIDNVMN	44	
SCIDPJ2	9	20
SCIDREQT	2C	
SCIDSINA	9	10
SCIDSIZE	C4	D4
SCIDSORG	20	
SCIDSREC	9	8
SCIDSSNM	10	
SCIDSTCK	2C	
SCIDSTNM	C	
SCIDSUBP	4	
SCIDVACT	A	40
SCIDVRNO	24	
SPUD_ACTIVE_COUNT	B4	
SPUD_CHECK_AREA	B0	

Table 480. Cross Reference for $SCID (continued)

Name	Offset	Hex Tag
SPUD_DATASET_SIZE	C0	
SPUD_ENQUEUE_COUNT	B8	
SPUD_FREE_ADDR	70	
SPUD_FREE_ALET	74	
SPUD_FREE_QUEUE	70	
SPUD_FREE_STOKEN	78	
SPUD_HOLD	80	
SPUD_HOLD_ADDR	80	
SPUD_HOLD_ALET	84	
SPUD_HOLD_STOKEN	88	
SPUD_LATEST_ADDR	60	
SPUD_LATEST_ALET	64	
SPUD_LATEST_STOKEN	68	
SPUD_LATEST_VERSION	60	
SPUD_LIVE_ADDR	90	
SPUD_LIVE_ALET	94	
SPUD_LIVE_STOKEN	98	
SPUD_LIVE_VERSION	90	
SPUD_MAX_VERSIONS	54	

Chapter 194. $SCK Information

$SCK Programming Interface Information

$SCK is a programming interface.

$SCK Heading Information

Common Name:	NJE/TCP Socket
Macro ID:	$SCK
DSECT Name:	SCK
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	SCK Offset: SCKID Length: 4
Storage Attributes:	Subpool: 0 Key: 1 Residency: VIRTUAL - anywhere REAL - anywhere
Size:	See SCKLEN
Created by:	SOCKDYN service in HASPTCP
Pointed to by:	MDCTSCK field of the $DCT data area $SOCKTBL field of the $HCT data area SCKNEXT field of the $SCK data area
Serialization:	JES2 main task
Function:	An SCK describes a TCP/IP socket.

$SCK mapping

Table 481. Structure SCK

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SCK	TCP/IP socket DSECT
0	(0)	CHARACTER	4	SCKID	Control block identifier
0	(0)	X'1'	0	SCKVRNUM	"1" Control block version equate
4	(4)	ADDRESS	1	SCKVRSN	Control block version
5	(5)	ADDRESS	3		Reserved for future use
8	(8)	CHARACTER	8	SCKNAME	SCK symbolic name
16	(10)	ADDRESS	4	SCKNEXT	Addr of next SCK
20	(14)	CHARACTER	255	SCKHNAME	IP host name for this socket
275	(113)	CHARACTER	1		
276	(114)	BITSTRING	16	SCKIPAD	IP address (binary)
292	(124)	CHARACTER	16	SCKPORTN	Associated Port Name
308	(134)	SIGNED	2	SCKPORT	Associated Port Number
310	(136)	SIGNED	2	SCKNODE	Node number where socket exists
312	(138)	SIGNED	2	SCKLINE	Dedicated line number
314	(13A)	SIGNED	2	SCKREST	Resistance
316	(13C)	SIGNED	2	SCKSERV	Server DCT number
318	(13E)	BITSTRING	1	SCKFLAG1	Flags
		1...		SCK1SECU	"B'10000000'" Secure socket

Table 481. Structure SCK (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		SCK1DPRT	"B'01000000'" Default port number used
		..1.		SCK1DIP	"B'00100000'" Default IP address used
		...1		SCK1ACT	"B'00010000'" Socket active
		.... 1...		SCK1ANCY	"B'00001000'" Automatically start NJE to this socket
		.... .1..		SCK1ANCN	"B'00000100'" Never automatically start NJE to this socket
319	(13F)	BITSTRING	1		Reserved
320	(140)	ADDRESS	4	SCKSDCT	Address of NETSRV DCT
324	(144)	ADDRESS	4	SCKLDCT	Address of LINE DCT
328	(148)	SIGNED	4	SCKSKID	Socket id (assigned by IAZNJSTK)
332	(14C)	SIGNED	2	SCKANINT	Restart interval (minutes)
334	(14E)	BITSTRING	2		Reserved
336	(150)	SIGNED	4	SCKANTIM	Disconnect time (STCK)
344	(158)	ADDRESS	8	SCKCDCT	CDCT address
352	(160)	DBL WORD	8	(0)	
352	(160)	X'160'	0	SCKLEN	"*-SCK" LENGTH OF SCK

Table 482. Cross Reference for $SCK

Name	Offset	Hex Tag
SCK	0	
SCKANINT	14C	
SCKANTIM	150	
SCKCDCT	158	
SCKFLAG1	13E	
SCKHNAME	14	
SCKID	0	
SCKIPAD	114	
SCKLDCT	144	
SCKLEN	160	160
SCKLINE	138	
SCKNAME	8	40404040
SCKNEXT	10	
SCKNODE	136	0
SCKPORT	134	
SCKPORTN	124	
SCKREST	13A	
SCKSDCT	140	
SCKSERV	13C	
SCKSKID	148	
SCKVRNUM	0	1
SCKVRSN	4	
SCK1ACT	13E	10
SCK1ANCN	13E	4
SCK1ANCY	13E	8
SCK1DIP	13E	20

Table 482. Cross Reference for $SCK (continued)

Name	Offset	Hex Tag
SCK1DPRT	13E	40
SCK1SECU	13E	80

Chapter 195. $SCT Information

$SCT Heading Information

Common Name: SCT
Macro ID: $SCT
DSECT Name: SCT
Owning Component: JES2 (SC1BH)
Eye-Catcher ID:
```
SCT
Offset:  SCTSCTID
Length:  L'SCTSCTID
```
Storage Attributes:
```
Subpool:   0
Key:       1
Residency: Virtual and real storage are above 16M, in the
private storage of the JES2 address space.
```

Size: See SCTLEN
Created by: HASPIRMA
Pointed to by: $SCT field of the HCT data area
Serialization: Normal JES2 PCE dispatch serialization
Function: The SCT contains data relevant to the execution of the Spin PCEs. It is used by the Spin PCEs for spin processing related communication.

$SCT mapping

Table 483. Structure SCT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SCT	
0	(0)	X'1000'	0	SCTLEN	"4096" Length of SCT
0	(0)	CHARACTER	4	SCTSCTID	SCT eyecatcher
4	(4)	ADDRESS	1	SCTVER	SCT version number
4	(4)	X'2'	0	SCTVERN	"2" SCT version
5	(5)	ADDRESS	1	SCTFLAG1	Spin PCE flags
		1...		SCT1TDIS	"B'10000000'" Spin PCE trace disabled
		.1..		SCT1TRCI	"B'01000000'" Trace table initialized
6	(6)	SIGNED	2		Reserved for future use

Table 483. Structure SCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Spin processing count fields. The following counts are maintained: SCTSPPR: Count of all spin IOTs processed. This field is incremented by one each time HASPSPIN processes a spin IOT from the FIFO queue in the HCCT. This includes IOTs for which JOEs are built as well as IOTs which are unspun. SCTSPUN: Count of all spin IOTs which have been unspun. SCTUNPR: Count of all unspun IOTs which have been successfully processed for output. In general: > SCTSPUN = SCTUNPR when no unspun IOTs exist. > CCTSPINC = SCTSPPR when no spin IOTs exist in the HCCT (CCTSPIOT=CCTFIFOQ=0). Errors (as reported by $DISTERR) will affect the consistency of these counts.			
8	(8)	SIGNED	4	SCTSPPR	Count of spin IOTs proc'd
12	(C)	SIGNED	4	SCTSPUN	Count of spin IOTs unspun
16	(10)	SIGNED	4	SCTUNPR	Count of unspun IOTs proc'd
20	(14)	SIGNED	4		Reserved
		HASPSPIN Recovery information and parameters. The time interval values in seconds are used to compare against the first word of the STCK value. POPs indicates that bit position 31 of the clock is incremented every 1.048576 seconds. For the purposes of determining abend intervals this is considered a close enough approximation of one second.			
24	(18)	SIGNED	4	SCTABDT	Count of abends - total
32	(20)	DBL WORD	8	SCTABTIM	HASPSPIN abend time marker
32	(20)	X'258'	0	SCT10MIN	"10*60" 10 minutes (in seconds)
32	(20)	X'4B0'	0	SCT20MIN	"20*60" 20 minutes (in seconds)
40	(28)	SIGNED	4	SCTABD20	Count of abends in 20 min.
44	(2C)	SIGNED	4		Reserved for future use
48	(30)	SIGNED	4		Reserved for future use
52	(34)	SIGNED	4		Reserved for future use
56	(38)	SIGNED	4		Reserved for future use
60	(3C)	SIGNED	4		Reserved for future use
64	(40)	DBL WORD	8		Reserved for future use
		The Spin PCE trace table occupies the remainder of the SCT. Note that a minimum of ten entries are defined. The actual number of entries is a function of the remaining space in the SCT up to the actual size as defined by SCTLEN.			
72	(48)	DBL WORD	8	(0)	
72	(48)	SIGNED	4	SCTTCUR	Addr of current trace entry
76	(4C)	SIGNED	4	SCTTLAST	Addr of last trace entry
80	(50)	DBL WORD	8	(0)	
80	(50)	ADDRESS	4	SCTTTAB(0)	HASPSPIN trace table ** minimum of 10 entries **

Table 484. Structure SCTTRENT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SCTTRENT	
0	(0)	SIGNED	4	SCTTWD0	Spin PCE trace entry word 0
0	(0)	X'0'	0	SCTTTYP0	"0" Trace type 0
0	(0)	X'1'	0	SCTTTYP1	"1" Trace type 1
0	(0)	X'2'	0	SCTTTYP2	"2" Trace type 2
0	(0)	X'3'	0	SCTTTYP3	"3" Trace type 3
0	(0)	X'4'	0	SCTTTYP4	"4" Trace type 4
0	(0)	X'5'	0	SCTTTYP5	"5" Trace type 5
0	(0)	X'6'	0	SCTTTYP6	"6" Trace type 6
4	(4)	SIGNED	4	SCTTWD1	Spin PCE trace entry word 1
8	(8)	SIGNED	4	SCTTWD2	Spin PCE trace entry word 2
12	(C)	SIGNED	4	SCTTWD3	Spin PCE trace entry word 3
16	(10)	SIGNED	4	SCTTWD4	Spin PCE trace entry word 4
20	(14)	SIGNED	4	SCTTWD5	Spin PCE trace entry word 5
24	(18)	SIGNED	4	SCTTWD6	Spin PCE trace entry word 6
28	(1C)	SIGNED	4	SCTTWD7	Spin PCE trace entry word 7
28	(1C)	X'20'	0	SCTTESIZ	"*-SCTTRENT" Size of single trace entry

Table 485. Cross Reference for $SCT

Name	Offset	Hex Tag
SCT	0	
SCTABDT	18	
SCTABD20	28	
SCTABTIM	20	
SCTFLAG1	5	
SCTLEN	0	1000
SCTSCTID	0	E2C3E340
SCTSPPR	8	0
SCTSPUN	C	0
SCTTCUR	48	
SCTTESIZ	1C	20
SCTTLAST	4C	
SCTTRENT	0	
SCTTTAB	50	
SCTTTYP0	0	0
SCTTTYP1	0	1
SCTTTYP2	0	2
SCTTTYP3	0	3
SCTTTYP4	0	4
SCTTTYP5	0	5
SCTTTYP6	0	6
SCTTWD0	0	
SCTTWD1	4	
SCTTWD2	8	
SCTTWD3	C	
SCTTWD4	10	
SCTTWD5	14	
SCTTWD6	18	

Table 485. Cross Reference for $SCT (continued)

Name	Offset	Hex Tag
SCTTWD7	1C	
SCTUNPR	10	0
SCTVER	4	
SCTVERN	4	2
SCT1TDIS	5	80
SCT1TRCI	5	40
SCT10MIN	20	258
SCT20MIN	20	4B0

Chapter 196. $SDB Information

$SDB Programming Interface Information

The following fields are **NOT** programming interface information:

- SDBAPBL
- SDBDEB
- SDBJFCB
- SDBJFCBE
- SDBPBLAC
- SDBPBLFL
- SDBPBLIN
- SDBRPL
- SDBTCBM
- SDBTCBO
- SDBTRK
- SDBTRKF
- SDBTRKL
- SDBUPRBA

$SDB Heading Information

Common Name:	SDB - JES2 Subsystem Dataset Block
Macro ID:	$SDB
DSECT Name:	SDB
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'SDB ' Offset: SDBID-SDB Length: 4
Storage Attributes:	Subpool: 249 Key: 1 Residency: Virtual storage is in 31 bit storage, real can be in 64 bit storage, in the address space of the application that is reading or writing the subsystem dataset represented by this SDB.
Size:	See SDBLNG. The actual length will be stored in SDBLENG when the $SDB is created.
Created by:	The $SDBINIT service routine and the FGDSALOC routine.
Pointed to by:	GCBSDB field of the $GDB data area SJBSDB field of the $SJB data area SJXWTCHN field of the $SJXB data area SDBSDB field of the $SDB data area SDBWTCHN field of the $SDB data area DEBIRBB field of the DEB data area (after OPEN) contains bits 1-24 of the address
Serialization:	HAM uses an SDB lock (with an ENQ) to serialize all puts to the SDB and any authorized functions.

$SDB Heading Information

Function: The SDB represents a subsystem dataset. It indicates the state of the dataset (open/closed, input/output, I/O active, etc). It holds pointers to other subsystem control blocks and holds the address (MTTR) of the next available record on SPOOL for output. The chain of buffers needed for I/O is chained to it.

$SDB mapping

Table 486. Structure SDB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SDB	
0	(0)	BITSTRING	168	SDBSAVE	Save area
168	(A8)	CHARACTER	4	SDBID	SDB IDENTIFIER
172	(AC)	SIGNED	2	SDBLENG	SDB LENGTH
174	(AE)	BITSTRING	2		Reserved
176	(B0)	SIGNED	4	SDBR14SV	HPMOVE R14 save area
180	(B4)	BITSTRING	1	SDBFLG1	FLAG BYTE 1
		1...		SDB1GET	"B'10000000'" GET ALLOWED
		.1..		SDB1ENQ	"B'01000000'" Exit 9 ENQ obtained
		..1.		SDB1PUT	"B'00100000'" PUT ALLOWED
		...1		SDB1HPUT	"B'00010000'" At least one put done (data set is not null)
		.... 1...		SDB1OUT	"B'00001000'" CARRIAGE CONTROL ALLOWED
		.... .1..		SDB1CLOS	"B'00000100'" Do not get chaining track, data set is closing
		.... ..1.		SDB1ENDR	"B'00000010'" Do not get chaining track, ENDREQ request
		1		SDB1FOPN	"B'00000001'" INIT DATA SET - FAKE-OPENED
181	(B5)	BITSTRING	1	SDBFLG2	FLAG BYTE 2
		1...		SDB2IOE	"B'10000000'" Permanent I/O error
		.1..		SDB2VAL	"B'01000000'" Validation error
		..1.		SDB2VDK	"B'00100000'" Data set key mismatch
		...1		SDB2EOD	"B'00010000'" End of data set
		.... 1...		SDB2GLM	"B'00001000'" Locate mode gets allowed
		.... .1..		SDB2DSRS	"B'00000100'" Data set restart-EOD or IOE
		.... ..1.		SDB2XBIN	"B'00000010'" This is batch input unit
		1		SDB2INDX	"B'00000001'" Data set to be/is indexed
182	(B6)	BITSTRING	1	SDBFLGM	Miscellaneous flag byte
		1...		SDBMJML	"B'10000000'" JESMSGLG dataset
		.1..		SDBMJSM	"B'01000000'" JESYSMSG dataset
182	(B6)	X'C0'	0	SDBMSJDS	"SDBMJML+SDBMJSM" Special JES2 data sets

Table 486. Structure SDB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		SDBMRSKP	"B'00100000'" Records skipped due to I/O error on GET
		...1		SDBEVSKP	"B'00010000'" EVENTLOG records being skipped during GET due to view filtering
		SDBFLAGY flag byte is used to control instream symbol substitution. See PDBFLAGY for description.			
183	(B7)	BITSTRING	1	SDBFLAGY	Symbol substitution flags for DD * and DD DATA:
184	(B8)	CHARACTER	8	SDBDDNM	DDNAME OF DATA SET
192	(C0)	SIGNED	4	SDBOPNCT	DATA SET OPEN COUNT
		SDBTCBM is always job step TCB. When the job step TCB ends, the SDB is removed. SDBTCBO is the TCB that owns the memory for the SDB. That is normally the Region Control task.			
196	(C4)	ADDRESS	4	SDBTCBM	TCB managing SDB memory
200	(C8)	ADDRESS	4	SDBTCBO	TCB owning the SDB memory
204	(CC)	ADDRESS	4	SDBHCCT	POINTER TO HASP HCCT
208	(D0)	ADDRESS	4	SDBSJB	POINTER TO SJB
212	(D4)	ADDRESS	4	SDBSDB	POINTER TO NEXT SDB OFF SJB
216	(D8)	ADDRESS	4	SDBJFCBE	POINTER TO JFCB EXTENSION
220	(DC)	ADDRESS	4	SDBPIOT	POINTER TO PDDB IOT
224	(E0)	ADDRESS	4	SDBPDDB	POINTER TO PDDB
228	(E4)	SIGNED	4	SDBPDDBA	ALET of PDDB
		Related data area. SDBCBADR is a related CB CB address and SDBCBALE is the ALET for the related CB. The data area is based on bits in SDBFLG4 or SDBFLG6.			
232	(E8)	SIGNED	4	SDBCBALE	ALET for related CB
236	(EC)	ADDRESS	4	SDBCBADR	Address of related CB
		If SDB6SAPI then related CB is a SAPID			
236	(EC)	X'E8'	0	SDBSAPAL	"SDBCBALE,4,C'F'" ALET for the SAPI data spc
236	(EC)	X'EC'	0	SDBSAPID	"SDBCBADR,4,C'A'" Address of SAPID. The SAPID is in a data space.
		If SDB4IRDR or SDB4NJET related CB is the JRW in the IRWD			
236	(EC)	X'EC'	0	SDBJRW	"SDBCBADR,4,C'A'" Address of JRW.
240	(F0)	DBL WORD	8	(0)	ALIGN SDBTAB ON DOUBLE WORD
240	(F0)	BITSTRING	1	SDBTAB	Major/minor TAB
240	(F0)	X'F8'	0	SDBAIOT	"TABAIOT-TAB+SDBTAB,,C'A'" POINT TO ALLOCATION IOT
252	(FC)	ADDRESS	4	SDBDEB	Pointer to last DEB that was OPENed
256	(100)	DBL WORD	8	SDBTRKF	FIRST RBA
264	(108)	DBL WORD	8	SDBTRK	RBA OF 1ST LREC IN CURRENT UBF
272	(110)	DBL WORD	8	SDBTRKL	ENDING RBA

Table 486. Structure SDB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
280	(118)	CHARACTER	8	SDBKEY(0)	RECORD VERIFICATION KEY --- (must stay as C type for HASCOFST to compile)
280	(118)	BITSTRING	4	SDBJKEY	4-BYTE UNIQUE JOB KEY
284	(11C)	BITSTRING	4	SDBDKEY	4-BYTE UNIQUE DS NO. IN JOB
288	(120)	SIGNED	8	SDBSRECN	Record number of DS start
296	(128)	BITSTRING	1	SDBJMEMN	Target job's member number
297	(129)	BITSTRING	1	SDBHPFCT	HPUTFULL call count
298	(12A)	SIGNED	2	SDBJASID	TARGET JOB'S ASID (BROWSE)
300	(12C)	CHARACTER	8	SDBRCID	8 CHAR RECVR ID FOR BROWSE
308	(134)	SIGNED	4	SDBLOGAD	ADDR OF BROWSE LOG STRING
312	(138)	BITSTRING	1	SDBFLGAS	Asynchronous flag byte (updates serialized by local lock)
		...1		SDBASJBL	"B'00010000'" Waiting for job buf limit
		.... 1...		SDBASBWT	"B'00001000'" Waiting for buffer (data set or job limit)
313	(139)	BITSTRING	1	SDBFLG3	FLAG BYTE 3
		1...		SDB3NIRB	"B'10000000'" Release TCBNOIRB when SDBLOCK is released
		.1..		SDB3SRBO	"B'01000000'" Do not position to start of UBF. It was SRB obtained
		..1.		SDB3LINE	"B'00100000'" RECORD IS LINE MODE
		...1		SDB3PAGE	"B'00010000'" RECORD IS PAGE DATA
		.... 1...		SDB3OUTX	"B'00001000'" ABEND722 IN PROGRESS
		.... .1..		SDB3PBAD	"B'00000100'" PUT was unsuccessful
		.... ..1.		SDB3PSP	"B'00000010'" HPMOVE spanning record
		1		SDB3BTRC	"B'00000001'" DATASET BLANKS TRUNCATED
314	(13A)	BITSTRING	1	SDBFLG4	FLAG BYTE 4
		1...		SDB4PSO	"B'10000000'" PROCESS-SYSOUT DATA SET
		.1..		SDB4SYIN	"B'01000000'" SYSIN DATA SET
		..1.		SDB4SOUT	"B'00100000'" SYSOUT DATA SET
		...1		SDB4RECV	"B'00010000'" DATA SET ALLOCATED FOR RECV
		.... 1...		SDB4SPBR	"B'00001000'" SPOOL BROWSE DATA SET
		.... .1..		SDB4NJET	"B'00000100'" NJE/TCP data set
		.... ..1.		SDB4TNJR	"B'00000010'" NJE/TCP Job Receiver
		1		SDB4IRDR	"B'00000001'" Internal reader data set
315	(13B)	BITSTRING	1	SDBFLG5	FLAG BYTE 5 SERIALIZATION: NONE (DO NOT USE IN SIO OR CHANNEL END APPENDAGES)
		1...		SDB5ASY	"B'10000000'" Asynchronous request

Table 486. Structure SDB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		SDB5OUTL	"B'01000000'" OUTLIM exceeded for normal PUT request
		..1.		SDB5SBNS	"B'00100000'" Spool browse - Do not attempt SRB for this DS (no more data available)
		...1		SDB5INCI	"B'00010000'" Logical data set being processed-JCL, JOBLOG..
		.... 1...		SDB5ADFR	"B'00001000'" Defer excession limit ABEND (set during close)
		.... .1..		SDB5ABND	"B'00000100'" ABEND for output limit excession (Never reset)
		.... ..1.		SDB5ADMP	"B'00000010'" A DUMP is requested for the 722 ABEND (Never reset)
		1		SDB5ADON	"B'00000001'" An ABEND 722 has been for this data set (reset if a second ABEND is needed)
316	(13C)	BITSTRING	1	SDBFLG6	Flag byte 6
		1...		SDB6SAPI	"B'10000000'" Sysout API data set This serves as a modifier of SDB4PSO
		.1..		SDB6GONE	"B'01000000'" SAPID has been freed
		..1.		SDB6PRT	"B'00100000'" Print data set
		...1		SDB6PUN	"B'00010000'" Punch data set
		.... 1...		SDB6TCL	"B'00001000'" Track cell data set
		.... .1..		SDB6FTRK	"B'00000100'" Full track despool data set
		.... ..1.		SDB6NSRB	"B'00000010'" No SRBs for this data set
		1		SDB6UPDG	"B'00000001'" Update mode GET active
317	(13D)	BITSTRING	1	SDBFLG7	Flag byte 7
		1...		SDB7PUT1	"B'10000000'" Indicate first put is done in a segment
		.1..		SDB7SPIN	"B'01000000'" SPIN is required for segmentation
		..1.		SDB7SUPD	"B'00100000'" Segmentation is suspended
		...1		SDB7NULL	"B'00010000'" PDB1NULL was on when data set (fake) opened
		.... 1...		SDB7JLOG	"B'00001000'" Joblog data set (set only if SPOOL browse SDB)
		.... .1..		SDB7JRPL	"B'00000100'" Extended JES2 mode RPL in use
		.... ..1.		SDB7KSET	"B'00000010'" Callers KEY is already set in SDB (do not reset)
		1		SDB7SPC	"B'00000001'" Data set spinning support via $SPIN

Table 486. Structure SDB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		SDB7PSCR indicates SCRs are to be processed as normal records. This bit is only honored if an extended RPL is passed (SDB7JRPL is on). Processing is altered as follows: GET - SCRs are returned to the caller. RPLH1SCR is set if the current record is an SCR.			
		1		SDB7PSCR	"B'00000001'" GET - Request SCRs returned
		The flag bits in SDBFLG8 are used to document why an open failed in the HASP708 message.			
318	(13E)	BITSTRING	1	SDBFLG8	Flag byte 8
		1...		SDB8TRAK	"B'10000000'" Internal $TRAK error
		.1..		SDB8CBIO	"B'01000000'" Internal $CBIO error
		..1.		SDB8GASN	"B'00100000'" $GASSIGN error
		...1		SDB8SJFR	"B'00010000'" SJFREQ error
		.... .1..		SDB8GETB	"B'00000100'" GETBUF failure
		.... ..1.		SDB8NRA	"B'00000010'" Suspend read ahead
319	(13F)	BITSTRING	1		Reserved
320	(140)	ADDRESS	4	SDBDSCA	DSCA chain pointer
324	(144)	ADDRESS	4	SDBDSCAW	Working DSCA CB address
328	(148)	ADDRESS	4	SDBDSCE	Current DSCE address
332	(14C)	ADDRESS	4	SDBCDSCE	Channel end DSCE address
336	(150)	ADDRESS	4	SDBSJIOB	SJIOB for CBIO
340	(154)	ADDRESS	4	SDBJFCB	Pointer to JFCB
344	(158)	DBL WORD	8	(0)	Ensure doubleword alignment
344	(158)		8	SDBOUTLM	SYSOUT OUTLIM= PARAMETER
344	(158)	X'158'	0	SDBPRECN	"SDBOUTLM,8,C'D'" Prev record number (POINT)
352	(160)	ADDRESS	4	SDBWTCHN	Buffer wait chain
356	(164)	SIGNED	4	SDBSGMT	NUMBER OF LOGICAL PAGES PER SEGMENT
360	(168)	SIGNED	4	SDBSEGID	SEGMENT IDENTIFIER
364	(16C)	SIGNED	4	SDBPGCT	Logical page counter use for segmentation
368	(170)	DBL WORD	8	SDBOWNER	Owning TCB information
368	(170)	X'168'	0	SDBTTOKN	"SDBOWNER-8,16" TCB Token placed here at SDB Free time; not formatted in dump
376	(178)	BITSTRING	1	SDBCPSWK	Caller PSW byte 1 (key)
377	(179)	BITSTRING	1		Reserved
378	(17A)	SIGNED	1	SDBGETCT	PROTGET count (number of calls without a point)
379	(17B)	SIGNED	1	SDBSRBCT	PROTSRB count (number of SRB calls in a row)
380	(17C)	SIGNED	4	SDBSRECB	Waiter ECB
380	(17C)	X'4'	0	SDBIVSDB	"4" POST code if SDB no longer OPEN.
384	(180)	ADDRESS	4	SDBBAT	GET processing BAT chain
388	(184)	SIGNED	4	SDBBATCT	GET BAT count

Table 486. Structure SDB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		SDBGMTTR is the next track address that needs to be read for this data set. If this field is zero, that does not imply that we are done reading the data set. It is zero if we are waiting for an I/O to complete. An EXCPVR needs to be issued if: - SDBGMTTR is non-zero - SDBPBLIN is non-zero - There is a BAT (on the SDBBAT chain) that does not have I/O active.			
392	(188)	DBL WORD	8	SDBGMTTI(0)	Next MTTR and flags
392	(188)	SIGNED	4	SDBGMTTR	Next MTTR for GET to read
396	(18C)	BITSTRING	2		Reserved for MQTR
398	(18E)	BITSTRING	1	SDBGMFG1	Migration I/O flags
		1...		SDBG1MPR	"B'10000000'" This MTTR processed for migration
		.1..		SDBG1SOV	"B'01000000'" Source override - use source DAS for I/O
399	(18F)	BITSTRING	1	SDBGMIGT	Migration transition count captured from DAS when I/O is queued
400	(190)	DBL WORD	8	SDBINPBL(0)	--+ Align for CDS/CSG
400	(190)	SIGNED	4	SDBINPBC	| Count of chain updates
404	(194)	ADDRESS	4	SDBPBLIN	--+ GET inactive PBLOCK chain
408	(198)	DBL WORD	8	(0)	--+ Align for CDS
408	(198)	ADDRESS	4	SDBPBLAC	| GET active PBLOCK chain
412	(19C)	ADDRESS	4	SDBPBLFL	--+ GET full PBLOCK chain
416	(1A0)	SIGNED	4	SDBPBLCT	GET PBLOCK count
420	(1A4)	SIGNED	4	SDBPBUFC	GET buffer count in PBLKs
424	(1A8)	ADDRESS	4	SDBAPBL	Current PBLOCK
428	(1AC)	ADDRESS	4	SDBAMTRE	Current MTTR entry
432	(1B0)	CHARACTER	12	SDBENQNM	SDB lock minor name
		MACRO-DATE = 03/16/15			
444	(1BC)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
444	(1BC)	X'1BC'	0	SDBENQ	"*" X02113
444	(1BC)	ADDRESS	1		PELLAST flag byte. X02113
445	(1BD)	ADDRESS	1		PELMILEN - RNAME length.
446	(1BE)	BITSTRING	1		
		PELFLAG - flag byte 2.			
447	(1BF)	ADDRESS	1		PELRET - return code byte.
448	(1C0)	ADDRESS	4		QNAME ADDRESS
452	(1C4)	ADDRESS	4		RNAME ADDRESS
452	(1C4)	X'C'	0	SDBENQL	"*-SDBENQ"
456	(1C8)	ADDRESS	4	SDBUSER1	RESERVED FOR USER
460	(1CC)	ADDRESS	4	SDBUSER2	RESERVED FOR USER
464	(1D0)	SIGNED	4	SDBISTDS	Current instream data set number (initialized to 1)
		BUFFER POINTERS USED BY HAM (USE DEPENDENT ON TYPE OF I/O REQUEST BEING PROCESSED)			
468	(1D4)	ADDRESS	4	SDBUBF	Input - Unprotected buffer
472	(1D8)	ADDRESS	4	SDBPBF	Protected buffer address

Table 486. Structure SDB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
476	(1DC)	ADDRESS	4	SDBSCDR	SPOOL data record in PBF
480	(1E0)	ADDRESS	4	SDBPBFS	PBUF save area (Put update)
484	(1E4)	ADDRESS	4	SDBSCDRS	SCDR save area (Put update)
488	(1E8)	SIGNED	4	SDBPBFCS(0)	----+ Keep next fields together
488	(1E8)	SIGNED	2	SDBPBFAC	| PUT - PBF active count
490	(1EA)	SIGNED	2	SDBPBFCT	----+ PUT - PBF obtained buffers
492	(1EC)	BITSTRING	1	SDBASKEY	Async requestor's key
493	(1ED)	BITSTRING	1	SDBASREQ	Async last request type
494	(1EE)	SIGNED	2	SDBPBFLM	PUT - PBF buffer limit
496	(1F0)	ADDRESS	4	SDBPBFIN	PUT - PBF on it's way from SDBPBF to PBUF chain
500	(1F4)	ADDRESS	4	SDBDSIX	DSIX pointer
504	(1F8)	ADDRESS	4	SDBCDSXE	Current DSXE pointer
508	(1FC)	ADDRESS	4	SDBYSUBF	Buffer used for instream symbol substitution
512	(200)	SIGNED	8	SDBRECN	Current record number
	SDBRPL is used for asynch, locate mode requests				
520	(208)	ADDRESS	4	SDBRPL	Pointer to active RPL chain
524	(20C)	SIGNED	4	SDBXCPCT	PHYSICAL BUFFER I/O COUNT
528	(210)	DBL WORD	8	SDBUPRBA	RBA FOR GET/PUT-UPDATE & POINT
536	(218)	DBL WORD	8	SDBURBAS	POINT RBA save area
544	(220)	BITSTRING	6	SDBPTIME	Time stamp for POINT
550	(226)	BITSTRING	1	SDBFLGP	POINT flag byte
		1...		SDBPPNT	"B'10000000'" Point operation active
		.1..		SDBPRTOK	"B'01000000'" Point operation retryable
		..1.		SDBPRTRY	"B'00100000'" Point retry not attempted
		...1		SDBPTIMN	"B'00010000'" Point by next time
		.... 1...		SDBPTIMP	"B'00001000'" Point by previous time
551	(227)	BITSTRING	1		Reserved
552	(228)	SIGNED	4	SDBHFRCT	HFINDRBA residual count
556	(22C)	SIGNED	4	SDBMTTR	MTTR OF NEXT BLOCK
560	(230)	ADDRESS	4	SDBASECB	Address of async ECB
564	(234)	SIGNED	4	SDBNBLK	NUMBER OF DATA BLOCKS READ
568	(238)	SIGNED	4	SDBBFECB	WAIT-BUF ECB FOR SVCPUTS
572	(23C)	ADDRESS	4	SDBYLGC	Ptr to logging YLGC
576	(240)	DBL WORD	8	SDBDWORK	Doubleword work area
584	(248)	DBL WORD	8	SDBDWRK2	Doubleword work area
584	(248)	X'240'	0	SDBWRK16	"SDBDWORK,16" 16 byte work area
592	(250)	BITSTRING	7	SDBSCDRQ	SCDR work area
599	(257)	BITSTRING	1		Reserved
600	(258)	BITSTRING	6	SDBIOTMQ	MQTR of PDDB IOT
606	(25E)	BITSTRING	2	SDBLGDSV(0)	HAM GET logical data set view types requested
606	(25E)	BITSTRING	1	SDBLGDV1	logical dataset view type1
607	(25F)	BITSTRING	1	SDBLGDV2	logical dataset view type2
	Packed decimal versions of count fields				

Table 486. Structure SDB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
608	(260)		8	SDBDRECD	Logical record count in packed decimal format
616	(268)		8	SDBDPAGE	Actual page count in packed decimal format
624	(270)		8	SDBDBYTE	Actual byte count in packed decimal format
	Binary versions of count fields (for PDDB)				
632	(278)	SIGNED	4	SDBRECCT	Logical record count
636	(27C)	SIGNED	4	SDBPAGCT	Actual page count
640	(280)	SIGNED	4	SDBBYTCT	Actual byte count
644	(284)	ADDRESS	4	SDBSPC	Address of spin control
	PDDB pending update section. When the buffer whose address is specified is seen in the channel end appendage, the corresponding counts are updated in the PDDB.				
648	(288)	SIGNED	4	SDBPNCNT	Buffers updates since last PDDB update
652	(28C)	BITSTRING	4	SDBPNMTT	Buffer address
656	(290)	SIGNED	4	SDBPNREC	Logical record count
660	(294)	SIGNED	4	SDBPNPAG	Actual page count
664	(298)	SIGNED	4	SDBPNBYT	Actual byte count
668	(29C)	ADDRESS	4	SDBLCKRB	RB pointer used by PGEXCPCK
	Diagnostic area for unwritten buffer processing. The following are input areas passed to the SRB.				
672	(2A0)	SIGNED	4	SDBMTTRT	Target MTTR
676	(2A4)	ADDRESS	4	SDBFSDB	SDB address given to SRB
680	(2A8)	DBL WORD	8	SDBBKEY	Unique buffer key
688	(2B0)	ADDRESS	4	SDBSTKN	STOKEN given to IEAMSCHD
	The following are output fields from the SRB.				
692	(2B4)	SIGNED	4	SDBRETC	Return code from PROTSRB
696	(2B8)	BITSTRING	0	SDBSRBOA(0)	Output area from HASCUBSR. Keep fields SDBSDBA thru SDBBPTFA together.
696	(2B8)	ADDRESS	4	SDBSDBA	---+ A(SDB) that matches the key
700	(2BC)	ADDRESS	4	SDBAPBF	| SDBPBF
704	(2C0)	ADDRESS	4	SDBPBFI	| Inflight PBF buffer address
708	(2C4)	ADDRESS	4	SDBBPTR	| Address of found buffer
712	(2C8)	SIGNED	4	SDBBTRK	| MTTR of found buffer
716	(2CC)	ADDRESS	4	SDBBADBF	| Address of invalid buffer
720	(2D0)	ADDRESS	4	SDBADSDB	| Address of invalid SDB
724	(2D4)	ADDRESS	4	SDBBPBF	| BATPBF if checking this Q
728	(2D8)	ADDRESS	4	SDBBPTFA	---+ BATPBFA if checking this Q
728	(2D8)	X'24'	0	SDBSOLEN	"*-SDBSDBA" L'(PROTSRB) diagnostic area
	ASOK fields.				
732	(2DC)	BITSTRING	8	SDBASOK(0)	ASOK fields
734	(2DE)	SIGNED	2	SDBASOKO	Ordinality of ASOK L1
736	(2E0)	SIGNED	2	SDBASOK1	Offset into Level 1 ASOK
738	(2E2)	SIGNED	2	SDBASOK2	Offset into Level 2 ASOK

Table 486. Structure SDB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
	Reserved space				
740	(2E4)	SIGNED	4		Reserved for future use
740	(2E4)	X'300'	0	SDBLNG	"((*-SDB+127)/128)*128" Length of DSECT

Table 487. Structure ASOK

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ASOK	
0	(0)	CHARACTER	4	ASOEYE	Eye catcher ASOK level 1
4	(4)	ADDRESS	4	ASONEXT	Addr of next level 1 ASOK
8	(8)	ADDRESS	4	ASOPTR(0)	Addresses of level 2 ASOKs
8	(8)	X'4'	0	ASOELEN1	"4" Length of one entry ... caution! Length must be a power of 2
8	(8)	X'3FE'	0	ASONRL1	"1022" Number of L1 entries
8	(8)	X'1000'	0	ASOLENL1	"8+ASOELEN1*ASONRL1" Length of L1 ASOKs
	DC C'ASO2' Eye catcher level 2 ASOK				
4	(4)	ADDRESS	4	ASOCOUNT	Count of available entries
8	(8)	ADDRESS	4	ASOSDB(0)	Addresses of SDBs
8	(8)	X'8'	0	ASOELEN2	"8" Length of one entry ... caution! Length must be a power of 2
8	(8)	X'1FF'	0	ASONRL2	"511" Number of L2 entries
8	(8)	X'1000'	0	ASOLENL2	"8+ASOELEN2*ASONRL2" Length of L2 ASOKs
8	(8)	X'8'	0	ASOIRWD	"ASOSDB,4,C'A'" Addresses of IRWDs

Table 488. Cross Reference for $SDB

Name	Offset	Hex Tag
ASOCOUNT	4	
ASOELEN1	8	4
ASOELEN2	8	8
ASOEYE	0	C1E2D6F1
ASOIRWD	8	8
ASOK	0	
ASOLENL1	8	1000
ASOLENL2	8	1000
ASONEXT	4	
ASONRL1	8	3FE
ASONRL2	8	1FF
ASOPTR	8	
ASOSDB	8	
SDB	0	
SDBADSDB	2D0	
SDBAIOT	F0	F8

Table 488. Cross Reference for $SDB (continued)

Name	Offset	Hex Tag
SDBAMTRE	1AC	
SDBAPBF	2BC	
SDBAPBL	1A8	
SDBASBWT	138	8
SDBASECB	230	
SDBASJBL	138	10
SDBASKEY	1EC	
SDBASOK	2DC	
SDBASOKO	2DE	
SDBASOK1	2E0	
SDBASOK2	2E2	
SDBASREQ	1ED	
SDBBADBF	2CC	
SDBBAT	180	
SDBBATCT	184	
SDBBFECB	238	
SDBBKEY	2A8	
SDBBPBF	2D4	
SDBBPTFA	2D8	
SDBBPTR	2C4	
SDBBTRK	2C8	
SDBBYTCT	280	
SDBCBADR	EC	
SDBCBALE	E8	
SDBCDSCE	14C	
SDBCDSXE	1F8	
SDBCPSWK	178	
SDBDBYTE	270	
SDBDDNM	B8	
SDBDEB	FC	
SDBDKEY	11C	
SDBDPAGE	268	
SDBDRECD	260	
SDBDSCA	140	
SDBDSCAW	144	
SDBDSCE	148	
SDBDSIX	1F4	
SDBDWORK	240	
SDBDWRK2	248	
SDBENQ	1BC	1BC
SDBENQL	1C4	C
SDBENQNM	1B0	E2C4C24B
SDBEVSKP	B6	10
SDBFLAGY	B7	
SDBFLGAS	138	
SDBFLGM	B6	
SDBFLGP	226	
SDBFLG1	B4	
SDBFLG2	B5	

Table 488. Cross Reference for $SDB (continued)

Name	Offset	Hex Tag
SDBFLG3	139	
SDBFLG4	13A	
SDBFLG5	13B	
SDBFLG6	13C	
SDBFLG7	13D	
SDBFLG8	13E	
SDBFSDB	2A4	
SDBGETCT	17A	
SDBGMFG1	18E	
SDBGMIGT	18F	
SDBGMTTI	188	
SDBGMTTR	188	
SDBG1MPR	18E	80
SDBG1SOV	18E	40
SDBHCCT	CC	
SDBHFRCT	228	
SDBHPFCT	129	
SDBID	A8	
SDBINPBC	190	
SDBINPBL	190	
SDBIOTMQ	258	
SDBISTDS	1D0	
SDBIVSDB	17C	4
SDBJASID	12A	
SDBJFCB	154	
SDBJFCBE	D8	
SDBJKEY	118	
SDBJMEMN	128	
SDBJRW	EC	EC
SDBKEY	118	
SDBLCKRB	29C	
SDBLENG	AC	
SDBLGDSV	25E	
SDBLGDV1	25E	
SDBLGDV2	25F	
SDBLNG	2E4	300
SDBLOGAD	134	
SDBMJML	B6	80
SDBMJSM	B6	40
SDBMRSKP	B6	20
SDBMSJDS	B6	C0
SDBMTTR	22C	
SDBMTTRT	2A0	
SDBNBLK	234	
SDBOPNCT	C0	
SDBOUTLM	158	
SDBOWNER	170	
SDBPAGCT	27C	
SDBPBF	1D8	

Table 488. Cross Reference for $SDB (continued)

Name	Offset	Hex Tag
SDBPBFAC	1E8	
SDBPBFCS	1E8	
SDBPBFCT	1EA	
SDBPBFI	2C0	
SDBPBFIN	1F0	
SDBPBFLM	1EE	
SDBPBFS	1E0	
SDBPBLAC	198	
SDBPBLCT	1A0	
SDBPBLFL	19C	
SDBPBLIN	194	
SDBPBUFC	1A4	
SDBPDDB	E0	
SDBPDDBA	E4	
SDBPGCT	16C	
SDBPIOT	DC	
SDBPNBYT	298	
SDBPNCNT	288	
SDBPNMTT	28C	
SDBPNPAG	294	
SDBPNREC	290	
SDBPPNT	226	80
SDBPRECN	158	158
SDBPRTOK	226	40
SDBPRTRY	226	20
SDBPTIME	220	
SDBPTIMN	226	10
SDBPTIMP	226	8
SDBRCID	12C	
SDBRECCT	278	
SDBRECN	200	
SDBRETC	2B4	
SDBRPL	208	
SDBR14SV	B0	
SDBSAPAL	EC	E8
SDBSAPID	EC	EC
SDBSAVE	0	
SDBSCDR	1DC	
SDBSCDRQ	250	
SDBSCDRS	1E4	
SDBSDB	D4	
SDBSDBA	2B8	
SDBSEGID	168	
SDBSGMT	164	
SDBSJB	D0	
SDBSJIOB	150	
SDBSOLEN	2D8	24
SDBSPC	284	
SDBSRBCT	17B	

Table 488. Cross Reference for $SDB (continued)

Name	Offset	Hex Tag
SDBSRBOA	2B8	
SDBSRECB	17C	
SDBSRECN	120	
SDBSTKN	2B0	
SDBTAB	F0	
SDBTCBM	C4	
SDBTCBO	C8	
SDBTRK	108	
SDBTRKF	100	
SDBTRKL	110	
SDBTTOKN	170	168
SDBUBF	1D4	
SDBUPRBA	210	
SDBURBAS	218	
SDBUSER1	1C8	
SDBUSER2	1CC	
SDBWRK16	248	240
SDBWTCHN	160	
SDBXCPCT	20C	
SDBYLGC	23C	
SDBYSUBF	1FC	
SDB1CLOS	B4	4
SDB1ENDR	B4	2
SDB1ENQ	B4	40
SDB1FOPN	B4	1
SDB1GET	B4	80
SDB1HPUT	B4	10
SDB1OUT	B4	8
SDB1PUT	B4	20
SDB2DSRS	B5	4
SDB2EOD	B5	10
SDB2GLM	B5	8
SDB2INDX	B5	1
SDB2IOE	B5	80
SDB2VAL	B5	40
SDB2VDK	B5	20
SDB2XBIN	B5	2
SDB3BTRC	139	1
SDB3LINE	139	20
SDB3NIRB	139	80
SDB3OUTX	139	8
SDB3PAGE	139	10
SDB3PBAD	139	4
SDB3PSP	139	2
SDB3SRBO	139	40
SDB4IRDR	13A	1
SDB4NJET	13A	4
SDB4PSO	13A	80
SDB4RECV	13A	10

Table 488. Cross Reference for $SDB (continued)

Name	Offset	Hex Tag
SDB4SOUT	13A	20
SDB4SPBR	13A	8
SDB4SYIN	13A	40
SDB4TNJR	13A	2
SDB5ABND	13B	4
SDB5ADFR	13B	8
SDB5ADMP	13B	2
SDB5ADON	13B	1
SDB5ASY	13B	80
SDB5INCI	13B	10
SDB5OUTL	13B	40
SDB5SBNS	13B	20
SDB6FTRK	13C	4
SDB6GONE	13C	40
SDB6NSRB	13C	2
SDB6PRT	13C	20
SDB6PUN	13C	10
SDB6SAPI	13C	80
SDB6TCL	13C	8
SDB6UPDG	13C	1
SDB7JLOG	13D	8
SDB7JRPL	13D	4
SDB7KSET	13D	2
SDB7NULL	13D	10
SDB7PSCR	13D	1
SDB7PUT1	13D	80
SDB7SPC	13D	1
SDB7SPIN	13D	40
SDB7SUPD	13D	20
SDB8CBIO	13E	40
SDB8GASN	13E	20
SDB8GETB	13E	4
SDB8NRA	13E	2
SDB8SJFR	13E	10
SDB8TRAK	13E	80

Chapter 197. $SFRB Information

$SFRB Programming Interface Information

$SFRB is a programming interface.

$SFRB Heading Information

Common Name: Scheduler Facility Request Block
Macro ID: $SFRB
DSECT Name: SFRB
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'SFRB'
Offset: SFRBID-SFRB
Length: 4
Storage Attributes: Subpool: 231 (ECSA)
Key: 1
Residency: Virtual and real storage are anywhere (above or below 16M) in common storage.

Size: SFRHSZE - Header size
SFRMRSZ - Size of Modify function area
Created by: Scheduler JCL Facility Services (routine SSISFS)
Pointed to by: CCTSFREQ field of the $HCCT data area
CCTSFPNQ field of the $HCCT data area
CCTSFPRQ field of the $HCCT data area
SFRBNXT field of the $SFRB data area
SFRBLIFO field of the $SFRB data area
TRESFRB field of the $TRE data area
SSWSFRB field of the $SFSWORK data area
Serialization: USe of separate queues (Request/Pending/Processing).
Use of CDS to serialize the use of the Request queue.
Function: This macro provides the mapping of the request block used as an interface between the Scheduler Facility Services SSI and PCE Processor.
This request block will be on one of three queues as noted above under 'POINTED TO BY'.

$SFRB mapping

Table 489. Structure SFRB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SFRB	
0	(0)	X'0'	0	SFRBGN	"*"
0	(0)	CHARACTER	4	SFRBID	Acronym set to 'SFRB'
4	(4)	ADDRESS	1	SFRBVER	Version number of SFRB
		1		SFRBCVR	"X'01'" Current version no.of SFRB
5	(5)	BITSTRING	1	SFRBRSV1	Reserved
6	(6)	SIGNED	2	SFRBRSV2	Reserved
8	(8)	SIGNED	4	SFRBNXT	Next SFRB block

Table 489. Structure SFRB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
12	(C)	SIGNED	4	SFRBLIFO	Next SFRB (in LIFO order)
		Flag byte input from caller to function rtn Bits defined in function dependent area			
16	(10)	BITSTRING	1	SFRFFLG	Function Request Flag
		Indicator byte for $BLDMSG processing of msgs			
17	(11)	BITSTRING	1	SFRBMSGI	Indicator byte for $BLDMSG
		Flag byte to footprint processing of block			
18	(12)	BITSTRING	1	SFRFLG1	Flag Byte
		1...		SFR1PROC	"B'10000000'" Process Indicator
		.1..		SFR1SUBT	"B'01000000'" Block given to subtask
		..1.		SFR1ERR	"B'00100000'" Error occurred
		...1		SFR1JBLK	"B'00010000'" Job lock acquired
		.... 1...		SFR1JOEB	"B'00001000'" JOE made busy
		.... .1..		SFR1MSGP	"B'00000100'" Awaiting resources msg sent
		Status byte to indicate status of request			
19	(13)	BITSTRING	1	SFRSTAT	Status Byte
		.1..		SFRSFINI	"B'01000000'" Processing Complete
		..1.		SFRSSCOM	"B'00100000'" Subtask completed block
20	(14)	SIGNED	4	SFRRC	Return code for subtask
24	(18)	SIGNED	4	SFRCKTKN	Checkpoint token
28	(1C)	ADDRESS	4	SFRSQD	SQD pointer
32	(20)	ADDRESS	4	SFRTOKN	Address of UTOKEN
36	(24)	CHARACTER	8	SFRRJOBI	Requestor jobid
44	(2C)	CHARACTER	8	SFRRJOBN	Requestor jobname
52	(34)	CHARACTER	8	SFRTIME(0)	Time Stamp of request
52	(34)	SIGNED	4	SFRCTME	Significant part of time
56	(38)	SIGNED	4	SFRISTM	INSIGNIFICANT PART OF TIME
60	(3C)	CHARACTER	8	SFRFTIM	Time Stamp of GETLOK failure
60	(3C)	X'44'	0	SFRHSZE	"*-SFRBGN" Header size
		Specific function request data area begins here			
60	(3C)	X'44'	0	SFRBFOR	"*" Functional area origin
		Specific function request bit definitions for Flag byte SFRFFLG Bit definitions should correspond to input flag SSSFFLG1 in macro IAZSSSF and in X045FLG1 in $XPL.			
		1...		SFRFDES	"B'10000000'" Destination Check Request
		.1..		SFRFSECL	"B'01000000'" Seclabel check request
		..1.		SFRFJSSP	"B'00100000'" JESSPOOL check (default)
		Modify request data			
68	(44)	SIGNED	2	SFRMREA	Reason code for Modify rtn
70	(46)	SIGNED	2		Reserved

Table 489. Structure SFRB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
72	(48)	SIGNED	4	SFRJBNUM	Converted job number
76	(4C)	SIGNED	4	SFRODP	ODPARM pointer
80	(50)	SIGNED	4	SFRJOEP	JOE pointer
		The following area corresponds to modify request area in the SSOB extension IAZSSSF			
84	(54)	CHARACTER	8	SFRJBNM	JOBNAME
92	(5C)	CHARACTER	8	SFRJBID	JOBID
100	(64)	CHARACTER	8	SFRGRPN	Output group name
108	(6C)	SIGNED	2	SFRGRP1	Output group - first ID
110	(6E)	SIGNED	2	SFRGRP2	Output group - second ID
112	(70)	SIGNED	4	SFRMRSV2	Reserved
116	(74)	CHARACTER	8	SFRCART	CART for WTO responses
124	(7C)	SIGNED	4	SFRCNID	Console ID for WTO responses Output descriptor lists are SWBTU/TU format as required SCHEDULER JCL facility (SJF)
128	(80)	ADDRESS	4	SFRMDAD	Address of Modify list in SWBTU format
132	(84)	ADDRESS	4	SFRERAD	Address of Erase list in TU format
136	(88)	SIGNED	2	SFRMDLN	Length of Modify list(SWBTU)
138	(8A)	SIGNED	2	SFRERLN	Length of Erase list (TU)
144	(90)	DBL WORD	8	(0)	Alignment
144	(90)	X'4C'	0	SFRMRSZ	"*-SFRMOD" Size of modify function area

Table 490. Cross Reference for $SFRB

Name	Offset	Hex Tag
SFRB	0	
SFRBCVR	4	1
SFRBFOR	3C	44
SFRBGN	0	0
SFRBID	0	E2C6D9C2
SFRBLIFO	C	
SFRBMSGI	11	
SFRBNXT	8	
SFRBRSV1	5	
SFRBRSV2	6	
SFRBVER	4	
SFRCART	74	
SFRCKTKN	18	
SFRCNID	7C	
SFRCTME	34	
SFRERAD	84	
SFRERLN	8A	
SFRFDES	3C	80
SFRFFLG	10	
SFRFJSSP	3C	20
SFRFLG1	12	

Table 490. Cross Reference for $SFRB (continued)

Name	Offset	Hex Tag
SFRFSECL	3C	40
SFRFTIM	3C	
SFRGRPN	64	
SFRGRP1	6C	
SFRGRP2	6E	
SFRHSZE	3C	44
SFRISTM	38	
SFRJBID	5C	
SFRJBNM	54	
SFRJBNUM	48	
SFRJOEP	50	
SFRMDAD	80	
SFRMDLN	88	
SFRMREA	44	
SFRMRSV2	70	
SFRMRSZ	90	4C
SFRODP	4C	
SFRRC	14	
SFRRJOBI	24	
SFRRJOBN	2C	
SFRSFINI	13	40
SFRSQD	1C	
SFRSSCOM	13	20
SFRSTAT	13	
SFRTIME	34	
SFRTOKN	20	
SFR1ERR	12	20
SFR1JBLK	12	10
SFR1JOEB	12	8
SFR1MSGP	12	4
SFR1PROC	12	80
SFR1SUBT	12	40

Chapter 198. $SFRWORK Information

$SFRWORK Programming Interface Information

$SFRWORK is a programming interface.

$SFRWORK Heading Information

Common Name:	JES2 Scheduler Services PCE Work Area
Macro ID:	$SFRWORK
DSECT Name:	PCE ($SFRWORK is part of the PCE DSECT)
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4
Storage Attributes:	Subpool: See $PCE Key: See $PCE Residency: See $PCE
Size:	See symbol SRWPCEWL for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by:	See $PCE
Pointed to by:	$SFSPCE field of the $HCT data area See $PCE for other pointer fields that apply to all PCE types.
Serialization:	Normal PCE dispatch serialization
Function:	The fields in this work area are used by a JES2 Scheduler Services Processor and by its support routines and exits. $SFRWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $SFRWORK are actually part of the PCE DSECT, but only map PCEs with the value PCESFSID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

$SFRWORK mapping

Table 491. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
320	(140)	BITSTRING	1	SRWFLG1	Processing flag
		1...		SRW1ACTV	"B'10000000'" PCE active indicator
		.1..		SRW1RCVY	"B'01000000'" Recovery situation
		..1.		SRW1SNXT	"B'00100000'" Use SFRB NXT (FIFO) chain
321	(141)	BITSTRING	3	SRWRSV1	Reserved for IBM use
324	(144)	SIGNED	2	SRWREQCT	Count of lost request blks
326	(146)	SIGNED	2	SRWABEND	Count of abends

Table 491. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
326	(146)	X'3'	0	SRWLIMIT	"3" Reasonable limit of abends
328	(148)	SIGNED	4	(0)	
328	(148)	BITSTRING	16	SRWTQE	Timer Queue Element
344	(158)	DBL WORD	8	(0)	Alignment
344	(158)	X'18'	0	SFRPCEWL	"*-PCEWORK" LENGTH OF SCHED. SERVICE WORK AREA

Table 492. Cross Reference for $SFRWORK

Name	Offset	Hex Tag
PCE	0	
SFRPCEWL	158	18
SRWABEND	146	
SRWFLG1	140	
SRWLIMIT	146	3
SRWREQCT	144	
SRWRSV1	141	
SRWTQE	148	
SRW1ACTV	140	80
SRW1RCVY	140	40
SRW1SNXT	140	20

Chapter 199. $SFSWORK Information

$SFSWORK Heading Information

Common Name:	- HASP Scheduler Facility Service SSI work area dsect.
Macro ID:	$SFSWORK
DSECT Name:	SFSWORK
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'SFSW' Offset: SSWID-SFSWORK Length: 4
Storage Attributes:	Subpool: 229 Key: 1 Residency: Virtual and Real storage are anywhere (above or below 16M) in the User address space.
Size:	See SSWWLEN
Created by:	Scheduler Services SSI
Pointed to by:	N/A
Serialization:	None
Function:	This DSECT provides the work area required by the JES2 Scheduler Facility Service SSI.

$SFSWORK mapping

Table 493. Structure SFSWORK

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SFSWORK	Scheduler Service Work Area
0	(0)	CHARACTER	4	SSWID	Eyecatcher for SFSWork
4	(4)	SIGNED	4	SSWTOTL	Total length of storage acquired.
		Area of block addresses used by the routine			
8	(8)	ADDRESS	4	SSWTRE	Addr of SSI TRE
12	(C)	ADDRESS	4	SSWSFRB	Addr of SFRB
16	(10)	ADDRESS	4	SSWIOT	Addr of IOT
		Storage needed for token extract			
20	(14)	ADDRESS	4	SSWWAVE	Addr of the WAVE
24	(18)	ADDRESS	4	SSWTOKN	Addr of the User Token
		Parameter input for SSI 70			
28	(1C)	ADDRESS	4	SSWSOB70	Addr of SSOB for SSI 70
		Process byte for various processing paths			
32	(20)	BITSTRING	1	SSWFLG1	Flag byte 1 -Indicators
		.1..		SSW1EXIT	"B'01000000'" Exit given control
		Condition byte used to show errors in processing			
33	(21)	BITSTRING	1	SSWFLG2	Flag byte 2 -Error flags
		1...		SSW2PCED	"B'10000000'" PCE is disabled

Table 493. Structure SFSWORK (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		SSW2JESD	"B'01000000'" JES is down
		..1.		SSW2NOXT	"B'00100000'" No Extension exists
		...1		SSW2EXTE	"B'00010000'" Error in extension
		.... 1...		SSW2NOAU	"B'00001000'" Token Extract error
		.... .1..		SSW2INVF	"B'00000100'" Invalid function request
		.... ..1.		SSW2INVI	"B'00000010'" Invalid input to function
		1		SSW2NOST	"B'00000001'" No storage indicator
		Response byte from Exit			
34	(22)	BITSTRING	1	SSWXPLR	
		1...		SSWXCAN	"B'10000000'" Exit cancel request
		.1..		SSWXSRC	"B'01000000'" Exit supplied RC/reas codes
		1111 1111		SSWANY	"X'FF'" Test for any bits on
		Other goodies			
35	(23)	BITSTRING	1	SSWCKEY	SSI callers key, used post-exit 45 in case exit changed X045CKEY
36	(24)	BITSTRING	1	SSWJTYPE	Job type
37	(25)	BITSTRING	1		Reserved
38	(26)	SIGNED	2	SSWERCD	Processing reason code
40	(28)	SIGNED	4	SSWRC	Processing return code
44	(2C)	SIGNED	4	SSWJBNUM	Converted job number
48	(30)	BITSTRING	28	SSWIINFO	Info block for CPOOL QCELL
76	(4C)	BITSTRING	80	SSWDSTKN	Data set token
156	(9C)	BITSTRING	1	SSWJOTKN	JOE token
		Copies of fields from the SSOB extension (IAZSSSF). These are needed so that we can access data in user key storage that was passed by the caller. Note that some IAZSSSF fields are copied directly into the $XPL instead of appearing here, to reduce duplication of data.			
236	(EC)	SIGNED	4	(0)	Word align
236	(EC)	CHARACTER	4	SSWEID	Eyecatcher
240	(F0)	BITSTRING	1	SSWVER	Version
241	(F1)	BITSTRING	1	SSWREQF	Function request number
242	(F2)	SIGNED	2	SSWMREA	Error reason code
244	(F4)	SIGNED	2	SSWLEN	SSSF length
246	(F6)	SIGNED	2		Reserved
248	(F8)	ADDRESS	4	SSWMDAD	Addr of output descriptor Modify list - SWBTU format This points to SSI caller key storage.
252	(FC)	ADDRESS	4	SSWERAD	Addr of output descriptor Erase list in TU format This points to SSI caller key storage.
256	(100)	ADDRESS	4	SSWIJTKN	Address of JOE token provided by SSI 80

Table 493. Structure SFSWORK (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
260	(104)	ADDRESS	4	SSWIDTKN	Address of dataset token provided by SSI 80
264	(108)	ADDRESS	4	SSWIFSWU	Address of SWBTU buffer
268	(10C)	ADDRESS	4	SSWIFSWT	Address of SWB token
272	(110)	SIGNED	4	SSWIWRTN	Result of merge (rtn code)
276	(114)	SIGNED	4	SSWIWRSN	Merge Reason code
280	(118)	BITSTRING	1	SSWIFLG1	Input flag byte
281	(119)	BITSTRING	1	SSWIRFLG	Returned flag byte
282	(11A)	BITSTRING	86	SSWTKMAP	Token area for tokenmap
368	(170)	DBL WORD	8	(0)	Alignment
$XPL for exit 45 is here.					
368	(170)	BITSTRING	88	SSW45XPL	XPL for exit 45
456	(1C8)	DBL WORD	8	(0)	Alignment
456	(1C8)	X'1C8'	0	SSWWLEN	"*-SFSWORK" Length of SSWORK storage

Table 494. Cross Reference for $SFSWORK

Name	Offset	Hex Tag
SFSWORK	0	
SSWANY	22	FF
SSWCKEY	23	
SSWDSTKN	4C	
SSWEID	EC	
SSWERAD	FC	
SSWERCD	26	
SSWFLG1	20	
SSWFLG2	21	
SSWID	0	
SSWIDTKN	104	
SSWIFLG1	118	
SSWIFSWT	10C	
SSWIFSWU	108	
SSWIINFO	30	
SSWIJTKN	100	
SSWIOT	10	
SSWIRFLG	119	
SSWIWRSN	114	
SSWIWRTN	110	
SSWJBNUM	2C	
SSWJOTKN	9C	
SSWJTYPE	24	
SSWLEN	F4	
SSWMDAD	F8	
SSWMREA	F2	
SSWRC	28	
SSWREQF	F1	
SSWSFRB	C	
SSWSOB70	1C	

Table 494. Cross Reference for $SFSWORK (continued)

Name	Offset	Hex Tag
SSWTKMAP	11A	
SSWTOKN	18	
SSWTOTL	4	
SSWTRE	8	
SSWVER	F0	
SSWWAVE	14	
SSWWLEN	1C8	1C8
SSWXCAN	22	80
SSWXPLR	22	
SSWXSRC	22	40
SSW1EXIT	20	40
SSW2EXTE	21	10
SSW2INVF	21	4
SSW2INVI	21	2
SSW2JESD	21	40
SSW2NOAU	21	8
SSW2NOST	21	1
SSW2NOXT	21	20
SSW2PCED	21	80
SSW45XPL	170	

Chapter 200. $SIG Information

$SIG Heading Information

Common Name: SIG
Macro ID: $SIG
DSECT Name: SIG
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: "None"
Offset: N/A
Length: N/A
Storage Attributes: Subpool: 10
Key: 1
Residency: Virtual is any, Real is any
in JES2 address space or user address space

Size: See SIGSIZE
Created by: Callers of $SIGIO
Pointed to by: Parameters passed to $SIGIO macro
Serialization: No serialization
Function: This is the mapping for record zero (R0) records on SPOOL. The first track of each trackgroup has a signature record placed in the data portion of R0.

$SIG mapping

Table 495. Structure SIG

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SIG	
0	(0)	BITSTRING	1	SIGFLAG1	Flags
		1...		SIG1UNAL	"B'10000000'" Trackgroup has begun unallocation
1	(1)	BITSTRING	3	SIGJBNUM	Job number
4	(4)	SIGNED	4	SIGJBKEY	Job key
4	(4)	X'8'	0	SIGLEN	"8" Length of signature record (DASD architected)
8	(8)	ADDRESS	2	(0)	Assembly error if length of fields not 8

Chapter 201. $SJB Information

$SJB Programming Interface Information

The following fields are **NOT** programming interface information:

- SJBCSCB
- SJBOCT
- SJBPIT
- SJBQUEUE
- SJBSTAC

$SJB Heading Information

Common Name:	Subsystem Job Block dsect
Macro ID:	$SJB
DSECT Name:	SJB
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'SJB ' Offset: SJBID-SJB Length: 4
Storage Attributes:	Subpool: 241 or 230 Key: 1 Residency: Virtual and real storage are anywhere (above or below 16M) in common storage or private storage (in the case of internal readers and NJE/TCP devices)
Size:	See the SJBSIZE equate.
Created by:	SJBs are created by the $SJBINIT service. They are built during subsystem-interface (SSI) calls for job selection by-number (for STCs and TSUs), during the first SSI call by an MVS initiator for job selection by-class, during SSI request-jobid calls and during SYSOUT dataset allocation SSI requests for short-term cross-subsystem browse applcations. An SJB is also built for each JES2 address space JCL conversion subtask when it runs its first job after JES2 initialization or after an abnormal subtask end. A temporary SJB is built by the $LOGMSG service when it puts messages into a job's joblog.

$SJB Heading Information

Pointed to by:

- The HSBSJB field of the $HASB data area in CSA points to the first SJB for an address space. The remaining SJBs in the address space are chained off of the SJBSJB field of the $SJB data area.
- The MVS life-of-job SSIB control block for a job step points to the SJB supporting that job step via the SSIBSUSE field. This connection does not exist for short-term and request-job-id cases.
- The SDBSJB field of the $SDB data area for each subsystem dataset allocated under an SJB points to the SJB. The SDBs are in the address space's private storage.
- Each SJB has an extension in the address space's private storage, called the SJXB. The SJXBSJBA field of the $SJXB data area points to the SJB.
- The TRESJBLK field of the $TRE data area points to the SJB if the TRE represents the MVS task that has acquired the SJB lock of this SJB.
- Several queues of SJBs exist to queue and track executing jobs. Each of these uses the SJBXQCHN field of the $SJB data area as the chain field. The anchors are in the $HCCT data area and include CCTJPCLS (pending selection by job class, for batch), CCTJPNUM (pending selection by number, for STCs/TSUs), CCTJXCLS (executing by class), CCTJXNUM (executing by number), CCTJTERM (jobs terminating), CCTJRENQ (jobs terminating for re-execution).
- When PSO requests or dataset processing are outstanding for an SJB, the PSOSJB field of the $PSO data area points to the SJB.
- The DCNVSJBP field of each JES2 address space JCL conversion subtask $DTECNV data area points to the SJB.
- The PITSJB field of the $PIT data area points to the batch job SJB being used to manage batch jobs for the initiator represented by the PIT.
- The HSUSJB field of the $HSU data area points to the SJB during a 'HOCSETUP' service routine call for a subsystem dataset.
- The EMSSJB field of the $DTEEOM data area
- The CCTEOMJT field of the $HCCT
- The JRWSJB field of the $JRW data area for internal readers and NJE/TCP job receivers (private storage SJB)
- The SRWSJB field of the $SRW data area for NJE/TCP SYSOUT receiver (private storage SJB)
- The JTWSJB field of the $JTW data area for NJE/TCP job transmitter (private storage SJB)
- The STWSJB field of the $STW data area for NJE/TCP SYSOUT transmitter (private storage SJB)
- The RIDSJB field of the $IRWD data area for internal readers (private storage SJB)

Serialization: Serialization of the SJBs is done in various ways. An SJB can be locked by a task against activity by any other task in the address space using the $SJBLOCK service. Many JES2 SSI function routines use this service to hold the SJB lock for the duration of the SSI call. The SJB queues are locked using a mechanism similar to the SJB lock, with the lock words being in the HCCT control block instead of an SJB. This lock is frequently called the Job Communications Queue lock, or JCQ lock, or sometimes the SJB queues lock. The JCQ lock is used between the JES2 main task and the tasks in the job's address space. Various SJB chain and anchor fields are serialized with these two JES2 locks, with the system LOCAL lock, and just by timing dependencies in some cases where appropriate (e.g. when an address space is unexpectedly lost). See the comments in the definition of the dsect and various fields for more information.

Function: The Subsystem Job Block (SJB) represents a executing unit of work, or 'job', for the JES2 subsystem. It is the main and central JES2 control block for an executing job, and contains the job identifiers, flags defining the job type and status, indications of the type of processing required or being done for the job, locking fields, etc. It is the anchor for the in-storage control blocks such as the JCT for the job, the IOTs and SDBs for subsystem datasets, the PSO and other control blocks for current requests, etc. The main use of the SJB for the purposes stated above are in the JES2 subsystem interface (SSI) function routines, supporting services for MVS facilities such as the initiator, allocation, and data management. It is in ECSA, and also used by the JES2 main task to track active jobs, process request queues, provide status, and reconnect to executing work during a hot start after an abnormal termination. Communication is done using the SJB queue anchors and chain fields described in the 'pointed to by' section, $$POSTs of JES2 by the SSI routines, $XMPOSTs of the requesting tasks running in the SSI routines by JES2 using the SJBECB field, and serialization provided normally by two JES2-defined locks (see 'serialization').
An SJB normally represents, roughly, the work running under one MVS job step task, in however many MVS tasks there are running at that job step level. This is the case for started task 'jobs' (STCs) and time sharing user 'jobs' (TSUs), running in the top job step in an address space. It is also the usual case for a batch job, running in the second job step in an address space, where the top job step is the batch initiator STC. SJBs are also built to handle other cases where a set of one or more tasks are executing work on the behalf of a normal or special job.
The types of SJBs are: STC/TSU, batch job, request jobid, cross-subsystem browse, and JCL conversion.

$SJB mapping

Table 496. Structure SJB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SJB	
0	(0)	CHARACTER	4	SJBID	SJB IDENTIFIER
4	(4)	ADDRESS	1	SJBVRSN	CURRENT VERSION IN STORAGE
4	(4)	X'6'	0	SJBCURVN	"6" Current version number
5	(5)	BITSTRING	1		RESERVED FOR FUTURE USE
6	(6)	BITSTRING	1	SJBFLG1	FIRST FLAG BYTE ---
		1...		SJB1PI	"X'80'" Stop AND drain the initiator
		.1..		SJB1SJID	"X'40'" SELECT JOB BY ID - SJBJOBID
		..1.		SJB1CRAL	"X'20'" BROWSE CROSS-ALLOCATION SJB
		.... .1..		SJB1EJOB	"X'04'" HASP-RESTART JOB ($E JOB)
		.... ..1.		SJB1SWBU	"X'02'" Update the OUTPUT SWB
		1		SJB1WIN	"X'01'" WLM managed initiator
7	(7)	BITSTRING	1	SJBFLG2	SECOND FLAG BYTE ---
		1...		SJB2PNIT	"X'80'" STOP THE INITIATOR
		.1..		SJB2EJST	"X'40'" $EJOB,STEP was processed
		..1.		SJB2EOM	"X'20'" END-OF-MEMORY DETECTED
		...1		SJB2CNCL	"X'10'" CANCEL AFTER SWA CREATE
		.... 1...		SJB2CONV	"X'08'" SJB CREATED FOR CONVERTER
		.... .1..		SJB2HOLD	"X'04'" HOLD JOB AFTER RE-QUEUE
		.... ..1.		SJB2JNL	"X'02'" JOB IS JOURNALED
		1		SJB2INIT	"X'01'" INITIATOR FLAG
8	(8)	ADDRESS	4	SJBSJXB	POINTER TO SJB EXTENSION
12	(C)	ADDRESS	4	SJBWAVE	POINTER TO WAVE ADDRESS
16	(10)	ADDRESS	4	SJBUSER	*** RESERVED FOR USER ***
20	(14)	ADDRESS	4	SJBSSIB	POINTER TO SSIB
24	(18)	ADDRESS	4	SJBSJB	SJB CHAIN FROM CCTHAVT
28	(1C)	ADDRESS	4	SJBSDB	POINTER TO CHAIN OF SDBS
32	(20)	ADDRESS	4	SJBJKEY	HDBDSKEY FOR THIS JOB
36	(24)	ADDRESS	4	SJBJCT	ADDRESS OF JCT FOR JOB
40	(28)	BITSTRING	6	SJBJCTTK	JCT TRACK ADDRESS (MQTR)
46	(2E)	BITSTRING	2		Reserved
48	(30)	ADDRESS	4	SJBTCBP	ADDRESS OF INIT OR STC TCB
52	(34)	BITSTRING	16	SJBTCBT	TCB token for INIT or STC
68	(44)	SIGNED	4	SJBJQOFF	OFFSET OF JQE WITHIN JOB QUEUE
72	(48)	CHARACTER	4	SJBSSNM	SUBSYSTEM ID OF OWNER
76	(4C)	ADDRESS	4	SJBIOT	ADR OF FIRST REGULAR IOT
80	(50)	ADDRESS	4	SJBSPIOT	ADR OF FIRST SPIN IOT
84	(54)	ADDRESS	4	SJBOCT	ADR OF OUTPUT CONTROL TABLE
88	(58)	ADDRESS	4	SJBSJPTR	ADR OF SJF PARAMETER LIST
92	(5C)	ADDRESS	4	SJBSWBUF	ADR OF SJF SWB BUFFER
96	(60)	ADDRESS	4	SJBSECB(0)	STOP-ECB ADR FOR CREATED-ID JOB
96	(60)	ADDRESS	4	SJBPIT	ADDRESS OF PIT IN HASP
100	(64)	ADDRESS	4	SJBASCBP	ASCB address

SJBCKID IS USED BEFORE EXECUTION ONLY
SJBSTQE IS USED DURING EXECUTION

Table 496. Structure SJB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
104	(68)	SIGNED	4	SJBCKID	EXECUTION PCE CKPT TOKEN
108	(6C)	BITSTRING	1	SJBSTQE	EXECUTION TIMER QUEUE ELEMENT
		THE ESTIMATED COUNT FIELDS MUST BE KEPT TOGETHER AND ARE MAPPED BY THE EST DSECT GENERATED BY THE $EST MACRO			
120	(78)	SIGNED	4	SJBTIMX(0)	---+ Time excession fields
120	(78)	SIGNED	4	SJBTMINT	| Est time message interval
124	(7C)	BITSTRING	1	SJBTIMOP	| Execution time option
125	(7D)	BITSTRING	3		| Reserved (part of $EST)
128	(80)	SIGNED	4	SJBXSTIM	---+ Time estimate excession amnt
		END OF ESTIMATED COUNT FIELDS			
132	(84)	SIGNED	4	SJBEOMCC	EOM comp code (ASCBMCC)
136	(88)	SIGNED	4	SJBFLGEF(0)	-------+ SJBFLGE fullword for CS
136	(88)	BITSTRING	3		| Reserved
139	(8B)	BITSTRING	1	SJBFLGE	| $C JQ processing flags
		1...		SJBEJSAC	"B'10000000'" | Job select active
		.1..		SJBEJSCN	"B'01000000'" | $C in progress for job
		..1.		SJBEJSDM	"B'00100000'" | $C requested a dump
		...1		SJBEVICT	"B'00010000'" | Evict job at next step
		.... 1...		SJBEVICH	"B'00001000'" ---+ Hold job after evicting
140	(8C)	SIGNED	4	SJBJBSEL	STCK job given to job selct
144	(90)	BITSTRING	4	SJBMAXRC(0)	Completion information See JQXMAXCC for values
144	(90)	BITSTRING	1	SJBMXIND	Completion type indicator
145	(91)	BITSTRING	3	SJBMAXCC	Completion/ABEND code info
148	(94)	ADDRESS	4	SJBCSCB	ADDRESS OF CSCB
152	(98)	BITSTRING	12	SJBECBL(0)	ECB list for WAIT
152	(98)	ADDRESS	4	SJBECBA	Pointer to SJB's ECB
156	(9C)	ADDRESS	4	SJBECBS	Pointer to STOP INIT ECB
160	(A0)	ADDRESS	4	SJBECBW	Ptr to WLM STOP INIT ECB
		1...		SJBEEND	"X'80'" To initialize end of list
164	(A4)	BITSTRING	4		Reserved
168	(A8)	DBL WORD	8	(0)	Insure that SJBASCBA is on doubleword boundary for CDS
168	(A8)	BITSTRING	16	SJBXMPL(0)	$XMPOST parameter list
168	(A8)	ADDRESS	4	SJBERRET	Pointer to error return
172	(AC)	ADDRESS	4	SJBECBP	POINTER TO SJB'S ECB
		During end of memory, SJBASCBA and SJBSASCB will be HASP's ASCB (so that any POSTs will be directed to the JES2 EOM subtask). SJBASID will remain unchanged. SJBASCBP remains as a pointer to the original ASCB.			
176	(B0)	ADDRESS	4	SJBASCBA	ASCB address of AS to post
180	(B4)	ADDRESS	4	SJBECB	ECB for SSI code and JES2

Table 496. Structure SJB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
184	(B8)	DBL WORD	8	(0)	Ensure that SJBSASCB is on doubleword boundary for CDS
184	(B8)	BITSTRING	16	SJBSXMPL(0)	$XMPOST parameter list
184	(B8)	ADDRESS	4	SJBSERRE	Pointer to error return
188	(BC)	ADDRESS	4	SJBSECBP	Pointer to SJBs ECB
192	(C0)	ADDRESS	4	SJBSASCB	Pointer to related ASCB
196	(C4)	ADDRESS	4	SJBSECBS	ECB for SSI code and JES2
200	(C8)	CHARACTER	4	SJBPATID	EBCDIC init ID (PITPATID)
204	(CC)	BITSTRING	1	SJBPRIO	HASP EXECUTION SELECTION PRTY
205	(CD)	SIGNED	3	SJBFAMLY	Highest family ID used by MOCA IOTs
208	(D0)	SIGNED	2	SJBXQFN1	HASPXEQ FUNCTION INDICATOR
210	(D2)	BITSTRING	1	SJBFLG3	TERMINATION FLAG ONE ---
		1...		SJB3CLS	"X'80'" CLOSE ALL SUBSYSTEM DATA SETS
		.1..		SJB3FSDB	"X'40'" FREE ALL SDBS
		..1.		SJB3TERM	"X'20'" TERMINATE THE JOB
		...1		SJB3PPOU	"X'10'" PURGE PARTIAL OUTPUT
		.... .1..		SJB3CKPT	"X'04'" WRITE IOTS, JCT
		.... ..1.		SJB3FIOT	"X'02'" FREE ALL IOTS
		1		SJB3FJCT	"X'01'" FREE JCT
211	(D3)	BITSTRING	1	SJBFLG4	TERMINATION FLAG TWO ---
		1...		SJB4MEND	"X'80'" MSG 'ENDED'
		.1..		SJB4MTRM	"X'40'" MSG 'TERMINATED'
		..1.		SJB4MREQ	"X'20'" MSG 'RE-ENQUEUED'
		...1		SJB4MREX	"X'10'" MSG 'QUEUED FOR RE-EXECUTION'
		.... 1...		SJB4FSJB	"X'08'" FREE THE SJB
		.... .1..		SJB4MRQH	"X'04'" MSG 'RE-ENQUEUED AND HELD'
		.... ..1.		SJB4OCAN	"X'02'" Operator cancelled this SJB
		1		SJB4TERM	"X'01'" BATCH JOB HAS TERMINATED SJB4TERM DIRECTLY INFLUENCES THE CREATION AND DELETION OF THE JSAB
212	(D4)	ADDRESS	4	SJBQUEUE	ADDRESS OF CCTJ QUEUE HEADER
216	(D8)	ADDRESS	4	SJBXQCHN	HASPXEQ CHAINING WORD
Control information for EOM processing					
220	(DC)	BITSTRING	8	SJBEOMCH(0)	<-----+ EOM chaining fields
220	(DC)	ADDRESS	4	SJBEOMN	| Addr next SJB on EOM queue
224	(E0)	ADDRESS	4	SJBEOMP	<-----+ Addr prior SJB on EOM queue
228	(E4)	ADDRESS	4	SJBEOMPC	PCE processing SJB
232	(E8)	BITSTRING	1	SJBEOMFL	End of memory switches
		1...		SJBEOMF1	"B'10000000'" SJB being processed by PCE
		.1..		SJBEOMF2	"B'01000000'" SJB being processed by EOM sub-task
233	(E9)	BITSTRING	3	SJBEOMRS	Reserved for future EOM use
236	(EC)	ADDRESS	4	SJBEOMQ	Addr of Queue head at EOM SSI time

Table 496. Structure SJB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		End of EOM data			
240	(F0)	SIGNED	2	SJBINTCT	COUNT OF OPEN INTRDRS
242	(F2)	BITSTRING	1	SJBRSNCD	Reason Job not selectable
		Return codes/ reason codes for non selection of job Used for message HASP361 based on return code from $DMNDJOB routine. Also used for message HASP003 RC(109)			
242	(F2)	X'0'	0	SJBRSN00	"0" No message needed
242	(F2)	X'4'	0	SJBRSN01	"4" Job not found
242	(F2)	X'8'	0	SJBRSN02	"8" System draining
242	(F2)	X'C'	0	SJBRSN03	"12" Job with same name running
242	(F2)	X'10'	0	SJBRSN04	"16" Sched. env. not available
242	(F2)	X'14'	0	SJBRSN05	"20" Independent mode mismatch
242	(F2)	X'18'	0	SJBRSN06	"24" Spools(s) not available
242	(F2)	X'1C'	0	SJBRSN07	"28" Rejected by exit 49
242	(F2)	X'20'	0	SJBRSN08	"32" SECLABEL not available
242	(F2)	X'24'	0	SJBRSN09	"36" No affinity to active sys
242	(F2)	X'28'	0	SJBRSN10	"40" Unexpected WLM response
242	(F2)	X'2C'	0	SJBRSN11	"44" ARM restart pending
242	(F2)	X'30'	0	SJBRSN12	"48" Busy
242	(F2)	X'34'	0	SJBRSN13	"52" Not batch job
242	(F2)	X'38'	0	SJBRSN14	"56" Not on execution queue
242	(F2)	X'3C'	0	SJBRSN15	"60" No JES2 that can select
242	(F2)	X'40'	0	SJBRSN16	"64" Jobclass no affinity to active member
242	(F2)	X'44'	0	SJBRSN17	"68" Job requires a higher z/OS level
243	(F3)	BITSTRING	5		RESERVED
248	(F8)	DBL WORD	8	SJBLOCKH(0)	SJB LOCKING DOUBLEWORD
248	(F8)	ADDRESS	4	SJBTCB	LOCK-HOLDING TCB ADDRESS
252	(FC)	ADDRESS	4	SJBNEXTL	0 - SJB IS UNLOCKED - - SJB LOCKED, NO WAIT CHAIN + - SJB LOCKED, ADR OF WAITER
256	(100)	ADDRESS	4	SJBTINA	Address of TINA
260	(104)	SIGNED	4	SJBTINAA	ALET of TINA (zero only if SJB for converter)
264	(108)	ADDRESS	4	SJBPSO	Process Sysout Block
268	(10C)	SIGNED	4	SJBPSOA	Process Sysout Block ALET
272	(110)	ADDRESS	4	SJBSTAC	Addr of Status/Cancel Block
276	(114)	SIGNED	4	SJBSTACA	Status/Cancel Block ALET
280	(118)	CHARACTER	1		Reserved
281	(119)	BITSTRING	1	SJBLKFG	SERIALIZATION FLAG
		1...		SJBFIRST	"X'80'" First CCTJPCLS request for an initiator; Only meaningful in batch job SJBs.
		EQU X'40' Reserved for future use			
		..1.		SJBPUPSP	"X'20'" Job may have unprocessed SPIN output
		...1		SJBTKCEL	"X'10'" SYSOUT MUST BE TRACKCELLED

Table 496. Structure SJB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		SJBTPST	"X'08'" SJB HAS BEEN POSTED TO TERM
		.... ..1.		SJBLCKPT	"X'02'" PARTIALLY SELECTED $SJB
		1		SJBMSWBP	"X'01'" NEW PDDB FOR MULTI SWBS
282	(11A)	SIGNED	2	SJBASID	USERS ASID
284	(11C)	BITSTRING	1	SJBFLG5	JOB RELATED FLAG BYTE
		THE FOLLOWING JOB TYPE FLAGS ARE IDENTICAL WITH THE JOB TYPE FLAGS IN THE JQE (I.E. JQE3JOB, JQE3STC AND JQE3TSU)			
		11		SJB5JOB	"B'00000011'" BATCH JOB (WHEN BITS ZERO)
		1		SJB5STC	"B'00000001'" FLAG FOR THE STC JOB
		.... ..1.		SJB5TSU	"B'00000010'" FLAG FOR THE TSU JOB
		.... .1..		SJB5REST	"B'00000100'" ALLOW $EJ RESTART TO XEQ BIT ON INDICATES RESTART=Y
		.... 1...		SJB5SWAC	"B'00001000'" SWA CREATED
		1...		SJB5JL	"B'10000000'" JESDS processing Job log
		.1..		SJB5JCI	"B'01000000'" JESDS processing JCL images
		..1.		SJB5MSG	"B'00100000'" JESDS processing SYSMSG
285	(11D)	BITSTRING	1	SJBFLG6	FLAG BYTE 6
285	(11D)	X'1F'	0	SJB6NODA	"$ODANYWP" NORMAL OUTDISP FROM CAT
286	(11E)	BITSTRING	1	SJBFLG7	FLAG BYTE 7
286	(11E)	X'1F'	0	SJB7AODA	"$ODANYWP" ABNORMAL OUTDISP FROM CAT
287	(11F)	BITSTRING	1	SJBFLGC	Flag Byte SERIALIZATION: NONE
		1...		SJBCARMI	"B'10000000'" Notify ARM of job term
		.1..		SJBCHASP	"B'01000000'" EOM processing required in HASP address space
		..1.		SJBCCANJ	"B'00100000'" Operator MVS CANCELed job
		...1		SJBCFJST	"B'00010000'" First batch job select
		.... 1...		SJBCWTHT	"B'00001000'" Partially selected job is the WITH= target
		.... .1..		SJBCJBGR	"B'00000100'" Job is a logging job for JOBGROUP (mutually exclusive with SJBCRJGR)
		.... ..1.		SJBCRJGR	"B'00000010'" This job is registered to a jobgroup in SJBJGRIX (mutually exclusive with JQX3JBGR).
		1		SJBCCONC	"B'00000001'" Job within concurrent set
288	(120)	BITSTRING	1	SJBSBCNT	Number of data sets opened for spool browse (count never decremented)

Table 496. Structure SJB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
289	(121)	BITSTRING	1	SJBFLGD	Flags Serialized via compare and swap
		1...		SJBDSAPI	"B'10000000'" Job has at least 1 SAPID
		.1..		SJBDJWEL	"B'01000000'" Appl hold JWEL created
		..1.		SJBDUNSP	"B'00100000'" IOT(s) must be unspun
		.... 1...		SJBDJLSP	"B'00001000'" JESLOG spin deferred waiting for SJB lock
290	(122)	SIGNED	2	SJBHJE00	Footprint for progress through HASCJBST HJE000
292	(124)	SIGNED	4	SJBJBNUM	Binary job number
296	(128)	CHARACTER	8	SJBJOBID	JOB IDENTIFIER - EBCDIC, NUMERIC
304	(130)	CHARACTER	8	SJBJOBNM	JOBNAME FROM JOB CARD
312	(138)	CHARACTER	8	SJBUSRID	USERID FROM JOB CARD
320	(140)	BITSTRING	8	SJBASCBT	Address space token
328	(148)	CHARACTER	8	SJBSECLB	SECLABEL for address space (SDSF use)
336	(150)	CHARACTER	8	SJBJOBCL	JES2 8 character job class
344	(158)	BITSTRING	1	SJBFLG8	Second excession limit flgs
		1...		SJB8LJLC	"X'80'" Lines JCL Limit is Cancel
		.1..		SJB8LJLD	"X'40'" Lines JCL Limit is Dump
		..1.		SJB8LJLW	"X'20'" Lines JCL Limit is Warning
	EQU X'10' RESERVED for future use				
		.... 1...		SJB8PJLC	"X'08'" Pages JCL Limit is Cancel
		.... .1..		SJB8PJLD	"X'04'" Pages JCL Limit is Dump
		.... ..1.		SJB8PJLW	"X'02'" Pages JCL Limit is Warning
	EQU X'01' RESERVED for future use				
345	(159)	BITSTRING	1	SJBFLG9	First excession limit flags
		1...		SJB9BJLC	"X'80'" Bytes JCL Limit is Cancel
		.1..		SJB9BJLD	"X'40'" Bytes JCL Limit is Dump
		..1.		SJB9BJLW	"X'20'" Bytes JCL Limit is Warning
	EQU X'10' RESERVED for future use				
		.... 1...		SJB9CJLC	"X'08'" Cards JCL Limit is Cancel
		.... .1..		SJB9CJLD	"X'04'" Cards JCL Limit is Dump
		.... ..1.		SJB9CJLW	"X'02'" Cards JCL Limit is Warning
	EQU X'01' RESERVED for future use				
346	(15A)	BITSTRING	1	SJBFLGA	APPC flag byte
		1...		SJBAFALL	"X'80'" First allocation processing
		.1..		SJBATP	"X'40'" Transaction Program

Table 496. Structure SJB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		SJBAPROT	"X'20'" Job is Protected
		...1		SJBASPOT	"X'10'" Spin output produced
		.... 1...		SJBASTIN	"X'08'" STOP initiator
		.... .1..		SJBATI	"X'04'" Transaction Initiator
		.... ..1.		SJBAWSTP	"X'02'" WLM posted initiator
347	(15B)	BITSTRING	1	SJBFLGB	Yet another flag byte
		1...		SJBBRJI	"X'80'" Request job id flag
		.1..		SJBBSYSL	"X'40'" SYSLOG flag
		..1.		SJBBSYSA	"X'20'" System address space
		...1		SJBBSPIN	"X'10'" Joblog is spinnable
		.... 1...		SJBBJOBL	"X'08'" Joblog is to be opened for request jobid caller
		.... .1..		SJBBNSPN	"X'04'" Joblog is not spinnable
		.... ..1.		SJBBRJCR	"X'02'" Request job id set Job Correlator in JSAB (SYS_CORR_CURRJOB)
		1		SJBBEJST	"X'01'" Exit 32 requested job Evict
348	(15C)	SIGNED	4	SJBJGRIX	Index of the jobgroup logging JQE (see SJBCRJGR)
352	(160)	SIGNED	4	SJBJGRKY	Job key of the jobgroup logging JQE (see SJBCRJGR)
356	(164)	BITSTRING	4		Reserved
360	(168)	DBL WORD	8	SJBDBLWK	DOUBLEWORD WORKAREA #1
368	(170)	DBL WORD	8	SJBDBLW1	DOUBLEWORD WORKAREA #2
376	(178)	CHARACTER	1	SJBTOKEN	Security token work area
		The following fields contain the current excession limits (in packed decimal format) for a job. When the job's output reaches one of these limits, message $HASP375 will be issued and a new limit is generated by adding whether a default or exit9-supplied increment amount.			
456	(1C8)	DBL WORD	8	(0)	Ensure doubleword alignment
456	(1C8)		8	SJBDELIN	Line excession limit
464	(1D0)		8	SJBDEPUN	Punch (card) excess. limit
472	(1D8)		8	SJBDEPAG	Page excession limit
480	(1E0)		8	SJBDEBYT	Byte excession limit
488	(1E8)	CHARACTER	8	SJBWSCNO	WLM Init counted srv class
		SJBWSCN - Job Select SSI processing field. Contains the service class associated with a batch job executing in a JES2 Initiator. Note: The field SJBWSCN contains transient data and should not be used to supply the service class for a WLM Initiator or the batch job executing in a WLM initiator. Use field SJBWSCNO to obtain the service class that pertains to a WLM Initiator and any batch job it may be executing.			
496	(1F0)	CHARACTER	8	SJBWSCN	WLM Service class name
504	(1F8)	SIGNED	4	(10)	Reserved for future use
544	(220)	DBL WORD	8	SJBSSIWK(0)	SSI ROUTINE WORK AREA
		Job Select SSI processing fields			

Table 496. Structure SJB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
544	(220)	BITSTRING	4	SJBWSCTK	WLM Service class token
548	(224)	BITSTRING	1	SJBWFLG1	WLM Flags
		1...		SJBW1DMD	"B'10000000'" Demand select initiator
		.1..		SJBW1SCS	"B'01000000'" Service class set via cmd
		..1.		SJBW1$SJ	"B'00100000'" Job started via $SJ cmd
549	(225)	BITSTRING	1	SJBWPRIO	Jobs current priority
550	(226)	BITSTRING	1	SJBWFLG2	Additional job flags
		1...		SJBW2AST	"B'10000000'" Job has alternate system symbol table
		.1..		SJBW2IST	"B'01000000'" Job has datasets with symbol substitution
551	(227)	BITSTRING	1		Reserved
552	(228)	BITSTRING	8	SJBWDBJI(0)	Demand job's identifier --+
552	(228)	BITSTRING	4	SJBWDBJN	Job number |
556	(22C)	BITSTRING	4	SJBWDBJK	Job key --+
560	(230)	BITSTRING	16	SJBSCENV	WLM Scheduling environment
576	(240)	BITSTRING	4	SJBSRMTK	SRM token (from IWMCLSFY)
580	(244)	BITSTRING	4	SJBARRIV	Job arrival time
584	(248)	BITSTRING	8	SJBRHLD	Duration job was ineligible for selection due to a hold
592	(250)	BITSTRING	8	SJBRRSC	Duration job was ineligible for selection due to unsatisfied resource requirements.
600	(258)	BITSTRING	8	SJBRTOC	Duration job was in conversion
608	(260)	CHARACTER	64	SJBSJCOR	Job correlator
Allocation SSI processing fields					
544	(220)	SIGNED	2	SJBINSCT	Dataset instance count
672	(2A0)	DBL WORD	8	(0)	Ensure size fullword mult
672	(2A0)	X'2A0'	0	SJBEND	"*" END OF SJB
672	(2A0)	X'2A0'	0	SJBSIZE	"*-SJB" SIZE OF SJB CONTROL BLOCK

Table 497. Cross Reference for $SJB

Name	Offset	Hex Tag
SJB	0	
SJBAFALL	15A	80
SJBAPROT	15A	20
SJBARRIV	244	
SJBASCBA	B0	
SJBASCBP	64	
SJBASCBT	140	
SJBASID	11A	
SJBASPOT	15A	10
SJBASTIN	15A	8
SJBATI	15A	4
SJBATP	15A	40
SJBAWSTP	15A	2

Table 497. Cross Reference for $SJB (continued)

Name	Offset	Hex Tag
SJBBEJST	15B	1
SJBBJOBL	15B	8
SJBBNSPN	15B	4
SJBBRJCR	15B	2
SJBBRJI	15B	80
SJBBSPIN	15B	10
SJBBSYSA	15B	20
SJBBSYSL	15B	40
SJBCARMI	11F	80
SJBCCANJ	11F	20
SJBCCONC	11F	1
SJBCFJST	11F	10
SJBCHASP	11F	40
SJBCJBGR	11F	4
SJBCKID	68	
SJBCRJGR	11F	2
SJBCSCB	94	
SJBCURVN	4	6
SJBCWTHT	11F	8
SJBDBLWK	168	
SJBDBLW1	170	
SJBDEBYT	1E0	
SJBDELIN	1C8	
SJBDEPAG	1D8	
SJBDEPUN	1D0	
SJBDJLSP	121	8
SJBDJWEL	121	40
SJBDSAPI	121	80
SJBDUNSP	121	20
SJBECB	B4	
SJBECBA	98	
SJBECBL	98	
SJBECBP	AC	
SJBECBS	9C	
SJBECBW	A0	
SJBEEND	A0	80
SJBEJSAC	8B	80
SJBEJSCN	8B	40
SJBEJSDM	8B	20
SJBEND	2A0	2A0
SJBEOMCC	84	
SJBEOMCH	DC	
SJBEOMFL	E8	
SJBEOMF1	E8	80
SJBEOMF2	E8	40
SJBEOMN	DC	
SJBEOMP	E0	
SJBEOMPC	E4	
SJBEOMQ	EC	

Table 497. Cross Reference for $SJB (continued)

Name	Offset	Hex Tag
SJBEOMRS	E9	
SJBERRET	A8	
SJBEVICH	8B	8
SJBEVICT	8B	10
SJBFAMLY	CD	
SJBFIRST	119	80
SJBFLGA	15A	
SJBFLGB	15B	
SJBFLGC	11F	
SJBFLGD	121	
SJBFLGE	8B	
SJBFLGEF	88	
SJBFLG1	6	
SJBFLG2	7	
SJBFLG3	D2	
SJBFLG4	D3	
SJBFLG5	11C	
SJBFLG6	11D	
SJBFLG7	11E	
SJBFLG8	158	
SJBFLG9	159	
SJBHJE00	122	
SJBID	0	
SJBINSCT	220	
SJBINTCT	F0	
SJBIOT	4C	
SJBJBNUM	124	
SJBJBSEL	8C	
SJBJCT	24	
SJBJCTTK	28	
SJBJGRIX	15C	
SJBJGRKY	160	
SJBJKEY	20	
SJBJOBCL	150	
SJBJOBID	128	
SJBJOBNM	130	
SJBJQOFF	44	
SJBLCKPT	119	2
SJBLKFG	119	
SJBLOCKH	F8	
SJBMAXCC	91	
SJBMAXRC	90	
SJBMSWBP	119	1
SJBMXIND	90	
SJBNEXTL	FC	
SJBOCT	54	
SJBPATID	C8	
SJBPIT	60	
SJBPRIO	CC	

Table 497. Cross Reference for $SJB (continued)

Name	Offset	Hex Tag
SJBPSO	108	
SJBPSOA	10C	
SJBPUPSP	119	20
SJBQUEUE	D4	
SJBRHLD	248	
SJBRRSC	250	
SJBRSNCD	F2	
SJBRSN00	F2	0
SJBRSN01	F2	4
SJBRSN02	F2	8
SJBRSN03	F2	C
SJBRSN04	F2	10
SJBRSN05	F2	14
SJBRSN06	F2	18
SJBRSN07	F2	1C
SJBRSN08	F2	20
SJBRSN09	F2	24
SJBRSN10	F2	28
SJBRSN11	F2	2C
SJBRSN12	F2	30
SJBRSN13	F2	34
SJBRSN14	F2	38
SJBRSN15	F2	3C
SJBRSN16	F2	40
SJBRSN17	F2	44
SJBRTOC	258	
SJBSASCB	C0	
SJBSBCNT	120	
SJBSCENV	230	
SJBSDB	1C	
SJBSECB	60	
SJBSECBP	BC	
SJBSECBS	C4	
SJBSECLB	148	
SJBSERRE	B8	
SJBSIZE	2A0	2A0
SJBSJB	18	
SJBSJCOR	260	
SJBSJPTR	58	
SJBSJXB	8	
SJBSPIOT	50	
SJBSRMTK	240	
SJBSSIB	14	
SJBSSIWK	220	
SJBSSNM	48	
SJBSTAC	110	
SJBSTACA	114	
SJBSTQE	6C	
SJBSWBUF	5C	

Table 497. Cross Reference for $SJB (continued)

Name	Offset	Hex Tag
SJBSXMPL	B8	
SJBTCB	F8	
SJBTCBP	30	
SJBTCBT	34	
SJBTIMOP	7C	
SJBTIMX	78	
SJBTINA	100	
SJBTINAA	104	
SJBTKCEL	119	10
SJBTMINT	78	
SJBTOKEN	178	
SJBTPST	119	8
SJBUSER	10	
SJBUSRID	138	
SJBVRSN	4	
SJBWAVE	C	
SJBWDBJI	228	
SJBWDBJK	22C	
SJBWDBJN	228	
SJBWFLG1	224	
SJBWFLG2	226	
SJBWPRIO	225	
SJBWSCN	1F0	
SJBWSCNO	1E8	
SJBWSCTK	220	
SJBW1$SJ	224	20
SJBW1DMD	224	80
SJBW1SCS	224	40
SJBW2AST	226	80
SJBW2IST	226	40
SJBXMPL	A8	
SJBXQCHN	D8	
SJBXQFN1	D0	
SJBXSTIM	80	
SJB1CRAL	6	20
SJB1EJOB	6	4
SJB1PI	6	80
SJB1SJID	6	40
SJB1SWBU	6	2
SJB1WIN	6	1
SJB2CNCL	7	10
SJB2CONV	7	8
SJB2EJST	7	40
SJB2EOM	7	20
SJB2HOLD	7	4
SJB2INIT	7	1
SJB2JNL	7	2
SJB2PNIT	7	80
SJB3CKPT	D2	4

Table 497. Cross Reference for $SJB (continued)

Name	Offset	Hex Tag
SJB3CLS	D2	80
SJB3FIOT	D2	2
SJB3FJCT	D2	1
SJB3FSDB	D2	40
SJB3PPOU	D2	10
SJB3TERM	D2	20
SJB4FSJB	D3	8
SJB4MEND	D3	80
SJB4MREQ	D3	20
SJB4MREX	D3	10
SJB4MRQH	D3	4
SJB4MTRM	D3	40
SJB4OCAN	D3	2
SJB4TERM	D3	1
SJB5JCI	11C	40
SJB5JL	11C	80
SJB5JOB	11C	3
SJB5MSG	11C	20
SJB5REST	11C	4
SJB5STC	11C	1
SJB5SWAC	11C	8
SJB5TSU	11C	2
SJB6NODA	11D	1F
SJB7AODA	11E	1F
SJB8LJLC	158	80
SJB8LJLD	158	40
SJB8LJLW	158	20
SJB8PJLC	158	8
SJB8PJLD	158	4
SJB8PJLW	158	2
SJB9BJLC	159	80
SJB9BJLD	159	40
SJB9BJLW	159	20
SJB9CJLC	159	8
SJB9CJLD	159	4
SJB9CJLW	159	2

Chapter 202. $SJIOB Information

$SJIOB Programming Interface Information

$SJIOB is a programming interface.

$SJIOB Heading Information

Common Name: Subsystem Job I/O Buffer
Macro ID: $SJIOB
DSECT Name: SJIOB
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: SJIO
Offset: SJIOBID-SJIOB
Length: L'SJIOBID
Storage Attributes: Subpool: 230
Key: 1
Residency: Virtual - 24 bit storage (contains IOB)
Real - 31 bit storage (contains CCW and data buffers)

Size: See SJIOBSZE
Created by: SJBINIT/SJIOBINT
Pointed to by: SJXBPIOB (for permanent SJIOBs)
HXBSJIOB (for SIGIO SJIOBs)
A register (for temporary SJIOBs)
Serialization: None
Function: The $SJIOB contains the I/O fields needed in the user or subtask environments. It is also used by the $SIGIO service in the user, subtask and main task environment.
The SJIOB exist in two forms defined as permanent and temporary. The permanent SJIOB is pointed to from the SJXB or the HASXB for SIGIO. Whereas, the temporary SJIOB is anchored in a register. The SJIOB contains DCB, DEB, IOB and ECB used by the CBIO and SIGIO routines.

$SJIOB mapping

Table 498. Structure SJIOB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SJIOB	
0	(0)	CHARACTER	4	SJIOBID	SJIOB IDENTIFIER
4	(4)	BITSTRING	1	SJIFLAG2	
		1...		SJI2TEMP	"B'10000000'" TEMPORARY SJIOB
		.1..		SJI2USE	"B'01000000'" SJIOB in use
		..1.		SJI2SIGI	"B'00100000'" SJIOB for $SIGIO
		...1		SJI2MIGO	"B'00010000'" During spool migration, override mapped volume consideration.

Table 498. Structure SJIOB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		SJI2SIOA	"B'00001000'" STARTIO appendage entered
		.... .1..		SJI2CEAA	"B'00000100'" CE appendage entered
5	(5)	BITSTRING	1	SJIMIGT	DAS transition count
6	(6)	BITSTRING	1	SJICBFG1	CBIO or SIGIO flag 1 copy
7	(7)	BITSTRING	1	SJICBFG2	Copy of CBIO flag 2
8	(8)	ADDRESS	4	SJIOSJXB	ADDRESS OF SJXB
12	(C)	ADDRESS	4	SJIOCBP	$CBIO CBP address
		$SIGIO in the main task uses the $SJIOB in the main task. Main task needs an XECB to post the waiting PCE. XECB remaps fields used by $CBIO.			
16	(10)	DBL WORD	8	SJIMECB(0)	Define an XECB for main task usage ($SIGIO)
16	(10)	SIGNED	4	SJIECB	ECB whose addr is in IOB
20	(14)	SIGNED	4	SJIJBMSK	Exit job mask
24	(18)	DBL WORD	8	SJIMQTR	MQTR for I/O (00MT TTTR)
32	(20)	SIGNED	4	SJIKEY	Job key for data area
36	(24)	CHARACTER	4	SJIVERID	Control block verify id
40	(28)	DBL WORD	8	(0)	Alignment
40	(28)	BITSTRING	0	SJIIOB(0)	IOB FOR JOB CONTROL BLOCKS
40	(28)	BITSTRING	1	SJIIFLG1	IOB - FLAG BYTE
41	(29)	BITSTRING	1	SJIIFLG2	IOB - Flag byte 2
42	(2A)	BITSTRING	1	SJIISNS0	IOB - FIRST SENSE BYTE
43	(2B)	BITSTRING	1	SJIISNS1	IOB - SECOND SENSE BYTE
44	(2C)	ADDRESS	4	SJIIECB(0)	IOB - EVENT CNTRL BLK ADR
44	(2C)	BITSTRING	1	SJIICMP	IOB - COMPLETION CODE
45	(2D)	ADDRESS	3	SJIIECBP	IOB - ECB POINTER (SJBECB)
48	(30)	BITSTRING	1	SJIIFLG3	IOB - Flag byte 3
49	(31)	BITSTRING	7	SJIICSW(0)	IOB - CHANNEL STATUS WORD
49	(31)	ADDRESS	3	SJIICSWA	IOB - CSW ADDRESS PORTION
52	(34)	BITSTRING	1	SJIIST0	IOB - FIRST STATUS BYTE
53	(35)	BITSTRING	1	SJIIST1	IOB - SECOND STATUS BYTE
54	(36)	SIGNED	2	SJIILEN	IOB - RESIDUAL LENGTH
56	(38)	BITSTRING	1	SJIISIO(0)	IOB - SIO condition code
56	(38)	ADDRESS	4	SJIIST	IOB - Channel program addr
60	(3C)	BITSTRING	1	SJIIFLG4(0)	IOB - Flag byte
60	(3C)	ADDRESS	4	SJIIDCB	IOB - DCB ADDRESS
64	(40)	ADDRESS	4	SJIIRS	IOB - RESTART CHAN PGM ADR
68	(44)	ADDRESS	4		
72	(48)	DBL WORD	8	SJIIFDAD	IOB - FULL DISK ADDRESS Form - MBBCCccchR Note: this is absolute address format
72	(48)	X'49'	0	SJIIBBCC	"SJIIFDAD+1,7" IOB - BBCCccchR part
80	(50)	SIGNED	4	(0)	Ensure word alignment
80	(50)	BITSTRING	48	SJIIOBE	Reserve space for IOB extension
128	(80)	SIGNED	4	(0)	Ensure word alignment
128	(80)	BITSTRING	48	SJIIEDB	Reserve space for I/O error data block
136	(88)	SIGNED	4	SJIDCB(0)	Start of DCB
176	(B0)	BITSTRING	1		Space for DCB foundation

Table 498. Structure SJIOB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
176	(B0)	X'B4'	0	SJIDEBAD	"SJIDCB+(DCBDEBAD-IHADCB),L'DCBDEBAD" Ptr from DCB to DEB
		SJIDASID has index of DAS which is a target of JES2 I/O request (M in MTTR/MQTR). SJIRDASX has index of DAS which is a target of actual channel program. They could be different. e.g. for a mapped volume or during some migration phases.			
188	(BC)	BITSTRING	1	SJIDASID	DAS index
189	(BD)	BITSTRING	1	SJIRDASX	Index of real DAS
190	(BE)	BITSTRING	2		Reserved
192	(C0)	BITSTRING	1	SJIDEB	Space for DEB
192	(C0)	X'DC'	0	SJIAPPAD	"SJIDEB+(DEBAPPAD-DEBBASIC),L'DEBAPPAD" Appendage vector addr
192	(C0)	X'D8'	0	SJIDCBAD	"SJIDEB+(DEBDCBAD-DEBBASIC),L'DEBDCBAD" Ptr from DEB to DCB
224	(E0)	BITSTRING	16	SJIDEBXT	Space for one DA DEB extent
240	(F0)		8	SJICCW1	SET SECTOR/NO-OP
248	(F8)		8	SJICCW2	SEARCH ID EQUAL
256	(100)		8	SJICCW3	TIC *-8
264	(108)		8	SJICCW4	WRITE/READ DATA
		IDAW'S - CURRENTLY SUPPORT UP TO 4K CONTROL BLOCK SIZE			
272	(110)	ADDRESS	4	SJIIDAW1	ADDRESS OF CNTRL BLK BUFFER
276	(114)	ADDRESS	4	SJIIDAW2	2K PAGE BNDRY GT THE BUFR ADDR
280	(118)	ADDRESS	4	SJIIDAW3	NEXT 2K PAGE BOUNDARY
284	(11C)	SIGNED	4		Reserved
		Provide data area for signature record I/O			
272	(110)	BITSTRING	8	SJISIG	Data read/written here
280	(118)	ADDRESS	4	SJISGBUF	SIGIO input buffer address
284	(11C)	BITSTRING	1	SJISGRPS	RPS value for CKD CCWs
285	(11D)	BITSTRING	1	SJISGFG1	SIGIO output flags
		1...		SJISG1VE	"B'10000000'" Validation error
		.1..		SJISG1RD	"B'01000000'" Read request
286	(11E)	BITSTRING	2		Reserved
288	(120)	DBL WORD	8	(0)	Ensure alignment
288	(120)	X'120'	0	SJIOBSZE	"*-SJIOB" Size of SJIOB

Table 499. Cross Reference for $SJIOB

Name	Offset	Hex Tag
SJIAPPAD	C0	DC
SJICBFG1	6	
SJICBFG2	7	
SJICCW1	F0	
SJICCW2	F8	
SJICCW3	100	
SJICCW4	108	

Table 499. Cross Reference for $SJIOB (continued)

Name	Offset	Hex Tag
SJIDASID	BC	
SJIDCB	88	
SJIDCBAD	C0	D8
SJIDEB	C0	
SJIDEBAD	B0	B4
SJIDEBXT	E0	
SJIECB	10	
SJIFLAG2	4	
SJIIBBCC	48	49
SJIICMP	2C	
SJIICSW	31	
SJIICSWA	31	
SJIIDAW1	110	
SJIIDAW2	114	
SJIIDAW3	118	
SJIIDCB	3C	
SJIIECB	2C	
SJIIECBP	2D	
SJIIEDB	80	
SJIIFDAD	48	
SJIIFLG1	28	
SJIIFLG2	29	
SJIIFLG3	30	
SJIIFLG4	3C	
SJIILEN	36	
SJIIOB	28	
SJIIOBE	50	
SJIIRS	40	
SJIISIO	38	
SJIISNS0	2A	
SJIISNS1	2B	
SJIIST	38	
SJIIST0	34	
SJIIST1	35	
SJIJBMSK	14	
SJIKEY	20	
SJIMECB	10	
SJIMIGT	5	
SJIMQTR	18	
SJIOB	0	
SJIOBID	0	
SJIOBSZE	120	120
SJIOCBP	C	
SJIOSJXB	8	
SJIRDASX	BD	
SJISGBUF	118	
SJISGFG1	11D	
SJISGRPS	11C	
SJISG1RD	11D	40

Table 499. Cross Reference for $SJIOB (continued)

Name	Offset	Hex Tag
SJISG1VE	11D	80
SJISIG	110	
SJIVERID	24	
SJI2CEAA	4	4
SJI2MIGO	4	10
SJI2SIGI	4	20
SJI2SIOA	4	8
SJI2TEMP	4	80
SJI2USE	4	40

Chapter 203. $SJXB Information

$SJXB Programming Interface Information

$SJXB is a programming interface.

$SJXB Heading Information

Common Name: Subsystem Job Block Extension
Macro ID: $SJXB
DSECT Name: SJXB
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'SJXB'
Offset: SJXBID-SJXB
Length: 4
Storage Attributes: Subpool: 230
Key: 1
Residency: Virtual and real storage are anywhere (above or below 16M) in the address space where the job that the $SJXB represents is active.

Size: See SJXBSIZE
Created by: Created by the $SJBINIT service when the job enters execution.
Pointed to by: SJBSJXB field of the $SJB data area
Serialization: Serialized via $SJBLOCK service.
Function: The SJB and SJXB are the main control blocks representing a job in the subsystem. The SJXB contains the information that is needed only in the user address space. The SJB contains the information that needs to be shared between the user and the subsystem address spaces.
The SJXB contains work area fields used by SSI functions and a pointer to the SJB. It also has a pointer to the SJIOB which contains the IOB and ECB used by $CBIO for control block I/O in addition to the ACB and DEB control blocks for the subsystem data sets. It also contains the RPL control block for the job log data set.

$SJXB mapping

Table 500. Structure SJXB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SJXB	
0	(0)	CHARACTER	4	SJXBID	SJXB IDENTIFIER
4	(4)	ADDRESS	4	SJXBSJBA	ADDRESS OF SJB
8	(8)	ADDRESS	4	SJXBDEBS	Address of SJXB DEB area
12	(C)	ADDRESS	4	SJXBPIOB	ADDRESS OF SJIOB
16	(10)	ADDRESS	4	SJXGGST	ADDRESS OF GROUPING STRINGS OBJECT

Table 500. Structure SJXB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		THE FIELDS FROM SJXCLBEG TO SJXCLEND ARE CLEARED OUT IN HASCJBST EVERYTIME THE SJXB IS REUSED FOR ANOTHER JOB.			
20	(14)	ADDRESS	4	SJXCLBEG(0)	START OF CLEARED SECTION
24	(18)	DBL WORD	8	SJXBUSAV(0)	SAVE AREA FOR UNALLOCATION
24	(18)	ADDRESS	4	SJXBSIOT	NEXT IOT ADDR SAVE AREA
28	(1C)	BITSTRING	1	SJXBSPDB	PDBFLAG1 SAVE AREA
29	(1D)	BITSTRING	1	SJXFLAG1	FLAGS - Flag needs to be serialized by OIL & NIL
		1...		SJX1PLHD	"B'10000000'" SJXRIOT POINTS TO PLACEHOLDER
		.1..		SJX1JPGM	"B'01000000'" Job has page mode records
		..1.		SJX1JSDS	"B'00100000'" JES2 system dataset involved in excession
		...1		SJX1J722	"B'00010000'" Job abended with abend722 (never reset)
30	(1E)	BITSTRING	1		Reserved for future use
31	(1F)	BITSTRING	1	SJXFLAG2	Flags - serialized via Compare and Swap
		1...		SJX2TITL	"B'10000000'" Joblog title line written
		.1..		SJX2INTR	"B'01000000'" Interpreter called during conversion phase
32	(20)	BITSTRING	3		Reserved for future use
35	(23)	BITSTRING	1	SJXJOBRC	JOBRC value
		.1..		SJXJBMRC	"X'40'" JOBRC=MAXRC specified
		..1.		SJXJBLRC	"X'20'" JOBRC=LASTRC specified
		...1		SJXJBSRC	"X'10'" JOBRC=(STEP,x) specified
36	(24)	CHARACTER	8	SJXJBPSN	JOBRC name on 'EXEC PGM='
44	(2C)	CHARACTER	8	SJXJBPPS	JOBRC name on 'EXEC PROC='
52	(34)	SIGNED	4	SJXSPNUM	NUMBER OF SPIN IOTS UNALLOCATED AND NOT YET REUSED
56	(38)	ADDRESS	4	SJXRIOT	ADDRESS OF LAST NORMAL IOT USED IN REUSE SEARCH
60	(3C)	ADDRESS	4	SJXRPDDB	OFFSET OF LAST NULL PLACEHOLDER PDDB USED IN REUSE SEARCH
64	(40)	ADDRESS	4	SJXDSCA	For SYSLOG jobs, address of first data set catalog (DSCA) block
68	(44)	ADDRESS	4	SJXALTST	Addr of alternate system symbol table for instream symbol substitution
72	(48)	BITSTRING	8		Reserved
80	(50)	ADDRESS	4	SJXSLOGP	Ptr to 1st logging YLGC
		THE ESTIMATED COUNT FIELDS MUST BE KEPT TOGETHER AND ARE MAPPED BY THE EST DSECT GENERATED BY THE $EST MACRO			
84	(54)	SIGNED	4	SJXLINES(0)	LINE EXCESSION FIELDS
84	(54)	SIGNED	4	SJXLNINT	EST LINE MESSAGE INTERVAL
88	(58)	BITSTRING	1	SJXLNOP	EXECUTION LINE OPTION
89	(59)	BITSTRING	3		RESERVED FOR FUTURE USE
92	(5C)	SIGNED	4	SJXPUNCH(0)	PUNCH EXCESSION FIELDS
92	(5C)	SIGNED	4	SJXPUINT	EST CARD MESSAGE INTERVAL

Table 500. Structure SJXB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
96	(60)	BITSTRING	1	SJXPUNOP	EXECUTION CARD OPTION
97	(61)	BITSTRING	3		RESERVED FOR FUTURE USE
100	(64)	SIGNED	4	SJXPAGES(0)	PAGES EXCESSION FIELDS
100	(64)	SIGNED	4	SJXPGINT	EST PAGES MESSAGE INTERVAL
104	(68)	BITSTRING	1	SJXPGOP	EXECUTION PAGES OPTION
105	(69)	BITSTRING	3		RESERVED FOR FUTURE USE
108	(6C)	SIGNED	4	SJXBYTES(0)	BYTES EXCESSION FIELDS
108	(6C)	SIGNED	4	SJXBYINT	EST BYTES MESSAGE INTERVAL
112	(70)	BITSTRING	1	SJXBYTOP	EXECUTION BYTE OPTION
113	(71)	BITSTRING	3		RESERVED FOR FUTURE USE
		END OF THE ESTIMATED COUNT FIELDS The following area, to SJXUSER, should be used for any new fields retrieved using the SJFACC facility and module HASPSJFA if any are added in the future.			
116	(74)	CHARACTER	4	SJXACCT	Account number
120	(78)	CHARACTER	1	SJXMSGCL	MSGCLASS value for TPs only
121	(79)	BITSTRING	3		Reserved for future use
		FIELD RESERVED FOR THE USER			
124	(7C)	ADDRESS	4	SJXUSER	*** RESERVED FOR USER ***
128	(80)	ADDRESS	4	SJXJMR	Address of extended JMR in 24 bit storage
132	(84)	SIGNED	4	(4)	Reserved for future use
148	(94)	SIGNED	4	SJXPBFCT	NUMBER OF EXTRA PBUFS
152	(98)	ADDRESS	4	SJXWTCHN	Chain of SDBs waiting for PBUFs (for PUT)
156	(9C)	BITSTRING	12	SJXRESRV	Reserved for future IBM use
168	(A8)	DBL WORD	8	SJXDWORK	General work area
176	(B0)	DBL WORD	8	(0)	Ensure doubleword alignment
176	(B0)		8	SJXJBPRT	Job total printed output (in packed decimal form)
184	(B8)		8	SJXJBPUN	Job total punched output (in packed decimal form)
192	(C0)		8	SJXJBPAG	Job total page count (in packed decimal form)
200	(C8)		8	SJXJBBYT	Job total byte count (in packed decimal form)
208	(D0)		8	SJXSPUNB	Job total spun byte count (in packed decimal form)
216	(D8)	CHARACTER	64	SJXJCOR	Job Correlator
280	(118)	DBL WORD	8	SJXCLEND(0)	END OF CLEARED SECTION
280	(118)	SIGNED	4	SJXPBFLM	Limit on number of PBUFs allowed in this addr space
		Addresses of SPCs for Joblog and SYSMSG			
284	(11C)	ADDRESS	4	SJXLSPC	JOBLOG SPC address
288	(120)	ADDRESS	4	SJXMSPC	SYSMSG SPC address
		ACB FOR HASP JOB LOG DATASET			
292	(124)	SIGNED	4	SJXLACB(0)	
292	(124)	BITSTRING	1		. ACB IDENTIFICATION
293	(125)	ADDRESS	1		ACB SUBTYPE X04SVHS
294	(126)	ADDRESS	2		. ACB LENGTH X03004HS

Table 500. Structure SJXB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
296	(128)	ADDRESS	4		. AMB LIST POINTER
300	(12C)	ADDRESS	4		. INTERFACE ROUTINE POINTER
304	(130)	BITSTRING	1		MACRF(1) X04SVHS
305	(131)	BITSTRING	1		MACRF(2) X04SVHS FOR NUMERIC IN PARENS
306	(132)	ADDRESS	1		. NO OF CONCURRENT X04SVHS STRINGS FOR AIX PATH X04SVHS FOR NUMERIC IN PARENS
307	(133)	ADDRESS	1		. NUMBER OF STRINGS X04SVHS FOR NUMERIC IN PARENS
308	(134)	ADDRESS	2		. NUMBER OF DATA BUFFERS FOR NUMERIC IN PARENS
310	(136)	ADDRESS	2		. NUMBER OF INDEX BUFFERS
312	(138)	BITSTRING	1		MACRF(3) X04SVHS FOR NUMERIC IN PARENS
313	(139)	ADDRESS	1		SHARED RESOURCE POOL ID
314	(13A)	ADDRESS	2		. JES BUFFER POOL/NUMBER X04SVHS OF JOURNAL BUFFERS
316	(13C)	BITSTRING	1		. RECFM=A
317	(13D)	BITSTRING	1		READ INTEGRITY OPTIONS
318	(13E)	BITSTRING	2		. DSORG=ACB
320	(140)	ADDRESS	4		X04SVHS
324	(144)	ADDRESS	4		. PASSWORD POINTER
328	(148)	ADDRESS	4		. EXIT LIST POINTER
332	(14C)	CHARACTER	8		
340	(154)	BITSTRING	1		OFLAGS
341	(155)	ADDRESS	1		. ERFLAGS
342	(156)	BITSTRING	1		INFLGS(1) X04SVHS
343	(157)	BITSTRING	1		INFLGS(2) X04SVHS
344	(158)	ADDRESS	4		. OPENJ JFCB POINTER
348	(15C)	ADDRESS	4		BUFFER SPACE
352	(160)	ADDRESS	2		. BLOCK SIZE
354	(162)	ADDRESS	2		. RECORD SIZE
356	(164)	ADDRESS	4		. USER WORKAREA POINTER
360	(168)	ADDRESS	4		CONTROL BLOCK MANIPULATION WORKAREA POINTER
364	(16C)	ADDRESS	4		. PTR TO APPLICATION NAME X03004
		RPL FOR HASP JOB LOG DATASET			
368	(170)	SIGNED	4	SJXLRPL(0)	
368	(170)	ADDRESS	1		RPL IDENTIFICATION
369	(171)	ADDRESS	1		RPL SUBTYPE X04SVHS
370	(172)	ADDRESS	1		RPL REQUEST TYPE
371	(173)	ADDRESS	1		RPL LENGTH X03004
372	(174)	ADDRESS	4		. POINTER TO PLACEHOLDER
376	(178)	ADDRESS	4		. ECB
380	(17C)	BITSTRING	1		. STATUS BYTE
381	(17D)	BITSTRING	3		FEEDBACK CODES
384	(180)	ADDRESS	2		. KEY LENGTH
386	(182)	ADDRESS	2		. TRANSID
388	(184)	ADDRESS	4		POINTER TO CONTROL CHARACTER
392	(188)	ADDRESS	4		
396	(18C)	ADDRESS	4		. POINTER TO TCB

Table 500. Structure SJXB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
400	(190)	ADDRESS	4		. POINTER TO RECORD AREA
404	(194)	ADDRESS	4		. POINTER TO ARGUMENT
408	(198)	BITSTRING	1		. OPTCD BYTE 1
409	(199)	BITSTRING	1		
410	(19A)	BITSTRING	1		OPTCD BYTE 3
411	(19B)	BITSTRING	1		OPTCD BYTE 4
412	(19C)	ADDRESS	4		. POINTER TO NEXT RPL
416	(1A0)	ADDRESS	4		. RESERVED FOR LOGICAL REC LEN
420	(1A4)	ADDRESS	4		. RESERVED FOR BUFFER LENGTH OPTCD BYTES 5-8 X03004
424	(1A8)	BITSTRING	1		
425	(1A9)	BITSTRING	1		
426	(1AA)	BITSTRING	1		
427	(1AB)	BITSTRING	1		
428	(1AC)	BITSTRING	8		. RBA
436	(1B4)	BITSTRING	1		
437	(1B5)	ADDRESS	1		ACTIVE INDICATOR
438	(1B6)	ADDRESS	2		. MAXIMUM ERROR MSG LENGTH
440	(1B8)	ADDRESS	4		. RESERVED FOR MESSAGE AREA PTR
440	(1B8)	X'1BC'	0	SJXLOGE	"*" End of job log ACB/RPL
ACB, RPL, etc. for NJE from NETSRV address space					
292	(124)	SIGNED	4	SJXNJACB(0)	
292	(124)	BITSTRING	1		. ACB IDENTIFICATION
293	(125)	ADDRESS	1		ACB SUBTYPE X04SVHS
294	(126)	ADDRESS	2		. ACB LENGTH X03004HS
296	(128)	ADDRESS	4		. AMB LIST POINTER
300	(12C)	ADDRESS	4		. INTERFACE ROUTINE POINTER
304	(130)	BITSTRING	1		MACRF(1) X04SVHS
305	(131)	BITSTRING	1		MACRF(2) X04SVHS FOR NUMERIC IN PARENS
306	(132)	ADDRESS	1		. NO OF CONCURRENT X04SVHS STRINGS FOR AIX PATH X04SVHS FOR NUMERIC IN PARENS
307	(133)	ADDRESS	1		. NUMBER OF STRINGS X04SVHS FOR NUMERIC IN PARENS
308	(134)	ADDRESS	2		. NUMBER OF DATA BUFFERS FOR NUMERIC IN PARENS
310	(136)	ADDRESS	2		. NUMBER OF INDEX BUFFERS
312	(138)	BITSTRING	1		MACRF(3) X04SVHS FOR NUMERIC IN PARENS
313	(139)	ADDRESS	1		SHARED RESOURCE POOL ID
314	(13A)	ADDRESS	2		. JES BUFFER POOL/NUMBER X04SVHS OF JOURNAL BUFFERS
316	(13C)	BITSTRING	1		. RECFM=A
317	(13D)	BITSTRING	1		READ INTEGRITY OPTIONS
318	(13E)	BITSTRING	2		. DSORG=ACB
320	(140)	ADDRESS	4		X04SVHS
324	(144)	ADDRESS	4		. PASSWORD POINTER
328	(148)	ADDRESS	4		. EXIT LIST POINTER
332	(14C)	CHARACTER	8		
340	(154)	BITSTRING	1		OFLAGS
341	(155)	ADDRESS	1		. ERFLAGS

Table 500. Structure SJXB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
342	(156)	BITSTRING	1		INFLGS(1) X04SVHS
343	(157)	BITSTRING	1		INFLGS(2) X04SVHS
344	(158)	ADDRESS	4		. OPENJ JFCB POINTER
348	(15C)	ADDRESS	4		BUFFER SPACE
352	(160)	ADDRESS	2		. BLOCK SIZE
354	(162)	ADDRESS	2		. RECORD SIZE
356	(164)	ADDRESS	4		. USER WORKAREA POINTER
360	(168)	ADDRESS	4		CONTROL BLOCK MANIPULATION WORKAREA POINTER
364	(16C)	ADDRESS	4		. PTR TO APPLICATION NAME X03004
368	(170)	SIGNED	4	(0)	
368	(170)	BITSTRING	80	SJXNJRPL	RPL uses SJXNJACB
		Transaction Processor Fields			
448	(1C0)	ADDRESS	4	SJXSJBS	Address of SJB save area
452	(1C4)	SIGNED	4	SJXTRPL(0)	
452	(1C4)	ADDRESS	1		RPL IDENTIFICATION
453	(1C5)	ADDRESS	1		RPL SUBTYPE X04SVHS
454	(1C6)	ADDRESS	1		RPL REQUEST TYPE
455	(1C7)	ADDRESS	1		RPL LENGTH X03004
456	(1C8)	ADDRESS	4		. POINTER TO PLACEHOLDER
460	(1CC)	ADDRESS	4		. ECB
464	(1D0)	BITSTRING	1		. STATUS BYTE
465	(1D1)	BITSTRING	3		FEEDBACK CODES
468	(1D4)	ADDRESS	2		. KEY LENGTH
470	(1D6)	ADDRESS	2		. TRANSID
472	(1D8)	ADDRESS	4		POINTER TO CONTROL CHARACTER
476	(1DC)	ADDRESS	4		. POINTER TO ACB
480	(1E0)	ADDRESS	4		. POINTER TO TCB
484	(1E4)	ADDRESS	4		. POINTER TO RECORD AREA
488	(1E8)	ADDRESS	4		. POINTER TO ARGUMENT
492	(1EC)	BITSTRING	1		. OPTCD BYTE 1
493	(1ED)	BITSTRING	1		
494	(1EE)	BITSTRING	1		OPTCD BYTE 3
495	(1EF)	BITSTRING	1		OPTCD BYTE 4
496	(1F0)	ADDRESS	4		. POINTER TO NEXT RPL
500	(1F4)	ADDRESS	4		. RESERVED FOR LOGICAL REC LEN
504	(1F8)	ADDRESS	4		. RESERVED FOR BUFFER LENGTH OPTCD BYTES 5-8 X03004
508	(1FC)	BITSTRING	1		
509	(1FD)	BITSTRING	1		
510	(1FE)	BITSTRING	1		
511	(1FF)	BITSTRING	1		
512	(200)	BITSTRING	8		. RBA
520	(208)	BITSTRING	1		
521	(209)	ADDRESS	1		ACTIVE INDICATOR
522	(20A)	ADDRESS	2		. MAXIMUM ERROR MSG LENGTH
524	(20C)	ADDRESS	4		. RESERVED FOR MESSAGE AREA PTR
528	(210)	ADDRESS	4	SJXTACB	Address of ACB for SYSLOG
532	(214)	BITSTRING	4		Reserved for future use
536	(218)	SIGNED	4	SJXJSPCT	Number of SAPI threads awaiting JES2 addresspace

Table 500. Structure SJXB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		MACDATE = 06/13/1996			
540	(21C)	SIGNED	4	SJXALES(0)	.ALESERV PC PARAMETER LIST
540	(21C)	BITSTRING	1		.SERVICE TYPE CODE
541	(21D)	BITSTRING	1		.OPTIONS FLAG BYTE
542	(21E)	ADDRESS	2		.RESERVED
544	(220)	ADDRESS	4		.ALET
548	(224)	BITSTRING	8		.STOKEN (SPACE TOKEN)
548	(224)	X'10'	0	SJXALESL	"*-SJXALES" Length of block
		MACDATE = 04/03/89			
540	(21C)	SIGNED	4	SJXTTOK(0)	
540	(21C)	CHARACTER	16	(0)	TCB TOKEN (INPUT/OUTPUT)
540	(21C)	BITSTRING	8		
548	(224)	SIGNED	4		
552	(228)	ADDRESS	4		
556	(22C)	ADDRESS	4		ASCB ADDRESS (INPUT)
560	(230)	SIGNED	4	(0)	FLAGS (INPUT)
560	(230)	SIGNED	1		TYPE OF TCBTOKEN REQUEST
561	(231)	SIGNED	3		RESERVED
561	(231)	X'18'	0	SJXTTOKL	"*-SJXTTOK" Length of block
564	(234)	BITSTRING	204	SJXS35D	Memory in primary space for WTOLOGQ processing (serialized by SJB lock)
768	(300)	DBL WORD	8	(0)	
768	(300)	X'300'	0	SJXBSIZE	"*-SJXB" SIZE OF SJB EXTENSION

Table 501. Structure SJXDEB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SJXDEB	, Start of DSECT
0	(0)	CHARACTER	4	SJXDID	Eyecatcher
4	(4)	ADDRESS	4	SJXDSJXB	Address of SJXB
8	(8)	SIGNED	4	SJXDLEN	Length of SJXDEB
12	(C)	SIGNED	4	SJXDSTRT(0)	Start of DEBs
		DEB for HASP job log data set			
12	(C)	BITSTRING	1	SJXLDEB	
		ACB for internal text/SWA blocks data set			
44	(2C)	SIGNED	4	SJXIACB(0)	
44	(2C)	BITSTRING	1		. ACB IDENTIFICATION
45	(2D)	ADDRESS	1		ACB SUBTYPE X04SVHS
46	(2E)	ADDRESS	2		. ACB LENGTH X03004HS
48	(30)	ADDRESS	4		. AMB LIST POINTER
52	(34)	ADDRESS	4		. INTERFACE ROUTINE POINTER
56	(38)	BITSTRING	1		MACRF(1) X04SVHS
57	(39)	BITSTRING	1		MACRF(2) X04SVHS FOR NUMERIC IN PARENS
58	(3A)	ADDRESS	1		. NO OF CONCURRENT X04SVHS STRINGS FOR AIX PATH X04SVHS FOR NUMERIC IN PARENS

Table 501. Structure SJXDEB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
59	(3B)	ADDRESS	1		. NUMBER OF STRINGS X04SVHS FOR NUMERIC IN PARENS
60	(3C)	ADDRESS	2		. NUMBER OF DATA BUFFERS FOR NUMERIC IN PARENS
62	(3E)	ADDRESS	2		. NUMBER OF INDEX BUFFERS
64	(40)	BITSTRING	1		MACRF(3) X04SVHS FOR NUMERIC IN PARENS
65	(41)	ADDRESS	1		SHARED RESOURCE POOL ID
66	(42)	ADDRESS	2		. JES BUFFER POOL/NUMBER X04SVHS OF JOURNAL BUFFERS
68	(44)	BITSTRING	1		. RECFM=A
69	(45)	BITSTRING	1		READ INTEGRITY OPTIONS
70	(46)	BITSTRING	2		. DSORG=ACB
72	(48)	ADDRESS	4		X04SVHS
76	(4C)	ADDRESS	4		. PASSWORD POINTER
80	(50)	ADDRESS	4		. EXIT LIST POINTER
84	(54)	CHARACTER	8		
92	(5C)	BITSTRING	1		OFLAGS
93	(5D)	ADDRESS	1		. ERFLAGS
94	(5E)	BITSTRING	1		INFLGS(1) X04SVHS
95	(5F)	BITSTRING	1		INFLGS(2) X04SVHS
96	(60)	ADDRESS	4		. OPENJ JFCB POINTER
100	(64)	ADDRESS	4		BUFFER SPACE
104	(68)	ADDRESS	2		. BLOCK SIZE
106	(6A)	ADDRESS	2		. RECORD SIZE
108	(6C)	ADDRESS	4		. USER WORKAREA POINTER
112	(70)	ADDRESS	4		CONTROL BLOCK MANIPULATION WORKAREA POINTER
116	(74)	ADDRESS	4		. PTR TO APPLICATION NAME X03004
	DEB for internal text/SWA blocks data set				
120	(78)	BITSTRING	1	SJXIDEB	
	ACB for system messages dataset				
152	(98)	SIGNED	4	SJXMACB(0)	
152	(98)	BITSTRING	1		. ACB IDENTIFICATION
153	(99)	ADDRESS	1		ACB SUBTYPE X04SVHS
154	(9A)	ADDRESS	2		. ACB LENGTH X03004HS
156	(9C)	ADDRESS	4		. AMB LIST POINTER
160	(A0)	ADDRESS	4		. INTERFACE ROUTINE POINTER
164	(A4)	BITSTRING	1		MACRF(1) X04SVHS
165	(A5)	BITSTRING	1		MACRF(2) X04SVHS FOR NUMERIC IN PARENS
166	(A6)	ADDRESS	1		. NO OF CONCURRENT X04SVHS STRINGS FOR AIX PATH X04SVHS FOR NUMERIC IN PARENS
167	(A7)	ADDRESS	1		. NUMBER OF STRINGS X04SVHS FOR NUMERIC IN PARENS
168	(A8)	ADDRESS	2		. NUMBER OF DATA BUFFERS FOR NUMERIC IN PARENS
170	(AA)	ADDRESS	2		. NUMBER OF INDEX BUFFERS
172	(AC)	BITSTRING	1		MACRF(3) X04SVHS FOR NUMERIC IN PARENS

Table 501. Structure SJXDEB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
173	(AD)	ADDRESS	1		SHARED RESOURCE POOL ID
174	(AE)	ADDRESS	2		. JES BUFFER POOL/NUMBER X04SVHS OF JOURNAL BUFFERS
176	(B0)	BITSTRING	1		. RECFM=A
177	(B1)	BITSTRING	1		READ INTEGRITY OPTIONS
178	(B2)	BITSTRING	2		. DSORG=ACB
180	(B4)	ADDRESS	4		X04SVHS
184	(B8)	ADDRESS	4		. PASSWORD POINTER
188	(BC)	ADDRESS	4		. EXIT LIST POINTER
192	(C0)	CHARACTER	8		
200	(C8)	BITSTRING	1		OFLAGS
201	(C9)	ADDRESS	1		. ERFLAGS
202	(CA)	BITSTRING	1		INFLGS(1) X04SVHS
203	(CB)	BITSTRING	1		INFLGS(2) X04SVHS
204	(CC)	ADDRESS	4		. OPENJ JFCB POINTER
208	(D0)	ADDRESS	4		BUFFER SPACE
212	(D4)	ADDRESS	2		. BLOCK SIZE
214	(D6)	ADDRESS	2		. RECORD SIZE
216	(D8)	ADDRESS	4		. USER WORKAREA POINTER
220	(DC)	ADDRESS	4		CONTROL BLOCK MANIPULATION WORKAREA POINTER
224	(E0)	ADDRESS	4		. PTR TO APPLICATION NAME X03004
DEB for system messages data set					
228	(E4)	BITSTRING	1	SJXMDEB	
RPL for system messages dataset					
260	(104)	SIGNED	4	SJXMRPL(0)	
260	(104)	ADDRESS	1		RPL IDENTIFICATION
261	(105)	ADDRESS	1		RPL SUBTYPE X04SVHS
262	(106)	ADDRESS	1		RPL REQUEST TYPE
263	(107)	ADDRESS	1		RPL LENGTH X03004
264	(108)	ADDRESS	4		. POINTER TO PLACEHOLDER
268	(10C)	ADDRESS	4		. ECB
272	(110)	BITSTRING	1		. STATUS BYTE
273	(111)	BITSTRING	3		FEEDBACK CODES
276	(114)	ADDRESS	2		. KEY LENGTH
278	(116)	ADDRESS	2		. TRANSID
280	(118)	ADDRESS	4		POINTER TO CONTROL CHARACTER
284	(11C)	ADDRESS	4		
288	(120)	ADDRESS	4		. POINTER TO TCB
292	(124)	ADDRESS	4		. POINTER TO RECORD AREA
296	(128)	ADDRESS	4		. POINTER TO ARGUMENT
300	(12C)	BITSTRING	1		. OPTCD BYTE 1
301	(12D)	BITSTRING	1		
302	(12E)	BITSTRING	1		OPTCD BYTE 3
303	(12F)	BITSTRING	1		OPTCD BYTE 4
304	(130)	ADDRESS	4		. POINTER TO NEXT RPL
308	(134)	ADDRESS	4		. RESERVED FOR LOGICAL REC LEN
312	(138)	ADDRESS	4		. RESERVED FOR BUFFER LENGTH OPTCD BYTES 5-8 X03004
316	(13C)	BITSTRING	1		
317	(13D)	BITSTRING	1		

Table 501. Structure SJXDEB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
318	(13E)	BITSTRING	1		
319	(13F)	BITSTRING	1		
320	(140)	BITSTRING	8		. RBA
328	(148)	BITSTRING	1		
329	(149)	ADDRESS	1		ACTIVE INDICATOR
330	(14A)	ADDRESS	2		. MAXIMUM ERROR MSG LENGTH
332	(14C)	ADDRESS	4		. RESERVED FOR MESSAGE AREA PTR
ACB for journal dataset					
336	(150)	SIGNED	4	SJXJACB(0)	
336	(150)	BITSTRING	1		. ACB IDENTIFICATION
337	(151)	ADDRESS	1		ACB SUBTYPE X04SVHS
338	(152)	ADDRESS	2		. ACB LENGTH X03004HS
340	(154)	ADDRESS	4		. AMB LIST POINTER
344	(158)	ADDRESS	4		. INTERFACE ROUTINE POINTER
348	(15C)	BITSTRING	1		MACRF(1) X04SVHS
349	(15D)	BITSTRING	1		MACRF(2) X04SVHS FOR NUMERIC IN PARENS
350	(15E)	ADDRESS	1		. NO OF CONCURRENT X04SVHS STRINGS FOR AIX PATH X04SVHS FOR NUMERIC IN PARENS
351	(15F)	ADDRESS	1		. NUMBER OF STRINGS X04SVHS FOR NUMERIC IN PARENS
352	(160)	ADDRESS	2		. NUMBER OF DATA BUFFERS FOR NUMERIC IN PARENS
354	(162)	ADDRESS	2		. NUMBER OF INDEX BUFFERS
356	(164)	BITSTRING	1		MACRF(3) X04SVHS FOR NUMERIC IN PARENS
357	(165)	ADDRESS	1		SHARED RESOURCE POOL ID
358	(166)	ADDRESS	2		. JES BUFFER POOL/NUMBER X04SVHS OF JOURNAL BUFFERS
360	(168)	BITSTRING	1		. RECFM=A
361	(169)	BITSTRING	1		READ INTEGRITY OPTIONS
362	(16A)	BITSTRING	2		. DSORG=ACB
364	(16C)	ADDRESS	4		X04SVHS
368	(170)	ADDRESS	4		. PASSWORD POINTER
372	(174)	ADDRESS	4		. EXIT LIST POINTER
376	(178)	CHARACTER	8		
384	(180)	BITSTRING	1		OFLAGS
385	(181)	ADDRESS	1		. ERFLAGS
386	(182)	BITSTRING	1		INFLGS(1) X04SVHS
387	(183)	BITSTRING	1		INFLGS(2) X04SVHS
388	(184)	ADDRESS	4		. OPENJ JFCB POINTER
392	(188)	ADDRESS	4		BUFFER SPACE
396	(18C)	ADDRESS	2		. BLOCK SIZE
398	(18E)	ADDRESS	2		. RECORD SIZE
400	(190)	ADDRESS	4		. USER WORKAREA POINTER
404	(194)	ADDRESS	4		CONTROL BLOCK MANIPULATION WORKAREA POINTER
408	(198)	ADDRESS	4		. PTR TO APPLICATION NAME X03004
408	(198)	X'4C'	0	SJACBLGH	"*-SJXJACB" Length of JACB
DEB for journal dataset					

Table 501. Structure SJXDEB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
412	(19C)	BITSTRING	1	SJXJDEB	
	ACB for EVENTLOG data set				
444	(1BC)	BITSTRING	4	SJXEACBP(0)	EVENTLOG ACB Options prefix
444	(1BC)	BITSTRING	1	SJXEAPF1	Suppression flags
		1...		SJXEAPSM	"B'10000000'" Suppress EVENTLOG SMF rec
		.1..		SJXEAPST	"B'01000000'" Suppress EVENTLOG STEP rc
		..1.		SJXEAPRS	"B'00100000'" Suppress EVENTLOG RESTART
		...1		SJXEAPTR	"B'00010000'" Suppress EVENTLOG TRACE r
		.... 1...		SJXEAPUS	"B'00001000'" Suppress EVENTLOG USER rc
445	(1BD)	BITSTRING	3		Reserved
445	(1BD)	X'4'	0	SJXEAPLN	"*-SJXEACBP" Length of Options prefix
448	(1C0)	SIGNED	4	SJXEACB(0)	
448	(1C0)	BITSTRING	1		. ACB IDENTIFICATION
449	(1C1)	ADDRESS	1		ACB SUBTYPE X04SVHS
450	(1C2)	ADDRESS	2		. ACB LENGTH X03004HS
452	(1C4)	ADDRESS	4		. AMB LIST POINTER
456	(1C8)	ADDRESS	4		. INTERFACE ROUTINE POINTER
460	(1CC)	BITSTRING	1		MACRF(1) X04SVHS
461	(1CD)	BITSTRING	1		MACRF(2) X04SVHS FOR NUMERIC IN PARENS
462	(1CE)	ADDRESS	1		. NO OF CONCURRENT X04SVHS STRINGS FOR AIX PATH X04SVHS FOR NUMERIC IN PARENS
463	(1CF)	ADDRESS	1		. NUMBER OF STRINGS X04SVHS FOR NUMERIC IN PARENS
464	(1D0)	ADDRESS	2		. NUMBER OF DATA BUFFERS FOR NUMERIC IN PARENS
466	(1D2)	ADDRESS	2		. NUMBER OF INDEX BUFFERS
468	(1D4)	BITSTRING	1		MACRF(3) X04SVHS FOR NUMERIC IN PARENS
469	(1D5)	ADDRESS	1		SHARED RESOURCE POOL ID
470	(1D6)	ADDRESS	2		. JES BUFFER POOL/NUMBER X04SVHS OF JOURNAL BUFFERS
472	(1D8)	BITSTRING	1		. RECFM=A
473	(1D9)	BITSTRING	1		READ INTEGRITY OPTIONS
474	(1DA)	BITSTRING	2		. DSORG=ACB
476	(1DC)	ADDRESS	4		X04SVHS
480	(1E0)	ADDRESS	4		. PASSWORD POINTER
484	(1E4)	ADDRESS	4		. EXIT LIST POINTER
488	(1E8)	CHARACTER	8		
496	(1F0)	BITSTRING	1		OFLAGS
497	(1F1)	ADDRESS	1		. ERFLAGS
498	(1F2)	BITSTRING	1		INFLGS(1) X04SVHS
499	(1F3)	BITSTRING	1		INFLGS(2) X04SVHS
500	(1F4)	ADDRESS	4		. OPENJ JFCB POINTER
504	(1F8)	ADDRESS	4		BUFFER SPACE

Table 501. Structure SJXDEB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
508	(1FC)	ADDRESS	2		. BLOCK SIZE
510	(1FE)	ADDRESS	2		. RECORD SIZE
512	(200)	ADDRESS	4		. USER WORKAREA POINTER
516	(204)	ADDRESS	4		CONTROL BLOCK MANIPULATION WORKAREA POINTER
520	(208)	ADDRESS	4		. PTR TO APPLICATION NAME X03004
520	(208)	X'4C'	0	SJEACBLN	"*-SJXEACB" Length of SJXEACB
DEB for EVENTLOG data set					
524	(20C)	BITSTRING	1	SJXEDEB	
524	(20C)	X'20'	0	SJEDEBLN	"*-SJXEDEB" Length of SJXEDEB
RPL for EVENTLOG data set					
556	(22C)	SIGNED	4	SJXERPL(0)	
556	(22C)	ADDRESS	1		RPL IDENTIFICATION
557	(22D)	ADDRESS	1		RPL SUBTYPE X04SVHS
558	(22E)	ADDRESS	1		RPL REQUEST TYPE
559	(22F)	ADDRESS	1		RPL LENGTH X03004
560	(230)	ADDRESS	4		. POINTER TO PLACEHOLDER
564	(234)	ADDRESS	4		. ECB
568	(238)	BITSTRING	1		. STATUS BYTE
569	(239)	BITSTRING	3		FEEDBACK CODES
572	(23C)	ADDRESS	2		. KEY LENGTH
574	(23E)	ADDRESS	2		. TRANSID
576	(240)	ADDRESS	4		POINTER TO CONTROL CHARACTER
580	(244)	ADDRESS	4		
584	(248)	ADDRESS	4		. POINTER TO TCB
588	(24C)	ADDRESS	4		. POINTER TO RECORD AREA
592	(250)	ADDRESS	4		. POINTER TO ARGUMENT
596	(254)	BITSTRING	1		. OPTCD BYTE 1
597	(255)	BITSTRING	1		
598	(256)	BITSTRING	1		OPTCD BYTE 3
599	(257)	BITSTRING	1		OPTCD BYTE 4
600	(258)	ADDRESS	4		. POINTER TO NEXT RPL
604	(25C)	ADDRESS	4		. RESERVED FOR LOGICAL REC LEN
608	(260)	ADDRESS	4		. RESERVED FOR BUFFER LENGTH OPTCD BYTES 5-8 X03004
612	(264)	BITSTRING	1		
613	(265)	BITSTRING	1		
614	(266)	BITSTRING	1		
615	(267)	BITSTRING	1		
616	(268)	BITSTRING	8		. RBA
624	(270)	BITSTRING	1		
625	(271)	ADDRESS	1		ACTIVE INDICATOR
626	(272)	ADDRESS	2		. MAXIMUM ERROR MSG LENGTH
628	(274)	ADDRESS	4		. RESERVED FOR MESSAGE AREA PTR
Parameter list for the external writer. A copy of the parameter list must be kept below the line since the external writer can not access data above the line.					
632	(278)	SIGNED	4	SJXXWPL(0)	External writer parameter list
632	(278)	SIGNED	4	SJXXWECB	ECB for the external writer

Table 501. Structure SJXDEB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
636	(27C)	BITSTRING	4	SJXRDRON	Time on input processor
640	(280)	BITSTRING	4	SJXRDTON	Date on input processor
644	(284)	CHARACTER	8	SJXUSEID	JMR installation data field
		End of external writer parameter list Single DEB for special processing cases (NETSERV, $LOGMSG, etc).			
12	(C)	BITSTRING	36	SJX1DEB	
48	(30)	DBL WORD	8	(0)	Round up area length
48	(30)	X'30'	0	SJXD1SIZ	"*-SJXDEB" Length with a single DEB
656	(290)	DBL WORD	8	(0)	Round up area
656	(290)	X'290'	0	SJXDSIZE	"*-SJXDEB" Length of extension

Table 502. Cross Reference for $SJXB

Name	Offset	Hex Tag
SJACBLGH	198	4C
SJEACBLN	208	4C
SJEDEBLN	20C	20
SJXACCT	74	
SJXALES	21C	
SJXALESL	224	10
SJXALTST	44	
SJXB	0	
SJXBDEBS	8	
SJXBID	0	
SJXBPIOB	C	
SJXBSIOT	18	
SJXBSIZE	300	300
SJXBSJBA	4	
SJXBSPDB	1C	
SJXBUSAV	18	
SJXBYINT	6C	
SJXBYTES	6C	
SJXBYTOP	70	
SJXCLBEG	14	
SJXCLEND	118	
SJXDEB	0	
SJXDID	0	E2D1E7C4
SJXDLEN	8	
SJXDSCA	40	
SJXDSIZE	290	290
SJXDSJXB	4	
SJXDSTRT	C	
SJXDWORK	A8	
SJXD1SIZ	30	30
SJXEACB	1C0	
SJXEACBP	1BC	
SJXEAPF1	1BC	

Table 502. Cross Reference for $SJXB (continued)

Name	Offset	Hex Tag
SJXEAPLN	1BD	4
SJXEAPRS	1BC	20
SJXEAPSM	1BC	80
SJXEAPST	1BC	40
SJXEAPTR	1BC	10
SJXEAPUS	1BC	8
SJXEDEB	20C	0
SJXERPL	22C	
SJXFLAG1	1D	
SJXFLAG2	1F	
SJXGGST	10	
SJXIACB	2C	
SJXIDEB	78	0
SJXJACB	150	
SJXJBBYT	C8	
SJXJBLRC	23	20
SJXJBMRC	23	40
SJXJBPAG	C0	
SJXJBPPS	2C	
SJXJBPRT	B0	
SJXJBPSN	24	
SJXJBPUN	B8	
SJXJBSRC	23	10
SJXJCOR	D8	
SJXJDEB	19C	0
SJXJMR	80	
SJXJOBRC	23	
SJXJSPCT	218	
SJXLACB	124	
SJXLDEB	C	0
SJXLINES	54	
SJXLNINT	54	
SJXLNOP	58	
SJXLOGE	1B8	1BC
SJXLRPL	170	
SJXLSPC	11C	
SJXMACB	98	
SJXMDEB	E4	0
SJXMRPL	104	
SJXMSGCL	78	
SJXMSPC	120	
SJXNJACB	124	
SJXNJRPL	170	0
SJXPAGES	64	
SJXPBFCT	94	
SJXPBFLM	118	
SJXPGINT	64	
SJXPGOP	68	
SJXPUINT	5C	

Table 502. Cross Reference for $SJXB (continued)

Name	Offset	Hex Tag
SJXPUNCH	5C	
SJXPUNOP	60	
SJXRDRON	27C	
SJXRDTON	280	
SJXRESRV	9C	
SJXRIOT	38	
SJXRPDDB	3C	
SJXSJBS	1C0	
SJXSLOGP	50	
SJXSPNUM	34	
SJXSPUNB	D0	
SJXS35D	234	
SJXTACB	210	
SJXTRPL	1C4	
SJXTTOK	21C	
SJXTTOKL	231	18
SJXUSEID	284	
SJXUSER	7C	
SJXWTCHN	98	
SJXXWECB	278	
SJXXWPL	278	
SJX1DEB	C	0
SJX1JPGM	1D	40
SJX1JSDS	1D	20
SJX1J722	1D	10
SJX1PLHD	1D	80
SJX2INTR	1F	40
SJX2TITL	1F	80

Chapter 204. $SMF Information

$SMF Programming Interface Information

$SMF is a programming interface.

$SMF Heading Information

Common Name: HASP SMF BUFFER DSECT
Macro ID: $SMF
DSECT Name: SMF
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: None
Storage Attributes:
```
Subpool:   See symbols SMFPOOL and B32KPOOL in macro $HASPEQU.
Key:       1
Residency: Virtual and real storage are anywhere (above or
below 16M) in the JES2 address space.
```

Size: See SMFLNG
Created by:
```
An SMF buffer is allocated from either the SMF
cell pool or the B32K cell pool.  These cell
pools are created during JES2 initialization.
The $GETSMFB service is used to allocate an SMF
buffer from the appropriate cell pool.
```
Pointed to by:
```
Field $SMFBUSY in the $HCT data area points to the
queue of SMF buffers to be written.  The buffers
are chained via field SMFCHAIN.
Some PCE work areas point to an SMF buffer.
```
Serialization:
```
A PCE obtains an SMF buffer using the $GETSMFB
macro.  It has exclusive control of the buffer
until it queues it for writing ($QUESMFB macro)
or frees it ($FRESMFB macro).  After queueing a
buffer, the PCE cannot use it.  The HASPACCT
subtask frees the buffer after writing it.
The $QUESMFB service uses compare and swap to
stack a buffer onto $SMFBUSY.  The HASPACCT
subtask uses compare and swap to dequeue the
last buffer chained from $SMFBUSY.
```
Function:
```
$SMF contains mappings for types 6,24,26,43,45,47,
48,49,52,53,54,54,55,56,57,and 58 SMF records.
IFASMFR is called by $SMF and expanded within for
each SMF record.
When computing actual SMF displacements, remember the
JES2 SMF headers contribute 8 bytes to all $SMF macro
displacements.
```

$SMF mapping

Table 503. Structure SMF

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SMF	HASP SMF BUFFER DSECT
0	(0)	SIGNED	4	SMFCHAIN	SMF BUFFER CHAIN TO NEXT BUFFER

Table 503. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	BITSTRING	1	SMFTYPE	TYPE OF BUFFER
		1...		SMFJMRTP	"B'10000000'" JMR BUFFER
		.1..		SMFLRGTP	"B'01000000'" LARGE SMF RECORD BUFFER
		..1.		SMFQUED	"B'00100000'" Buffer is queued to HASPACCT subtask
5	(5)	CHARACTER	1	SMFWFL26	RECORD 26 WRITE FLAG
5	(5)	X'1'	0	SMFNO26	"1" DO NOT WRITE SMF RECORD
6	(6)	CHARACTER	1	SMFCLFLG	CLASS SMF AFFINITY
		1		SMFAPPC	"X'01'" System affinity for transaction programs
7	(7)	CHARACTER	1	SMFPARM	RESERVED
7	(7)	X'8'	0	SMFLNHDR	"*-SMF" LENGTH OF JES2 BUFFER HEADER
THE FOLLOWING ARE COMMON FIELD NAMES USED FOR MULTIPLE RECORDS EACH INDIVIDUAL RECORD HAS A RECORD SPECIFIC NAME FOR EACH FIELD SUCH AS SMFNNXXX WHERE, NN = RECORD NUMBER, AND XXX = FIELD NAME					
8	(8)	CHARACTER	4	SMFJMRCH(0)	POINTER TO PURGE REC BUFFER
8	(8)	CHARACTER	4	SMFRDW(0)	SMF RECORD DESCRIPTOR WORD
8	(8)	CHARACTER	2	SMFLEN	RECORD LENGTH
10	(A)	CHARACTER	2	SMFSEG	SEGMENT DESCRIPTOR
BEGINNING OF JMR OR HASP SMF RECORD					
10	(A)	X'C'	0	SMFJMR	"*" JMR DATA AREA

```
%IFABGN1: ;
    METHOD OF ACCESS
     PL/S - USER DEFINES MACRO VARIABLE IFARXX WHERE XX=RECORD NUM
            DECLARE SMFXXPTR PTR(31) OR RESPECIFY FOR BASE
            INCLUDE MACRO FROM LIBRARY
             EXAMPLE %IFAR08 = 'YES', NOTE. THE COMMA REP-
                     DCL SMF08PTR PTR(31), RESENTS A SEMI-COLON
                     %INCLUDE SYSLIB(IFASMFR), BUT ISN'T TO AVIOD
                                          A DIAGNOSTIC.
            THIS MACRO PROCESSES RECORDS IN THE RANGE 00-06. IT
            ACTS AS A ROUTER TO OTHER MACROS TO PROCESS OTHER
            RECORDS AS FOLLOWS:
                MACRO RECORDS
               IFASMFR1 07-19
               IFASMFR2 20-27
               IFASMFR3 28-36
               IFASMFR4 37-46
               IFASMFR5 47-54
               IFASMFR6 55-69
               IFASMFR9 80-84
               IFASMFRA 85-103
               IFASMFRB 104-113
               IFASMFRC 114-123
               IFASMFRD 124-127
%GOTO IFABGN2;
  THIS IS AN SMF MACRO WHICH CONTROLS THE BUILDING OF SMF RECORDS. THE
  REQUIRED FORMAT IS
        IFASMFR &RECTYPE
  NOTE: VALUES FOR &RECTYPE MUST BE ENCLOSED IN PARENS(UNLESS ONLY 1)
 IN JES2, THIS RECORD IS WRITTEN FOR EACH JOB OUTPUT ELEMENT,
 WHICH REPRESENTS A GROUP OF DS DIFFERENTIATED BY PUNCH OR
 PRINTER SETUP & TYPE OF OUTPUT(EG HELD VS NON-HELD).
 FOR JES3, WRITTEN FOR EACH COPY OF A DATA SET
```

Table 503. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
8	(8)	SIGNED	4	(0)	ALIGN TO FULL WORD BOUNDARY
8	(8)	X'8'	0	SMFRCD6	"*" HEADER SEGMENT
8	(8)	BITSTRING	2	SMF6LEN	RECORD LENGTH
10	(A)	BITSTRING	2	SMF6SEG	SEGMENT DESCRIPTOR
12	(C)	BITSTRING	1	SMF6FLG	HEADER FLAG BYTE
13	(D)	BITSTRING	1	SMF6RTY	RECORD TYPE 6
13	(D)	X'6'	0	SMFJ6	"6" PRINT/PUNCH RECORD TYPE
14	(E)	BITSTRING	4	SMF6TME	TOD, USING FORMAT FROM TIME MACRO W/BIN. INTVL
18	(12)		4	SMF6DTE	DATE IN PACKED DECIMAL FORM: 00YYDDDF
22	(16)	CHARACTER	4	SMF6SID	SYSTEM IDENTIFICATION Y02901
26	(1A)	CHARACTER	8	SMF6JBN	JOB NAME
34	(22)	BITSTRING	4	SMF6RST	RDR START TIME, TIME JOB CARD 1ST READ
38	(26)		4	SMF6RSD	READER START DATE 00YYDDDF
42	(2A)	CHARACTER	8	SMF6UIF	USER ID FIELD
50	(32)	CHARACTER	1	SMF6OWC	OUTPUT WTR CLASS, BLANK FOR NON-SYSOUT
51	(33)	BITSTRING	4	SMF6WST	WRITER START TIME
55	(37)		4	SMF6WSD	WRITER START DATE
59	(3B)	BITSTRING	4	SMF6NLR	# OF LOGICAL RECORDS HANDLED BY WRITER PER FORM # PER CLASS, INCLUDES REPEATS AND RESTARTS.
63	(3F)	BITSTRING	1	SMF6IOE	IO ERROR INDICATOR: BITS 0-4 RESERVED Y02120
		.... .1..		SMF6DIE	"X'04'" 5 - DATA INPUT ERROR 6 - RESV Y02120
		1		SMFCBIE	"X'01'" 7 - CONTROL BLOCK INPUT ERROR
64	(40)	BITSTRING	1	SMF6NDS	# OF DATA SETS PROCESSED BY THE OUTPUT Y02120 WRITER AND INCLUDED IN THIS RECORD. Y02120 (COUNT FOR EACH TIME A DS IS PRINTED) Y02120 DOES NOT INCLUDE RESTARTS.
65	(41)	CHARACTER	4	SMF6FMN	FORM NUMBER
69	(45)	BITSTRING	1	SMF6PAD1	STATUS INDICATORS - THE SECTIONS WILL BE IN THE ORDER LISTED BELOW WHEN THE BIT IS TURNED ON BIT MEANING
		1...		SMF6FEXT	"X'80'" 0 1 - FIRST EXTENSION PRESENT
		.1..		SMF6REXT	"X'40'" 1 1 - COMMON SECTION PRESENT
		..1.		SMF6SEXT	"X'20'" 2 1 - SECOND EXTENSION PRESENT
		...1		SMF6ESS1	"X'10'" 3 1 - ENHANCED SYSOUT SECTION PRESENT
		.... 1...		SMF6FTFR	"X'08'" 4 1 - FILE TRANSFER SECTION PRESENT 5-7 RESERVED
70	(46)	BITSTRING	2	SMF6SBS	SUBSYSTEM GENERATING ID EXTWTR=0, JES2=2, JES3=5, PSF=7, IP PrintWay = 9

Table 503. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
72	(48)	BITSTRING	2	SMF6LN1	LENGTH OF SECTION INCLUDING THIS FIELD
74	(4A)	BITSTRING	1	SMF6DCI	DS CONTROL INDICATORS FOR DATA GROUP
		1...		SMF6DCRV	"X'80'" 0 - RESERVED
		.1..		SMF6SDS	"X'40'" 1 - SPUN OFF DS
		..1.		SMF6OCN	"X'20'" 2 - TERMINATED BY OPERATOR
		...1		SMF6ORD	"X'10'" 3 - INTERRUPTED BY OPERATOR (JES2) OPERATOR RESTARTED DATA SET WITH DESTINATION (JES3)
		.... 1...		SMF6OR	"X'08'" 4 - RESTARTED BY OPERATOR
		.... .1..		SMF6ROR	"X'04'" 5 - CONT OF INTERRUPTED GROUP (JES2) RECEIVED OP RESTARTED DS(JES3)
		.... ..1.		SMF6OSS	"X'02'" 6 - CARRIAGE OVERRIDEN BY OPER(JES2) OPERATOR STARTED WITH SINGLE SPACE(JES3)
		1		SMF6INT	"X'01'" 7 - PUNCH WAS INTERPRETED
75	(4B)	BITSTRING	1	SMF6INDC	INDICATOR BITS BITS 0-3 ARE RESERVED FOR FUTURE EXPANSION OF DATASET CONTROL INDICATORS BITS 4-7 ARE RECORD LEVEL INDICATORS IN BIT VALUE FORMAT. EXAMPLE: LEVEL 1=X'01' LEVEL 12=X'0C' LEVEL 15=X'0F' THIS NUMBER WILL BE INCREMENTED BY 1 EACH TIME A NEW RELEASE CHANGES THE RECORD
		1		SMF6LEV2	"X'01'" THIS VARIABLE IS FOR JES2 TO SET THE LEVEL INDICATOR BITS.
		11		SMF6J2L3	"X'03'" THIS VARIABLE IS FOR JES2 TO SET THE LEVEL INDICATOR BITS.
		.... .1..		SMF6J2L4	"X'04'" THIS VARIABLE IS FOR JES2 TO SET THE LEVEL INDICATOR BITS FOR SECURITY SUPPORT
		1		SMF6LEV3	"X'01'" THIS VARIABLE IS FOR JES3 TO SET THE LEVEL INDICATOR BITS.
		11		SMF6J3L3	"X'03'" THIS VARIABLE IS FOR JES3 TO SET THE LEVEL INDICATOR BITS.
		.... .1..		SMF6J3L4	"X'04'" THIS VARIABLE IS FOR JES3 TO SET THE LEVEL INDICATOR BITS FOR SECURITY SUPPORT INDICATOR BITS.
		.... .1.1		SMF6LEV4	"X'05'" MVS/JES2 RELEASE 4.1.0
		.... .11.		SMF6LEV6	"X'06'" PSF/MVS RELEASE 3.1.0
		.... .111		SMF6LEV7	"X'07'" Z/OS RELEASE V1R5

Table 503. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
76	(4C)	CHARACTER	4	SMF6JNM	WHEN SMF6INDC CONTAINS A X'1', THIS FIELD CONTAINS A FOUR-DIGIT EBCDIC JOB NUMBER. WHEN SMF6INDC CONTAINS A X'3' OR GREATER, AND THE JOB NUMBER HAS MORE THAN 4 DIGITS, THIS FIELD CONTAINS ZEROS. IF THE JOB NUMBER IS < OR = TO 9999, THIS FIELD CONTAINS THE JOB NUMBER. FOR AN APPC TRANSACTION, THIS FIELD CONTAINS ZEROES. THE CORRECT JOB NUMBER OR APPC TRANSACTION ID IS FOUND IN SMF6JBID.
80	(50)	CHARACTER	8	SMF6OUT	LOGICAL OUTPUT DEVICE NAME FOR THE 3820, ACF/VTAM LOGICAL UNIT NAME
88	(58)	CHARACTER	4	SMF6FCB	FCB ID Y02120
92	(5C)	CHARACTER	4	SMF6UCS	UCS ID Y02120 END OF RECORD FOR EXTERNAL WTR
96	(60)	BITSTRING	4	SMF6PGE	APPROXIMATE PHYSICAL PAGE COUNT
96	(60)	X'64'	0	SMF6J2S	"*" BEGIN JES2 ONLY SECTION
100	(64)	BITSTRING	2	SMF6RTE	OUTPUT ROUTE CODE OR ZERO
102	(66)	BITSTRING	1	SMF6END2(0)	END OF JES2 RECORD
102	(66)	BITSTRING	0	SMF6SIZ2(0)	SIZE OF JES2 SMF6 RECORD EXCLUDING OPTIONAL EXTENSIONS
102	(66)	BITSTRING	0	SMF6SIZ3(0)	SIZE OF JES2 SMF6 RECORD FROM SMF6LN1 TO HERE
100	(64)	X'64'	0	SMF6J3S	"*" BEGIN JES3 ONLY SECTION
100	(64)	BITSTRING	2	SMF6DFE	DATA FORMAT ERROR INDICATORS BITS 0-5 RESV
		.... ..1.		SMF6CCE	"X'02'" 6 - SOME 1ST CHAR CONTROL DATA BAD, DEFAULT USED
		1		SMF6RBE	"X'01'" 7 - BAD RECORD LENGTH(TRUNCATE OR PAD) 8-15 RESV
102	(66)	BITSTRING	2	SMF6OPR	OUTPUT PRIORITY
104	(68)	CHARACTER	8	SMF6GRP	LOGICAL OUTPUT DEVICE GROUP NAME
112	(70)	CHARACTER	8	SMF6RSVJ	RESERVED FOR JES3
120	(78)	CHARACTER	4	SMF6RSVU	RESERVED FOR USER
124	(7C)	BITSTRING	1	SMF6END(0)	END OF JES3 RECORD
124	(7C)	BITSTRING	0	SMF6SIZ(0)	SIZE OF JES3 SMF6 RECORD EXCLUDING OPTIONAL EXTENSIONS
124	(7C)	BITSTRING	1	SMF6LSIZ(0)	SIZE OF JES3 SMF6 RECORD FROM SMF6LN1 TO HERE
FIRST EXTENSION - NON-IMPACT PRINTING SUBSYSTEM SECTION THIS SECTION WILL ONLY BE PRESENT WHEN SMF6SBS IS SET TO 2, 5 OR 7 INDICATING THAT JES2, JES3 OR PSF HAS GENERATED THIS RECORD					
72	(48)	BITSTRING	2	SMF6LN2	LENGTH FIRST EXTENSION INCLUDING THIS FLD
74	(4A)	CHARACTER	1	SMF6CPS(8)	COPIES DISTRIBUTION
82	(52)	CHARACTER	4	SMF6CHR(4)	TRANSLATE TABLE NAMES FRO CHARS PARM
98	(62)	CHARACTER	4	SMF6MID	COPY MODIFICATION MODULE NAME

Table 503. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
102	(66)	CHARACTER	4	SMF6FLI	FLASH OVERLAY NAME
106	(6A)	BITSTRING	1	SMF6FLC	NUMBER OF COPIES FLASHED
107	(6B)	BITSTRING	1	SMF6BID	FLAG BYTE
		1...		SMF6BTS	"X'80'" THE BTSS WAS USED FOR OUTPUT
		.1..		SMF6OPJ	"X'40'" OPTCD=J WAS USED FOR OUTPUT
		..1.		SMF6CSP	"X'20'" CUT SHEET PRINTER
108	(6C)	BITSTRING	1	SMF6FEND(0)	END OF FIRST EXTENSION
108	(6C)	BITSTRING	1	SMF6FSIZ(0)	SIZE OF FIRST EXTENSION
COMMON SECTION - THIS SECTION IS AN EXTENSION OF THE FIXED HEADER SECTION AND WILL BE WRITTEN BY ALL GENERATORS OF THE TYPE 6 RECORD. THIS WAS PREVIOUSLY CALLED THE ROUTING SECTION.					
72	(48)	BITSTRING	2	SMF6LN3	LENGTH OF SECTION INCLUDING THIS FIELD
74	(4A)	CHARACTER	4	SMF6ROUT	OUTPUT ROUTE CODE
78	(4E)	CHARACTER	8	SMF6EFMN	OUTPUT FORM NUMBER
86	(56)	BITSTRING	1	SMF6REND(0)	END OF OLD ROUTING SECTION
86	(56)	BITSTRING	0	SMF6RSIZ(0)	SIZE OF OLD ROUTING SECTION
86	(56)	CHARACTER	16		RESERVED
102	(66)	CHARACTER	8	SMF6JBID	JOB ID
110	(6E)	CHARACTER	8	SMF6STNM	STEPNAME
118	(76)	CHARACTER	8	SMF6PRNM	PROCEDURE STEP NAME
126	(7E)	CHARACTER	8	SMF6DDNM	DD NAME
134	(86)	CHARACTER	8	SMF6USID	USER ID
142	(8E)	CHARACTER	8	SMF6SECS	SECURITY LABEL (SECLABEL)
150	(96)	CHARACTER	8	SMF6PRMD	PROCESSING MODE
158	(9E)	CHARACTER	53	SMF6DSNM	DATA SET RESOURCE NAME
211	(D3)	CHARACTER	3		RESERVED
214	(D6)	CHARACTER	20	SMF6OTOK	OUTPUT GROUP TOKEN
234	(EA)	BITSTRING	1	SMF6DEND(0)	END OF ROUTING SECTION
234	(EA)	BITSTRING	1	SMF6DSIZ(0)	SIZE OF ROUTING SECTION
ENHANCED SYSOUT SECTION					
72	(48)	BITSTRING	2	SMF6LN5	LENGTH ENHANCED SYSOUT SECTION INCLUDING THIS FIELD
74	(4A)	BITSTRING	4	SMF6SGID	SEGMENT IDENTIFIER
78	(4E)	BITSTRING	1	SMF6IND	SECTION INDICATOR
		1...		SMF6SJF	"X'80'" ERROR OBTAINING SWBTU - SWBTU DATA AREA NOT PRESENT
79	(4F)	BITSTRING	1	SMF6RSV	RESERVED
80	(50)	CHARACTER	8	SMF6JDVT	JDVTNAME
88	(58)	BITSTRING	2	SMF6TUL	SWBTU DATA AREA LENGTH
90	(5A)	CHARACTER	1	SMF6TU(0)	SWBTU DATA AREA - DATA AREA CAN BE PROCESSED USING SWBTUREQ MACRO
90	(5A)	BITSTRING	1	SMF6EEND(0)	END OF ENHANCED SYSOUT SECTION
90	(5A)	BITSTRING	1	SMF6ESIZ(0)	SIZE OF ENHANCED SYSOUT SEC. MOVED SMF6LN4 TO AOPSMF6 2 MOVED SMF6BNLN TO AOPSMF6 2 MOVED SMF6BNNO TO AOPSMF6 4 MOVED SMF6LN6 TO AOPSMF6 11

Table 503. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
%AOPBGN1: ; METHOD OF ACCESS PLAS: %INCLUDE SYSLIB(AOPSMF6) ASSEMBLER: AOPSMF6 NOTES: PL/AS - INCLUDED BY IFASMFR BAL - CALLED FROM IFASMFR %GOTO AOPBGN2; THIS IS AN SMF MACRO WHICH CONTROLS THE BUILDING OF PORTIONS OF THE SMF TYPE 6 RECORD. THE SECTIONS ARE: SECOND EXTENSION - APA SECTION - WRITTEN BY PSF (SMF6SBS=7) MULTI-BINS HEADER SECTION - WRITTEN BY PSF (SMF6SBS=7) MULTI-BINS COUNTER SECTION - WRITTEN BY PSF (SMF6SBS=7) FILE TRANSFER SECTION - WRITTEN BY IP PRINTWAY (SMF6SBS=9) SECOND EXTENSION - APA (ALL POINTS ADDRESSABLE) PRINTING SUBSYSTEM SECTION THIS SECTION WILL ONLY BE PRESENT WHEN SMF6SBS IS SET TO 7 INDICATING THAT PSF HAS GENERATED THIS RECORD					
72	(48)	BITSTRING	2	SMF6LN4	LENGTH SECOND EXTENSION INCLUDING THIS FLD
74	(4A)	BITSTRING	2	SMF6BNOF	OFFSET TO BIN SECTION
74	(4A)	BITSTRING	2	SMF6RES	RESERVED - REDEFINES SMF6BNOF
76	(4C)	BITSTRING	4	SMF6FONT	NUMBER OF FONTS USED
80	(50)	BITSTRING	4	SMF6LFNT	NUMBER OF FONTS LOADED
84	(54)	BITSTRING	4	SMF6OVLY	NUMBER OF OVERLAYS USED
88	(58)	BITSTRING	4	SMF6LOLY	NUMBER OF OVERLAYS LOADED
92	(5C)	BITSTRING	4	SMF6PGSG	NUMBER OF PAGE SEGMENTS USED
96	(60)	BITSTRING	4	SMF6LPSG	NUMBER OF PAGE SEGMENTS LOADED
100	(64)	BITSTRING	4	SMF6IMPS	COUNT OF LOGICAL IMPRESSIONS PROCESSED
104	(68)	BITSTRING	4	SMF6FEET	NUMBER OF FEET OF DOCUMENT PRINTED (ZERO FOR THE 3820)
108	(6C)	BITSTRING	4	SMF6PGDF	NUMBER OF PAGEDEFS USED
112	(70)	BITSTRING	4	SMF6FMDF	NUMBER OF FORMDEFS USED
116	(74)	BITSTRING	1	SMF6BIN	FLAG BYTE
		1...		SMF6BIN1	"X'80'" BIN1 WAS USED FOR ANY PART OF THE DATA SET
		.1..		SMF6BIN2	"X'40'" BIN2 WAS USED FOR ANY PART OF THE DATA SET
		..1.		SMF6BIN3	"X'20'" BIN3 WAS USED FOR ANY PART OF THE DATA SET
		...1		SMF6BIN4	"X'10'" BIN4 WAS USED FOR ANY PART OF THE DATA SET
117	(75)	BITSTRING	1	SMF6PGOP	FLAG BYTE
		1...		SMF6DUPS	"X'80'" STNDARD DUPLEX WAS USED FOR ANY PART OF DS
		.1..		SMF6DUPT	"X'40'" TUMBLE DUPLEX WAS USED FOR ANY PART OF DS
		..1.		SMF6SYSA	"X'20'" KEYWORD SYSAREA=Y
		...1		SMF6DPGL	"X'10'" KEYWORD DPAGELBL=Y
		.... 1...		SMF6SUCC	"X'08'" PRINT OPERATION WAS SUCCESSFUL
		.... .1..		SMF6SPGL	"X'04'" KEYWORD SPAGELBL=Y

Table 503. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ..1.		SMF6SOER	"X'02'" ERROR OCCURRED PROCESSING SECURITY OVERLAY
		1		SMF6IGER	"X'01'" IMAGE GENERATOR OVERRUN ERROR OCCURRED
118	(76)	BITSTRING	1	SMF6FLG3	FLAG BYTE
		1...		SMF6SLIG	"X'80'" SECURITY LABEL INTEGRITY GUARANTEED
		.1..		SMF6JHPP	"X'40'" THE JOB HEADER PAGE WAS PRINTED
		..1.		SMF6JTPP	"X'20'" THE JOB TRAILER PAGE WAS PRINTED
		...1		SMF6DPLS	"X'10'" DATA PAGE LABELING WAS SUPPRESSED
		.... 1...		SMF6UPAS	"X'08'" USER PRINTABLE AREA WAS SUPPRESSED
119	(77)	BITSTRING	1	SMF6APAL	LEVEL INDICATOR FOR APA SECTION
		1		SMF6APA1	"X'01'" INITIAL LEVEL OF APA SECTION
120	(78)	BITSTRING	4	SMF6NSOL	NUMBER OF SECURITY OVERLAYS USED
124	(7C)	BITSTRING	4	SMF6NSFO	NUMBER OF SECURITY FONTS USED
128	(80)	BITSTRING	4	SMF6NSPS	NUMBER OF SECURITY PAGE SEGMENTS USED
132	(84)	CHARACTER	8	SMF6FDNM	FORMDEF NAME
140	(8C)	CHARACTER	8	SMF6PDNM	PAGEDEF NAME
148	(94)	CHARACTER	8	SMF6PTDV	PRINTDEV NAME
156	(9C)	CHARACTER	32	SMF6OCNM	OBJECT CONTAINER NAME(S)
156	(9C)	CHARACTER	8	SMF6SETU	COMSETUP OBJECT CONTAINER NAME
164	(A4)	CHARACTER	8		RESERVED OBJECT CONTAINER NAME
172	(AC)	CHARACTER	8		RESERVED OBJECT CONTAINER NAME
180	(B4)	CHARACTER	8		RESERVED OBJECT CONTAINER NAME
188	(BC)	BITSTRING	4	SMF6LPGE	Count of logical pages processed
192	(C0)	BITSTRING	1	SMF6SEND(0)	END OF SECOND EXTENSION
192	(C0)	BITSTRING	1	SMF6SSIZ(0)	SIZE OF SECOND EXTENSION
MULTI-BINS HEADER SECTION (OFFSET DEFINED BY SMF6BNOF)					
8	(8)	BITSTRING	2	SMF6BNLN	LENGTH BINS SECTION INCLUDING THIS FLD
10	(A)	BITSTRING	2	SMF6BNUM	NUMBER OF COUNTERS ENTRIES
MULTI-BINS COUNTER SECTION - FOLLOWS "MULTI-BIN" HEADER SECTION					
8	(8)	BITSTRING	1	SMF6BNNO	BIN NUMBER
9	(9)	BITSTRING	3	SMF6BNCT	BIN COUNTER
12	(C)	BITSTRING	2	SMF6BNLE	Paper length in millimeters
14	(E)	BITSTRING	2	SMF6BNWI	Paper width in millimeters
FILE TRANSFER SECTION					
72	(48)	BITSTRING	2	SMF6LN6	LENGTH OF FILE TRANSFER SECTION INCLUDING THIS FIELD
74	(4A)	BITSTRING	4	SMF6BYTE	TOTAL NUMBER OF BYTES SENT
78	(4E)	BITSTRING	1	SMF6IP1	1ST SEGMENT OF TARGET ADDRESS
79	(4F)	BITSTRING	1	SMF6IP2	2ND SEGMENT OF TARGET ADDRESS
80	(50)	BITSTRING	1	SMF6IP3	3RD SEGMENT OF TARGET ADDRESS
81	(51)	BITSTRING	1	SMF6IP4	4TH SEGMENT OF TARGET ADDRESS

Table 503. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
82	(52)	BITSTRING	1	SMF6FTL	LEVEL INDICATOR FOR FILE TRANSFER SECTION
		1		SMF6FTL1	"X'01'" Z/OS V1R5
83	(53)	CHARACTER	9		RESERVED
92	(5C)	BITSTRING	2	SMF6URIL	Length of Host URI
94	(5E)	BITSTRING	2	SMF6PQLN	Length of Print Queue Name
96	(60)	CHARACTER	24	SMF6PRTQ	Print Queue Name
120	(78)	CHARACTER	1	SMF6URI(0)	Target Device URI
120	(78)	BITSTRING	1	SMF6TEND(0)	END OF FILE TRANSFER SECTION
120	(78)	BITSTRING	0	SMF6TSIZ(0)	SIZE OF FILE TRANSFER SECTION

Table 504. Structure SMF

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SMF	, DSECT may be destroyed

```
%IFABGN1: ;
    METHOD OF ACCESS
     PL/S - USER DEFINES MACRO VARIABLE IFARXX WHERE XX=RECORD NUM
            DECLARE SMFXXPTR PTR(31) OR RESPECIFY FOR BASE
            INCLUDE MACRO FROM LIBRARY
             EXAMPLE %IFAR08 = 'YES', NOTE. THE COMMA REP-
                     DCL SMF08PTR PTR(31), RESENTS A SEMI-COLON
                     %INCLUDE SYSLIB(IFASMFR), BUT ISN'T TO AVIOD
                                               A DIAGNOSTIC.
            THIS MACRO PROCESSES RECORDS IN THE RANGE 00-06. IT
            ACTS AS A ROUTER TO OTHER MACROS TO PROCESS OTHER
            RECORDS AS FOLLOWS:
                MACRO RECORDS
               IFASMFR1 07-19
               IFASMFR2 20-27
               IFASMFR3 28-36
               IFASMFR4 37-46
               IFASMFR5 47-54
               IFASMFR6 55-69
               IFASMFR9 80-84
               IFASMFRA 85-103
               IFASMFRB 104-113
               IFASMFRC 114-123
               IFASMFRD 124-127
%GOTO IFABGN2;
  THIS IS AN SMF MACRO WHICH CONTROLS THE BUILDING OF SMF RECORDS. THE
  REQUIRED FORMAT IS
        IFASMFR &RECTYPE
  NOTE: VALUES FOR &RECTYPE MUST BE ENCLOSED IN PARENS(UNLESS ONLY 1)
  MODULE NAME = IAZSMF24
  DESCRIPTIVE NAME = JES SMF SPOOL OFFLOAD RECORD
SWITCH TO DECIDE WHETHER TO GENERATE EQUATES FOR WRITING SMF RECORDS
```

8	(8)	X'8'	0	SMFRCD24	"*" START OF RECORD
8	(8)	X'8'	0	SMF24PTR	"*" HEADER LENGTH
8	(8)	CHARACTER	2	SMF24LEN	RECORD LENGTH
10	(A)	CHARACTER	2	SMF24SEG	SEGMENT DESCRIPTOR
BEGINNING OF JMR OR HASP SMF RECORD					
12	(C)	BITSTRING	1	SMF24FLG	HEADER FLAG BYTE
		.1..		SMF24STS	"B'01000000'" SUBTYPES USED
13	(D)	BITSTRING	1	SMF24RTY	RECORD TYPE

Table 504. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
14	(E)	BITSTRING	4	SMF24TME	TOD, USING FORMAT FROM TIME MACRO
18	(12)		4	SMF24DTE	DATE IN PACKD DECIMAL FORM 00YYDDDF
22	(16)	CHARACTER	4	SMF24SID	SYSTEM IDENTIFICATION
HEADER FOR HASP SUBSYS RECORD TYPE 24					
22	(16)	X'18'	0	SMFJ24	"24" SPOOL OFFLOAD RECORD TYPE
26	(1A)	BITSTRING	4	SMF24SSI	SUBSYSTEM ID
30	(1E)	BITSTRING	2	SMF24SUB	RECORD SUBTYPE
30	(1E)	X'1'	0	SMF24JT	"1" JOB TRANSMITTER
30	(1E)	X'2'	0	SMF24JR	"2" JOB RECEIVER
30	(1E)	X'3'	0	SMF24ST	"3" SYSOUT TRANSMITTER
30	(1E)	X'4'	0	SMF24SR	"4" SYSOUT RECEIVER
32	(20)	BITSTRING	2	SMF24NTR	NUMBER OF TRIPLETS
34	(22)	BITSTRING	2	SMF24RSV	RESERVED
34	(22)	X'1C'	0	SMF24LHD	"*-SMFRCD24" LEN OF HEADER SECTION
34	(22)	X'24'	0	SMF24TPS	"*" BEGINNING OF TRIPLETS
36	(24)	BITSTRING	4	SMF24OPS	OFFSET TO PRODUCT SECTION
40	(28)	BITSTRING	2	SMF24LPS	LENGTH OF PRODUCT SECTION
42	(2A)	BITSTRING	2	SMF24NPS	NUMBER OF PRODUCT SECTIONS
44	(2C)	BITSTRING	4	SMF24OGN	OFFSET TO GENERAL SECTION
48	(30)	BITSTRING	2	SMF24LGN	LENGTH OF GENERAL SECTION
50	(32)	BITSTRING	2	SMF24NGN	NUMBER OF GENERAL SECTIONS
52	(34)	BITSTRING	4	SMF24OSP	OFFSET TO SPOF SECTION
56	(38)	BITSTRING	2	SMF24LSP	LENGTH OF SPOF SECTION
58	(3A)	BITSTRING	2	SMF24NSP	NUMBER OF SPOF SECTIONS
60	(3C)	BITSTRING	4	SMF24OSW	OFFSET TO ESS SECTION
64	(40)	BITSTRING	2	SMF24LSW	LENGTH OF ESS SECTION
66	(42)	BITSTRING	2	SMF24NSW	NUMBER OF ESS SECTIONS
68	(44)	BITSTRING	4	SMF24OSA	Offset to sysaff section
72	(48)	BITSTRING	2	SMF24LSA	Length of sysaff section
74	(4A)	BITSTRING	2	SMF24NSA	Number of sysaff sections
74	(4A)	X'28'	0	SMF24TRP	"*-SMF24TPS" LENGTH OF TRIPLETS
74	(4A)	X'5'	0	SMF24NTP	"SMF24TRP/8" NUMBER OF TRIPLETS
BEGINNING OF JES2 PRODUCT SECTION					
76	(4C)	CHARACTER	2	SMF24PVR	RECORD VERSION
78	(4E)	CHARACTER	8	SMF24PNM	PRODUCT NAME
86	(56)	BITSTRING	2	SMF24RS2	RESERVED
GENERAL SECTION FOR SPOOL OFFLOAD DEVICES					
88	(58)	BITSTRING	2	SMF24GLN	LENGTH OF GENERAL SECTION
90	(5A)	BITSTRING	1	SMF24BCF	BUFFER CONTINUATION FLAG
		1...		SMF24FST	"B'10000000'" FIRST SMF BUFFER FOR JOB
		.1..		SMF24CON	"B'01000000'" SMF BUFFER CONTINUED
		..1.		SMF24LST	"B'00100000'" LAST SMF BUFFER - END OF JOB
91	(5B)	BITSTRING	1	SMF24EOJ	END OF JOB FLAG

Table 504. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		SMF24COM	"B'10000000'" JOB COMPLETELY OFFLOADED
		.1..		SMF24SDS	"B'01000000'" JOB COMPLETED WITH SKIPPED DATA SETS
		..1.		SMF24INJ	"B'00100000'" INCOMPLETE JOB OFFLOADED
		...1		SMF24OPR	"B'00010000'" OPERATOR CANCELED JOB
92	(5C)	CHARACTER	8	SMF24JBN	JOB NAME
100	(64)	CHARACTER	8	SMF24JID	ORIGINAL JOB IDENTIFICATION
108	(6C)	CHARACTER	8	SMF24CJD	CURRENT JOB IDENTIFICATION
116	(74)	CHARACTER	4	SMF24SYS	SYSTEM ID
120	(78)	CHARACTER	44	SMF24DSN	OFFLOAD DATA SET NAME
164	(A4)	BITSTRING	4	SMF24CNT	NUMBER OF RECORDS DUMPED/LOADED
168	(A8)	BITSTRING	4	SMF24TDS	TIME OFFLOAD DATA SET ALLOCATED
172	(AC)	BITSTRING	4	SMF24DDS	DATE OFFLOAD DATA SET ALLOCATED
176	(B0)	CHARACTER	8	SMF24ORG	ORIGIN NODE
184	(B8)	BITSTRING	4	SMF24TRD	TIME ON READER
188	(BC)	BITSTRING	4	SMF24DRD	DATE ON READER
EITHER THE JOB SECTION OR THE SYSOUT SECTION IS WRITTEN, NOT BOTH. THE SPOF TRIPLET REFERS TO WHICHEVER ONE IS WRITTEN IN THE CURRENT RECORD.					
JOB SELECTION CRITERIA SECTION					
192	(C0)	BITSTRING	2	SMF24LN1	LENGTH OF JOB SECTION
194	(C2)	BITSTRING	1	SMF24JFG	JOB FLAGS
		1...		SMF24JHL	"B'10000000'" HELD JOB
		.1..		SMF24AFF	"B'01000000'" AFFINITY = ANY
195	(C3)	CHARACTER	1	SMF24JCL	JOB CLASS
196	(C4)	SIGNED	4	SMF24JRT(0)	ROUTE CODE
196	(C4)	CHARACTER	8	SMF24JND	NODE NAME
204	(CC)	CHARACTER	28	SMF24JAF	AFFINITY SYSTEM ID'S
232	(E8)	CHARACTER	8	SMF248CL	8 CHAR JOB CLASS
240	(F0)	CHARACTER	1	SMF24EJS(0)	End of job selection
SYSOUT SELECTION CRITERIA SECTION					
192	(C0)	BITSTRING	2	SMF24LN2	LENGTH OF SYSOUT SECTION
194	(C2)	BITSTRING	1	SMF24SFG	SYSOUT FLAGS
		1...		SMF24SHL	"B'10000000'" HELD SYSOUT
		.1..		SMF24SBT	"B'01000000'" BURSTED SYSOUT
		..1.		SMF24SJH	"B'00100000'" HELD JOB
		...1		SMF24INC	"B'00010000'" INCOMPLETE DATA SET
		.... 1...		SMF24MUL	"B'00001000'" MULTI-DEST DATA SET
195	(C3)	CHARACTER	1	SMF24SCL	SYSOUT CLASS
196	(C4)	SIGNED	4	SMF24SRT(0)	ROUTE CODE
196	(C4)	CHARACTER	8	SMF24SND	NODE NAME
204	(CC)	CHARACTER	8	SMF24SRN	REMOTE NAME
212	(D4)	CHARACTER	4	SMF24FCB	FCB
216	(D8)	CHARACTER	8	SMF24FOR	FORMS
224	(E0)	CHARACTER	4	SMF24FLS	FLASH
228	(E4)	CHARACTER	8	SMF24PRM	PR MODE

Table 504. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
236	(EC)	CHARACTER	4	SMF24UCS	UCS
240	(F0)	CHARACTER	8	SMF24WID	WRITER
248	(F8)	BITSTRING	4	SMF24REC	DATA SET RECORD COUNT
252	(FC)	BITSTRING	1	SMF24PRY	PRIORITY
252	(FC)	X'C'	0	SMF24PRD	"SMF24RS2+L'SMF24RS2-SMF24PVR" LEN OF PRODUCT SEC
252	(FC)	X'68'	0	SMF24LN	"SMF24DRD+L'SMF24DRD-SMF24GLN" LEN OF GENERAL SEC
252	(FC)	X'30'	0	SMF24L1	"SMF248CL+L'SMF248CL-SMF24LN1" LEN OF JOB SEL SEC
252	(FC)	X'3D'	0	SMF24L2	"SMF24PRY+L'SMF24PRY-SMF24LN2" LEN OF SYSOUT SEC
252	(FC)	X'44'	0	SMF24POF	"SMF24LHD+SMF24TRP" OFFSET TO PRODUCT SECTION
252	(FC)	X'50'	0	SMF24GOF	"SMF24POF+SMF24PRD" OFFSET TO GENERAL SECTION
252	(FC)	X'B8'	0	SMF24SOF	"SMF24GOF+SMF24LN" OFFSET TO SPOF SECTION
252	(FC)	X'E8'	0	SMF24AOF	"SMF24SOF+SMF24L1" Offset to aff section
		Enhanced SYSOUT Support (ESS) Ssection This section contains the OUTPUT descriptor (if any) in SWBTU format (IEFSJPFX plus text units) for the first offloaded data set included in this SMF record. The SWBTU may be processed using the SWBTUREC macro or other Scheduler JCL Facility (SJF) services.			
253	(FD)	BITSTRING	2	SMF24LN3	LENGTH OF ESS SECTION
255	(FF)	BITSTRING	4	SMF24SGT	SEGMENT IDENTIFIER
259	(103)	BITSTRING	1	SMF24IND	ESS SECTION INDICATOR
		1...		SMF24SJF	"B'10000000'" ERROR OBTAINING SWBTU (SWBTU DATA NOT PRESENT)
260	(104)	BITSTRING	1		RESERVED
261	(105)	CHARACTER	8	SMF24JDT	JDVT NAME
269	(10D)	BITSTRING	2	SMF24TUL	SWBTU DATA AREA LENGTH
271	(10F)	CHARACTER	1	SMF24TU(0)	SWBTU DATA AREA
271	(10F)	X'12'	0	SMF24ESL	"*-SMF24LN3" Length of the fixed portion of the ESS section
		Enhanced SYSTEM AFFINITY suport section. This section contains the system names for all the systems for which this job has affinity. The one exception is if it has an affinity of ANY in which case the flag bit SMF24AFF is on.			
240	(F0)	BITSTRING	2	SMF24LS4	Length of sysaff section
242	(F2)	BITSTRING	2		Reserved for future IBM use
244	(F4)	BITSTRING	4	SMF24SAN	Number of system affinities
248	(F8)	BITSTRING	4	SMF24LN4	Length of system name
252	(FC)	CHARACTER	1	SMF24SAC(0)	Start of system aff. names
252	(FC)	X'C'	0	SMF24SAL	"*-SMF24LS4" Length of the fixed portion of the SYS. AFF SECTION

Table 504. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
%IFABGN1: ; METHOD OF ACCESS PL/S - USER DEFINES MACRO VARIABLE IFARXX WHERE XX=RECORD NUM DECLARE SMFXXPTR PTR(31) OR RESPECIFY FOR BASE INCLUDE MACRO FROM LIBRARY EXAMPLE %IFAR08 = 'YES', NOTE. THE COMMA REP- DCL SMF08PTR PTR(31), RESENTS A SEMI-COLON %INCLUDE SYSLIB(IFASMFR), BUT ISN'T TO AVIOD A DIAGNOSTIC. THIS MACRO PROCESSES RECORDS IN THE RANGE 00-06. IT ACTS AS A ROUTER TO OTHER MACROS TO PROCESS OTHER RECORDS AS FOLLOWS: MACRO RECORDS IFASMFR1 07-19 IFASMFR2 20-27 IFASMFR3 28-36 IFASMFR4 37-46 IFASMFR5 47-54 IFASMFR6 55-69 IFASMFR9 80-84 IFASMFRA 85-103 IFASMFRB 104-113 IFASMFRC 114-123 IFASMFRD 124-127 %GOTO IFABGN2; THIS IS AN SMF MACRO WHICH CONTROLS THE BUILDING OF SMF RECORDS. THE REQUIRED FORMAT IS IFASMFR &RECTYPE NOTE: VALUES FOR &RECTYPE MUST BE ENCLOSED IN PARENS(UNLESS ONLY 1) %IAZPRO26: ; MODULE NAME = IAZSMF26 DESCRIPTIVE NAME = JES SMF PURGE RECORD %GOTO IAZ26; SWITCH TO DETERMINE WHETHER TO GENERATE EQUATES FOR WRITING REC THIS RECORD IS WRITTEN WHEN A JOB IS READY TO BE PURGED FOR BOTH FOREGROUND AND BACKGROUND JOBS IN THE SYSTEM.					
8	(8)	SIGNED	4	(0)	ALIGN TO FULL WORD BOUNDRY
8	(8)	X'8'	0	SMFRCD26	"*" START OF RECORD
8	(8)	X'8'	0	SMF26PTR	"*" HEADER SEGMENT (LGTH 46 WITHOUT RDW)
8	(8)	BITSTRING	2	SMF26LEN	RECORD LENGTH
10	(A)	BITSTRING	2	SMF26SEG	SEGMENT DESCRIPTOR
12	(C)	BITSTRING	1	SMF26FLG	HEADER FLAG BYTE
13	(D)	BITSTRING	1	SMF26RTY	RECORD TYPE 26
13	(D)	X'1A'	0	SMFJ26	"26" PURGE RECORD TYPE
14	(E)	BITSTRING	4	SMF26TME	TOD FROM TIME MACRO BINARY
18	(12)		4	SMF26DTE	DATE FROM TIME MACRO
22	(16)	CHARACTER	4	SMF26SID	SYSTEM INDICATOR
26	(1A)	CHARACTER	8	SMF26JBN	JOB NAME
34	(22)	BITSTRING	4	SMF26RST	RDR START TIME, TIME JOB CARD 1ST READ
38	(26)		4	SMF26RSD	READER START DATE
42	(2A)	CHARACTER	8	SMF26UIF	USER IDENTIFICATION FIELD
50	(32)	BITSTRING	4	SMF26RSV	RESV
54	(36)	BITSTRING	2	SMF26SBS	SUBSYSTEM GENERATING ID(JES2=2, JES3=5)
	.... ..1.			SMF26HSP	"X'0002'" JES2 ID

Table 504. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1.1		SMF26ASP	"X'0005'" JES3 ID
56	(38)	BITSTRING	2	SMF26IND	INDICATORS
56	(38)	BITSTRING	0	SMF26DES	"X'8000'" DESCRIPTIVE SECTION PRESENT
56	(38)	BITSTRING	0	SMF26EVT	"X'4000'" EVENT SECTION PRESENT
56	(38)	BITSTRING	0	SMF26ATU	"X'2000'" ACTUALS SECTION PRESENT
56	(38)	BITSTRING	0	SMF26NTW	"X'1000'" JES2 Network section present
56	(38)	BITSTRING	0	SMF26J2R	"X'0800'" JES2 ROUTING SECTION PRESENT
56	(38)	BITSTRING	0	SMF26JXP	"X'0400'" JES PRINTER SECTION PRESENT
56	(38)	BITSTRING	0	SMF26R02	"X'0200'" Reserved
56	(38)	BITSTRING	0	SMF26ACP	"X'0100'" Triplets Section present
BEGINNING OF DESCRIPTIVE SECTION					
58	(3A)	BITSTRING	2	SMF26LN1	LGTH OF THIS SECTION INCLUDING SELF
60	(3C)	BITSTRING	2	SMF26RV1	RESV
62	(3E)	BITSTRING	1	SMF26IN2	ADDITIONAL JOB INFORMATION(JES2 ONLY)
		1...		SMF26BCH	"X'80'" BIT 0 - BACKGROUND BATCH
		.1..		SMF26FTS	"X'40'" 1 - FOREGROUND TIME SHARING
		..1.		SMF26STK	"X'20'" 2 - SYSTEM TASK
		...1		SMF26NOJ	"X'10'" 3 - NO JOURNAL OPTION
		.... 1...		SMF26NOU	"X'08'" 4 - NO OUTPUT OPTION
		.... .1..		SMF26SCN	"X'04'" 5 - TYPRUN=SCAN
		.... ..1.		SMF26CPY	"X'02'" 6 - TYPRUN=COPY
		1		SMF26JBF	"X'01'" 7 - RESTART=Y
62	(3E)	BITSTRING	1	SMF26IN3	ADDITIONAL JOB INFORMATION(JES3 ONLY)
		1...		SMF26DJC	"X'80'" BIT 0 - DEPENDENT JOB(/ NET JOB PROCESSED)
		.1..		SMF26DLJ	"X'40'" 1 - JOB SPECIFIED DEADLINE SCHEDULING
		..1.		SMF26DLM	"X'20'" 2 - DEADLINE JOB MET DEADLINE
		...1		SMF26PRJ	"X'10'" 3 - / PROCESS STMT PROCESSED
		.... 1...		SMF26NJX	"X'08'" 4 - JOB LEFT SYSTEM VIA NJP(NETWORK JOB PROCESSING)
		.... .1..		SMF26NJE	"X'04'" 5 - JOB ENTERED SYSTEM VIA NJP
		.... ..1.		SMF26DJO	"X'02'" 6 - JOB LEFT SYSTEM VIA DJ(DUMP JOB)
		1		SMF26DJE	"X'01'" 7 - JOB ENTERED SYSTEM VIA DJ
63	(3F)	BITSTRING	1	SMF26INF	JOB INFORMATION

Table 504. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		SMF26JCP	"X'80'" 0 - JOB PRIORITY EXTERNALLY ASSIGNED (JES2-VIA PRIORITY STMT) (JES3-VIA PRTY PARM ON JOB STMT)
		.1..		SMF26STU	"X'40'" 1 - SETUP JOB (JES2-SETUP STMT PROCESSED) (JES3-PROCESSED BY PREEXEC SETUP)
		..1.		SMF26TRH	"X'20'" 2 - JOB HELD VIA TYPERUN=HOLD
		...1		SMF26NLG	"X'10'" 3 - JOB REQUESTED NO JES JOB LOG(JES2)
		.... 1...		SMF26XBC	"X'08'" 4 - EXEC BATCHING JOB (JES2 ONLY)
		.... .1..		SMF26EIR	"X'04'" 5 - JOB ENTERED VIA INTERNAL RDR
		.... ..1.		SMF26MRE	"X'02'" 6 - JOB WAS RERUN BY JES
		1		SMF26OPC	"X'01'" 7 - OPER CANCELLED JOB BY JES CMND
64	(40)	CHARACTER	4	SMF26JNM	JES ASSIGNED JOB #
68	(44)	CHARACTER	8	SMF26JID	8-character job identifier
76	(4C)	CHARACTER	20	SMF26NAM	PROGRAMMER'S NAME FROM JOB CARD
96	(60)	CHARACTER	1	SMF26MSG	MESSAGE CLASS FROM JOB CARD
97	(61)	CHARACTER	1	SMF26CLS	JOB CLASS FROM JOB CARD
98	(62)	BITSTRING	1	SMF26XPI	INITIAL JOB PRIORITY
99	(63)	BITSTRING	1	SMF26XPS	SELECTION PRIORITY AT TIME JOB SELECTED
100	(64)	BITSTRING	1	SMF26IX2	Additional JOB information (JES2 ONLY)
		1...		SMF26JDL	"X'80'" Job delayed (at least once) due to duplicate jobname
		.1..		SMF26JOL	"X'40'" Job purged as a result of spool offload
		..1.		SMF26LPN	"X'20'" Job went thru unspun in its lifetime
		...1		SMF26XWR	"X'10'" Job had at least one JOE purged due to PSO/SAPI
101	(65)	BITSTRING	1	SMF26OPS	Reserved
102	(66)	BITSTRING	2	SMF26LOC	INPUT ROUTE CODE OR ZERO (JES2 ONLY)
100	(64)	BITSTRING	4	SMF26RV8	RESERVED(JES3)
104	(68)	CHARACTER	8	SMF26DEV	LOG INPUT DEV NAME OF WHERE JOB READ USERID IF TSO SUBMIT SYSTEM NAME IF NJP
112	(70)	CHARACTER	4	SMF26ACT	PROGRAMMER'S ACCOUNTING # (JES2 ONLY)
116	(74)	CHARACTER	4	SMF26ROM	PROGRAMMER'S ROOM # (JES2 ONLY)
112	(70)	BITSTRING	8	SMF26RVA	RESERVED(JES3)
120	(78)	BITSTRING	4	SMF26XTM	ESTIMATED EXECUTION TIME(SEC)
124	(7C)	BITSTRING	4	SMF26ELN	ESTIMATED OUTPUT LINES
128	(80)	BITSTRING	4	SMF26EPU	ESTIMATED OUTPUT PUNCHED CARDS
128	(80)	X'84'	0	SMF26J2D	"*" JES2 ONLY DESCRIPTIVE SECTION
132	(84)	CHARACTER	4	SMF26FRM	DEFAULT OUTPUT FORM #

Table 504. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
136	(88)	BITSTRING	2	SMF26CYP	PRINT COPY COUNT IF FOR ALL OF JOB
138	(8A)	BITSTRING	2	SMF26LIN	LINES PER PAGE
140	(8C)	BITSTRING	2	SMF26PRR	DEFAULT PRINT DESTINATION
142	(8E)	BITSTRING	2	SMF26PUR	DEFAULT PUNCH DESTINATION
144	(90)	CHARACTER	8	SMF26PDD	JES2 PROC DDNAME FOR JCL CONVERSION
132	(84)	X'84'	0	SMF26J3D	"*" JES3 ONLY DESCRIPTIVE SECTION
132	(84)	CHARACTER	1	SMF26DTY	DEADLINE SCHEDULE TYPE
133	(85)	BITSTRING	3	SMF26RV6	RESERVED
136	(88)	CHARACTER	8	SMF26IGP	LOG INPUT DEV GROUP NAME(JOB SOURCE)
144	(90)	CHARACTER	8	SMF26PD3	PROCEDURE DD NAME
152	(98)	CHARACTER	8	SMF26NJO	SYS NAME TO WHICH JOB SENT VIA NJP
160	(A0)	CHARACTER	8	SMF26NJI	SYS FROM WHICH JOB RECEIVED VIA NJP
168	(A8)	CHARACTER	8	SMF26NET	ID OF DEPENDENT JOB NET TO WHICH THIS JOB BELONGS(FROM / NET STMT)
176	(B0)	BITSTRING	4	SMF26DTM	DEADLINE SCHEDULE TIME
180	(B4)		4	SMF26DDT	DEADLINE SCHEDULE DATE
184	(B8)	CHARACTER	8	SMF26CLN	JOB CLASS NAME
BEGINNING OF EVENT SECTION					
58	(3A)	BITSTRING	2	SMF26LN2	LGTH OF THIS SECTION(INCLUDING SELF)
60	(3C)	BITSTRING	2	SMF26RV2	RESV
62	(3E)	BITSTRING	4	SMF26RPT	READER STOP TIME
66	(42)		4	SMF26RPD	READER STOP DATE
70	(46)	BITSTRING	4	SMF26CST	CONVERTER START TIME
74	(4A)		4	SMF26CSD	CONVERTER START DATE
78	(4E)	BITSTRING	4	SMF26CPT	CONVERTER STOP TIME
82	(52)		4	SMF26CPD	CONVERTER STOP DATE
86	(56)	BITSTRING	4	SMF26XST	EXECUTION START TIME
90	(5A)		4	SMF26XSD	EXECUTION START DATE
94	(5E)	BITSTRING	4	SMF26XPT	EXECUTION STOP TIME
98	(62)		4	SMF26XPD	EXECUTION STOP DATE
102	(66)	BITSTRING	4	SMF26OST	OUTPUT PROCESSOR START TIME
106	(6A)		4	SMF26OSD	OUTPUT PROCESSOR START DATE
110	(6E)	BITSTRING	4	SMF26OPT	OUTPUT PROCESSOR STOP TIME
114	(72)		4	SMF26OPD	OUTPUT PROCESSOR STOP DATE
BEGINNING OF ACTUALS SECTION JES2 creates the Actuals section only up to (and including) SMF26OID. The fields from SMF26JAF to SMF26SRC are filled in by JES3. The block from NJEJMR to NJEJMREN contains some JES3 networking information but it is part of the Actuals section.					
58	(3A)	BITSTRING	2	SMF26LN3	LGTH OF THIS SECTION(INCLUDING SELF)
60	(3C)	BITSTRING	2	SMF26RV4	RESV
62	(3E)	BITSTRING	4	SMF26ICD	# OF INPUT CARDS (JCL AND DATA)

Table 504. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
66	(42)	BITSTRING	4	SMF26XLN	OUTPUT LINES GENERATED TO SPOOL
70	(46)	BITSTRING	4	SMF26XPU	OUTPUT PUNCH CARDS GENERATED TO SPOOL
74	(4A)	CHARACTER	4	SMF26RID	INPUT PROCESSOR SYSTEM ID
78	(4E)	CHARACTER	4	SMF26CID	JCL CONVERSION PROCESSOR SYSTEM ID
82	(52)	CHARACTER	4	SMF26XID	EXECUTION PROCESSOR SYSTEM ID
86	(56)	CHARACTER	4	SMF26OID	OUTPUT PROCESSOR SYSTEM ID
90	(5A)	CHARACTER	42	SMF26JAF	Job accounting fields - maximum length 42 - filled in by JES3 only
132	(84)	BITSTRING	4	NJEJMR(0)	
132	(84)	CHARACTER	8	NJEJMRID	
140	(8C)	ADDRESS	2	NJEJMRLN	- Length of NJEJMR
COMPATIBILITY CODE NJEJOBNO is maintained for compatibility with pre-HJS7705 levels of JES3. Once HJS7703 and below are no longer supported, this field does not need to be maintained.					
142	(8E)	ADDRESS	2	NJEJOBNO	- Origin node job number (compatible) - contains FFFF if NJEJOBNX > 65534
144	(90)	CHARACTER	8	NJEJOBNM	- JOB NAME
152	(98)	CHARACTER	8	NJEXEQN	- EXECUTION NODE
160	(A0)	CHARACTER	20	NJEPRGMR	- PROGRAMMER NAME
180	(B4)	CHARACTER	8	NJEUSRID	- TSO USER ID
188	(BC)	CHARACTER	8	NJEACCT	- NETWORK ACCT NUM
196	(C4)	CHARACTER	8	NJEDEPT	- PROGRAMMER DEPT NUM
204	(CC)	CHARACTER	8	NJEBLDG	- PROGRAMMER BLDG NUM
212	(D4)	CHARACTER	8	NJEROOM	- PROGRAMMER ROOM NUM
220	(DC)	CHARACTER	8	NJEXEQU	- EXECUTION USER ID
COMPATIBILITY CODE NJETRANS is maintained for compatibility with pre-HJS7705 levels of JES3. Once HJS7703 and below are no longer supported, this field does not need to be maintained.					
228	(E4)	BITSTRING	4	NJETRANS(0)	Maintained for compile compatibility
228	(E4)	ADDRESS	4	NJEJOBNX	Origin node job number, extended
232	(E8)	BITSTRING	4	NJEJMREN(0)	
232	(E8)	BITSTRING	0	NJEJMRSZ(0)	
232	(E8)	CHARACTER	4	SMF26SRC	NUMBER OF SPOOL RECORDS
Beginning of JES2 Network section					
58	(3A)	BITSTRING	2	SMF26LN4	LENGTH OF THIS SECTION(INCLUDING SELF)
60	(3C)	BITSTRING	2	SMF26RV5	RESERVED
62	(3E)	CHARACTER	4	SMF26NID	JOB TRANSMITTER SYSTEM IDENTIFIER
66	(42)	BITSTRING	4	SMF26NST	JOB TRANSMITTER START TIME
70	(46)		4	SMF26NSD	JOB TRANSMITTER START DATE
74	(4A)	BITSTRING	4	SMF26NPT	JOB TRANSMITTER STOP TIME
78	(4E)		4	SMF26NPD	JOB TRANSMITTER STOP DATE

Table 504. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
82	(52)	CHARACTER	8	SMF26NAC	NETWORK ACCOUNTING NUMBER
90	(5A)	CHARACTER	8	SMF26NJB	Original job identification
98	(62)	CHARACTER	8	SMF26NDV	JOB TRANSMITTER DEVICE NAME
106	(6A)	CHARACTER	8	SMF26NON	Original node name
114	(72)	CHARACTER	8	SMF26NXN	EXECUTION NODE NAME
122	(7A)	CHARACTER	8	SMF26NNM	NEXT NODE NAME
130	(82)	CHARACTER	8	SMF26NLN	LAST NODE NAME
138	(8A)	CHARACTER	8	SMF26SUI	Submitting Userid
146	(92)	CHARACTER	8	SMF26NN	JOB End Execution Notify Node
154	(9A)	CHARACTER	8	SMF26NU	Job End Execution Notify Userid
58	(3A)	BITSTRING	2	SMF26LN5	LGTH OF THIS SECTION
60	(3C)	CHARACTER	4	SMF26INR	INPUT ROUTING
64	(40)	CHARACTER	4	SMF26PRD	DEFAULT PRINT DESTINATION
68	(44)	CHARACTER	4	SMF26PUD	DEFAULT PUNCH DESTINATION
58	(3A)	BITSTRING	2	SMF26LN6	LGTH OF THIS SECTION
60	(3C)	CHARACTER	4	SMF26EBT	ESTIMATED BYTE COUNT
64	(40)	CHARACTER	4	SMF26XBT	ACTUAL BYTE COUNT
68	(44)	CHARACTER	4	SMF26EPG	ESTIMATED PAGE COUNT
72	(48)	CHARACTER	4	SMF26XPG	ACTUAL PAGE COUNT
76	(4C)	CHARACTER	8	SMF26EFM	EXPANDED FORMS ID
		This is the header for all future extensions to the SMF 26 record. Sections beyond this point must be accessed by using the values stored in the triplets (below) that contain the offset, length, and number of sections of the type corresponding to the triplet New sections will be appended to this header and their presence can be detected by an increase in the number of triplets and by a non-zero section offset, length and number of sections. Each offset to a section is added to the address of SMFRCD26 to obtain the start of the section that it locates.			
58	(3A)	BITSTRING	2	SMF26LN7	Length of triplet section
60	(3C)	SIGNED	4	SMF26OAG	Offset of accounting section
64	(40)	BITSTRING	2	SMF26LAG	Length of accounting section
66	(42)	BITSTRING	2	SMF26NAG	Number of accounting sections
68	(44)	SIGNED	4	SMF26OWL	Offset of Work Load Manager section
72	(48)	BITSTRING	2	SMF26LWL	Length of Work Load Manager section
74	(4A)	BITSTRING	2	SMF26NWL	Number of Work Load Manager sections
76	(4C)	SIGNED	4	SMF26OJC	Offset of Job Correlator section
80	(50)	BITSTRING	2	SMF26LJC	Length of Job Correlator section
82	(52)	BITSTRING	2	SMF26NJC	Number of Job Correlator sections
84	(54)	CHARACTER	64	SMF26JCR	Job correlator
148	(94)	CHARACTER	8	SMF26WCL	Service class queue name
156	(9C)	CHARACTER	8	SMF26WOC	Original Service class
164	(A4)	BITSTRING	1	SMF26WIN	Indicators
		1...		SMF26WLM	"B'10000000'" Job ran in MODE=WLM

Table 504. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		SMF26SJB	"B'01000000'" Job ran because of the $S J JES2 command or the *F,J=job,RUN JES3 command
		..1.		SMF26CON	"B'00100000'" Job within concurrent set
165	(A5)	CHARACTER	8	SMF26WJC	Eight character job class
173	(AD)	CHARACTER	16	SMF26WSE	Scheduling environment (SCHENV)
189	(BD)	BITSTRING	2	SMF26LN8	Length of Accounting Section
191	(BF)	SIGNED	1	SMF26NRA	Number of accounting pairs that follow
		Accounting pairs are of the form: AL1(length),C'string of length "length"' A length of 0 indicates an omitted field			
192	(C0)	SIGNED	1	SMF26AC1(0)	
		LENGTH EQUATES			
192	(C0)	X'5E'	0	SMF26L1	"SMF26PDD+L'SMF26PDD-SMF26LN1" DESCRIPTIVE SECT LEN
192	(C0)	X'3C'	0	SMF26L2	"SMF26OPD+L'SMF26OPD-SMF26LN2" EVENT SECTION LENGTH
192	(C0)	X'20'	0	SMF26L3	"SMF26OID+L'SMF26OID-SMF26LN3" ACTUALS SECTION LEN
192	(C0)	X'68'	0	SMF26L4	"SMF26NU+L'SMF26NU-SMF26LN4" NETWORK SECTION LEN
192	(C0)	X'E'	0	SMF26L5	"SMF26PUD+L'SMF26PUD-SMF26LN5" ROUTING SECTION LEN
192	(C0)	X'1A'	0	SMF26L6	"SMF26EFM+L'SMF26EFM-SMF26LN6" PRINT SECTION LEN
192	(C0)	X'1A'	0	SMF26L7	"SMF26NJC+L'SMF26NJC-SMF26LN7" Triplets sect len
192	(C0)	X'29'	0	SMF26L9	"SMF26WSE+L'SMF26WSE-SMF26WCL" WLM section len
192	(C0)	X'40'	0	SMF26LA	"L'SMF26JCR" Job corr sect len
		SMF26L10 is used for the total length of the triplet section and any fixed length section that may follow. This equate is used to ensure compatability between a low level JES assembled with a higher level BCP maclib. For example, a HJE5520 JES2 assembled with a JBB6604 BCP will include the WLM triplet section as part of the SMF26L10 equate. If new triplet sections are added in the future, the SMF26L10 equate must be changed to add the length of the new section.			
192	(C0)	X'83'	0	SMF26L10	"SMF26L7+SMF26L9+SMF26LA" Triplet + WLM len + Job corr
192	(C0)	X'10'	0	SMF26SZ1	"L'SMF26JBN+L'SMF26RST+L'SMF26RSD" LENGTH OF JOB NAME, AND RDR START TIME AND DATE FOR MOVE
192	(C0)	X'4C'	0	SMF26SZ2	"SMF26NLN+L'SMF26NLN-SMF26NID" LEN OF NETWORK FIELDS
192	(C0)	X'8'	0	SMF26SZ3	"L'SMF26RPT+L'SMF26RPD" LEN OF RDR FIELDS FOR MOVE
192	(C0)	X'4'	0	SMF26SZ4	"L'SMF26PRR+L'SMF26PUR" LEN OF PRPU ROUTES FOR MOVE

Table 504. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
192	(C0)	X'4F'	0	SMF26SZ5	"SMF26NU+L'SMF26NU-SMF26NAC-1" LEN OF NET FIELDS
192	(C0)	X'32'	0	SMF26LN	"SMF26IND+L'SMF26IND-SMF26LEN" LEN OF BASE + HEADER
192	(C0)	X'17C'	0	SMF26TLN	"SMF26LN+SMF26L1+SMF26L2+SMF26L3+SMF26L4+SMF26L5+SMF26L6" TOTAL LENGTH OF TYPE 26 RECORD

```
%IFABGN1: ;
    METHOD OF ACCESS
     PL/S - USER DEFINES MACRO VARIABLE IFARXX WHERE XX=RECORD NUM
            DECLARE SMFXXPTR PTR(31) OR RESPECIFY FOR BASE
            INCLUDE MACRO FROM LIBRARY
             EXAMPLE %IFAR08 = 'YES', NOTE. THE COMMA REP-
                     DCL SMF08PTR PTR(31), RESENTS A SEMI-COLON
                     %INCLUDE SYSLIB(IFASMFR), BUT ISN'T TO AVIOD
                                               A DIAGNOSTIC.
            THIS MACRO PROCESSES RECORDS IN THE RANGE 00-06. IT
            ACTS AS A ROUTER TO OTHER MACROS TO PROCESS OTHER
            RECORDS AS FOLLOWS:
                MACRO RECORDS
               IFASMFR1 07-19
               IFASMFR2 20-27
               IFASMFR3 28-36
               IFASMFR4 37-46
               IFASMFR5 47-54
               IFASMFR6 55-69
               IFASMFR9 80-84
               IFASMFRA 85-103
               IFASMFRB 104-113
               IFASMFRC 114-123
               IFASMFRD 124-127
%GOTO IFABGN2;
  THIS IS AN SMF MACRO WHICH CONTROLS THE BUILDING OF SMF RECORDS. THE
  REQUIRED FORMAT IS
        IFASMFR &RECTYPE
  NOTE: VALUES FOR &RECTYPE MUST BE ENCLOSED IN PARENS(UNLESS ONLY 1)
%IAZPRO43: ;
  MODULE NAME = IAZSMF43
  DESCRIPTIVE NAME = JES SMF SUBSYSTEM START RECORD
%GOTO IAZ43;
SWITCH TO DETERMINE WHETHER TO GENERATE EQUATES FOR WRITING REC
 SUBSYSTEM START RECORD TYPE 43
```

8	(8)	SIGNED	4	(0)	ALIGNMENT TO FULL WORD BOUNDRY
8	(8)	X'8'	0	SMFRCD43	"*" START OF RECORD
8	(8)	X'8'	0	SMF43PTR	"*" HEADER SEGMENT
8	(8)	BITSTRING	2	SMF43LEN	RECORD LENGTH
10	(A)	BITSTRING	2	SMF43SEG	SEGMENT DESCRIPTOR
12	(C)	BITSTRING	1	SMF43FLG	HEADER FLAG BYTE
13	(D)	BITSTRING	1	SMF43RTY	RECORD TYPE 43
13	(D)	X'2B'	0	SMFJ43	"43" START SUBSYSTEM RECORD TYPE
14	(E)	BITSTRING	4	SMF43TME	TOD FROM TIME MACRO BINARY
18	(12)		4	SMF43DTE	DATE FROM TIME MACRO
22	(16)	CHARACTER	4	SMF43SID	SYSTEM IDENTIFIER
SUBSYSTEM IDENTIFICATION SECTION					
26	(1A)	BITSTRING	2	SMF43SBS	SUBSYSTEM IDENTIFIER

Table 504. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ..1.		SMF43HSP	"X'0002'" JES2 ID X'0005' JES3 X'0006' SS06
28	(1C)	BITSTRING	2	SMF43RSV	RESV
30	(1E)	BITSTRING	2	SMF43LRR	LGTH OF REMAINDER OF RECORD (NOT INCLUDING THIS FIELD)
30	(1E)	X'20'	0	SMF43SBP	"*" SUBSYSTEM SECTION BEGINNING
JES2 AND JES3 COMMON SECTION					
32	(20)	BITSTRING	2	SMF43RV1	RESV
34	(22)	BITSTRING	1	SMF43RST	START RECORD FLAGS
		1...		SMF$ESYS	"X'80'" IF 1 THEN SMF43EID FIELD IS RESTART SYSTEM ID
		1...		SMF43CLD	"X'80'" COLD START (JES3)
		.1..		SMF43WRM	"X'40'" WARM START
		..1.		SMF43HOT	"X'20'" HOT START
		...1		SMF43ANL	"X'10'" QUEUE ANALYSIS REQUIRED
		.... 1...		SMF43GBL	"X'08'" GLOBAL SYSTEM
		.... .1..		SMF43LCL	"X'04'" LOCAL SYSTEM
		.... ..1.		SMF43REF	"X'02'" Configuration refresh was requested
		1		SMF43DSI	"X'01'" DYNAMIC SYSTEM INTERCHANGE
34	(22)	X'23'	0	SMF43SBG	"*" JES2,JES3 UNCOMMON SECTIONS
JES2 SECTION					
35	(23)	BITSTRING	1	SMF43OPT	JES2 OPTIONS BIT MEANING WHEN SET 0 - FORMAT THE SPOOL 1 - COLD START 2 - REQUEST INIT AUTO 3 - LIST REPLACEMENTS 4-7 RESV
36	(24)	CHARACTER	4	SMF43EID	SYSTEM ID OF SYSTEM TO BE WARMSTARTED IF &ESYS OR 0 FOR START JES 2
JES3 SECTION					
35	(23)	BITSTRING	1	SMF43RV2	RESERVED FLAGS
36	(24)	BITSTRING	1	SMF43US1	USER FLAGS
37	(25)	CHARACTER	1	SMF43NMU	INITIALIZATION DECK ORIGIN TYPE
38	(26)	CHARACTER	8	SMF43ORG	INITIALIZATION DECK ORIGIN TYPE-ORIGIN CONTENTS N-MEMBER NAME(JCL DEFAULT) M-MEMBER NAME(OPER CHOICE) U-UNIT ADDRESS(OP CHOICE)
38	(26)	X'26'	0	SMF43UN4	"SMF43ORG,4" 4-Digit Device Number
38	(26)	X'26'	0	SMF43UNT	"SMF43ORG,3" 3-Digit Device Number
46	(2E)	CHARACTER	4	SMF43PJ3	JES3 PROCEDURE NAME
50	(32)	CHARACTER	8	SMF43RVJ	RESERVED FOR JES3
58	(3A)	CHARACTER	4	SMF43RVU	RESERVED FOR USER
62	(3E)	BITSTRING	1	SMF43END(0)	END OF JES3 RECORD
62	(3E)	BITSTRING	0	SMF43SIZ(0)	SIZE OF JES3 SMF43 RECORD
SS06 SECTION					
32	(20)	CHARACTER	8	SMF43PRC	SS06 START PROC NAME

Table 504. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
40	(28)	CHARACTER	73	SMF43INT	INITIALIZATION
LENGTH EQUATES					
40	(28)	X'20'	0	SMF43L1	"SMF43EID+L'SMF43EID-SMF43LEN" LEN OF TYPE 43 RECORD
40	(28)	X'8'	0	SMF43L2	"SMF43EID+L'SMF43EID-SMF43RV1" LEN OF JES2 SECTION

```
%IFABGN1: ;
    METHOD OF ACCESS
     PL/S - USER DEFINES MACRO VARIABLE IFARXX WHERE XX=RECORD NUM
            DECLARE SMFXXPTR PTR(31) OR RESPECIFY FOR BASE
            INCLUDE MACRO FROM LIBRARY
             EXAMPLE %IFAR08 = 'YES', NOTE. THE COMMA REP-
                     DCL SMF08PTR PTR(31), RESENTS A SEMI-COLON
                     %INCLUDE SYSLIB(IFASMFR), BUT ISN'T TO AVIOD
                                               A DIAGNOSTIC.
            THIS MACRO PROCESSES RECORDS IN THE RANGE 00-06. IT
            ACTS AS A ROUTER TO OTHER MACROS TO PROCESS OTHER
            RECORDS AS FOLLOWS:
                MACRO RECORDS
               IFASMFR1 07-19
               IFASMFR2 20-27
               IFASMFR3 28-36
               IFASMFR4 37-46
               IFASMFR5 47-54
               IFASMFR6 55-69
               IFASMFR9 80-84
               IFASMFRA 85-103
               IFASMFRB 104-113
               IFASMFRC 114-123
               IFASMFRD 124-127
%GOTO IFABGN2;
  THIS IS AN SMF MACRO WHICH CONTROLS THE BUILDING OF SMF RECORDS. THE
  REQUIRED FORMAT IS
        IFASMFR &RECTYPE
  NOTE: VALUES FOR &RECTYPE MUST BE ENCLOSED IN PARENS(UNLESS ONLY 1)
%IAZPRO45: ;
  MODULE NAME = IAZSMF45
  DESCRIPTIVE NAME = JES SMF SUBSYSTEM STOP RECORD
%GOTO IAZ45;
 SWITCH TO DETERMINE WHETHER TO GENERATE EQUATES FOR WRITING REC
 SUBSYSTEM STOP RECORD TYPE 45
```

8	(8)	SIGNED	4	(0)	ALIGN TO FULL WORD BOUNDRY
8	(8)	X'8'	0	SMFRCD45	"*" START OF RECORD
8	(8)	X'8'	0	SMF45PTR	"*" HEADER SEGMENT
8	(8)	BITSTRING	2	SMF45LEN	RECORD LENGTH
10	(A)	BITSTRING	2	SMF45SEG	SEGMENT DESCRIPTOR
12	(C)	BITSTRING	1	SMF45FLG	HEADER FLAG BYTE
13	(D)	BITSTRING	1	SMF45RTY	RECORD TYPE 45
13	(D)	X'2D'	0	SMFJ45	"45" STOP SUBSYSTEM RECORD TYPE
14	(E)	BITSTRING	4	SMF45TME	TOD FROM TIME MACRO BINARY
18	(12)		4	SMF45DTE	DATE FROM TIME MACRO
22	(16)	CHARACTER	4	SMF45SID	SYSTEM IDENTIFICATION
SUBSYSTEM IDENTIFICATION SECTION					
26	(1A)	BITSTRING	2	SMF45SBS	SUBSYSTEM IDENTIFIER
		.... ..1.		SMF45HSP	"X'0002'" JES2 ID X'0005' JES3 X'0006' SS06

Table 504. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
28	(1C)	BITSTRING	2	SMF45RSV	RESV
30	(1E)	BITSTRING	2	SMF45LRR	LGTH OF REMAINDER OF RECORD (NOT INCLUDING THIS FIELD)
30	(1E)	X'20'	0	SMF45SBG	"*" SUBSYSTEM SECTION BEGINNING
JES2 SECTION					
32	(20)	BITSTRING	2	SMF45IND	INDICATORS
		1...		SMF45ATM	"X'80'" BIT 0 ABNORMAL TERMINATION 1-15 RESERVED
34	(22)	BITSTRING	2	SMF45JCC	JES2 COMPLETION CODE
JES3 SECTION					
32	(20)	BITSTRING	1	SMF45FG1	STOP RECORD FLAGS
		1...		SMF45ABN	"X'80'" SUBSYSTEM ENDED DUE TO ABEND
		.1..		SMF45DSI	"X'40'" DSI HAS BEEN INVOKED
33	(21)	BITSTRING	3	SMF45J3C	COMPLETION CODE(SYS/USER)
36	(24)	BITSTRING	1	SMF45RV1	RESERVED
37	(25)	BITSTRING	1	SMF45US1	USER FLAG
38	(26)	CHARACTER	8	SMF45RVJ	RESERVED FOR JES3
46	(2E)	CHARACTER	4	SMF45RVU	RESERVED FOR USER
50	(32)	BITSTRING	1	SMF45END(0)	END OF JES3 RECORD
50	(32)	BITSTRING	0	SMF45SIZ(0)	SIZE OF JES3 45 RECORD
SS06 SECTION					
32	(20)	CHARACTER	8	SMF45PRC	SS06 PROCNAME
40	(28)	BITSTRING	1	SMF45STF	SYSTEM TERMINATION FLAGS
40	(28)	X'80'	0	SMF45HLT	"128" HALT ISSUED
40	(28)	X'40'	0	SMF45OPS	"64" OPERATOR STOP
40	(28)	X'20'	0	SMF45ABT	"32" ABNORMAL TERMINATION
40	(28)	X'10'	0	SMF45NOS	"16" NOSAVE SPECIFIED IN HALT
41	(29)	BITSTRING	3	SMF45UID	USER ID FOR HALT
44	(2C)	BITSTRING	2	SMF45NUL	NO. USERS LOGGED ON AT TERMINATION
LENGTH EQUATES					
44	(2C)	X'1C'	0	SMF45L1	"SMF45JCC+L'SMF45JCC-SMF45LEN" LEN OF TYPE 45 RECORD
44	(2C)	X'4'	0	SMF45L2	"SMF45JCC+L'SMF45JCC-SMF45IND" LEN OF JES2 SECTION

Table 504. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
%IFABGN1: ; METHOD OF ACCESS PL/S - USER DEFINES MACRO VARIABLE IFARXX WHERE XX=RECORD NUM DECLARE SMFXXPTR PTR(31) OR RESPECIFY FOR BASE INCLUDE MACRO FROM LIBRARY EXAMPLE %IFAR08 = 'YES', NOTE. THE COMMA REP- DCL SMF08PTR PTR(31), RESENTS A SEMI-COLON %INCLUDE SYSLIB(IFASMFR), BUT ISN'T TO AVIOD A DIAGNOSTIC. THIS MACRO PROCESSES RECORDS IN THE RANGE 00-06. IT ACTS AS A ROUTER TO OTHER MACROS TO PROCESS OTHER RECORDS AS FOLLOWS: MACRO RECORDS IFASMFR1 07-19 IFASMFR2 20-27 IFASMFR3 28-36 IFASMFR4 37-46 IFASMFR5 47-54 IFASMFR6 55-69 IFASMFR9 80-84 IFASMFRA 85-103 IFASMFRB 104-113 IFASMFRC 114-123 IFASMFRD 124-127 %GOTO IFABGN2; THIS IS AN SMF MACRO WHICH CONTROLS THE BUILDING OF SMF RECORDS. THE REQUIRED FORMAT IS IFASMFR &RECTYPE NOTE: VALUES FOR &RECTYPE MUST BE ENCLOSED IN PARENS(UNLESS ONLY 1) %IAZPRO47:; MODULE NAME = IAZSMF47 DESCRIPTIVE NAME = JES SMF SUBSYSTEM EVENT START %GOTO IAZ47; SWITCH TO DETERMINE WHETHER TO GENERATE EQUATES FOR WRITING REC SUBSYSTEM EVENT START RECORD TYPE 47					
8	(8)	SIGNED	4	(0)	ALIGN TO FULL WORD BOUNDRY
8	(8)	X'8'	0	SMFRCD47	"*" START OF RECORD
8	(8)	X'8'	0	SMF47PTR	"*" HEADER SEGMENT
8	(8)	BITSTRING	2	SMF47LEN	RECORD LENGTH
10	(A)	BITSTRING	2	SMF47SEG	SEGMENT DESCRIPTOR
12	(C)	BITSTRING	1	SMF47FLG	HEADER FLAG BYTE
13	(D)	BITSTRING	1	SMF47RTY	RECORD TYPE 47
13	(D)	X'2F'	0	SMFJ47	"47" START SUBSYSTEM EVENT ID
14	(E)	BITSTRING	4	SMF47TME	TOD FROM TIME MACRO BINARY
18	(12)		4	SMF47DTE	DATE FROM TIME MACRO
22	(16)	CHARACTER	4	SMF47SID	SYSTEM IDENTIFICATION
SUBSYSTEM IDENTIFICATION SECTION					
26	(1A)	BITSTRING	2	SMF47SBS	SUBSYSTEM IDENTIFIER
		.... ..1.		SMF47HSP	"X'0002'" JES2 ID X'0005' JES3 X'0006' SS06
28	(1C)	BITSTRING	2	SMF47RSV	RESV
30	(1E)	BITSTRING	2	SMF47LRR	LGTH OF REMAINDER OF RECORD (NOT INCLUDING THIS FIELD)
30	(1E)	X'20'	0	SMF47SBG	"*" SUBSYSTEM SECTION BEGINNING
JES2 AND JES3 SECTION					

Table 504. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
32	(20)	BITSTRING	2	SMF47EVT	EVENT STARTING
32	(20)	X'1'	0	SMF47SON	"1" TERMINAL SIGNED ON
32	(20)	X'2'	0	SMF47STL	"2" LINE STARTED
32	(20)	X'4'	0	SMF47LON	"4" TERMINAL LOGGED ON
BEGINNING OF GENERAL SECTION					
34	(22)	BITSTRING	2	SMF47LN1	LGTH OF THIS SECTION(INCLUDING SELF-26)
36	(24)	CHARACTER	8	SMF47RMT	REMOTE NAME
44	(2C)	CHARACTER	8	SMF47LIN	LINE NAME
52	(34)	CHARACTER	8	SMF47PSW	PASSWORD
BEGINNING OF SIGNON MESSAGE SECTION THIS SECTION EXISTS ONLY FOR SIGNON EVENT STARTS					
60	(3C)	BITSTRING	2	SMF47LN2	LGTH OF THIS SECTION(INCLUDING SELF-38)
62	(3E)	CHARACTER	36	SMF47MSG	MESSAGE FOR SIGNON, COLUMNS 35-70 OF SIGNON CARD.
98	(62)	CHARACTER	8	SMF47RVJ	RESERVED FOR JES3
106	(6A)	CHARACTER	4	SMF47RVU	RESERVED FOR USER
110	(6E)	BITSTRING	1	SMF47END(0)	END OF JES3 RECORD
110	(6E)	BITSTRING	0	SMF47SIZ(0)	SIZE OF JES3 47 RECORD
SS06 SECTION					
32	(20)	BITSTRING	1	SMF47LCF	LOGON CONDITION FLAG
32	(20)	X'80'	0	SMF47UNL	"128" USER NOT LOGGED OFF
32	(20)	X'20'	0	SMF47CWK	"32" CONTINUE WORKSPACE EXISTED AT LOGON
32	(20)	X'4'	0	SMF47SPA	"4" SERVICE PROGRAM ACCOUNT RECORD
32	(20)	X'1'	0	SMF47ULK	"1" USER LOCKED
33	(21)	BITSTRING	3	SMF47UID	USER ID
36	(24)	BITSTRING	1	SMF47LTC	LIBRARY TYPE CODE
37	(25)	BITSTRING	3	SMF47PLI	PROJECT LIB ID
40	(28)	CHARACTER	6	SMF47JID	JOB ENTRY ID CODE
46	(2E)	BITSTRING	1	SMF47LAA	LANGUAGE ATTRIBUTE ASSIGNED
47	(2F)	BITSTRING	1	SMF47PCI	PRIVILEGED CLASS INDICATORS
48	(30)	BITSTRING	4	SMF47DSL	DASD SPACE IN LIBRARY (1K UNITS)
52	(34)	BITSTRING	4	SMF47DPL	DASD SPACE PROJECT/PUBLIC LIBRARIES(1K UNITS)
LENGTH EQUATES					
32	(20)	X'1A'	0	SMF47L1	"SMF47LN2-SMF47LN1" LEN OF GENERAL SECTION
32	(20)	X'26'	0	SMF47L2	"SMF47MSG+L'SMF47MSG-SMF47LN2" LEN OF SIGNON MSG SEC
32	(20)	X'5A'	0	SMF47L3	"SMF47MSG+L'SMF47MSG-SMF47LEN" LEN OF TYPE 47 RECORD
32	(20)	X'34'	0	SMF47L4	"SMF47LN2-SMF47LEN" LEN OF RECORD - MESSAGE SECTION

Table 504. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
%IFABGN1: ; METHOD OF ACCESS PL/S - USER DEFINES MACRO VARIABLE IFARXX WHERE XX=RECORD NUM DECLARE SMFXXPTR PTR(31) OR RESPECIFY FOR BASE INCLUDE MACRO FROM LIBRARY EXAMPLE %IFAR08 = 'YES', NOTE. THE COMMA REP- DCL SMF08PTR PTR(31), RESENTS A SEMI-COLON %INCLUDE SYSLIB(IFASMFR), BUT ISN'T TO AVIOD A DIAGNOSTIC. THIS MACRO PROCESSES RECORDS IN THE RANGE 00-06. IT ACTS AS A ROUTER TO OTHER MACROS TO PROCESS OTHER RECORDS AS FOLLOWS: MACRO RECORDS IFASMFR1 07-19 IFASMFR2 20-27 IFASMFR3 28-36 IFASMFR4 37-46 IFASMFR5 47-54 IFASMFR6 55-69 IFASMFR9 80-84 IFASMFRA 85-103 IFASMFRB 104-113 IFASMFRC 114-123 IFASMFRD 124-127 %GOTO IFABGN2; THIS IS AN SMF MACRO WHICH CONTROLS THE BUILDING OF SMF RECORDS. THE REQUIRED FORMAT IS IFASMFR &RECTYPE NOTE: VALUES FOR &RECTYPE MUST BE ENCLOSED IN PARENS(UNLESS ONLY 1) %IAZPRO48: ; MODULE NAME = IAZSMF48 DESCRIPTIVE NAME = JES SMF SUBSYSTEM EVENT STOP RECORD %GOTO IAZ48; SWITCH TO DETERMINE WHETHER TO GENERATE EQUATES FOR WRITING REC SUBSYSTEM EVENT STOP RECORD TYPE 48					
8	(8)	SIGNED	4	(0)	ALIGN TO FULL WORD BOUNDRY
8	(8)	X'8'	0	SMFRCD48	"*" START OF RECORD
8	(8)	X'8'	0	SMF48PTR	"*" HEADER SEGMENT
8	(8)	BITSTRING	2	SMF48LEN	RECORD LENGTH
10	(A)	BITSTRING	2	SMF48SEG	SEGMENT DESCRIPTOR
12	(C)	BITSTRING	1	SMF48FLG	HEADER FLAG BYTE
13	(D)	BITSTRING	1	SMF48RTY	RECORD TYPE 48
13	(D)	X'30'	0	SMFJ48	"48" STOP SUBSYSTEM EVENT ID
14	(E)	BITSTRING	4	SMF48TME	TOD FROM TIME MACRO BINARY
18	(12)		4	SMF48DTE	DATE FROM TIME MACRO
22	(16)	CHARACTER	4	SMF48SID	SYSTEM IDENTIFICATION
SUBSYSTEM IDENTIFICATION SECTION					
26	(1A)	BITSTRING	2	SMF48SBS	SUBSYSTEN IDENTIFIER
		.... ..1.		SMF48HSP	"X'0002'" JES2 ID X'0005' JES3 X'0006' SS06
28	(1C)	BITSTRING	2	SMF48RSV	RESV
30	(1E)	BITSTRING	2	SMF48LRR	LGTH OF REMAINDER OF RECORD (NOT INCLUDING THIS FIELD)
30	(1E)	X'20'	0	SMF48SBP	"*" SUBSYSTEM SECTION BEGINNING
JES2 AND JES3 COMMON SECTION					

Table 504. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
32	(20)	BITSTRING	2	SMF48EVT	TYPE OF EVENT STOPPED
32	(20)	X'1'	0	SMF48SOF	"1" LINE HAS SIGNED OFF
32	(20)	X'2'	0	SMF48CAN	"2" LINE CANCELLED BY OPERATOR
32	(20)	X'4'	0	SMF48LOF	"4" TERMINAL LOGGED OFF
34	(22)	BITSTRING	2	SMF48RV1	RESV
36	(24)	CHARACTER	8	SMF48RMT	REMOTE NAME
44	(2C)	CHARACTER	8	SMF48LIN	LINE NAME
52	(34)	CHARACTER	8	SMF48PSW	PASSWORD
52	(34)	X'3C'	0	SMF48SBG	"*" JES2 AND JES3 UNCOMMON SECTIONS
JES2 SECTION					
60	(3C)	BITSTRING	4	SMF48IO	# EXCPS(NOT INCLUDING LINE REPEATS)
64	(40)	BITSTRING	4	SMF48NAK	# NAKS TO WRITE TEXT-NEG ACKNOWLEDGEMTS
68	(44)	BITSTRING	4	SMF48DCK	# DATA CHECKS TO READ TEXT
72	(48)	BITSTRING	4	SMF48OUT	# TIME OUTS TO READ TEXT
76	(4C)	BITSTRING	4	SMF48ERR	SUM OF ALL OTHER LINE ERRORS
80	(50)	CHARACTER	3	SMF48LAA	LINE ADAPTER ADDRESS FROM UCB
83	(53)	CHARACTER	4	SMF48LA4	4-Digit Line Adapter Address
JES3 SECTION					
60	(3C)	BITSTRING	28	SMF48XCP	EXCP COUNTS AND ERROR STATISTICS
60	(3C)	BITSTRING	4	SMF48TRN	NUMBER OF TRANSMISSIONS
64	(40)	BITSTRING	4	SMF48ERS	NUMBER OF LINE ERRORS
68	(44)	BITSTRING	2	SMF48TOT	NUMBER OF TIME-OUTS
70	(46)	BITSTRING	2	SMF48NKS	NUMBER OF NAK RESPONSES TO WRITE
72	(48)	BITSTRING	1	SMF48S0	NUMBER OF COMMAND REJECTS
73	(49)	BITSTRING	1	SMF48S1	NUMBER OF INTERVENTIONS REQUIRED
74	(4A)	BITSTRING	1	SMF48S2	NUMBER OF BUS-OUT CHECKS
75	(4B)	BITSTRING	1	SMF48S3	NUMBER OF EQUIPMENT CHECKS
76	(4C)	BITSTRING	1	SMF48S4	NUMBER OF DATA CHECKS
77	(4D)	BITSTRING	1	SMF48S5	NUMBER OF DATA OVERRUNS
78	(4E)	BITSTRING	1	SMF48S6	NUMBER OF LOST DATAS
79	(4F)	BITSTRING	9	SMF48USR	RESERVED FOR USER
88	(58)	CHARACTER	3	SMF48ADP	LINE ADAPTER ADDRESS
91	(5B)	CHARACTER	4	SMF48AD4	4-Digit Line Adapter Address
95	(5F)	CHARACTER	4	SMF48RVJ	Reserved for JES3
99	(63)	CHARACTER	4	SMF48RVU	RESERVED FOR USER
103	(67)	BITSTRING	1	SMF48END(0)	END OF JES3 RECORD
103	(67)	BITSTRING	0	SMF48SIZ(0)	SIZE OF JES3 48 RECORD
SS06 SECTION					
32	(20)	BITSTRING	1	SMF48FLS	LOGOFF FLAGS
32	(20)	X'80'	0	SMF48RPI	"128" RECORD FOR PREVIOUS INCOMPLETE SESSION
32	(20)	X'40'	0	SMF48CNI	"64" CANCEL ISSUED
32	(20)	X'20'	0	SMF48CWK	"32" CONTINUE WORKSPACE SAVED
32	(20)	X'10'	0	SMF48CPG	"16" CONTINUE PURGED
32	(20)	X'8'	0	SMF48HSI	"8" HALT OR STOP ISSUED
32	(20)	X'4'	0	SMF48SPA	"4" SERVICE PROGRAM ACCOUNT RECORD

Table 504. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
32	(20)	X'1'	0	SMF48ULK	"1" USER LOCKED
33	(21)	BITSTRING	3	SMF48UID	USER ID
36	(24)	BITSTRING	4	SMF48CPU	CPU TIME
40	(28)	BITSTRING	4	SMF48CNT	CONNECT TIME (SECONDS FOR THIS TERMINAL SESSION
44	(2C)	BITSTRING	4	SMF48CTH	CONNECT TIME (SECONDS) FOR THIS TERMINAL SESSION FOR ATTACHED HARDCOPY DEVICE
48	(30)	BITSTRING	4	SMF48VIR	VIRTUAL STORAGE USED (THOUSANDS OF BYTE-SECONDS) DURING TERMINAL SESSION
52	(34)	BITSTRING	4	SMF48DIO	DASD I/O COUNT FOR THIS TERMINAL SESSION
56	(38)	BITSTRING	4	SMF48TIO	TELEPROCESSING I/O COUNTS DURING TERMINAL SESSION
60	(3C)	BITSTRING	4	SMF48DSL	DASD SPACE IN THIS LIBRARY (IN 1K UNITS)
64	(40)	BITSTRING	4	SMF48DSP	DASD SPACE IN PROJECT/PUB LIBRARIES (1K UNITS)
68	(44)	BITSTRING	4	SMF48CPD	CPU TIME TO DATE (HUNDREDTHS OF SECONDS
72	(48)	BITSTRING	4	SMF48CTD	CONNECT TIME TO DATE (SECS)
76	(4C)	BITSTRING	4	SMF48CDH	CONNECT TIME FOR HARDCOPY DEVICE TO DATE (SECONDS)
80	(50)	BITSTRING	4	SMF48VSD	VIRT STORAGE USED TO DATE (THOUSANDS OF BYTE-SECONDS)
84	(54)	BITSTRING	4	SMF48DID	DASD I/O COUNTS TO DATE
88	(58)	BITSTRING	4	SMF48TID	TP I/O COUNTS TO DATE
LENGTH EQUATES					
88	(58)	X'4F'	0	SMF48L1	"SMF48LA4+L'SMF48LA4-SMF48LEN" Type 48 Record Len
88	(58)	X'14'	0	SMF48CT	"SMF48ERR+L'SMF48ERR-SMF48IO" LENGTH OF LINE EVENT COUNT SECTION

Table 504. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
%IFABGN1: ; METHOD OF ACCESS PL/S - USER DEFINES MACRO VARIABLE IFARXX WHERE XX=RECORD NUM DECLARE SMFXXPTR PTR(31) OR RESPECIFY FOR BASE INCLUDE MACRO FROM LIBRARY EXAMPLE %IFAR08 = 'YES', NOTE. THE COMMA REP- DCL SMF08PTR PTR(31), RESENTS A SEMI-COLON %INCLUDE SYSLIB(IFASMFR), BUT ISN'T TO AVIOD A DIAGNOSTIC. THIS MACRO PROCESSES RECORDS IN THE RANGE 00-06. IT ACTS AS A ROUTER TO OTHER MACROS TO PROCESS OTHER RECORDS AS FOLLOWS: MACRO RECORDS IFASMFR1 07-19 IFASMFR2 20-27 IFASMFR3 28-36 IFASMFR4 37-46 IFASMFR5 47-54 IFASMFR6 55-69 IFASMFR9 80-84 IFASMFRA 85-103 IFASMFRB 104-113 IFASMFRC 114-123 IFASMFRD 124-127 %GOTO IFABGN2; THIS IS AN SMF MACRO WHICH CONTROLS THE BUILDING OF SMF RECORDS. THE REQUIRED FORMAT IS IFASMFR &RECTYPE NOTE: VALUES FOR &RECTYPE MUST BE ENCLOSED IN PARENS(UNLESS ONLY 1) %IAZPRO49: ; MODULE NAME = IAZSMF49 DESCRIPTIVE NAME = JES SMF SUBSYSTEM INTEGRITY RECORD %GOTO IAZ49; SWITCH TO DETERMINE WHETHER TO GENERATE EQUATES FOR WRITING REC SUBSYSTEM INTEGRITY RECORD TYPE 49					
8	(8)	SIGNED	4	(0)	ALIGN TO FULL WORD BOUNDRY
8	(8)	X'8'	0	SMFRCD49	"*" START OF RECORD
8	(8)	X'8'	0	SMF49PTR	"*" HEADER SEGMENT
8	(8)	BITSTRING	2	SMF49LEN	RECORD LENGTH
10	(A)	BITSTRING	2	SMF49SEG	SEGMENT DESCRIPTOR
12	(C)	BITSTRING	1	SMF49FLG	HEADER FLAG BYTE
13	(D)	BITSTRING	1	SMF49RTY	RECORD TYPE 49
13	(D)	X'31'	0	SMFJ49	"49" INTEGRITY EVENT RECORD TYPE
14	(E)	BITSTRING	4	SMF49TME	TOD FROM TIME MACRO BINARY
18	(12)		4	SMF49DTE	DATE FROM TIME MACRO
22	(16)	CHARACTER	4	SMF49SID	SYSTEM IDENTIFICATION
SUBSYSTEM IDENTIFICATION SECTION					
26	(1A)	BITSTRING	2	SMF49SBS	SUBSYSTEM IDENTIFIER X'0002' JES2 X'0005' JES3 X'0006' SS06
28	(1C)	BITSTRING	2	SMF49RSV	RESV
30	(1E)	BITSTRING	2	SMF49LRR	LGTH OF REMAINED OF RECORD (NOT INCLUDING THIS FIELD)
30	(1E)	X'20'	0	SMF49SBG	"*" SUBSYSTEM SECTION BEGINNING
JES2 AND JES3 SECTION					
32	(20)	BITSTRING	2	SMF49EVT	EVENT STARTING

Table 504. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
FOLLOWING BIT DEFINITIONS APPLY TO JES2					
32	(20)	X'1'	0	SMF49SON	"1" SIGNON
32	(20)	X'2'	0	SMF49STL	"2" START LINE
FOLLOWING BIT DEFINITIONS APPLY TO JES3					
32	(20)	X'1'	0	SMF49NER	"1" TERMINAL NOT DEFINED (BSC)
32	(20)	X'2'	0	SMF49PER	"2" SECURITY FAILURE (BSC)
32	(20)	X'4'	0	SMF49LER	"4" LINE ALREADY SIGNED ON (BSC)
32	(20)	X'8'	0	SMF49TER	"8" TERMINAL ALREADY SIGNED ON (BSC)
32	(20)	X'5'	0	SMF49LIM	"5" SESSION LIMIT EXCEEDED (SNA)
32	(20)	X'6'	0	SMF49DEF	"6" WORK STATION UNDEFINED (SNA)
32	(20)	X'7'	0	SMF49SPW	"7" SECURITY FAILURE (SNA)
32	(20)	X'8'	0	SMF49BND	"8" BIND FAILURE (SNA)
BEGINNING OF GENERAL SECTION					
34	(22)	BITSTRING	2	SMF49LN1	LGTH OF THIS SECTION(INCLUDING SELF-26)
36	(24)	CHARACTER	8	SMF49RMT	REMOTE NAME
44	(2C)	CHARACTER	8	SMF49LIN	LINE NAME
52	(34)	CHARACTER	8	SMF49PSW	PASSWORD USED(INVALID)
BEGINNING OF SIGNON MESSAGE SECTION THIS SECTION EXISTS ONLY FOR SIGNON EVENT STARTS					
60	(3C)	BITSTRING	2	SMF49LN2	LGTH OF THIS SECTION(INCLUDING SELF-38)
62	(3E)	CHARACTER	36	SMF49MSG	MESSAGE FOR SIGNON, COLUMNS 35-70 OF SIGNON CARD.
98	(62)	BITSTRING	1	SMF49END(0)	END OF JES3 RECORD
98	(62)	BITSTRING	0	SMF49SIZ(0)	SIZE OF JES3 49 RECORD
SS06 SECTION					
32	(20)	BITSTRING	3	SMF49VID	VIOLATOR IDENTIFICATION
35	(23)	BITSTRING	3	SMF49LNA	LIBRARY NUMBER OR ACCESSED LIBRARY
38	(26)	BITSTRING	2	SMF49RV1	RESERVED
40	(28)	CHARACTER	12	SMF49FLN	FILENAME OF FILE ATTEMPTED
52	(34)	BITSTRING	3	SMF49UFO	USERNUMBER OF FILE OWNER
LENGTH EQUATES					
32	(20)	X'1A'	0	SMF49L1	"SMF49LN2-SMF49LN1" LEN OF GENERAL SECTION
32	(20)	X'26'	0	SMF49L2	"SMF49MSG+L'SMF49MSG-SMF49LN2" LEN OF SIGNON MSG SEC
32	(20)	X'5A'	0	SMF49L3	"SMF49MSG+L'SMF49MSG-SMF49LEN" LEN OF TYPE 49 RECORD

Table 504. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
%IFABGN1: ; METHOD OF ACCESS PL/S - USER DEFINES MACRO VARIABLE IFARXX WHERE XX=RECORD NUM DECLARE SMFXXPTR PTR(31) OR RESPECIFY FOR BASE INCLUDE MACRO FROM LIBRARY EXAMPLE %IFAR08 = 'YES', NOTE. THE COMMA REP- DCL SMF08PTR PTR(31), RESENTS A SEMI-COLON %INCLUDE SYSLIB(IFASMFR), BUT ISN'T TO AVIOD A DIAGNOSTIC. THIS MACRO PROCESSES RECORDS IN THE RANGE 00-06. IT ACTS AS A ROUTER TO OTHER MACROS TO PROCESS OTHER RECORDS AS FOLLOWS: MACRO RECORDS IFASMFR1 07-19 IFASMFR2 20-27 IFASMFR3 28-36 IFASMFR4 37-46 IFASMFR5 47-54 IFASMFR6 55-69 IFASMFR9 80-84 IFASMFRA 85-103 IFASMFRB 104-113 IFASMFRC 114-123 IFASMFRD 124-127 %GOTO IFABGN2; THIS IS AN SMF MACRO WHICH CONTROLS THE BUILDING OF SMF RECORDS. THE REQUIRED FORMAT IS IFASMFR &RECTYPE NOTE: VALUES FOR &RECTYPE MUST BE ENCLOSED IN PARENS(UNLESS ONLY 1) MODULE NAME = IAZSMF52 DESCRIPTIVE NAME = JES SMF SNA START EVENT RECORD SWITCH TO DETERMINE WHETHER TO GENERATE EQUATES FOR WRITING REC					
8	(8)	X'8'	0	SMFRCD52	"*" START OF RECORD
8	(8)	X'8'	0	SMF52PTR	"*" HEADER SEGMENT
8	(8)	CHARACTER	2	SMF52LEN	RECORD LENGTH
10	(A)	CHARACTER	2	SMF52SEG	SEGMENT DESCRIPTOR
BEGINNING OF JMR OR HASP SMF RECORD					
12	(C)	BITSTRING	1	SMF52FLG	HEADER FLAG BYTE
13	(D)	BITSTRING	1	SMF52RTY	RECORD TYPE
14	(E)	BITSTRING	4	SMF52TME	TOD, USING FORMAT FROM TIME MACRO
18	(12)		4	SMF52DTE	DATE IN PACKD DECIMAL FORM 00YYDDDF
22	(16)	CHARACTER	4	SMF52SID	SYSTEM IDENTIFICATION
HEADER FOR HASP SUBSYSTEM RECORD TYPE 52					
22	(16)	X'34'	0	SMFJ52	"52" RECORD TYPE SNA START EVENT
26	(1A)	BITSTRING	2	SMF52POF	OFFSET TO PRODUCT SECTION
28	(1C)	BITSTRING	2	SMF52PRL	LENGTH OF PRODUCT SECTION
30	(1E)	BITSTRING	2	SMF52PRN	NUMBER OF PRODUCT SECTION
32	(20)	BITSTRING	2	SMF52IDO	OFFSET TO ID SECTION
34	(22)	BITSTRING	2	SMF52IDL	LENGTH OF ID SECTION
36	(24)	BITSTRING	2	SMF52IDN	NUMBER OF ID SECTION
PRODUCT SECTION HASP SUBSYSTEM RECORD TYPES 52					
38	(26)	BITSTRING	2	SMF52SUB	SUBTYPE ID NUMBER

Table 504. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
38	(26)	X'1'	0	SMF52LON	"1" LOGON EVENT
38	(26)	X'2'	0	SMF52SLN	"2" START LINE EVENT
40	(28)	CHARACTER	2	SMF52VER	RECORD VERSION NUMBER
42	(2A)	CHARACTER	4	SMF52SYS	SUBSYSTEM NAME
46	(2E)	CHARACTER	1	SMF52IDS(0)	DEFINE START OF ID SECTION
ID SECTION OF HASP TYPE 52 (SNA) START EVENT AFTER TWO HDRS					
46	(2E)	CHARACTER	8	SMF52RMT	REMOTE NAME
54	(36)	CHARACTER	8	SMF52LIN	LINE NAME
62	(3E)	CHARACTER	8	SMF52PSW	LINE PASSWORD
70	(46)	CHARACTER	1	SMF52END(0)	END OF TYPE 52 RECORD
LENGTH EQUATES					
70	(46)	X'1E'	0	SMF52OFP	"SMF52IDN+L'SMF52IDN-SMFRCD52" OFFSET TO PROD SECT
70	(46)	X'8'	0	SMF52LPR	"SMF52SYS+L'SMF52SYS-SMF52SUB" LENGTH OF PROD SECT
70	(46)	X'26'	0	SMF52OFI	"SMF52SYS+L'SMF52SYS-SMFRCD52" OFFSET TO ID SECT
70	(46)	X'18'	0	SMF52LID	"SMF52PSW+L'SMF52PSW-SMF52IDS" LENGTH OF ID SECT

```
%IFABGN1: ;
    METHOD OF ACCESS
     PL/S - USER DEFINES MACRO VARIABLE IFARXX WHERE XX=RECORD NUM
            DECLARE SMFXXPTR PTR(31) OR RESPECIFY FOR BASE
            INCLUDE MACRO FROM LIBRARY
             EXAMPLE %IFAR08 = 'YES', NOTE. THE COMMA REP-
                     DCL SMF08PTR PTR(31), RESENTS A SEMI-COLON
                     %INCLUDE SYSLIB(IFASMFR), BUT ISN'T TO AVIOD
                                               A DIAGNOSTIC.
            THIS MACRO PROCESSES RECORDS IN THE RANGE 00-06. IT
            ACTS AS A ROUTER TO OTHER MACROS TO PROCESS OTHER
            RECORDS AS FOLLOWS:
                MACRO RECORDS
               IFASMFR1 07-19
               IFASMFR2 20-27
               IFASMFR3 28-36
               IFASMFR4 37-46
               IFASMFR5 47-54
               IFASMFR6 55-69
               IFASMFR9 80-84
               IFASMFRA 85-103
               IFASMFRB 104-113
               IFASMFRC 114-123
               IFASMFRD 124-127
%GOTO IFABGN2;
  THIS IS AN SMF MACRO WHICH CONTROLS THE BUILDING OF SMF RECORDS. THE
  REQUIRED FORMAT IS
        IFASMFR &RECTYPE
  NOTE: VALUES FOR &RECTYPE MUST BE ENCLOSED IN PARENS(UNLESS ONLY 1)
  MODULE NAME = IAZSMF53
  DESCRIPTIVE NAME = JES SMF SNA STOP EVENT RECORD
 SWITCH TO DETERMINE WHETHER TO GENERATE EQUATES FOR WRITING REC
```

8	(8)	X'8'	0	SMFRCD53	"*" START OF RECORD
8	(8)	X'8'	0	SMF53PTR	"*" HEADER SEGMENT
8	(8)	CHARACTER	2	SMF53LEN	RECORD LENGTH
10	(A)	CHARACTER	2	SMF53SEG	SEGMENT DESCRIPTOR

Table 504. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
BEGINNING OF JMR OR HASP SMF RECORD					
12	(C)	BITSTRING	1	SMF53FLG	HEADER FLAG BYTE
13	(D)	BITSTRING	1	SMF53RTY	RECORD TYPE
14	(E)	BITSTRING	4	SMF53TME	TOD, USING FORMAT FROM TIME MACRO
18	(12)		4	SMF53DTE	DATE IN PACKD DECIMAL FORM 00YYDDDF
22	(16)	CHARACTER	4	SMF53SID	SYSTEM IDENTIFICATION
HEADER FOR HASP SUBSYSTEM RECORD TYPE 53					
22	(16)	X'35'	0	SMFJ53	"53" RECORD TYPE SNA STOP EVENT
26	(1A)	BITSTRING	2	SMF53PRO	OFFSET TO PRODUCT SECTION
28	(1C)	BITSTRING	2	SMF53PRL	LENGTH OF PRODUCT SECTION
30	(1E)	BITSTRING	2	SMF53PRN	NUMBER OF PRODUCT SECTION
32	(20)	BITSTRING	2	SMF53IDO	OFFSET TO ID SECTION
34	(22)	BITSTRING	2	SMF53IDL	LENGTH OF ID SECTION
36	(24)	BITSTRING	2	SMF53IDN	NUMBER OF ID SECTION
PRODUCT SECTION HASP SUBSYSTEM RECORD TYPE 53					
38	(26)	BITSTRING	2	SMF53SUB	SUBTYPE ID NUMBER
THE FOLLOWING EQUATES APPLY TO RECORD TYPE 53					
38	(26)	X'1'	0	SMF53LOF	"1" LOGOFF EVENT
38	(26)	X'2'	0	SMF53PLN	"2" STOP LINE EVENT
40	(28)	CHARACTER	2	SMF53VER	RECORD VERSION NUMBER
42	(2A)	CHARACTER	4	SMF53SYS	SUBSYSTEM NAME
46	(2E)	CHARACTER	1	SMF53IDS(0)	DEFINE START OF ID SECTION
ID SECTION OF HASP TYPE 53 (SNA) STOP EVENT AFTER TWO HDRS					
46	(2E)	CHARACTER	8	SMF53RMT	REMOTE NAME
54	(36)	CHARACTER	8	SMF53LIN	LINE NAME
62	(3E)	CHARACTER	8	SMF53PSW	LINE PASSWORD
70	(46)	BITSTRING	20	SMF53CTR	LINE EVENT COUNTERS
90	(5A)	CHARACTER	3	SMF53ADP	LINE IDENTIFIER
93	(5D)	CHARACTER	1	SMF53END(0)	END OF TYPE 53 RECORD
93	(5D)	X'1E'	0	SMF53OFP	"SMF53IDN+L'SMF53IDN-SMFRCD53" OFFSET TO PROD SECT
93	(5D)	X'8'	0	SMF53LPR	"SMF53SYS+L'SMF53SYS-SMF53SUB" LENGTH OF PROD SECT
93	(5D)	X'26'	0	SMF53OFI	"SMF53SYS+L'SMF53SYS-SMFRCD53" OFFSET TO ID SECT
93	(5D)	X'2F'	0	SMF53LID	"SMF53END-SMF53IDS" LENGTH OF ID SECT

Table 504. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
%IFABGN1: ; METHOD OF ACCESS PL/S - USER DEFINES MACRO VARIABLE IFARXX WHERE XX=RECORD NUM DECLARE SMFXXPTR PTR(31) OR RESPECIFY FOR BASE INCLUDE MACRO FROM LIBRARY EXAMPLE %IFAR08 = 'YES', NOTE. THE COMMA REP- DCL SMF08PTR PTR(31), RESENTS A SEMI-COLON %INCLUDE SYSLIB(IFASMFR), BUT ISN'T TO AVIOD A DIAGNOSTIC. THIS MACRO PROCESSES RECORDS IN THE RANGE 00-06. IT ACTS AS A ROUTER TO OTHER MACROS TO PROCESS OTHER RECORDS AS FOLLOWS: MACRO RECORDS IFASMFR1 07-19 IFASMFR2 20-27 IFASMFR3 28-36 IFASMFR4 37-46 IFASMFR5 47-54 IFASMFR6 55-69 IFASMFR9 80-84 IFASMFRA 85-103 IFASMFRB 104-113 IFASMFRC 114-123 IFASMFRD 124-127 %GOTO IFABGN2; THIS IS AN SMF MACRO WHICH CONTROLS THE BUILDING OF SMF RECORDS. THE REQUIRED FORMAT IS IFASMFR &RECTYPE NOTE: VALUES FOR &RECTYPE MUST BE ENCLOSED IN PARENS(UNLESS ONLY 1) MODULE NAME = IAZSMF54 DESCRIPTIVE NAME = JES SMF SPOOL INTEGRITY EVENT RECORD					
8	(8)	X'8'	0	SMFRCD54	"*" START OF RECORD
8	(8)	X'8'	0	SMF54PTR	"*" HEADER SEGMENT
8	(8)	CHARACTER	2	SMF54LEN	RECORD LENGTH
10	(A)	CHARACTER	2	SMF54SEG	SEGMENT DESCRIPTOR
BEGINNING OF JMR OR HASP SMF RECORD					
12	(C)	BITSTRING	1	SMF54FLG	HEADER FLAG BYTE
13	(D)	BITSTRING	1	SMF54RTY	RECORD TYPE
14	(E)	BITSTRING	4	SMF54TME	TOD, USING FORMAT FROM TIME MACRO
18	(12)		4	SMF54DTE	DATE IN PACKD DECIMAL FORM 00YYDDDF
22	(16)	CHARACTER	4	SMF54SID	SYSTEM IDENTIFICATION
HEADER FOR HASP SUBSYSTEM RECORD TYPES 54					
22	(16)	X'36'	0	SMFJ54	"54" SPOOL INTEGRITY EVENT REC
26	(1A)	BITSTRING	2	SMF54POF	OFFSET TO PRODUCT SECTION
28	(1C)	BITSTRING	2	SMF54PRL	LENGTH OF PRODUCT SECTION
30	(1E)	BITSTRING	2	SMF54PRN	NUMBER OF PRODUCT SECTION
32	(20)	BITSTRING	2	SMF54IDO	OFFSET TO ID SECTION
34	(22)	BITSTRING	2	SMF54IDL	LENGTH OF ID SECTION
36	(24)	BITSTRING	2	SMF54IDN	NUMBER OF ID SECTION
PRODUCT SECTION HASP SUBSYSTEM RECORD TYPE 54					
38	(26)	BITSTRING	2	SMF54SUB	SUBTYPE ID NUMBER
38	(26)	X'1'	0	SMF54LON	"1" LOGON EVENT

Table 504. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
40	(28)	CHARACTER	2	SMF54VER	RECORD VERSION NUMBER
42	(2A)	CHARACTER	4	SMF54SYS	SUBSYSTEM NAME
46	(2E)	CHARACTER	1	SMF54IDS(0)	DEFINE START OF ID SECTION
ID SECTION OF HASP 54 (SNA) INTEGRITY RECORD AFTER TWO HDRS					
46	(2E)	CHARACTER	8	SMF54RMT	REMOTE NAME
54	(36)	CHARACTER	8	SMF54RPW	REMOTE PASSWORD
62	(3E)	CHARACTER	8	SMF54PSW	LINE PASSWORD
70	(46)	CHARACTER	1	SMF54END(0)	END OF TYPE 54 RECORD

```
%IFABGN1: ;
    METHOD OF ACCESS
     PL/S - USER DEFINES MACRO VARIABLE IFARXX WHERE XX=RECORD NUM
            DECLARE SMFXXPTR PTR(31) OR RESPECIFY FOR BASE
            INCLUDE MACRO FROM LIBRARY
             EXAMPLE %IFAR08 = 'YES', NOTE. THE COMMA REP-
                     DCL SMF08PTR PTR(31), RESENTS A SEMI-COLON
                     %INCLUDE SYSLIB(IFASMFR), BUT ISN'T TO AVIOD
                                               A DIAGNOSTIC.
            THIS MACRO PROCESSES RECORDS IN THE RANGE 00-06. IT
            ACTS AS A ROUTER TO OTHER MACROS TO PROCESS OTHER
            RECORDS AS FOLLOWS:
                MACRO RECORDS
               IFASMFR1 07-19
               IFASMFR2 20-27
               IFASMFR3 28-36
               IFASMFR4 37-46
               IFASMFR5 47-54
               IFASMFR6 55-69
               IFASMFR9 80-84
               IFASMFRA 85-103
               IFASMFRB 104-113
               IFASMFRC 114-123
               IFASMFRD 124-127
%GOTO IFABGN2;
  THIS IS AN SMF MACRO WHICH CONTROLS THE BUILDING OF SMF RECORDS. THE
  REQUIRED FORMAT IS
        IFASMFR &RECTYPE
  NOTE: VALUES FOR &RECTYPE MUST BE ENCLOSED IN PARENS(UNLESS ONLY 1)
  MODULE NAME = IAZSMF55
  DESCRIPTIVE NAME = JES SMF NETWORK SIGNON RECORD
 SWITCH TO DETERMINE WHETHER TO GENERATE EQUATES FOR WRITING REC
```

8	(8)	X'8'	0	SMFRCD55	"*" START OF RECORD
8	(8)	X'8'	0	SMF55PTR	"*" HEADER SEGMENT
8	(8)	CHARACTER	2	SMF55LEN	RECORD LENGTH
10	(A)	CHARACTER	2	SMF55SEG	SEGMENT DESCRIPTOR
BEGINNING OF JMR OR HASP SMF RECORD					
12	(C)	BITSTRING	1	SMF55FLG	HEADER FLAG BYTE
13	(D)	BITSTRING	1	SMF55RTY	RECORD TYPE
14	(E)	BITSTRING	4	SMF55TME	TOD, USING FORMAT FROM TIME MACRO
18	(12)		4	SMF55DTE	DATE IN PACKD DECIMAL FORM 00YYDDDF
22	(16)	CHARACTER	4	SMF55SID	SYSTEM IDENTIFICATION
HEADER FOR HASP SUBSYS RECORD TYPE 55					
22	(16)	X'37'	0	SMFJ55	"55" NETWORK SIGNON RECORD TYPE

Table 504. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
26	(1A)	BITSTRING	2	SMF55SBS	HASP SUBSYSTEM ID
		.... ..1.		SMF55HSP	"X'0002'" JES2 ID
28	(1C)	BITSTRING	2	SMF55SUB	RECORD SUBTYPE
30	(1E)	BITSTRING	2	SMF55LRR	LENGTH OF REST OF RECORD
30	(1E)	X'18'	0	SMF55STR	"*-SMF55LEN" LENGTH OF HEADING SECTIONS
BEGINNING OF HASP TYPE 55 NETWORKING SIGNON RECORD AFTER 2 HDRS					
32	(20)	CHARACTER	8	SMF55NNM	NODE NAME
40	(28)	BITSTRING	1	SMF55MEM	MEMBER NUMBER
41	(29)	BITSTRING	1	SMF55FG1	SIGNON STATUS FLAGS
		1...		SMF55RSO	"B'10000000'" RESPONSE SIGNON
		.1..		SMF55CON	"B'01000000'" Reset/concur signon
		..1.		SMF55SEC	"B'00100000'" Secure signon protocol (SMF55LPW and SMF55NPW are not set with this protocol)
42	(2A)	CHARACTER	8	SMF55LPW	LINE PASSWORD
50	(32)	CHARACTER	8	SMF55NPW	NODE PASSWORD
58	(3A)	CHARACTER	8	SMF55LNM	LINE NAME
66	(42)	BITSTRING	4	SMF55BSZ	Negotiated buffer size
70	(46)	CHARACTER	1	SMF55END(0)	END OF TYPE 55 RECORD (SHORT)
OPTIONAL INFORMATION ABOUT ADJACENT NODE					
70	(46)	BITSTRING	16	SMF55IPA	BINARY IP ADDRESS, IPv6 FORMAT
86	(56)	BITSTRING	2	SMF55PRT	PORT NUMBER
88	(58)	CHARACTER	127	SMF55HNM	TCP/IP HOST NAME
215	(D7)	CHARACTER	1	SMF55EN2(0)	END OF TYPE 55 RECORD (LONG)

Table 504. Structure SMF (continued)

```
  Offset    Offset
    Dec       Hex  Type                 Len  Name(Dim)                  Description
-------------------------------------------------------------------------------------
%IFABGN1: ;
    METHOD OF ACCESS
     PL/S - USER DEFINES MACRO VARIABLE IFARXX WHERE XX=RECORD NUM
            DECLARE SMFXXPTR PTR(31) OR RESPECIFY FOR BASE
            INCLUDE MACRO FROM LIBRARY
             EXAMPLE %IFAR08 = 'YES', NOTE. THE COMMA REP-
                     DCL SMF08PTR PTR(31), RESENTS A SEMI-COLON
                     %INCLUDE SYSLIB(IFASMFR), BUT ISN'T TO AVIOD
                                               A DIAGNOSTIC.
            THIS MACRO PROCESSES RECORDS IN THE RANGE 00-06. IT
            ACTS AS A ROUTER TO OTHER MACROS TO PROCESS OTHER
            RECORDS AS FOLLOWS:
                MACRO RECORDS
               IFASMFR1 07-19
               IFASMFR2 20-27
               IFASMFR3 28-36
               IFASMFR4 37-46
               IFASMFR5 47-54
               IFASMFR6 55-69
               IFASMFR9 80-84
               IFASMFRA 85-103
               IFASMFRB 104-113
               IFASMFRC 114-123
               IFASMFRD 124-127
%GOTO IFABGN2;
  THIS IS AN SMF MACRO WHICH CONTROLS THE BUILDING OF SMF RECORDS. THE
  REQUIRED FORMAT IS
        IFASMFR &RECTYPE
  NOTE: VALUES FOR &RECTYPE MUST BE ENCLOSED IN PARENS(UNLESS ONLY 1)
  MODULE NAME = IAZSMF56
  DESCRIPTIVE NAME = JES SMF NETWORK INTEGRITY RECORD
-------------------------------------------------------------------------------------
      8       (8)  X'8'                  0   SMFRCD56                   "*" START OF RECORD
      8       (8)  X'8'                  0   SMF56PTR                   "*" HEADER SEGMENT
      8       (8)  CHARACTER             2   SMF56LEN                   RECORD LENGTH
     10       (A)  CHARACTER             2   SMF56SEG                   SEGMENT DESCRIPTOR
  BEGINNING OF JMR OR HASP SMF RECORD
-------------------------------------------------------------------------------------
     12       (C)  BITSTRING             1   SMF56FLG                   HEADER FLAG BYTE
     13       (D)  BITSTRING             1   SMF56RTY                   RECORD TYPE
     14       (E)  BITSTRING             4   SMF56TME                   TOD, USING FORMAT FROM TIME
                                                                         MACRO
     18      (12)                        4   SMF56DTE                   DATE IN PACKD DECIMAL FORM
                                                                         00YYDDDF
     22      (16)  CHARACTER             4   SMF56SID                   SYSTEM IDENTIFICATION
  HEADER FOR HASP SUBSYS RECORD TYPE 56
-------------------------------------------------------------------------------------
     22      (16)  X'38'                 0   SMFJ56                     "56" NETWORK INTEGRITY REC TYPE
     26      (1A)  BITSTRING             2   SMF56SBS                   HASP SUBSYSTEM ID
                     ....  ..1.               SMF56HSP                   "X'0002'" JES2 ID
     28      (1C)  BITSTRING             2   SMF56SUB                   RECORD SUBTYPE
     30      (1E)  BITSTRING             2   SMF56LRR                   LENGTH OF REST OF RECORD
  BEGINNING OF HASP TYPE 56 NETWORKING SIGNON RECORD AFTER 2 HDRS
-------------------------------------------------------------------------------------
     32      (20)  CHARACTER             8   SMF56NNM                   NODE NAME
     40      (28)  BITSTRING             1   SMF56MEM                   MEMBER NUMBER
     41      (29)  BITSTRING             1   SMF56FG1                   SIGNON STATUS FLAGS
                     1...  ....              SMF56RSO                   "B'10000000'" RESPONSE SIGNON
```

Table 504. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		SMF56CON	"B'01000000'" Reset/concur signon
		..1.		SMF56SEC	"B'00100000'" Secure signon protocol (SMF56LPW and SMF56NPW are not set with this protocol)
42	(2A)	CHARACTER	8	SMF56LPW	LINE PASSWORD
50	(32)	CHARACTER	8	SMF56NPW	NODE PASSWORD
58	(3A)	CHARACTER	8	SMF56LNM	LINE NAME
66	(42)	BITSTRING	4	SMF56BSZ	Negotiated buffer size
70	(46)	CHARACTER	1	SMF56END(0)	END OF TYPE 56 RECORD (SHORT)
OPTIONAL INFORMATION ABOUT ADJACENT NODE					
70	(46)	BITSTRING	16	SMF56IPA	BINARY IP ADDRESS, IPv6 FORMAT
86	(56)	BITSTRING	2	SMF56PRT	PORT NUMBER
88	(58)	CHARACTER	127	SMF56HNM	TCP/IP HOST NAME
215	(D7)	CHARACTER	1	SMF56EN2(0)	END OF TYPE 56 RECORD (LONG)

```
%IFABGN1: ;
    METHOD OF ACCESS
     PL/S - USER DEFINES MACRO VARIABLE IFARXX WHERE XX=RECORD NUM
            DECLARE SMFXXPTR PTR(31) OR RESPECIFY FOR BASE
            INCLUDE MACRO FROM LIBRARY
             EXAMPLE %IFAR08 = 'YES', NOTE. THE COMMA REP-
                     DCL SMF08PTR PTR(31), RESENTS A SEMI-COLON
                     %INCLUDE SYSLIB(IFASMFR), BUT ISN'T TO AVIOD
                                               A DIAGNOSTIC.
            THIS MACRO PROCESSES RECORDS IN THE RANGE 00-06. IT
            ACTS AS A ROUTER TO OTHER MACROS TO PROCESS OTHER
            RECORDS AS FOLLOWS:
                MACRO RECORDS
               IFASMFR1 07-19
               IFASMFR2 20-27
               IFASMFR3 28-36
               IFASMFR4 37-46
               IFASMFR5 47-54
               IFASMFR6 55-69
               IFASMFR9 80-84
               IFASMFRA 85-103
               IFASMFRB 104-113
               IFASMFRC 114-123
               IFASMFRD 124-127
%GOTO IFABGN2;
  THIS IS AN SMF MACRO WHICH CONTROLS THE BUILDING OF SMF RECORDS. THE
  REQUIRED FORMAT IS
        IFASMFR &RECTYPE
  NOTE: VALUES FOR &RECTYPE MUST BE ENCLOSED IN PARENS(UNLESS ONLY 1)
  MODULE NAME = IAZSMF57
  DESCRIPTIVE NAME = JES SMF NETWORK SYSOUT TRANSMISSION RECORD
 SWITCH TO DETERMINE WHETHER TO GENERATE EQUATES FOR WRITING REC
```

8	(8)	X'8'	0	SMFRCD57	"*" START OF RECORD
8	(8)	X'8'	0	SMF57PTR	"*" HEADER SEGMENT
8	(8)	CHARACTER	2	SMF57LEN	RECORD LENGTH
10	(A)	CHARACTER	2	SMF57SEG	SEGMENT DESCRIPTOR
BEGINNING OF JMR OR HASP SMF RECORD					
12	(C)	BITSTRING	1	SMF57FLG	HEADER FLAG BYTE
13	(D)	BITSTRING	1	SMF57RTY	RECORD TYPE

Table 504. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
14	(E)	BITSTRING	4	SMF57TME	TOD, USING FORMAT FROM TIME MACRO
18	(12)		4	SMF57DTE	DATE IN PACKD DECIMAL FORM 00YYDDDF
22	(16)	CHARACTER	4	SMF57SID	SYSTEM IDENTIFICATION
HEADER FOR HASP SUBSYS RECORD TYPES 57					
22	(16)	X'39'	0	SMFJ57	"57" NETWORK SYSOUT TRANSMISSION
26	(1A)	BITSTRING	2	SMF57SBS	HASP SUBSYSTEM ID
		.... ..1.		SMF57HSP	"X'0002'" JES2 ID
28	(1C)	BITSTRING	2	SMF57SUB	RECORD SUBTYPE
30	(1E)	BITSTRING	2	SMF57LRR	LENGTH OF REST OF RECORD
30	(1E)	X'18'	0	SMF57STR	"*-SMF57LEN" LENGTH OF HEADING SECTIONS
BEGINNING OF HASP TYPE 57 SYSOUT TRANSMISSION RECRD AFTER 2 HDRS					
32	(20)	CHARACTER	8	SMF57JID	ORIGINAL JOB IDENTIFICATION
40	(28)	CHARACTER	8	SMF57CJD	CURRENT JOB IDENTIFICATION
48	(30)	CHARACTER	8	SMF57ONN	ORIGINAL NODE NAME
56	(38)	CHARACTER	8	SMF57ENN	EXECUTION NODE NAME
64	(40)	CHARACTER	8	SMF57NNN	NEXT NODE NAME
72	(48)	CHARACTER	8	SMF57DVN	SYSOUT TRANSMITTER DEVICE NAME
80	(50)	BITSTRING	4	SMF57TSS	TIME ON SYSOUT TRANSMITTER
84	(54)		4	SMF57DSS	DATE ON SYSOUT TRANSMITTER
88	(58)	BITSTRING	4	SMF57TPS	TIME OFF SYSOUT TRANSMITTER
92	(5C)		4	SMF57DPS	DATE OFF SYSOUT TRANSMITTER
96	(60)	CHARACTER	8	SMF57ACN	NETWORK ACCOUNT NUMBER
104	(68)	CHARACTER	4	SMF57TSI	SYSOUT TRANSMITTER SYSTEM ID
108	(6C)	BITSTRING	4	SMF57CNT	NUMBER OF LOGICAL TP RECORDS
112	(70)	CHARACTER	1	SMF57END(0)	End of type 57 base section
This is the header for all future extensions to the SMF 57 record. Sections beyond this point must be accessed by using the values stored in the triplets (below) that contain the offset, length, and number of sections of the type corresponding to the triplet. New sections will be appended to this header and their presence can be detected by an increase in the number of triplets and by a non-zero section offset, length and number of sections.					
112	(70)	BITSTRING	2	SMF57NTR	NUMBER OF TRIPLETS
114	(72)	BITSTRING	2		RESERVED
114	(72)	X'74'	0	SMF57TRP	"*" BEGINNING OF TRIPLETS
116	(74)	BITSTRING	4	SMF57OSW	OFFSET TO ESS SECTION
120	(78)	BITSTRING	2	SMF57LSW	LENGTH OF ESS SECTION
122	(7A)	BITSTRING	2	SMF57NSW	NUMBER OF ESS SECTIONS
122	(7A)	X'8'	0	SMF57LTP	"*-SMF57TRP" LENGTH OF TRIPLETS
122	(7A)	X'1'	0	SMF57NTP	"SMF57LTP/8" NUMBER OF TRIPLETS
122	(7A)	X'C'	0	SMF57TPL	"*-SMF57NTR" Length of Triplets section and number of triplets

Table 504. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Enhanced SYSOUT Support (ESS) Ssection This section contains the OUTPUT descriptor (if any) in SWBTU format (IEFSJPFX plus text units) for the first offloaded data set included in this SMF record. The SWBTU may be processed using the SWBTUREC macro or other Scheduler JCL Facility (SJF) services.			
124	(7C)	BITSTRING	2	SMF57LN1	LENGTH OF ESS SECTION
126	(7E)	BITSTRING	4	SMF57SGT	SEGMENT IDENTIFIER
130	(82)	BITSTRING	1	SMF57IND	ESS SECTION INDICATOR
		1...		SMF57SJF	"B'10000000'" ERROR OBTAINING SWBTU (SWBTU DATA NOT PRESENT)
131	(83)	BITSTRING	1		RESERVED
132	(84)	CHARACTER	8	SMF57JDT	JDVT NAME
140	(8C)	BITSTRING	2	SMF57TUL	SWBTU DATA AREA LENGTH
142	(8E)	CHARACTER	1	SMF57TU(0)	SWBTU DATA AREA
142	(8E)	X'12'	0	SMF57ESL	"*-SMF57LN1" Length of the fixed portion of the ESS section

```
%IFABGN1: ;
    METHOD OF ACCESS
     PL/S - USER DEFINES MACRO VARIABLE IFARXX WHERE XX=RECORD NUM
            DECLARE SMFXXPTR PTR(31) OR RESPECIFY FOR BASE
            INCLUDE MACRO FROM LIBRARY
             EXAMPLE %IFAR08 = 'YES', NOTE. THE COMMA REP-
                     DCL SMF08PTR PTR(31), RESENTS A SEMI-COLON
                     %INCLUDE SYSLIB(IFASMFR), BUT ISN'T TO AVIOD
                                           A DIAGNOSTIC.
            THIS MACRO PROCESSES RECORDS IN THE RANGE 00-06. IT
            ACTS AS A ROUTER TO OTHER MACROS TO PROCESS OTHER
            RECORDS AS FOLLOWS:
                MACRO RECORDS
               IFASMFR1 07-19
               IFASMFR2 20-27
               IFASMFR3 28-36
               IFASMFR4 37-46
               IFASMFR5 47-54
               IFASMFR6 55-69
               IFASMFR9 80-84
               IFASMFRA 85-103
               IFASMFRB 104-113
               IFASMFRC 114-123
               IFASMFRD 124-127
%GOTO IFABGN2;
  THIS IS AN SMF MACRO WHICH CONTROLS THE BUILDING OF SMF RECORDS. THE
  REQUIRED FORMAT IS
        IFASMFR &RECTYPE
  NOTE: VALUES FOR &RECTYPE MUST BE ENCLOSED IN PARENS(UNLESS ONLY 1)
  MODULE NAME = IAZSMF58
  DESCRIPTIVE NAME = JES SMF NETWORK SIGNOFF RECORD
 SWITCH TO DETERMINE WHETHER TO GENERATE EQUATES FOR WRITING REC
```

8	(8)	X'8'	0	SMFRCD58	"*" START OF RECORD
8	(8)	X'8'	0	SMF58PTR	"*" HEADER SEGMENT
8	(8)	CHARACTER	2	SMF58LEN	RECORD LENGTH
10	(A)	CHARACTER	2	SMF58SEG	SEGMENT DESCRIPTOR
		BEGINNING OF JMR OR HASP SMF RECORD			
12	(C)	BITSTRING	1	SMF58FLG	HEADER FLAG BYTE
13	(D)	BITSTRING	1	SMF58RTY	RECORD TYPE

Table 504. Structure SMF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
14	(E)	BITSTRING	4	SMF58TME	TOD, USING FORMAT FROM TIME MACRO
18	(12)		4	SMF58DTE	DATE IN PACKD DECIMAL FORM 00YYDDDF
22	(16)	CHARACTER	4	SMF58SID	SYSTEM IDENTIFICATION
HEADER FOR HASP SUBSYS RECORD TYPES 58					
22	(16)	X'3A'	0	SMFJ58	"58" NETWORK SIGNOFF REC TYPE
26	(1A)	BITSTRING	2	SMF58SBS	HASP SUBSYSTEM ID
		.... ..1.		SMF58HSP	"X'0002'" JES2 ID
28	(1C)	BITSTRING	2	SMF58SUB	RECORD SUBTYPE
30	(1E)	BITSTRING	2	SMF58LRR	LENGTH OF REST OF RECORD
30	(1E)	X'18'	0	SMF58STR	"*-SMF58LEN" LENGTH OF HEADING SECTIONS
BEGINNING OF HASP TYPE 58 NETWORK SIGNOFF RECORD AFTER TWO HDRS					
32	(20)	CHARACTER	8	SMF58NNM	NODE NAME
40	(28)	BITSTRING	1	SMF58MEM	MEMBER NUMBER
41	(29)	BITSTRING	1	SMF58RV1	RESERVED
42	(2A)	CHARACTER	8	SMF58LNM	LINE NAME
50	(32)	CHARACTER	1	SMF58END(0)	END OF TYPE 58 RECORD
THE FOLLOWING ORGS ENSURE THAT A JES2 SMF BUFFER IS AS LARGE AS THE LARGEST SMF RECORD (PLUS THE BUFFER PREFIX) THAT JES2 WRITES. THE LENGTH OF EACH RECORD, OTHER THAN THE TYPE 6 AND 26, IS HANDLED BY THE FIRST 'ORG ,'. THE TYPE 6 AND 26 CONTAIN SEVERAL SECTIONS, AND THEIR LENGTHS ARE THEREFORE DEFINED USING THE EQUATIONS BELOW.					
272	(110)	SIGNED	4	(0)	
920	(398)	SIGNED	4	(0)	
388	(184)	SIGNED	4	(0)	
920	(398)	SIGNED	4	(0)	
920	(398)	X'398'	0	SMFLNG	"*-SMF" LEN OF LARGEST RECORD

Table 505. Cross Reference for $SMF

Name	Offset	Hex Tag
NJEACCT	BC	
NJEBLDG	CC	
NJEDEPT	C4	
NJEJMR	84	
NJEJMREN	E8	
NJEJMRID	84	D5D1C5D1
NJEJMRLN	8C	
NJEJMRSZ	E8	
NJEJOBNM	90	
NJEJOBNO	8E	
NJEJOBNX	E4	
NJEPRGMR	A0	
NJEROOM	D4	
NJETRANS	E4	
NJEUSRID	B4	

Table 505. Cross Reference for $SMF (continued)

Name	Offset	Hex Tag
NJEXEQN	98	
NJEXEQU	DC	
SMF	0	
SMF	0	
SMF$ESYS	22	80
SMFAPPC	6	1
SMFCBIE	3F	1
SMFCHAIN	0	
SMFCLFLG	6	
SMFJMR	A	C
SMFJMRCH	8	
SMFJMRTP	4	80
SMFJ24	16	18
SMFJ26	D	1A
SMFJ43	D	2B
SMFJ45	D	2D
SMFJ47	D	2F
SMFJ48	D	30
SMFJ49	D	31
SMFJ52	16	34
SMFJ53	16	35
SMFJ54	16	36
SMFJ55	16	37
SMFJ56	16	38
SMFJ57	16	39
SMFJ58	16	3A
SMFJ6	D	6
SMFLEN	8	
SMFLNG	398	398
SMFLNHDR	7	8
SMFLRGTP	4	40
SMFNO26	5	1
SMFPARM	7	
SMFQUED	4	20
SMFRCD24	8	8
SMFRCD26	8	8
SMFRCD43	8	8
SMFRCD45	8	8
SMFRCD47	8	8
SMFRCD48	8	8
SMFRCD49	8	8
SMFRCD52	8	8
SMFRCD53	8	8
SMFRCD54	8	8
SMFRCD55	8	8
SMFRCD56	8	8
SMFRCD57	8	8
SMFRCD58	8	8
SMFRCD6	8	8

Table 505. Cross Reference for $SMF (continued)

Name	Offset	Hex Tag
SMFRDW	8	
SMFSEG	A	
SMFTYPE	4	
SMFWFL26	5	
SMF24AFF	C2	40
SMF24AOF	FC	E8
SMF24BCF	5A	0
SMF24CJD	6C	40404040
SMF24CNT	A4	0
SMF24COM	5B	80
SMF24CON	5A	40
SMF24DDS	AC	0
SMF24DRD	BC	0
SMF24DSN	78	40404040
SMF24DTE	12	C
SMF24EJS	F0	
SMF24EOJ	5B	0
SMF24ESL	10F	12
SMF24FCB	D4	40404040
SMF24FLG	C	0
SMF24FLS	E0	40404040
SMF24FOR	D8	40404040
SMF24FST	5A	80
SMF24GLN	58	0
SMF24GOF	FC	50
SMF24INC	C2	10
SMF24IND	103	
SMF24INJ	5B	20
SMF24JAF	CC	40404040
SMF24JBN	5C	40404040
SMF24JCL	C3	40
SMF24JDT	105	
SMF24JFG	C2	0
SMF24JHL	C2	80
SMF24JID	64	40404040
SMF24JND	C4	40404040
SMF24JR	1E	2
SMF24JRT	C4	
SMF24JT	1E	1
SMF24LEN	8	
SMF24LGN	30	
SMF24LHD	22	1C
SMF24LN	FC	68
SMF24LN1	C0	0
SMF24LN2	C0	0
SMF24LN3	FD	0
SMF24LN4	F8	
SMF24LPS	28	
SMF24LSA	48	

Table 505. Cross Reference for $SMF (continued)

Name	Offset	Hex Tag
SMF24LSP	38	
SMF24LST	5A	20
SMF24LSW	40	
SMF24LS4	F0	0
SMF24L1	FC	30
SMF24L2	FC	3D
SMF24MUL	C2	8
SMF24NGN	32	
SMF24NPS	2A	
SMF24NSA	4A	
SMF24NSP	3A	
SMF24NSW	42	
SMF24NTP	4A	5
SMF24NTR	20	
SMF24OGN	2C	
SMF24OPR	5B	10
SMF24OPS	24	
SMF24ORG	B0	40404040
SMF24OSA	44	
SMF24OSP	34	
SMF24OSW	3C	
SMF24PNM	4E	
SMF24POF	FC	44
SMF24PRD	FC	C
SMF24PRM	E4	40404040
SMF24PRY	FC	0
SMF24PTR	8	8
SMF24PVR	4C	
SMF24REC	F8	0
SMF24RSV	22	
SMF24RS2	56	
SMF24RTY	D	0
SMF24SAC	FC	
SMF24SAL	FC	C
SMF24SAN	F4	
SMF24SBT	C2	40
SMF24SCL	C3	40
SMF24SDS	5B	40
SMF24SEG	A	
SMF24SFG	C2	0
SMF24SGT	FF	
SMF24SHL	C2	80
SMF24SID	16	40404040
SMF24SJF	103	80
SMF24SJH	C2	20
SMF24SND	C4	40404040
SMF24SOF	FC	B8
SMF24SR	1E	4
SMF24SRN	CC	40404040

Table 505. Cross Reference for $SMF (continued)

Name	Offset	Hex Tag
SMF24SRT	C4	
SMF24SSI	1A	
SMF24ST	1E	3
SMF24STS	C	40
SMF24SUB	1E	0
SMF24SYS	74	40404040
SMF24TDS	A8	0
SMF24TME	E	0
SMF24TPS	22	24
SMF24TRD	B8	0
SMF24TRP	4A	28
SMF24TU	10F	
SMF24TUL	10D	
SMF24UCS	EC	40404040
SMF24WID	F0	40404040
SMF248CL	E8	40404040
SMF26ACP	38	100
SMF26ACT	70	
SMF26AC1	C0	
SMF26ASP	36	5
SMF26ATU	38	2000
SMF26BCH	3E	80
SMF26CID	4E	
SMF26CLN	B8	
SMF26CLS	61	
SMF26CON	A4	20
SMF26CPD	52	
SMF26CPT	4E	
SMF26CPY	3E	2
SMF26CSD	4A	
SMF26CST	46	
SMF26CYP	88	
SMF26DDT	B4	
SMF26DES	38	8000
SMF26DEV	68	
SMF26DJC	3E	80
SMF26DJE	3E	1
SMF26DJO	3E	2
SMF26DLJ	3E	40
SMF26DLM	3E	20
SMF26DTE	12	
SMF26DTM	B0	
SMF26DTY	84	
SMF26EBT	3C	
SMF26EFM	4C	
SMF26EIR	3F	4
SMF26ELN	7C	
SMF26EPG	44	
SMF26EPU	80	

Table 505. Cross Reference for $SMF (continued)

Name	Offset	Hex Tag
SMF26EVT	38	4000
SMF26FLG	C	
SMF26FRM	84	
SMF26FTS	3E	40
SMF26HSP	36	2
SMF26ICD	3E	
SMF26IGP	88	
SMF26IND	38	
SMF26INF	3F	
SMF26INR	3C	
SMF26IN2	3E	
SMF26IN3	3E	
SMF26IX2	64	
SMF26JAF	5A	
SMF26JBF	3E	1
SMF26JBN	1A	
SMF26JCP	3F	80
SMF26JCR	54	
SMF26JDL	64	80
SMF26JID	44	
SMF26JNM	40	
SMF26JOL	64	40
SMF26JXP	38	400
SMF26J2D	80	84
SMF26J2R	38	800
SMF26J3D	84	84
SMF26LA	C0	40
SMF26LAG	40	
SMF26LEN	8	
SMF26LIN	8A	
SMF26LJC	50	
SMF26LN	C0	32
SMF26LN1	3A	
SMF26LN2	3A	
SMF26LN3	3A	
SMF26LN4	3A	
SMF26LN5	3A	
SMF26LN6	3A	
SMF26LN7	3A	
SMF26LN8	BD	
SMF26LOC	66	
SMF26LPN	64	20
SMF26LWL	48	
SMF26L1	C0	5E
SMF26L10	C0	83
SMF26L2	C0	3C
SMF26L3	C0	20
SMF26L4	C0	68
SMF26L5	C0	E

Table 505. Cross Reference for $SMF (continued)

Name	Offset	Hex Tag
SMF26L6	C0	1A
SMF26L7	C0	1A
SMF26L9	C0	29
SMF26MRE	3F	2
SMF26MSG	60	
SMF26NAC	52	
SMF26NAG	42	
SMF26NAM	4C	
SMF26NDV	62	
SMF26NET	A8	
SMF26NID	3E	
SMF26NJB	5A	
SMF26NJC	52	
SMF26NJE	3E	4
SMF26NJI	A0	
SMF26NJO	98	
SMF26NJX	3E	8
SMF26NLG	3F	10
SMF26NLN	82	
SMF26NN	92	
SMF26NNM	7A	
SMF26NOJ	3E	10
SMF26NON	6A	
SMF26NOU	3E	8
SMF26NPD	4E	
SMF26NPT	4A	
SMF26NRA	BF	
SMF26NSD	46	
SMF26NST	42	
SMF26NTW	38	1000
SMF26NU	9A	
SMF26NWL	4A	
SMF26NXN	72	
SMF26OAG	3C	
SMF26OID	56	
SMF26OJC	4C	
SMF26OPC	3F	1
SMF26OPD	72	
SMF26OPS	65	
SMF26OPT	6E	
SMF26OSD	6A	
SMF26OST	66	
SMF26OWL	44	
SMF26PDD	90	
SMF26PD3	90	
SMF26PRD	40	
SMF26PRJ	3E	10
SMF26PRR	8C	
SMF26PTR	8	8

Table 505. Cross Reference for $SMF (continued)

Name	Offset	Hex Tag
SMF26PUD	44	
SMF26PUR	8E	
SMF26RID	4A	
SMF26ROM	74	
SMF26RPD	42	
SMF26RPT	3E	
SMF26RSD	26	
SMF26RST	22	
SMF26RSV	32	
SMF26RTY	D	
SMF26RVA	70	
SMF26RV1	3C	
SMF26RV2	3C	
SMF26RV4	3C	
SMF26RV5	3C	
SMF26RV6	85	
SMF26RV8	64	
SMF26R02	38	200
SMF26SBS	36	
SMF26SCN	3E	4
SMF26SEG	A	
SMF26SID	16	
SMF26SJB	A4	40
SMF26SRC	E8	
SMF26STK	3E	20
SMF26STU	3F	40
SMF26SUI	8A	
SMF26SZ1	C0	10
SMF26SZ2	C0	4C
SMF26SZ3	C0	8
SMF26SZ4	C0	4
SMF26SZ5	C0	4F
SMF26TLN	C0	17C
SMF26TME	E	
SMF26TRH	3F	20
SMF26UIF	2A	
SMF26WCL	94	
SMF26WIN	A4	
SMF26WJC	A5	
SMF26WLM	A4	80
SMF26WOC	9C	
SMF26WSE	AD	
SMF26XBC	3F	8
SMF26XBT	40	
SMF26XID	52	
SMF26XLN	42	
SMF26XPD	62	
SMF26XPG	48	
SMF26XPI	62	

Table 505. Cross Reference for $SMF (continued)

Name	Offset	Hex Tag
SMF26XPS	63	
SMF26XPT	5E	
SMF26XPU	46	
SMF26XSD	5A	
SMF26XST	56	
SMF26XTM	78	
SMF26XWR	64	10
SMF43ANL	22	10
SMF43CLD	22	80
SMF43DSI	22	1
SMF43DTE	12	
SMF43EID	24	
SMF43END	3E	
SMF43FLG	C	
SMF43GBL	22	8
SMF43HOT	22	20
SMF43HSP	1A	2
SMF43INT	28	40404040
SMF43LCL	22	4
SMF43LEN	8	
SMF43LRR	1E	
SMF43L1	28	20
SMF43L2	28	8
SMF43NMU	25	
SMF43OPT	23	
SMF43ORG	26	
SMF43PJ3	2E	
SMF43PRC	20	40404040
SMF43PTR	8	8
SMF43REF	22	2
SMF43RST	22	
SMF43RSV	1C	
SMF43RTY	D	
SMF43RVJ	32	
SMF43RVU	3A	
SMF43RV1	20	
SMF43RV2	23	
SMF43SBG	22	23
SMF43SBP	1E	20
SMF43SBS	1A	
SMF43SEG	A	
SMF43SID	16	
SMF43SIZ	3E	
SMF43TME	E	
SMF43UNT	26	26
SMF43UN4	26	26
SMF43US1	24	
SMF43WRM	22	40
SMF45ABN	20	80

Table 505. Cross Reference for $SMF (continued)

Name	Offset	Hex Tag
SMF45ABT	28	20
SMF45ATM	20	80
SMF45DSI	20	40
SMF45DTE	12	
SMF45END	32	
SMF45FG1	20	
SMF45FLG	C	
SMF45HLT	28	80
SMF45HSP	1A	2
SMF45IND	20	
SMF45JCC	22	
SMF45J3C	21	
SMF45LEN	8	
SMF45LRR	1E	
SMF45L1	2C	1C
SMF45L2	2C	4
SMF45NOS	28	10
SMF45NUL	2C	
SMF45OPS	28	40
SMF45PRC	20	40404040
SMF45PTR	8	8
SMF45RSV	1C	
SMF45RTY	D	
SMF45RVJ	26	
SMF45RVU	2E	
SMF45RV1	24	
SMF45SBG	1E	20
SMF45SBS	1A	
SMF45SEG	A	
SMF45SID	16	
SMF45SIZ	32	
SMF45STF	28	
SMF45TME	E	
SMF45UID	29	
SMF45US1	25	
SMF47CWK	20	20
SMF47DPL	34	
SMF47DSL	30	
SMF47DTE	12	
SMF47END	6E	
SMF47EVT	20	
SMF47FLG	C	
SMF47HSP	1A	2
SMF47JID	28	
SMF47LAA	2E	
SMF47LCF	20	
SMF47LEN	8	
SMF47LIN	2C	
SMF47LN1	22	

Table 505. Cross Reference for $SMF (continued)

Name	Offset	Hex Tag
SMF47LN2	3C	
SMF47LON	20	4
SMF47LRR	1E	
SMF47LTC	24	
SMF47L1	20	1A
SMF47L2	20	26
SMF47L3	20	5A
SMF47L4	20	34
SMF47MSG	3E	
SMF47PCI	2F	
SMF47PLI	25	
SMF47PSW	34	
SMF47PTR	8	8
SMF47RMT	24	
SMF47RSV	1C	
SMF47RTY	D	
SMF47RVJ	62	
SMF47RVU	6A	
SMF47SBG	1E	20
SMF47SBS	1A	
SMF47SEG	A	
SMF47SID	16	
SMF47SIZ	6E	
SMF47SON	20	1
SMF47SPA	20	4
SMF47STL	20	2
SMF47TME	E	
SMF47UID	21	
SMF47ULK	20	1
SMF47UNL	20	80
SMF48ADP	58	
SMF48AD4	5B	
SMF48CAN	20	2
SMF48CDH	4C	
SMF48CNI	20	40
SMF48CNT	28	
SMF48CPD	44	
SMF48CPG	20	10
SMF48CPU	24	
SMF48CT	58	14
SMF48CTD	48	
SMF48CTH	2C	
SMF48CWK	20	20
SMF48DCK	44	
SMF48DID	54	
SMF48DIO	34	
SMF48DSL	3C	
SMF48DSP	40	
SMF48DTE	12	

Table 505. Cross Reference for $SMF (continued)

Name	Offset	Hex Tag
SMF48END	67	
SMF48ERR	4C	
SMF48ERS	40	
SMF48EVT	20	
SMF48FLG	C	
SMF48FLS	20	
SMF48HSI	20	8
SMF48HSP	1A	2
SMF48IO	3C	
SMF48LAA	50	
SMF48LA4	53	
SMF48LEN	8	
SMF48LIN	2C	
SMF48LOF	20	4
SMF48LRR	1E	
SMF48L1	58	4F
SMF48NAK	40	
SMF48NKS	46	
SMF48OUT	48	
SMF48PSW	34	
SMF48PTR	8	8
SMF48RMT	24	
SMF48RPI	20	80
SMF48RSV	1C	
SMF48RTY	D	
SMF48RVJ	5F	
SMF48RVU	63	
SMF48RV1	22	
SMF48SBG	34	3C
SMF48SBP	1E	20
SMF48SBS	1A	
SMF48SEG	A	
SMF48SID	16	
SMF48SIZ	67	
SMF48SOF	20	1
SMF48SPA	20	4
SMF48S0	48	
SMF48S1	49	
SMF48S2	4A	
SMF48S3	4B	
SMF48S4	4C	
SMF48S5	4D	
SMF48S6	4E	
SMF48TID	58	
SMF48TIO	38	
SMF48TME	E	
SMF48TOT	44	
SMF48TRN	3C	
SMF48UID	21	

Table 505. Cross Reference for $SMF (continued)

Name	Offset	Hex Tag
SMF48ULK	20	1
SMF48USR	4F	
SMF48VIR	30	
SMF48VSD	50	
SMF48XCP	3C	
SMF49BND	20	8
SMF49DEF	20	6
SMF49DTE	12	
SMF49END	62	
SMF49EVT	20	
SMF49FLG	C	
SMF49FLN	28	
SMF49LEN	8	
SMF49LER	20	4
SMF49LIM	20	5
SMF49LIN	2C	
SMF49LNA	23	
SMF49LN1	22	
SMF49LN2	3C	
SMF49LRR	1E	
SMF49L1	20	1A
SMF49L2	20	26
SMF49L3	20	5A
SMF49MSG	3E	
SMF49NER	20	1
SMF49PER	20	2
SMF49PSW	34	
SMF49PTR	8	8
SMF49RMT	24	
SMF49RSV	1C	
SMF49RTY	D	
SMF49RV1	26	
SMF49SBG	1E	20
SMF49SBS	1A	
SMF49SEG	A	
SMF49SID	16	
SMF49SIZ	62	
SMF49SON	20	1
SMF49SPW	20	7
SMF49STL	20	2
SMF49TER	20	8
SMF49TME	E	
SMF49UFO	34	
SMF49VID	20	
SMF52DTE	12	C
SMF52END	46	
SMF52FLG	C	0
SMF52IDL	22	0
SMF52IDN	24	0

Table 505. Cross Reference for $SMF (continued)

Name	Offset	Hex Tag
SMF52IDO	20	0
SMF52IDS	2E	
SMF52LEN	8	
SMF52LID	46	18
SMF52LIN	36	40404040
SMF52LON	26	1
SMF52LPR	46	8
SMF52OFI	46	26
SMF52OFP	46	1E
SMF52POF	1A	0
SMF52PRL	1C	0
SMF52PRN	1E	0
SMF52PSW	3E	40404040
SMF52PTR	8	8
SMF52RMT	2E	40404040
SMF52RTY	D	0
SMF52SEG	A	
SMF52SID	16	40404040
SMF52SLN	26	2
SMF52SUB	26	0
SMF52SYS	2A	D1C5E2F2
SMF52TME	E	0
SMF52VER	28	F0F1
SMF53ADP	5A	E2D5C1
SMF53CTR	46	0
SMF53DTE	12	C
SMF53END	5D	
SMF53FLG	C	0
SMF53IDL	22	0
SMF53IDN	24	0
SMF53IDO	20	0
SMF53IDS	2E	
SMF53LEN	8	
SMF53LID	5D	2F
SMF53LIN	36	40404040
SMF53LOF	26	1
SMF53LPR	5D	8
SMF53OFI	5D	26
SMF53OFP	5D	1E
SMF53PLN	26	2
SMF53PRL	1C	0
SMF53PRN	1E	0
SMF53PRO	1A	0
SMF53PSW	3E	40404040
SMF53PTR	8	8
SMF53RMT	2E	40404040
SMF53RTY	D	0
SMF53SEG	A	
SMF53SID	16	40404040

Table 505. Cross Reference for $SMF (continued)

Name	Offset	Hex Tag
SMF53SUB	26	0
SMF53SYS	2A	D1C5E2F2
SMF53TME	E	0
SMF53VER	28	F0F1
SMF54DTE	12	C
SMF54END	46	
SMF54FLG	C	0
SMF54IDL	22	0
SMF54IDN	24	0
SMF54IDO	20	0
SMF54IDS	2E	
SMF54LEN	8	
SMF54LON	26	1
SMF54POF	1A	0
SMF54PRL	1C	0
SMF54PRN	1E	0
SMF54PSW	3E	40404040
SMF54PTR	8	8
SMF54RMT	2E	40404040
SMF54RPW	36	40404040
SMF54RTY	D	0
SMF54SEG	A	
SMF54SID	16	40404040
SMF54SUB	26	0
SMF54SYS	2A	D1C5E2F2
SMF54TME	E	0
SMF54VER	28	F0F1
SMF55BSZ	42	0
SMF55CON	29	40
SMF55DTE	12	C
SMF55END	46	
SMF55EN2	D7	
SMF55FG1	29	0
SMF55FLG	C	0
SMF55HNM	58	40404040
SMF55HSP	1A	2
SMF55IPA	46	0
SMF55LEN	8	
SMF55LNM	3A	40404040
SMF55LPW	2A	40404040
SMF55LRR	1E	0
SMF55MEM	28	0
SMF55NNM	20	40404040
SMF55NPW	32	40404040
SMF55PRT	56	0
SMF55PTR	8	8
SMF55RSO	29	80
SMF55RTY	D	0
SMF55SBS	1A	2

Table 505. Cross Reference for $SMF (continued)

Name	Offset	Hex Tag
SMF55SEC	29	20
SMF55SEG	A	
SMF55SID	16	40404040
SMF55STR	1E	18
SMF55SUB	1C	0
SMF55TME	E	0
SMF56BSZ	42	0
SMF56CON	29	40
SMF56DTE	12	C
SMF56END	46	
SMF56EN2	D7	
SMF56FG1	29	0
SMF56FLG	C	0
SMF56HNM	58	40404040
SMF56HSP	1A	2
SMF56IPA	46	0
SMF56LEN	8	
SMF56LNM	3A	40404040
SMF56LPW	2A	40404040
SMF56LRR	1E	0
SMF56MEM	28	0
SMF56NNM	20	40404040
SMF56NPW	32	40404040
SMF56PRT	56	0
SMF56PTR	8	8
SMF56RSO	29	80
SMF56RTY	D	0
SMF56SBS	1A	2
SMF56SEC	29	20
SMF56SEG	A	
SMF56SID	16	40404040
SMF56SUB	1C	0
SMF56TME	E	0
SMF57ACN	60	40404040
SMF57CJD	28	40404040
SMF57CNT	6C	0
SMF57DPS	5C	C
SMF57DSS	54	C
SMF57DTE	12	C
SMF57DVN	48	40404040
SMF57END	70	
SMF57ENN	38	40404040
SMF57ESL	8E	12
SMF57FLG	C	0
SMF57HSP	1A	2
SMF57IND	82	
SMF57JDT	84	
SMF57JID	20	40404040
SMF57LEN	8	

Table 505. Cross Reference for $SMF (continued)

Name	Offset	Hex Tag
SMF57LN1	7C	
SMF57LRR	1E	0
SMF57LSW	78	
SMF57LTP	7A	8
SMF57NNN	40	40404040
SMF57NSW	7A	
SMF57NTP	7A	1
SMF57NTR	70	
SMF57ONN	30	40404040
SMF57OSW	74	
SMF57PTR	8	8
SMF57RTY	D	0
SMF57SBS	1A	2
SMF57SEG	A	
SMF57SGT	7E	
SMF57SID	16	40404040
SMF57SJF	82	80
SMF57STR	1E	18
SMF57SUB	1C	0
SMF57TME	E	0
SMF57TPL	7A	C
SMF57TPS	58	0
SMF57TRP	72	74
SMF57TSI	68	40404040
SMF57TSS	50	0
SMF57TU	8E	
SMF57TUL	8C	
SMF58DTE	12	C
SMF58END	32	
SMF58FLG	C	0
SMF58HSP	1A	2
SMF58LEN	8	
SMF58LNM	2A	40404040
SMF58LRR	1E	0
SMF58MEM	28	0
SMF58NNM	20	40404040
SMF58PTR	8	8
SMF58RTY	D	0
SMF58RV1	29	0
SMF58SBS	1A	2
SMF58SEG	A	
SMF58SID	16	40404040
SMF58STR	1E	18
SMF58SUB	1C	0
SMF58TME	E	0
SMF6APAL	77	
SMF6APA1	77	1
SMF6BID	6B	
SMF6BIN	74	

Table 505. Cross Reference for $SMF (continued)

Name	Offset	Hex Tag
SMF6BIN1	74	80
SMF6BIN2	74	40
SMF6BIN3	74	20
SMF6BIN4	74	10
SMF6BNCT	9	
SMF6BNLE	C	
SMF6BNLN	8	
SMF6BNNO	8	
SMF6BNOF	4A	
SMF6BNUM	A	
SMF6BNWI	E	
SMF6BTS	6B	80
SMF6BYTE	4A	
SMF6CCE	64	2
SMF6CHR	52	
SMF6CPS	4A	
SMF6CSP	6B	20
SMF6DCI	4A	
SMF6DCRV	4A	80
SMF6DDNM	7E	
SMF6DEND	EA	
SMF6DFE	64	
SMF6DIE	3F	4
SMF6DPGL	75	10
SMF6DPLS	76	10
SMF6DSIZ	EA	
SMF6DSNM	9E	
SMF6DTE	12	C
SMF6DUPS	75	80
SMF6DUPT	75	40
SMF6EEND	5A	
SMF6EFMN	4E	
SMF6END	7C	
SMF6END2	66	
SMF6ESIZ	5A	
SMF6ESS1	45	10
SMF6FCB	58	
SMF6FDNM	84	
SMF6FEET	68	
SMF6FEND	6C	
SMF6FEXT	45	80
SMF6FLC	6A	
SMF6FLG	C	0
SMF6FLG3	76	
SMF6FLI	66	
SMF6FMDF	70	
SMF6FMN	41	40404040
SMF6FONT	4C	
SMF6FSIZ	6C	

Table 505. Cross Reference for $SMF (continued)

Name	Offset	Hex Tag
SMF6FTFR	45	8
SMF6FTL	52	
SMF6FTL1	52	1
SMF6GRP	68	
SMF6IGER	75	1
SMF6IMPS	64	
SMF6IND	4E	
SMF6INDC	4B	
SMF6INT	4A	1
SMF6IOE	3F	0
SMF6IP1	4E	
SMF6IP2	4F	
SMF6IP3	50	
SMF6IP4	51	
SMF6JBID	66	
SMF6JBN	1A	40404040
SMF6JDVT	50	
SMF6JHPP	76	40
SMF6JNM	4C	
SMF6JTPP	76	20
SMF6J2L3	4B	3
SMF6J2L4	4B	4
SMF6J2S	60	64
SMF6J3L3	4B	3
SMF6J3L4	4B	4
SMF6J3S	64	64
SMF6LEN	8	
SMF6LEV2	4B	1
SMF6LEV3	4B	1
SMF6LEV4	4B	5
SMF6LEV6	4B	6
SMF6LEV7	4B	7
SMF6LFNT	50	
SMF6LN1	48	
SMF6LN2	48	
SMF6LN3	48	
SMF6LN4	48	
SMF6LN5	48	
SMF6LN6	48	
SMF6LOLY	58	
SMF6LPGE	BC	
SMF6LPSG	60	
SMF6LSIZ	7C	
SMF6MID	62	
SMF6NDS	40	0
SMF6NLR	3B	0
SMF6NSFO	7C	
SMF6NSOL	78	
SMF6NSPS	80	

Table 505. Cross Reference for $SMF (continued)

Name	Offset	Hex Tag
SMF6OCN	4A	20
SMF6OCNM	9C	
SMF6OPJ	6B	40
SMF6OPR	66	
SMF6OR	4A	8
SMF6ORD	4A	10
SMF6OSS	4A	2
SMF6OTOK	D6	
SMF6OUT	50	
SMF6OVLY	54	
SMF6OWC	32	40
SMF6PAD1	45	0
SMF6PDNM	8C	
SMF6PGDF	6C	
SMF6PGE	60	
SMF6PGOP	75	
SMF6PGSG	5C	
SMF6PQLN	5E	
SMF6PRMD	96	
SMF6PRNM	76	
SMF6PRTQ	60	
SMF6PTDV	94	
SMF6RBE	64	1
SMF6REND	56	
SMF6RES	4A	
SMF6REXT	45	40
SMF6ROR	4A	4
SMF6ROUT	4A	
SMF6RSD	26	C
SMF6RSIZ	56	
SMF6RST	22	0
SMF6RSV	4F	
SMF6RSVJ	70	
SMF6RSVU	78	
SMF6RTE	64	
SMF6RTY	D	0
SMF6SBS	46	
SMF6SDS	4A	40
SMF6SECS	8E	
SMF6SEG	A	
SMF6SEND	C0	
SMF6SETU	9C	
SMF6SEXT	45	20
SMF6SGID	4A	
SMF6SID	16	40404040
SMF6SIZ	7C	
SMF6SIZ2	66	
SMF6SIZ3	66	
SMF6SJF	4E	80

Table 505. Cross Reference for $SMF (continued)

Name	Offset	Hex Tag
SMF6SLIG	76	80
SMF6SOER	75	2
SMF6SPGL	75	4
SMF6SSIZ	C0	
SMF6STNM	6E	
SMF6SUCC	75	8
SMF6SYSA	75	20
SMF6TEND	78	
SMF6TME	E	0
SMF6TSIZ	78	
SMF6TU	5A	
SMF6TUL	58	
SMF6UCS	5C	
SMF6UIF	2A	40404040
SMF6UPAS	76	8
SMF6URI	78	
SMF6URIL	5C	
SMF6USID	86	
SMF6WSD	37	C
SMF6WST	33	0

Chapter 205. $SNFWORK Information

$SNFWORK Heading Information

Common Name:	JES2 SPOOL Sniffer Work Area
Macro ID:	$SNFWORK
DSECT Name:	PCE ($SNFWORK is part of the PCE DSECT)
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4
Storage Attributes:	Subpool: See $PCE Key: See $PCE Residency: See $PCE
Size:	See symbol SNWPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by:	See $PCE
Pointed to by:	The $SNFPCE field of the $HCT data area See $PCE for other pointer fields that apply to all PCE types.
Serialization:	Normal PCE dispatch serialization
Function:	The fields in this area are used by the JES2 SPOOL Management Processor and by its support routines and exits. $SNFWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $SNFWORK are actually part of the PCE DSECT, but only map PCEs with the value PCESNFID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

$SNFWORK mapping

Table 506. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
320	(140)	BITSTRING	6	SNWLSNIF(0)	Extent, offset within extent and bit within byte of last sniffed
326	(146)	BITSTRING	2		Reserved for future use
328	(148)	ADDRESS	4	SNWQUEUE	Anchor for immediate work to do queue
332	(14C)	BITSTRING	1	SNWFLAG1	Flags
		..1.		SNW1BADT	"B'00100000'" Sniffing bad trackgroup
		.... 1...		SNW1MFID	"B'00001000'" Inactive DAS found during examination of DASes for mini fmt
333	(14D)	BITSTRING	3		Available for use by IBM
336	(150)	SIGNED	4		Reserved for future use
340	(154)	BITSTRING	12	SNWTQE	TQE for SNFWAIT processing

Table 506. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
352	(160)	BITSTRING	5	SNWMQT	MQT for next sniffing
357	(165)	BITSTRING	1		Reserved for future use
		The following field represents the MOOB (extent offset bit) of the track group of a DAS whose DAS3EFWZ flag is off. This track group signature record will be re-written with zeros if its SIGJBKEY field in signature record contains FFs and TG is not allocated.			
358	(166)	BITSTRING	6	SNWMFMOB	Extent number, Extent TG offset and bit of track group of a DAS whose DAS3EFWZ is off(will be mini reformatted with zeros)
368	(170)	DBL WORD	8	(0)	Force double-word alignment
368	(170)	X'30'	0	SNWPCEWS	"*-PCEWORK" Length of work area

Table 507. Cross Reference for $SNFWORK

Name	Offset	Hex Tag
PCE	0	
SNWFLAG1	14C	
SNWLSNIF	140	
SNWMFMOB	166	
SNWMQT	160	
SNWPCEWS	170	30
SNWQUEUE	148	
SNWTQE	154	
SNW1BADT	14C	20
SNW1MFID	14C	8

Chapter 206. $SPIWORK Information

$SPIWORK Heading Information

Common Name:	JES2 Sysout API Work Area
Macro ID:	$SPIWORK
DSECT Name:	PCE ($SPIWORK is part of the PCE DSECT)
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4
Storage Attributes:	Subpool: See $PCE Key: See $PCE Residency: See $PCE
Size:	See symbol SPIWKSIZ for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by:	See $PCE
Pointed to by:	The $SPIPCE field of the $HCT data area points into the $PCEORG/$PCELAST chain to the first SYSOUT API PCE. Since this chain contains all PCEs, use the PCEID field to determine when you have chained past the last PCE of this type. See $PCE for other pointer fields that apply to all PCE types.
Serialization:	Normal PCE dispatch serialization
Function:	The fields in this work area are used by a JES2 Sysout API Processor and by its support routines and exits. $SPIWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $SPIWORK are actually part of the PCE DSECT, but only map PCEs with the value PCESPIID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

$SPIWORK mapping

Table 508. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
320	(140)	BITSTRING	228	SPIWS	WS EBCDIC list
548	(224)	SIGNED	4	SPIWKOFF	Offset of work JOE
552	(228)	SIGNED	2	SPI#PDDB	Number of PDDBs processed in SSI
554	(22A)	SIGNED	2	SPIPDDB#	Number of PDDBs processed in SASR
556	(22C)	BITSTRING	1	SPIFLAG1	Copy of SAPFLAG1
557	(22D)	BITSTRING	1	SPIFLAGJ	Copy of SAPFLAGJ
558	(22E)	BITSTRING	1	SPIFLAGS	Local (SASR) flags

Table 508. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		SPISDISC	"B'10000000'" Discard the data sets that have been processed in this JOE
		.1..		SPISDUPJ	"B'01000000'" Caller wants to reject job if there is another with same name
		..1.		SPISJOE	"B'00100000'" JOE handled by SAIDISP
		...1		SPISJLOK	"B'00010000'" SAIDISP has job lock
559	(22F)	CHARACTER	1	SPIMCLAS	Message class of job
560	(230)	BITSTRING	1	SPIFLAG3	Copy of SAPFLAG3
561	(231)	BITSTRING	1	SPIFLAG2	Copy of SAPFLAG2
562	(232)	BITSTRING	10		Reserved for future use
572	(23C)	SIGNED	4	SPIWRNUM	Thread level value used for JWEL proc
576	(240)	BITSTRING	8	SPIWRASI	Address space level value used for JWEL processing
584	(248)	BITSTRING	3	SPIDEVID	Device ID
587	(24B)	BITSTRING	1	SPIFLGJ2	Copy of SAPFLGJ2
588	(24C)	SIGNED	4	SPIRECCT	PDDB record count
592	(250)	SIGNED	4	SPIPGCT	PDDB page count
596	(254)	SIGNED	4	SPIOJOE	Offset of prior JOE
600	(258)	SIGNED	4	SPIOCRTM	Create time of JOE
604	(25C)	BITSTRING	192	SPIRGRPM	Parameter list for TREGROUP
796	(31C)	BITSTRING	180	SPIWKJOA	Temporary JOA
976	(3D0)	SIGNED	4	SPIXECB(0)	SAPID queue mod ENQ ECB
1000	(3E8)	SIGNED	4	SPIENQST(0)	True start of ENQ list
MACRO-DATE = 03/16/15					
1000	(3E8)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
1000	(3E8)	ADDRESS	4		PREFIX - ECB ADDRESS
1000	(3E8)	X'3EC'	0	SPIENQPL	"*" X02113
1004	(3EC)	ADDRESS	1		PELLAST flag byte. X02113
1005	(3ED)	ADDRESS	1		PELMILEN - RNAME length.
1006	(3EE)	BITSTRING	1		
				PELFLAG - flag byte 2.	
1007	(3EF)	ADDRESS	1		PELRET - return code byte.
1008	(3F0)	ADDRESS	4		QNAME ADDRESS
1012	(3F4)	ADDRESS	4		RNAME ADDRESS
1012	(3F4)	X'3E8'	0	SPIENQL	"SPIENQST,*-SPIENQST" ENQ parm length, IPCS use
1016	(3F8)	SIGNED	4	SPIDEQST(0)	True start of DEQ list
MACRO-DATE = 03/16/2015					
1016	(3F8)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
1016	(3F8)	X'3F8'	0	SPIDEQPL	"*" X02113
1016	(3F8)	ADDRESS	1		PELLAST flag byte. X02113
1017	(3F9)	ADDRESS	1		PELMILEN - RNAME length.
1018	(3FA)	BITSTRING	1		
				PELFLAG - flag byte 2.	
1019	(3FB)	ADDRESS	1		PELRET - return code byte.

Table 508. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1020	(3FC)	ADDRESS	4		QNAME ADDRESS
1024	(400)	ADDRESS	4		RNAME ADDRESS
1024	(400)	X'3F8'	0	SPIDEQL	"SPIDEQST,*-SPIDEQST" DEQ parm length, IPCS use
1028	(404)	ADDRESS	4	SPIIOT	Address of IOT buffer
1032	(408)	BITSTRING	4	SPIJBKEY	Job key
1036	(40C)	BITSTRING	6	SPIANCHR	MQTR of first regular IOT
1042	(412)	BITSTRING	50	SPIPRTBL	Room for PRMODE table
1092	(444)	SIGNED	1	SPITYPE	Type of SSI call (See SSS2TYPE in IAZSSS2)
1093	(445)	BITSTRING	1		Reserved for future use
1096	(448)	ADDRESS	4	(0)	Align on full word
1096	(448)	CHARACTER	8	SPIAJOBN	Application jobname
1104	(450)	CHARACTER	8	SPIAJOBI	Application jobid
1112	(458)	CHARACTER	8	SPIACHKY	Application CSCB CHKEY
1120	(460)	BITSTRING	4	SPIIOTF	MTTR of first IOT in JOE
1124	(464)	SIGNED	2	SPIPDDBF	PDDB offset of first PDDB in JOE
1126	(466)	BITSTRING	2		Reserved for future use
1128	(468)	CHARACTER	8	SPITHRED	Thread name (from SSS2APPL)
1136	(470)	ADDRESS	4	SPIJOA	Address of BERT locked JOA
1140	(474)	ADDRESS	4	SPIMTRB	Address of current MTRB
1144	(478)	DBL WORD	8	(0)	Align on a double word
1144	(478)	BITSTRING	32	SPILSTPR	Perf data when MTRB select
1176	(498)	BITSTRING	32	SPICURPR	Perf data when MTRB return
1208	(4B8)	DBL WORD	8	SPIGETCP	CPU time for $#GET
1216	(4C0)	CHARACTER	17	SPIDEVN	Current SAPI device name
1233	(4D1)	BITSTRING	1	SPIRLFLG	Flags set in ROTESFL1
1234	(4D2)	BITSTRING	2		Reserved
1236	(4D4)	SIGNED	4	SPIIOCNT	I/O count field
1240	(4D8)	DBL WORD	8	SPIRQUET	$RQUE queue time
1248	(4E0)	DBL WORD	8	(0)	Multiple Double words long
1248	(4E0)	X'3A0'	0	SPIWKSIZ	"*-PCEWORK" LENGTH OF PSO PCE WORK AREA

Table 509. Cross Reference for $SPIWORK

Name	Offset	Hex Tag
PCE	0	
SPI#PDDB	228	
SPIACHKY	458	
SPIAJOBI	450	
SPIAJOBN	448	
SPIANCHR	40C	
SPICURPR	498	
SPIDEQL	400	3F8
SPIDEQPL	3F8	3F8
SPIDEQST	3F8	
SPIDEVID	248	
SPIDEVN	4C0	
SPIENQL	3F4	3E8
SPIENQPL	3E8	3EC

Table 509. Cross Reference for $SPIWORK (continued)

Name	Offset	Hex Tag
SPIENQST	3E8	
SPIFLAGJ	22D	
SPIFLAGS	22E	
SPIFLAG1	22C	
SPIFLAG2	231	
SPIFLAG3	230	
SPIFLGJ2	24B	
SPIGETCP	4B8	
SPIIOCNT	4D4	
SPIIOT	404	
SPIIOTF	460	
SPIJBKEY	408	
SPIJOA	470	
SPILSTPR	478	
SPIMCLAS	22F	
SPIMTRB	474	
SPIOCRTM	258	
SPIOJOE	254	
SPIPDDB#	22A	
SPIPDDBF	464	
SPIPGCT	250	
SPIPRTBL	412	
SPIRECCT	24C	
SPIRGRPM	25C	
SPIRLFLG	4D1	
SPIRQUET	4D8	
SPISDISC	22E	80
SPISDUPJ	22E	40
SPISJLOK	22E	10
SPISJOE	22E	20
SPITHRED	468	
SPITYPE	444	
SPIWKJOA	31C	
SPIWKOFF	224	
SPIWKSIZ	4E0	3A0
SPIWRASI	240	
SPIWRNUM	23C	
SPIWS	140	
SPIXECB	3D0	

Chapter 207. $SPMWORK Information

$SPMWORK Programming Interface Information

$SPMWORK is a programming interface.

$SPMWORK Heading Information

Common Name: JES2 Spool Manager Work Area
Macro ID: $SPMWORK
DSECT Name: PCE ($SPMWORK is part of the PCE DSECT)
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'PCE '
Offset: PCEEYE-PCE
Length: 4
Storage Attributes: Subpool: See $PCE
Key: See $PCE
Residency: See $PCE

Size: See symbol SPMLNGTH for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by: See $PCE
Pointed to by: The $SPOLPCE field of the $HCT data area points to the spool manager PCE.
See $PCE for other pointer fields that apply to all PCE types.
Serialization: Normal PCE dispatch serialization
Function: The fields in this work area are used by the JES2 spool manager PCE. $SPMWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $SPMWORK are actually part of the PCE DSECT, but only map PCEs with the value PCESPMID in the second byte of field PCEID.
This PCE is not device related. Field PCEDCT is zero.

$SPMWORK mapping

Table 510. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	HASP SPOOL MANAGER PROCESSOR
320	(140)	BITSTRING	1	SPMXECB	XECB TO POST SPOOL MANAGER PCE
	SMMOVER - MOVE ROUTINE WORK AREA				
344	(158)	ADDRESS	4	SPMJCTBF	POINTER TO JCT BUFFER
348	(15C)	ADDRESS	4	SPMALLOC	POINTER TO ALLOCATION IOT BUFFER
352	(160)	ADDRESS	4	SPMIOTBF	POINTER TO SECONDARY IOT BUFFER
356	(164)	ADDRESS	4	SPMCURBF	POINTER TO CURRENT I/O BUFFER
360	(168)	ADDRESS	4	SPMNXTBF	POINTER TO SECONDARY I/O BUFFER

Table 510. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
364	(16C)	BITSTRING	6	SPMWRTRK	Track address (MQTR) for next buffer write.
370	(172)	BITSTRING	6	SPMRDTRK	Track address (MQTR) for next buffer read
376	(178)	BITSTRING	6	SPMIOTRG	Track address (MQTR) of first regular IOT
382	(17E)	BITSTRING	6	SPMIOTSP	Track address (MQTR) of spin IOT chain
388	(184)	BITSTRING	6	SPMOCTTK	Track address (MQTR) of OCT chain
394	(18A)	CHARACTER	8	SPMTOKEN	PIN token for $GETUCBS
404	(194)	SIGNED	4	(0)	Ensure fullword <-- alignment in case SPMSG | is used for WTOR |
404	(194)	BITSTRING	120	SPMSG	Message work area <--
524	(20C)	BITSTRING	1	SPMREPLY	Reply area
525	(20D)	BITSTRING	1	SPMFLAG1	Spool Manager flag byte
526	(20E)	BITSTRING	2		Reserved
$BLDMSG MF=L Used for $BLDMSG					
528	(210)	SIGNED	4	SPMBLDM(0)	Control block ID
532	(214)	BITSTRING	4		Console ID
536	(218)	ADDRESS	4		Address of the CART
540	(21C)	ADDRESS	4		Pointer for JOBID
544	(220)	ADDRESS	4		Control block address
548	(224)	ADDRESS	4		Display routine address
552	(228)	ADDRESS	4	(6)	6 word work area
576	(240)	ADDRESS	4		Caller's R11 value
580	(244)	BITSTRING	2		ROUT code for Message
582	(246)	BITSTRING	2		Not used
584	(248)	CHARACTER	4		Message ID
588	(24C)	CHARACTER	1		Separator character
589	(24D)	ADDRESS	1		Flag byte 1
590	(24E)	ADDRESS	1		'DISPER'
591	(24F)	ADDRESS	1		Flag byte 2
592	(250)	ADDRESS	1		Flag byte 3
593	(251)	CHARACTER	8		Symbolic name of dest.
601	(259)	BITSTRING	15		Not used
616	(268)	ADDRESS	4	(0)	Ensure multiple of 4
616	(268)	ADDRESS	2	(0)	
616	(268)	SIGNED	4	(0)	ENSURE FULLWORD ALIGNMENT
616	(268)	BITSTRING	13	SPMDASWK	DAS indicators save area
629	(275)	BITSTRING	3		Reserved
632	(278)	DBL WORD	8	SPMGSTRT(2)	STCKE SMCMGNEW last entered
632	(278)	X'148'	0	SPMLNGTH	"*-PCEWORK" SPMWORK LENGTH
SPMFLAG1 FIRST FLAG BYTE DEFINITIONS					
	1...			SPM1ERR	"B'10000000'" ERROR ENCOUNTERED DURING JOB MOVE
	.1..			SPM1TGA	"B'01000000'" AT LEAST ONE TG ALLOC FOR MOVE
	..1.			SPM1STUN	"B'00100000'" DADSTUNT called

Table 511. Cross Reference for $SPMWORK

Name	Offset	Hex Tag
PCE	0	
SPMALLOC	15C	
SPMBLDM	210	C2D3C440
SPMCURBF	164	
SPMDASWK	268	
SPMFLAG1	20D	
SPMGSTRT	278	
SPMIOTBF	160	
SPMIOTRG	178	0
SPMIOTSP	17E	0
SPMJCTBF	158	
SPMLNGTH	278	148
SPMNXTBF	168	
SPMOCTTK	184	0
SPMRDTRK	172	0
SPMREPLY	20C	0
SPMSG	194	0
SPMTOKEN	18A	40404040
SPMWRTRK	16C	0
SPMXECB	140	0
SPM1ERR	278	80
SPM1STUN	278	20
SPM1TGA	278	40

Chapter 208. $SPNWORK Information

$SPNWORK Programming Interface Information

$SPNWORK is a programming interface.

$SPNWORK Heading Information

Common Name:	Spin Work Area
Macro ID:	$SPNWORK
DSECT Name:	PCE ($SPNWORK is part of the PCE DSECT)
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4
Storage Attributes:	Subpool: See $PCE Key: See $PCE Residency: See $PCE
Size:	See symbol SPNWKSIZ for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by:	See $PCE
Pointed to by:	The $SPINPCE field of the $HCT data area points into the $PCEORG/$PCELAST chain to the first spin PCE. Since this chain contains all PCEs, use the PCEID field to determine when you have chained past the last PCE of this type. See $PCE for other pointer fields that apply to all PCE types.
Serialization:	Normal PCE dispatch serialization
Function:	The fields in this work area are used by a JES2 spin processor. $SPNWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $SPNWORK are actually part of the PCE DSECT, but only map PCEs with the value PCESPNID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

$SPNWORK mapping

Table 512. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	HASP Spin Processor
		SPIN processors no longer contain an id number in their PCE work areas (field SPNPCEID has been marked 'reserved'.) Instead, all PCEs now have a sequence number in the base section (field PCESEQ.)			
320	(140)	SIGNED	2		Reserved for future use

Table 512. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1		SPNPCEOD	"B'00000001'" Odd numbered spin PCE
322	(142)	BITSTRING	1	SPNFLAG1	Spin flag byte 1
		1...		SPN1DIS	"B'10000000'" PCE is disabled
		.1..		SPN1QSUS	"B'01000000'" PCE needs the queues
		..1.		SPN1JBLK	"B'00100000'" PCE needs the job lock
323	(143)	BITSTRING	1		Reserved for future use
324	(144)	SIGNED	4	SPNIOTBF	Address of IOT buffer chain
328	(148)	SIGNED	4	SPNTEMP	Temporary storage
332	(14C)	ADDRESS	4	SPNJOAA	Address of buffer containing prototype JOA
336	(150)	SIGNED	4	SPNJOAL	Length of buffer containing prototype JOA
340	(154)	SIGNED	4	SPNJCTBF	Address of JCT buffer
344	(158)	BITSTRING	4	SPNJBKEY	JCT Job Identifier Key
348	(15C)	SIGNED	4	SPNERA	Address of ERA
352	(160)	DBL WORD	8	SPNABTIM	Time of last abend by PCE
360	(168)	ADDRESS	4	SPNTRCE(0)	Spin PCE trace entry
392	(188)	SIGNED	4	SPNIOTTR	Save area for track address of next IOT in spin chain
396	(18C)	SIGNED	4	SPNMOMTR	Save area for mom MOC MTTR
400	(190)	SIGNED	4	SPNMOMRC	Save area for mom's record
404	(194)	SIGNED	4	SPNMOMPG	Save area for mom's page
408	(198)	SIGNED	4	SPNMOMBT	Save area for mom's byte
412	(19C)	BITSTRING	4	SPNONEUN	Single UNSPUN MTTR or zero
416	(1A0)	ADDRESS	4	SPNOFFJQ	Offset of first JQE for which job lock not avail
420	(1A4)	CHARACTER	32	SPNNOTPL	Parm list storage for $HNOTIFY call from DSAL
452	(1C4)	BITSTRING	1	SPNCTKNO	Old CTOKEN work area
452	(1C4)	X'D4'	0	SPNWKSIZ	"*-PCEWORK" Size of Spin PCE work area

Table 513. Cross Reference for $SPNWORK

Name	Offset	Hex Tag
PCE	0	
SPNABTIM	160	
SPNCTKNO	1C4	
SPNERA	15C	
SPNFLAG1	142	
SPNIOTBF	144	
SPNIOTTR	188	
SPNJBKEY	158	
SPNJCTBF	154	
SPNJOAA	14C	
SPNJOAL	150	
SPNMOMBT	198	
SPNMOMPG	194	
SPNMOMRC	190	

Table 513. Cross Reference for $SPNWORK (continued)

Name	Offset	Hex Tag
SPNMOMTR	18C	
SPNNOTPL	1A4	
SPNOFFJQ	1A0	
SPNONEUN	19C	
SPNPCEOD	140	1
SPNTEMP	148	
SPNTRCE	168	
SPNWKSIZ	1C4	D4
SPN1DIS	142	80
SPN1JBLK	142	20
SPN1QSUS	142	40

Chapter 209. $SPOOLCB Information

$SPOOLCB Programming Interface Information

$SPOOLCB is a programming interface.

$SPOOLCB Heading Information

Common Name: SPOOL information data CB
Macro ID: $SPOOLCB
DSECT Name: SPCB
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: SPCB
Offset: SPCBID-SPCB
Length: L'SPCID
Storage Attributes: Subpool: 0
Key: 1
Residency: Virtual and real storage are in 31 bit storage in the private storage of the JES2 address space.

Size: See SPCBLEN
Created by: HASPIRMA
Pointed to by: $SPOOLCB field of the $HCT data area
Serialization: None required
Function: Maps the constants for SPOOL processing (Set by JES2 initialization statements).

$SPOOLCB mapping

Table 514. Structure SPCB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SPCB	, SPOOL information control block
0	(0)	CHARACTER	4	SPCBID	Eyecatcher
4	(4)	CHARACTER	44	SPCBDSN	SPOOL data set name
48	(30)	CHARACTER	44	SPCBDSMS	SPOOL data set name mask
92	(5C)	BITSTRING	1	SPCFLAGD	Local testing flag
		1...		SPCDABS	"B'10000000'" Use absolute addressing
		.1..		SPCDHIGM	"B'01000000'" Use high M values
93	(5D)	BITSTRING	3		Reserved
96	(60)	SIGNED	4	SPCCOOLT	Spool Migr cool down timer
100	(64)	SIGNED	4	SPCHEART	Spool Migr heartbeat timer
104	(68)	SIGNED	4	SPCKPTLV	Last SPOOLDEF change level
108	(6C)	SIGNED	2	SPCTGSIZ	Prior (old) TG size value
110	(6E)	BITSTRING	2		Reserved
112	(70)	CHARACTER	44	SPCBODSM	Prior (old) SPOOL DS mask
160	(A0)	DBL WORD	8	(0)	Align length
160	(A0)	X'A0'	0	SPCBLEN	"*-SPCB" Length of data area

$SPOOLCB mapping

Table 515. Cross Reference for $SPOOLCB

Name	Offset	Hex Tag
SPCB	0	
SPCBDSMS	30	
SPCBDSN	4	
SPCBID	0	
SPCBLEN	A0	A0
SPCBODSM	70	
SPCCOOLT	60	
SPCDABS	5C	80
SPCDHIGM	5C	40
SPCFLAGD	5C	
SPCHEART	64	
SPCKPTLV	68	
SPCTGSIZ	6C	

Chapter 210. $SQD Information

$SQD Programming Interface Information

$SQD is a programming interface.

$SQD Heading Information

Common Name:	Subtask queue descriptor
Macro ID:	$SQD
DSECT Name:	SQD
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'SQD' Offset: SQDID-SQD Length: 4
Storage Attributes:	Subpool: Any Key: 1 Residency: Virtual and real storage are anywhere (above or below 16M) in JES2 private storage.
Size:	See SQDLEN
Created by:	Caller of $SUBIT
Pointed to by:	The SQD is a parameter of the $SUBIT macro. The SBWQUEx fields in the SBW data area ($STWORK macro) points to the chain of pending subtask work requests. The DSUBSQD field in the DTE data area points to the SQD currently being processed. The WAVESQD field in the WAVE data area points to the SQD associated with that WAVE.
Serialization:	The SQDs are added to the work queues (STWQUEx) using the $QUEUE macro. See that macro for serialization of queued elements.
Function:	The subtask queue descriptor contains information to be queued to one of the subtask work queues for a general purpose subtask. It includes the address of the routine to be subtasked and its parameter list.

$SQD mapping

Table 516. Structure SQD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SQD	
0	(0)	CHARACTER	4	SQDID	Control block ID
4	(4)	ADDRESS	1	SQDLEVEL	Control block version
		1		SQDVERSN	"X'01'" Control block version EQU
5	(5)	BITSTRING	3		RESERVED
8	(8)	BITSTRING	24	SQDXECB	XECB POSTed when work completed
32	(20)	ADDRESS	4	SQDRTNA	Addr of rtn to be subtasked
40	(28)	DBL WORD	8	SQDP0_64(0)	64 bit parm 0

Table 516. Structure SQD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
40	(28)	ADDRESS	4	SQDPAR0H	Parm list R0...bits 0..31
44	(2C)	ADDRESS	4	SQDPARM0	Parm list R0...bits 32..63
48	(30)	DBL WORD	8	SQDP1_64(0)	64 bit parm 1
48	(30)	ADDRESS	4	SQDPAR1H	Parm list R1...bits 0..31
52	(34)	ADDRESS	4	SQDPARM1	Parm list R1...bits 32..63
56	(38)	SIGNED	4	SQDPAR0A	Parm access register 0
60	(3C)	SIGNED	4	SQDPAR1A	Parm access register 1
64	(40)	DBL WORD	8	SQDRC_64(0)	64 bit returned R15
64	(40)	SIGNED	4	SQDRTNH	Routine return R15...0..31
68	(44)	SIGNED	4	SQDRRTN	Routine return code (R15)
72	(48)	DBL WORD	8	SQDR0_64(0)	64 bit routine return R0
72	(48)	SIGNED	4	SQDRR0H	Routine return R0... 0..31
76	(4C)	SIGNED	4	SQDRR0	Routine return R0...32..63
80	(50)	DBL WORD	8	SQDR1_64(0)	64 bit routine return R1
80	(50)	SIGNED	4	SQDRR1H	Routine return R1... 0..31
84	(54)	SIGNED	4	SQDRR1	Routine return R1...32..63
88	(58)	SIGNED	4	SQDRR0A	Routine return AR0
92	(5C)	SIGNED	4	SQDRR1A	Routine return AR1
96	(60)	SIGNED	4	SQDRETCD	Subtask return code
100	(64)	BITSTRING	1	SQDFLAG1	Flag byte 1
		1...		SQD1UNCN	"B'10000000'" Unconditional routine call
		.1..		SQD1HCT	"B'01000000'" HCT in R11
		..1.		SQD1HCCT	"B'00100000'" HCCT in R11
		...1		SQD1NOST	"B'00010000'" Routine called w/o subtask
		.... 1...		SQD1WAIT	"B'00001000'" WAIT=YES was specified
		.... .1..		SQD1FREE	"B'00000100'" FREESQD=YES specified
		.... ..1.		SQD1ECB@	"B'00000010'" SQDXECB points to ECB (user environment only)
		1		SQD1ACT	"B'00000001'" SQD is active in subtask
101	(65)	BITSTRING	1	SQDFLAG2	Flag byte 2
		1...		SQD2P0HI	"B'10000000'" Hi order half (bits 0..31) of R0 was saved in SQDPAR0H and should be passed to the routine.
		.1..		SQD2P1HI	"B'01000000'" Hi order half (bits 0..31) of R1 was saved in SQDPAR1H and should be passed to the routine.
		..1.		SQD2TRAC	"B'00100000'" PCE trace is active
102	(66)	BITSTRING	1	SQDPRIO	Priority of request (1 is high, 2 is regular, 3 is low)
103	(67)	BITSTRING	2		Reserved for future use
108	(6C)	ADDRESS	4	SQDNSST	NSST address (USER environ)
112	(70)	ADDRESS	4		Reserved
		Various times, valid when request complete. All times in micro seconds.			
120	(78)		1	SQDQTIME	Time spent queued

Table 516. Structure SQD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
136	(88)		1	SQDRTIME	Wall clock run time
152	(98)	DBL WORD	8	SQDCTIME	CPU time for request
		MACDATE = 04/03/89			
120	(78)	SIGNED	4	SQDTCBTK(0)	
120	(78)	CHARACTER	16	(0)	TCB TOKEN (INPUT/OUTPUT)
120	(78)	BITSTRING	8		
128	(80)	SIGNED	4		
132	(84)	ADDRESS	4		
136	(88)	ADDRESS	4		ASCB ADDRESS (INPUT)
140	(8C)	SIGNED	4	(0)	FLAGS (INPUT)
140	(8C)	SIGNED	1		TYPE OF TCBTOKEN REQUEST
141	(8D)	SIGNED	3		RESERVED
160	(A0)	ADDRESS	4	SQDGPQ	Address of GPQE, if any
		Subtask VRA and recovery information.			
164	(A4)	ADDRESS	4	SQDCLRA	$SUBIT caller address
168	(A8)	CHARACTER	8	SQDRNAME	Routine name
176	(B0)	CHARACTER	8	SQDJOBID	JOBID associated with req.
184	(B8)	CHARACTER	8	SQDJOBNM	JOBNAME associated with req
192	(C0)	BITSTRING	3	SQDDEVID	Device id assoc with req
195	(C3)	BITSTRING	1		Reserved
196	(C4)	ADDRESS	4	SQDJQE	PCEJQE value at $SUBIT
200	(C8)	SIGNED	2	SQDASID	Related ASID
202	(CA)	BITSTRING	6		Reserved
208	(D0)	DBL WORD	8	SQDEND(0)	End SQD on a double word
208	(D0)	X'D0'	0	SQDLEN	"SQDEND-SQD" Length of SQD

Table 517. Cross Reference for $SQD

Name	Offset	Hex Tag
SQD	0	
SQDASID	C8	
SQDCLRA	A4	
SQDCTIME	98	
SQDDEVID	C0	
SQDEND	D0	
SQDFLAG1	64	
SQDFLAG2	65	
SQDGPQ	A0	
SQDID	0	E2D8C440
SQDJOBID	B0	
SQDJOBNM	B8	
SQDJQE	C4	
SQDLEN	D0	D0
SQDLEVEL	4	
SQDNSST	6C	
SQDPARM0	2C	
SQDPARM1	34	
SQDPAR0A	38	
SQDPAR0H	28	

Table 517. Cross Reference for $SQD (continued)

Name	Offset	Hex Tag
SQDPAR1A	3C	
SQDPAR1H	30	
SQDPRIO	66	
SQDP0_64	28	
SQDP1_64	30	
SQDQTIME	78	
SQDRC_64	40	
SQDRETCD	60	
SQDRNAME	A8	
SQDRRTN	44	
SQDRR0	4C	
SQDRR0A	58	
SQDRR0H	48	
SQDRR1	54	
SQDRR1A	5C	
SQDRR1H	50	
SQDRTIME	88	
SQDRTNA	20	
SQDRTNH	40	
SQDR0_64	48	
SQDR1_64	50	
SQDTCBTK	78	
SQDVERSN	4	1
SQDXECB	8	
SQD1ACT	64	1
SQD1ECB@	64	2
SQD1FREE	64	4
SQD1HCCT	64	20
SQD1HCT	64	40
SQD1NOST	64	10
SQD1UNCN	64	80
SQD1WAIT	64	8
SQD2P0HI	65	80
SQD2P1HI	65	40
SQD2TRAC	65	20

Chapter 211. $SRW Information

$SRW Programming Interface Information

$SRW is a programming interface.

$SRW Heading Information

Common Name:	JES2 SYSOUT Receiver Work Area
Macro ID:	$SRW
DSECT Name:	SRW
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	none
Storage Attributes:	Subpool: See $PCE (JES2 address space) 0 (NETSRV address space) Key: See $PCE (JES2 address space) 0 (NETSRV address space) Residency: See $PCE (JES2 address space) Virtual and real storage are anywhere (above or below 16M) in private storage (NETSRV address space)
Size:	See SRWLEN
Created by:	See $PCE (JES2 address space) Subtask initialization exit (NETSRV address space)
Pointed to by:	NSSTSRWA field of the $NSST data area X047AREA field of the $XPL data area X057AREA field of the $XPL data area Imbedded in the PCE in the JES2 address space. See $PCE for other pointer fields that apply to all PCE types.
Serialization:	Normal PCE dispatch serialization
Function:	The fields in this work area are used by a JES2 SYSOUT Receiver Processor and by its support routines and exits. $SRW maps the fields that are used by common service routines in both the JES2 address space and the NETSRV address spaces.

$SRW mapping

Table 518. Structure SRW

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SRW	, SRW mapped as $NJEWORK
0	(0)	CHARACTER	4	SRWEYE	Eyecatcher
4	(4)	CHARACTER	10	SRWDEVN	Device name
14	(E)	BITSTRING	1	SRWDEVTP	Device type
15	(F)	BITSTRING	3	SRWDEVID	Device id
18	(12)	BITSTRING	2	SRWCRSV1	Reserved
20	(14)	ADDRESS	4	SRWWAVE	WAVE address
24	(18)	ADDRESS	4	SRWSQD	SQD address
28	(1C)	ADDRESS	4	SRWPAREA	Address of PCL area for this subdevice

Table 518. Structure SRW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
32	(20)	ADDRESS	4	SRWAREA	Address of TSCT area for this subdevice (NETSRV address space only)
36	(24)	ADDRESS	4	SRWNSST	Address of NSST (NETSRV address space only)
40	(28)	ADDRESS	4	SRWTBUF	Address of associated TBUF
44	(2C)	ADDRESS	4	SRWTAREA	Address of rolling trace area (NETSRV addrspc only)
48	(30)	SIGNED	4	SRWECBCC	Contents of POSTed ECB
52	(34)	ADDRESS	4	SRWNITAD	Address of adjacent NIT
56	(38)	ADDRESS	4	SRWNITAL	ALET of adjacent NIT
60	(3C)	ADDRESS	4	SRWNITBL	Address of NIT table
THE FOLLOWING TWO FIELDS MUST BE KEPT TOGETHER					
64	(40)	SIGNED	4	SRWXTIME	Time offload DS allocated
68	(44)	SIGNED	4	SRWXDATE	Date offload DS allocated
72	(48)	SIGNED	4	SRWCLRST(0)	Start of area to clear
72	(48)	ADDRESS	4	SRWJQA	Address of JQA
72	(48)	X'48'	0	SRWJQE	"SRWJQA" Address of JQE
76	(4C)	ADDRESS	4	SRWJCT	Address of JCT
80	(50)	ADDRESS	4	SRWIOT	Address of IOT
80	(50)	X'50'	0	SRWIOTBF	"SRWIOT" Address of IOT
84	(54)	ADDRESS	4	SRWNJH	Network job header address
88	(58)	ADDRESS	4	SRWNJT	Network job trailer address
92	(5C)	SIGNED	4	SRWRCOUN	Number of records sent/received
96	(60)	ADDRESS	4	SRWCUREC	Current record count, not including header/trailer records
100	(64)	CHARACTER	8	SRWJOBID	Job id of active job
108	(6C)	BITSTRING	1	SRWNERRC	Error code
108	(6C)	X'1'	0	SRWNEJOB	"1" JQE/JOE Mismatch
108	(6C)	X'2'	0	SRWNEJOE	"2" Invalid mix of spin/nonspin
108	(6C)	X'3'	0	SRWNESUB	"3" Subtask failure
108	(6C)	X'4'	0	SRWNEOPE	"4" OPEN failure
108	(6C)	X'5'	0	SRWNECLO	"5" CLOSE failure
108	(6C)	X'6'	0	SRWNEIOE	"6" I/O error
108	(6C)	X'7'	0	SRWNECBI	"7" CBIO failure
108	(6C)	X'8'	0	SRWNENJH	"8" NJE Header/Trailer build
108	(6C)	X'9'	0	SRWNESEQ	"9" Record sequencing error
108	(6C)	X'A'	0	SRWNEGG	"10" Grouping error
108	(6C)	X'B'	0	SRWNESJF	"11" SJF error
108	(6C)	X'C'	0	SRWNESAF	"12" SAF check failure
109	(6D)	BITSTRING	7	SRWCRSV2	Reserved
120	(78)	DBL WORD	8	SRWDBL	Doubleword work area
128	(80)	DBL WORD	8	SRWDBLE	Doubleword work area 2
136	(88)	DBL WORD	8	SRWDBLE1	Doubleword work area 3
136	(88)	X'80'	0	SRWWRK16	"SRWDBLE,16,C'X'" 16-byte work area
136	(88)	X'78'	0	SRWWRK24	"SRWDBL,24,C'X'" 24-byte work area
144	(90)	ADDRESS	4	SRWNDH	Network dataset header address
148	(94)	SIGNED	8	SRWKEY(0)	JOB AND DATA SET KEYS
148	(94)	SIGNED	4	SRWJBKEY	JOB KEY
152	(98)	SIGNED	4	SRWDSKEY	DATA SET KEY

Table 518. Structure SRW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
156	(9C)	ADDRESS	4	SRWPDDB	PDDB address
160	(A0)	SIGNED	4	SRWHDRCT	Number of ds headers in current multi-dest ds
164	(A4)	BITSTRING	4	SRWCRSV3	Reserved
168	(A8)	DBL WORD	8	(0)	Force alignment
168	(A8)	X'48'	0	SRWCLEAR	"SRWCLRST,*-SRWCLRST,C'X'" Area to clear
		NJE RECORD TYPE FLAGS			
168	(A8)	BITSTRING	1	SRW$EXP	'EXPECTED' TYPES (FLAGS)
169	(A9)	BITSTRING	1	SRW$LST	'LAST RECEIVED' TYPE (FLAG)
		1...		SRW$JH	"B'10000000'" JOB HEADER
		.1..		SRW$JT	"B'01000000'" JOB TRAILER
		..1.		SRW$DSH	"B'00100000'" DATA SET HEADER
		...1		SRW$DST	"B'00010000'" DATA SET TRAILER (NOT USED)
		.... 1...		SRW$DATA	"B'00001000'" DATA RECORD
		.... .1..		SRW$EOF	"B'00000100'" NORMAL END-OF-FILE
		.... ..1.		SRW$JES2	"B'00000010'" JES2 SECTION RECEIVED
		1		SRW$SPOF	"B'00000001'" OFFLOAD SECTION RECEIVED
170	(AA)	BITSTRING	1	SRWFLAG2	CONTROL FLAGS
		1...		SRW$BLNK	"B'10000000'" DON'T TRUNC BLANKS
		.1..		SRW$PAGE	"B'01000000'" RECEIVED DS IS PAGE RECORD
		.1..		SRW2NBUF	"B'01000000'" NEW SCR BUFFER NEEDED
		..1.		SRW2MDES	"B'00100000'" JOB HAS MULTIPLE DESTS
		...1		SRW2UNSP	"B'00010000'" UNSPUN IOT'S EXIST
		.... 1...		SRW2STKN	"B'00001000'" Submitter job token found
		.... .1..		SRW2TSCR	"B'00000100'" Token SCR in buffer
		.... ..1.		SRW2TREC	"B'00000010'" Token recv for current DS
		1		SRW2GGIN	"B'00000001'" Grouping strings object is initialized
172	(AC)	ADDRESS	4	SRWDSBUF	Current data buffer address
176	(B0)	SIGNED	4	SRWJBNUM	Work area for job number
180	(B4)	SIGNED	4	SRWTTR	MOST RECENTLY ACQUIRED TTR
184	(B8)	SIGNED	4	SRWMDKEY	DATASET KEY FOR MULTIDEST PDDB
188	(BC)	SIGNED	2	SRWSYSKY	PREVIOUSLY RECEIVED SYSTEM KEY
192	(C0)	SIGNED	4	SRWMXKEY	DATA SET KEYS OVER 32,767
196	(C4)	SIGNED	4	SRWLASKY	LAST DATA SET KEY PROCESSED
200	(C8)	BITSTRING	1	SRWERROR	ERROR FLAGS (AND OTHER SRW FLAGS)
		1...		SRW$CAN	"B'10000000'" CANCEL JOB (TELL XMITTER)
		.1..		SRW$SKIP	"B'01000000'" CANCEL JOB (DON'T TELL XMITTER)
		..1.		SRW$DSU	"B'00100000'" THIS NODE IS ULTIMATE DEST FOR THIS DATA SET

Table 518. Structure SRW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		SRW$DPRG	"B'00010000'" One or more data sets in job not received
		.... 1...		SRW$DIST	"B'00001000'" Severe error in selection
		.... .1..		SRW$NOJB	"B'00000100'" No data received thru EOF
		.... ..1.		SRW$HOPX	"B'00000010'" Job's hop count exceeded
201	(C9)	BITSTRING	1	SRW$RCV	'RECEIVED' TYPE (FLAG)
202	(CA)	SIGNED	2	SRWMDINS	Multi-dest instance count
204	(CC)	ADDRESS	4	(2)	Reserved for future use
212	(D4)	BITSTRING	1	SRWFLAG1	CONTROL FLAGS
		1...		SRW$ULT	"B'10000000'" THIS NODE IS ULTIMATE DEST OF AT LEAST ONE DATA SET
		.1..		SRW$TCEL	"B'01000000'" RECEIVED DS IS TRACK-CELLED
		..1.		SRW$DS	"B'00100000'" DATA RECORD HAS BEEN RECEIVED
		...1		SRW$JTRC	"B'00010000'" JOB TRAILER HAS BEEN RECEIVED
		.... 1...		SRW$DRN	"B'00001000'" DRAIN SPOF RECEIVER AFTER JOB
		.... .1..		SRW$SIGN	"B'00000100'" $GETSMFB and sign-on msg issued, at least one DSH received for this job
		.... ..1.		SRW$DRFD	"B'00000010'" Data record received since last header processed
		1		SRW$SKDR	"B'00000001'" On - at least one DSH accepted in this hdr sequence Off - skipping data records
213	(D5)	BITSTRING	1	SRWFLAG3	GENERAL USE FLAG BYTE
		1...		SRW3BFER	"B'10000000'" LARGE SMF BUFFER TOO SMALL TO HOLD SWBTU
		.1..		SRW3JDVT	"B'01000000'" Job's JDVT name is set
		..1.		SRW3OAFF	"B'00100000'" Affinity section of header processed
		...1		SRW3LTOK	"B'00010000'" Get local token
		.... 1...		SRW3BLKP	"B'00001000'" Blank padding for mid seg
214	(D6)	ADDRESS	1	SRWLINCT	MAXIMUM LINES PER PAGE
214	(D6)	X'D7'	0	SRWCINIL	"*-SRW" LENGTH FOR INITIAL CLEAR
		PDDB work area below has a standard JES2 prefix (see $CSBPRFX in $HASPEQU). SRWTPDDB points to a start of PDDB in a work area.			
216	(D8)	ADDRESS	4	SRWTPDDB	Work area for PDDB
220	(DC)	SIGNED	4	SRWTPDBM	Max size of PDDB which will fit in SRWTPDDB
224	(E0)	CHARACTER	72	SRWWRKA	WORK AREA FOR $WTO
224	(E0)	BITSTRING	3		SCR header length

Table 518. Structure SRW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
227	(E3)	BITSTRING	81		Token length
308	(134)	SIGNED	4	(0)	Align
		Fields SRWNSWB through SRWSSBTL are used in handling the SWBIT buffer(s) containing any SWBTUs from the DSH data stream section.			
308	(134)	SIGNED	2	SRWNSWB	Number of SWBTU's for PDDB
310	(136)	SIGNED	2	SRWSWBL	Total size of SWBTU's for PDDB
312	(138)	SIGNED	4	SRWSEGID	Segment ID from PDDB
316	(13C)	ADDRESS	4	SRWSWBTU	Address of SWBTU in data set header
320	(140)	ADDRESS	4	SRWHSWBF	SWBIT buffer chain
324	(144)	ADDRESS	4	SRWSWPTL	Address of SWBTU pointer list used by SJF SWBTU services
328	(148)	ADDRESS	4	SRWIPSWB	Addr of IPADDR work area
332	(14C)	SIGNED	2	SRWIPSWL	Length of IPADDR work area
334	(14E)	SIGNED	2		Reserved
336	(150)	SIGNED	4	(0)	Alignment
336	(150)	CHARACTER	8	SRWSSBTL	Default SWBTU pointer list used when only one SWBTU exists
344	(158)	BITSTRING	1	SRWTUXP	TU extract parameters
		The following fields point to the various tokens associated with a job/data set being received.			
364	(16C)	ADDRESS	4	SRWJTKNA	Job header token address
368	(170)	ADDRESS	4	SRWIJTKN	Internal format Job token
372	(174)	ADDRESS	4	SRWTKNA	External format token which was last processed
376	(178)	ADDRESS	4	SRWITKN	Internal version of SRWTKNA
380	(17C)	ADDRESS	4	SRWIVTKB	Token returned by VERIFYX using SRWTKNA (output destined local)
384	(180)	ADDRESS	4	SRWISFTK	Store and forward token for current job
388	(184)	ADDRESS	4	SRWTWA	Token work area address
392	(188)	BITSTRING	1	SRWFLAGT	Token flags
		1...		SRWTVXPS	"B'10000000'" VERIFYX RC for SRWIVTKN On-> RC=0/4 off-> RC=8
		.1..		SRWTSFPS	"B'01000000'" VERIFYX RC for SRWISFTK On-> RC=0/4 off-> RC=8
393	(189)	BITSTRING	3		Reserved for future use
396	(18C)	ADDRESS	4	SRWB32KH	Addr of temp NJH 32K cell
400	(190)	CHARACTER	1	SRWSAFI	$SAFINFO parameter list
400	(190)	X'228'	0	SRWLEN	"*-SRW"
		The following fields exist only in the SRW in the NETSRV address space			
552	(228)	ADDRESS	4	SRWACB	ACB address
556	(22C)	ADDRESS	4	SRWRPL	RPL address
560	(230)	ADDRESS	4	SRWSJB	SJB address
564	(234)	ADDRESS	4	SRWSDB	SDB address
568	(238)	ADDRESS	4	SRWIPDDB	First PDDB for this DS
572	(23C)	ADDRESS	4	SRWIIOT	First IOT for this DS
576	(240)	ADDRESS	4	SRWCUIOT	IOT for current PDDB
580	(244)	BITSTRING	1	SRWNFLG1	Progress flags

Table 518. Structure SRW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		SRWN1JHI	"B'10000000'" Job header in progress
		.1..		SRWN1JHC	"B'01000000'" Job header complete
		..1.		SRWN1DHI	"B'00100000'" DS header in progress
		...1		SRWN1DHC	"B'00010000'" DS header complete
		.... 1...		SRWN1JTI	"B'00001000'" Job trailer in progress
		.... .1..		SRWN1JTC	"B'00000100'" Job trailer complete
		.... ..1.		SRWN1PTI	"B'00000010'" PUT of data in progress
		1		SRWN1ERR	"B'00000001'" Error detected
581	(245)	BITSTRING	1	SRWNFLG2	Progress flags
		1...		SRWN2CLI	"B'10000000'" Fake CLOSE (null PUT) in progress
		.1..		SRWN2EOT	"B'01000000'" EOT received
		..1.		SRWN2EOC	"B'00100000'" EOT processing complete
582	(246)	BITSTRING	2		Reserved
584	(248)	ADDRESS	4	SRWRJQE	Real JQE address in live
588	(24C)	SIGNED	4	SRWRJQEA	version and ALET
592	(250)	SIGNED	4	(4)	Reserved
608	(260)	DBL WORD	8	(0)	Align
608	(260)	X'260'	0	SRWCLEN	"*-SRW" Length of SRW in NETSRV address space

Table 519. Cross Reference for $SRW

Name	Offset	Hex Tag
SRW	0	
SRW$BLNK	AA	80
SRW$CAN	C8	80
SRW$DATA	A9	8
SRW$DIST	C8	8
SRW$DPRG	C8	10
SRW$DRFD	D4	2
SRW$DRN	D4	8
SRW$DS	D4	20
SRW$DSH	A9	20
SRW$DST	A9	10
SRW$DSU	C8	20
SRW$EOF	A9	4
SRW$EXP	A8	
SRW$HOPX	C8	2
SRW$JES2	A9	2
SRW$JH	A9	80
SRW$JT	A9	40
SRW$JTRC	D4	10
SRW$LST	A9	

Table 519. Cross Reference for $SRW (continued)

Name	Offset	Hex Tag
SRW$NOJB	C8	4
SRW$PAGE	AA	40
SRW$RCV	C9	
SRW$SIGN	D4	4
SRW$SKDR	D4	1
SRW$SKIP	C8	40
SRW$SPOF	A9	1
SRW$TCEL	D4	40
SRW$ULT	D4	80
SRWACB	228	
SRWAREA	20	
SRWB32KH	18C	
SRWCINIL	D6	D7
SRWCLEAR	A8	48
SRWCLEN	260	260
SRWCLRST	48	
SRWCRSV1	12	
SRWCRSV2	6D	
SRWCRSV3	A4	
SRWCUIOT	240	
SRWCUREC	60	
SRWDBL	78	
SRWDBLE	80	
SRWDBLE1	88	
SRWDEVID	F	
SRWDEVN	4	
SRWDEVTP	E	
SRWDSBUF	AC	
SRWDSKEY	98	
SRWECBCC	30	
SRWERROR	C8	
SRWEYE	0	E2D9E640
SRWFLAGT	188	
SRWFLAG1	D4	
SRWFLAG2	AA	
SRWFLAG3	D5	
SRWHDRCT	A0	
SRWHSWBF	140	
SRWIIOT	23C	
SRWIJTKN	170	
SRWIOT	50	
SRWIOTBF	50	50
SRWIPDDB	238	
SRWIPSWB	148	
SRWIPSWL	14C	
SRWISFTK	180	
SRWITKN	178	
SRWIVTKB	17C	
SRWJBKEY	94	

Table 519. Cross Reference for $SRW (continued)

Name	Offset	Hex Tag
SRWJBNUM	B0	
SRWJCT	4C	
SRWJOBID	64	
SRWJQA	48	
SRWJQE	48	48
SRWJTKNA	16C	
SRWKEY	94	
SRWLASKY	C4	
SRWLEN	190	228
SRWLINCT	D6	
SRWMDINS	CA	
SRWMDKEY	B8	
SRWMXKEY	C0	
SRWNDH	90	
SRWNECBI	6C	7
SRWNECLO	6C	5
SRWNEGG	6C	A
SRWNEIOE	6C	6
SRWNEJOB	6C	1
SRWNEJOE	6C	2
SRWNENJH	6C	8
SRWNEOPE	6C	4
SRWNERRC	6C	
SRWNESAF	6C	C
SRWNESEQ	6C	9
SRWNESJF	6C	B
SRWNESUB	6C	3
SRWNFLG1	244	
SRWNFLG2	245	
SRWNITAD	34	
SRWNITAL	38	
SRWNITBL	3C	
SRWNJH	54	
SRWNJT	58	
SRWNSST	24	
SRWNSWB	134	
SRWN1DHC	244	10
SRWN1DHI	244	20
SRWN1ERR	244	1
SRWN1JHC	244	40
SRWN1JHI	244	80
SRWN1JTC	244	4
SRWN1JTI	244	8
SRWN1PTI	244	2
SRWN2CLI	245	80
SRWN2EOC	245	20
SRWN2EOT	245	40
SRWPAREA	1C	
SRWPDDB	9C	

Table 519. Cross Reference for $SRW (continued)

Name	Offset	Hex Tag
SRWRCOUN	5C	
SRWRJQE	248	
SRWRJQEA	24C	
SRWRPL	22C	
SRWSAFI	190	
SRWSDB	234	
SRWSEGID	138	
SRWSJB	230	
SRWSQD	18	
SRWSSBTL	150	
SRWSWBL	136	
SRWSWBTU	13C	
SRWSWPTL	144	
SRWSYSKY	BC	
SRWTAREA	2C	
SRWTBUF	28	
SRWTKNA	174	
SRWTPDBM	DC	
SRWTPDDB	D8	
SRWTSFPS	188	40
SRWTTR	B4	
SRWTUXP	158	
SRWTVXPS	188	80
SRWTWA	184	
SRWWAVE	14	
SRWWRKA	E0	
SRWWRK16	88	80
SRWWRK24	88	78
SRWXDATE	44	
SRWXTIME	40	
SRW2GGIN	AA	1
SRW2MDES	AA	20
SRW2NBUF	AA	40
SRW2STKN	AA	8
SRW2TREC	AA	2
SRW2TSCR	AA	4
SRW2UNSP	AA	10
SRW3BFER	D5	80
SRW3BLKP	D5	8
SRW3JDVT	D5	40
SRW3LTOK	D5	10
SRW3OAFF	D5	20

Chapter 212. $STAC Information

$STAC Heading Information

Common Name:	STAC
Macro ID:	$STAC
DSECT Name:	STAC
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	STAC Offset: SACEYE Length: L'SACEYE
Storage Attributes:	Subpool: n/a Key: 1 Residency: In the jesxSTAC data space in cpool STAC
Size:	See SACLEN
Created by:	HASCSISC
Pointed to by:	SACNEXT field of the $STAC data area SACPREV field of the $STAC data area SJBSTAC field of the $SJB data area CCTCSHED field of the $HCCT data area CCTCSTAI field of the $HCCT data area
Serialization:	Double Compare and Swap (via PLO)
Function:	The STAC is used by STATUS/CANCEL support. It contains all information needed to perform the STATUS or CANCEL SSI function in the JES2 address space.

$STAC mapping

Table 520. Structure STAC

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	STAC	
0	(0)	CHARACTER	4	SACEYE	Eye catcher
		Chaining is double threaded. The pointer fields are positive (hi-bit off) if pointing to a STAC element. The pointer fields have the high bit on if pointing to the head. The next and prev pointer words must be this order			
4	(4)	ADDRESS	4	SACNEXT	<----+ Address of next STAC
8	(8)	ADDRESS	4	SACPREV	<----+ Address of previous STAC
12	(C)	ADDRESS	4	SACSJB	Address of SJB (zero means SJB user no longer wants a response)
16	(10)	ADDRESS	4	SACTAREA	Address of work area
20	(14)	CHARACTER	8	SACTJOBN	Job name
28	(1C)	SIGNED	4	SACTJOBI	Job number
32	(20)	SIGNED	2	SACTDIMP	Size of extension
34	(22)	SIGNED	2	SACTDIMR	Size used or required
36	(24)	SIGNED	2	SACTFUNC	Requested function
38	(26)	SIGNED	2	SACTRETB	SSOBRETN return code
40	(28)	SIGNED	2	SACTRETR	R15 return code
42	(2A)	BITSTRING	1	SACTFLGS	Flags from SSOB extension

Table 520. Structure STAC (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
43	(2B)	SIGNED	1	SACTULEN	User ID length
44	(2C)	BITSTRING	1	SACTFLOW	JES2 in process indicator
45	(2D)	BITSTRING	1	SACFLAG1	Flags (serialized via CS)
		1...		SAC1XPST	"B'10000000'" Action is complete Data in STAC can be used
		..1.		SAC1PCE	"B'00100000'" In process (SACPCE valid)
		...1		SAC1QUED	"B'00010000'" On FIFO queue
46	(2E)	BITSTRING	16	SACTCBT	TCB Token of requestor
62	(3E)	BITSTRING	2		Reserved for future use
64	(40)	CHARACTER	80	SACTOKEN	Security token work area
144	(90)	ADDRESS	4	SACPCE	Address of PCE processing the STAC request
		MACDATE = 04/03/89			
148	(94)	SIGNED	4	SACTTOK(0)	
148	(94)	CHARACTER	16	(0)	TCB TOKEN (INPUT/OUTPUT)
148	(94)	BITSTRING	8		
156	(9C)	SIGNED	4		
160	(A0)	ADDRESS	4		
164	(A4)	ADDRESS	4		ASCB ADDRESS (INPUT)
168	(A8)	SIGNED	4	(0)	FLAGS (INPUT)
168	(A8)	SIGNED	1		TYPE OF TCBTOKEN REQUEST
169	(A9)	SIGNED	3		RESERVED
169	(A9)	X'AC'	0	SACLEN1	"*-STAC" IPCS STAC length
4096	(1000)	BITSTRING	1	SACFAREA	Maximum caller area
4096	(1000)	X'10FFF'	0	SACLEN	"*-STAC" STAC Length

Table 521. Cross Reference for $STAC

Name	Offset	Hex Tag
SACEYE	0	
SACFAREA	1000	
SACFLAG1	2D	
SACLEN	1000	10FFF
SACLEN1	A9	AC
SACNEXT	4	
SACPCE	90	
SACPREV	8	
SACSJB	C	
SACTAREA	10	
SACTCBT	2E	
SACTDIMP	20	
SACTDIMR	22	
SACTFLGS	2A	
SACTFLOW	2C	
SACTFUNC	24	
SACTJOBI	1C	
SACTJOBN	14	
SACTOKEN	40	
SACTRETB	26	

Table 521. Cross Reference for $STAC (continued)

Name	Offset	Hex Tag
SACTRETR	28	
SACTTOK	94	
SACTULEN	2B	
SAC1PCE	2D	20
SAC1QUED	2D	10
SAC1XPST	2D	80
STAC	0	

Chapter 213. $STCWORK Information

$STCWORK Programming Interface Information

$STCWORK is a programming interface.

$STCWORK Heading Information

Common Name:	JES2 Status/Cancel PCE Work Area
Macro ID:	$STCWORK
DSECT Name:	PCE ($STCWORK is part of the PCE DSECT)
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4
Storage Attributes:	Subpool: See $PCE Key: See $PCE Residency: See $PCE
Size:	See symbol SCNPCEWL for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by:	See $PCE
Pointed to by:	The $STACPCE field of the $HCT data area The SACPCE field of the $STAC data area See $PCE for other pointer fields that apply to all PCE types.
Serialization:	Normal PCE dispatch serialization
Function:	The fields in this work area are used by the JES2 Status/Cancel Processor. $STCWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $STCWORK are actually part of the PCE DSECT, but only map PCEs with the value PCESTCID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

$STCWORK mapping

Table 522. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	JES2 STC processor executive
320	(140)	DBL WORD	8	SCNWORK	Processor work area
328	(148)	BITSTRING	1	SCNFLAG1	STC flags
		1...		SCN1SGL	"B'10000000'" Exit single request
		.1..		SCN1MUL	"B'01000000'" Exit multiple request
		..1.		SCN1EXCL	"B'00100000'" Exit called request
329	(149)	BITSTRING	3		Reserved

Table 522. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
332	(14C)	CHARACTER	80	SCNTOKEN	Security token work area
412	(19C)	BITSTRING	24	SCNXPARM	Exit parm list
436	(1B4)	ADDRESS	4	SCNBUFAD	JCT buffer address
440	(1B8)	DBL WORD	8	(0)	Align STC work area
440	(1B8)	X'78'	0	SCNPCEWL	"*-PCEWORK" STC PCE work area length

Table 523. Cross Reference for $STCWORK

Name	Offset	Hex Tag
PCE	0	
SCNBUFAD	1B4	
SCNFLAG1	148	
SCNPCEWL	1B8	78
SCNTOKEN	14C	
SCNWORK	140	
SCNXPARM	19C	
SCN1EXCL	148	20
SCN1MUL	148	40
SCN1SGL	148	80

Chapter 214. $STW Information

$STW Programming Interface Information

$STW is a programming interface.

$STW Heading Information

Common Name:	JES2 SYSOUT Transmitter Work Area
Macro ID:	$STW
DSECT Name:	STW
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	none
Storage Attributes:	Subpool: See $PCE (JES2 address space) 0 (NETSRV address space) Key: See $PCE (JES2 address space) 0 (NETSRV address space) Residency: See $PCE (JES2 address space) Virtual and real storage are anywhere (above or below 16M) in private storage (NETSRV address space)
Size:	See STWLEN
Created by:	See $PCE (JES2 address space) Subtask initialization exit (NETSRV address space)
Pointed to by:	NSSTSTWA field of the $NSST data area X046AREA field of the $XPL data area X056AREA field of the $XPL data area Imbedded in the PCE in the JES2 address space. See $PCE for other pointer fields that apply to all PCE types.
Serialization:	Normal PCE dispatch serialization
Function:	The fields in this work area are used by a JES2 SYSOUT Transmitter Processor and by its support routines and exits. $STW maps the fields that are used by common service routines in both the JES2 address space and the NETSRV address spaces.

$STW mapping

Table 524. Structure STW

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	STW	, STW mapped as $NJEWORK
0	(0)	CHARACTER	4	STWEYE	Eyecatcher
4	(4)	CHARACTER	10	STWDEVN	Device name
14	(E)	BITSTRING	1	STWDEVTP	Device type
15	(F)	BITSTRING	3	STWDEVID	Device id
18	(12)	BITSTRING	2	STWCRSV1	Reserved
20	(14)	ADDRESS	4	STWWAVE	WAVE address
24	(18)	ADDRESS	4	STWSQD	SQD address
28	(1C)	ADDRESS	4	STWPAREA	Address of PCL area for this subdevice

Table 524. Structure STW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
32	(20)	ADDRESS	4	STWAREA	Address of TSCT area for this subdevice (NETSRV address space only)
36	(24)	ADDRESS	4	STWNSST	Address of NSST (NETSRV address space only)
40	(28)	ADDRESS	4	STWTBUF	Address of associated TBUF
44	(2C)	ADDRESS	4	STWTAREA	Address of rolling trace area (NETSRV addrspc only)
48	(30)	SIGNED	4	STWECBCC	Contents of POSTed ECB
52	(34)	ADDRESS	4	STWNITAD	Address of adjacent NIT
56	(38)	ADDRESS	4	STWNITAL	ALET of adjacent NIT
60	(3C)	ADDRESS	4	STWNITBL	Address of NIT table
THE FOLLOWING TWO FIELDS MUST BE KEPT TOGETHER					
64	(40)	SIGNED	4	STWXTIME	Time offload DS allocated
68	(44)	SIGNED	4	STWXDATE	Date offload DS allocated
72	(48)	SIGNED	4	STWCLRST(0)	Start of area to clear
72	(48)	ADDRESS	4	STWJQA	Address of JQA
72	(48)	X'48'	0	STWJQE	"STWJQA" Address of JQE
76	(4C)	ADDRESS	4	STWJCT	Address of JCT
80	(50)	ADDRESS	4	STWIOT	Address of IOT
80	(50)	X'50'	0	STWIOTBF	"STWIOT" Address of IOT
84	(54)	ADDRESS	4	STWNJH	Network job header address
88	(58)	ADDRESS	4	STWNJT	Network job trailer address
92	(5C)	SIGNED	4	STWRCOUN	Number of records sent/received
96	(60)	ADDRESS	4	STWCUREC	Current record count, not including header/trailer records
100	(64)	CHARACTER	8	STWJOBID	Job id of active job
108	(6C)	BITSTRING	1	STWNERRC	Error code
108	(6C)	X'1'	0	STWNEJOB	"1" JQE/JOE Mismatch
108	(6C)	X'2'	0	STWNEJOE	"2" Invalid mix of spin/nonspin
108	(6C)	X'3'	0	STWNESUB	"3" Subtask failure
108	(6C)	X'4'	0	STWNEOPE	"4" OPEN failure
108	(6C)	X'5'	0	STWNECLO	"5" CLOSE failure
108	(6C)	X'6'	0	STWNEIOE	"6" I/O error
108	(6C)	X'7'	0	STWNECBI	"7" CBIO failure
108	(6C)	X'8'	0	STWNENJH	"8" NJE Header/Trailer build
108	(6C)	X'9'	0	STWNESEQ	"9" Record sequencing error
108	(6C)	X'A'	0	STWNEGG	"10" Grouping error
108	(6C)	X'B'	0	STWNESJF	"11" SJF error
108	(6C)	X'C'	0	STWNESAF	"12" SAF check failure
109	(6D)	BITSTRING	7	STWCRSV2	Reserved
120	(78)	DBL WORD	8	STWDBL	Doubleword work area
128	(80)	DBL WORD	8	STWDBLE	Doubleword work area 2
136	(88)	DBL WORD	8	STWDBLE1	Doubleword work area 3
136	(88)	X'80'	0	STWWRK16	"STWDBLE,16,C'X'" 16-byte work area
136	(88)	X'78'	0	STWWRK24	"STWDBL,24,C'X'" 24-byte work area
144	(90)	ADDRESS	4	STWNDH	Network dataset header address
148	(94)	SIGNED	8	STWKEY(0)	JOB AND DATA SET KEYS
148	(94)	SIGNED	4	STWJBKEY	JOB KEY
152	(98)	SIGNED	4	STWDSKEY	DATA SET KEY

Table 524. Structure STW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
156	(9C)	ADDRESS	4	STWPDDB	PDDB address
160	(A0)	SIGNED	4	STWHDRCT	Number of ds headers in current multi-dest ds
164	(A4)	BITSTRING	4	STWCRSV3	Reserved
168	(A8)	DBL WORD	8	(0)	Force alignment
168	(A8)	X'48'	0	STWCLEAR	"STWCLRST,*-STWCLRST,C'X'" Area to clear
168	(A8)	X'A8'	0	STWCINIT	"*" Start of area to clear
168	(A8)	SIGNED	4	STWJOEO	Current JOE offset
172	(AC)	SIGNED	4	STWNRECT	JESNEWS line count
176	(B0)	SIGNED	4	STWNPGCT	JESNEWS page count
180	(B4)	ADDRESS	4	STWJOA	JOA address
184	(B8)	SIGNED	4	STWSEGID	Segment ID from PDDB
188	(BC)	ADDRESS	4	STWPDDBP	Previous PDDB
192	(C0)	ADDRESS	4	STWSWPTL	Address of SWBTU pointer list used by SJF SWBTU services
196	(C4)	SIGNED	4	STWNETCH	Head of xmitter's JOE chain This is always an offset
200	(C8)	SIGNED	4	STWJOEOF	Offset of JOE
204	(CC)	ADDRESS	4	STWCHARJ	Address of CHAR JOE
208	(D0)	ADDRESS	4	STWENPDB	POINTER PAST END OF PDDB'S IN IOT
212	(D4)	SIGNED	2	STWSWBL	Total size of SWBTUs
214	(D6)	SIGNED	2	STWNSWB	Total number of SWBTUs
216	(D8)	SIGNED	4	STWBKUPP	Backup pointer Joe/PDDB
220	(DC)	SIGNED	2	STWJID2	JOE's output group 2nd id
222	(DE)	BITSTRING	1	STWFDSER	Flags chking for null ds
		1...		STWFNULD	"B'10000000'" Null dataset error
		.1..		STWFOFJQ	"B'01000000'" Job held by offload
		1		STWFRFND	"B'00000001'" Valid data records in DS
223	(DF)	CHARACTER	9		Reserved
232	(E8)	BITSTRING	1	STWFLAG3	GENERAL USE FLAG BYTE
		1...		STW3ES57	"B'10000000'" PRODUCE THE ESS SECTION OF THE SMF TYPE 57 RECORD
		.1..		STW3BFER	"B'01000000'" LARGE SMF BUFFER TOO SMALL TO HOLD SWBTU
		..1.		STW3MERG	"B'00100000'" SWBTU merge is required for this data set
		...1		STW3SWRD	"B'00010000'" 1 - The JOE SWBIT chain is to be read in 0 - The PDDB SWBIT chain is to be read in
		.... 1...		STW3OPER	"B'00001000'" A SWBIT read error occurred
		.... ..1.		STW3ERON	"B'00000010'" The JOE SWBIT chain only contains erase lists
		1		STW3SMAB	"B'00000001'" Abend in $SWBMERG service
233	(E9)	BITSTRING	1	STWFLAGS	INTERNAL FLAGS FOR TRANSMITTER

Table 524. Structure STW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		STW$NORM	"B'10000000'" NORMAL DATA SETS TO TRANSMIT
		.1..		STW$SPIN	"B'01000000'" SPIN DATA SETS TO TRANSMIT
		..1.		STW$IDLE	"B'00100000'" 'IDLE' MESSAGE ISSUED
		...1		STW$MULT	"B'00010000'" MULTI-DESTINATION SCAN MODE
		.... 1...		STW$JOBL	"B'00001000'" JESMSGLG data set sent
		.... .1..		STW$AUTH	"B'00000100'" Authorization failure
		.... ..1.		STW$IOT	"B'00000010'" IOT SPOOL I/O ERROR
		1		STW$INV	"B'00000001'" FIRST BLOCK IS INVALID
234	(EA)	BITSTRING	1	STWJQEFL	JQE flag byte
		1...		STWJHOPR	"B'10000000'" Reset NJE hop count when retransmitting job
235	(EB)	BITSTRING	1	STWWJFLG	Work JOE flags
236	(EC)	CHARACTER	8	STWCRUID	Creator userid for Dataset
244	(F4)	CHARACTER	8	STWUSER	User ID
244	(F4)	X'54'	0	STWCINIL	"*-STWCINIT" Length to clear
252	(FC)	ADDRESS	4	STWSTEE	Chain of ENF elements
256	(100)	CHARACTER	260	STWCWORK	Work area
256	(100)	X'204'	0	STWLEN	"*-STW" Size of STW
The following fields exist only in the STW in the NETSRV address space					
516	(204)	ADDRESS	4	STWACB	ACB address
520	(208)	ADDRESS	4	STWRPL	RPL address
524	(20C)	ADDRESS	4	STWSJB	SJB address
528	(210)	ADDRESS	4	STWSDB	SDB address
532	(214)	ADDRESS	4	STWDSIOT	IOT for dataset to send
536	(218)	ADDRESS	4	STWDSPDB	PDDB for dataset to send
540	(21C)	ADDRESS	4	STWNWIOT	IOT for JESNEWS
544	(220)	ADDRESS	4	STWNWPDB	PDDB for JESNEWS
548	(224)	ADDRESS	4	STWNWTTR	MTTR of JESNEWS IOT
552	(228)	BITSTRING	1	STWNFLG1	Progress flags
		1...		STWN1JHI	"B'10000000'" NJH creation in progress
		.1..		STWN1JHC	"B'01000000'" NJH creation complete
		..1.		STWN1JHS	"B'00100000'" NJH has been sent
		...1		STWN1GTI	"B'00010000'" Get is in progress
		.... 1...		STWN1JTI	"B'00001000'" NJT creation in progress
		.... .1..		STWN1JTC	"B'00000100'" NJT creation complete
		.... ..1.		STWN1JTS	"B'00000010'" NJT has been sent
		1		STWN1ERR	"B'00000001'" Error, abort transmission
553	(229)	BITSTRING	1	STWNFLG2	Progress flags

Table 524. Structure STW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		STWN2DHI	"B'10000000'" NDH creation in progress
		.1..		STWN2DHC	"B'01000000'" NDH creation complete
		..1.		STWN2DHS	"B'00100000'" NDH has been sent
		...1		STWN2OPE	"B'00010000'" Dataset open for XMIT
		.... 1...		STWN2CBI	"B'00001000'" IOT read started
		.... .1..		STWN2CBC	"B'00000100'" IOT read complete
		.... ..1.		STWN2INC	"B'00000010'" Incomplete send
		1		STWN2EOT	"B'00000001'" EOT has been sent
554	(22A)	BITSTRING	1	STWNFLG3	Progress flags
		1...		STWN3NWI	"B'10000000'" JESNEWS in process
		.1..		STWN3NWS	"B'01000000'" JESNEWS sent
		..1.		STWN3WJ2	"B'00100000'" Wait while JES2 down
555	(22B)	BITSTRING	1		Reserved
560	(230)	DBL WORD	8	(0)	
560	(230)	X'230'	0	STWCLEN	"*-STW" Length of STW in NETSRV address space

Table 525. Cross Reference for $STW

Name	Offset	Hex Tag
STW	0	
STW$AUTH	E9	4
STW$IDLE	E9	20
STW$INV	E9	1
STW$IOT	E9	2
STW$JOBL	E9	8
STW$MULT	E9	10
STW$NORM	E9	80
STW$SPIN	E9	40
STWACB	204	
STWAREA	20	
STWBKUPP	D8	
STWCHARJ	CC	
STWCINIL	F4	54
STWCINIT	A8	A8
STWCLEAR	A8	48
STWCLEN	230	230
STWCLRST	48	
STWCRSV1	12	
STWCRSV2	6D	
STWCRSV3	A4	
STWCRUID	EC	
STWCUREC	60	
STWCWORK	100	
STWDBL	78	
STWDBLE	80	

Table 525. Cross Reference for $STW (continued)

Name	Offset	Hex Tag
STWDBLE1	88	
STWDEVID	F	
STWDEVN	4	
STWDEVTP	E	
STWDSIOT	214	
STWDSKEY	98	
STWDSPDB	218	
STWECBCC	30	
STWENPDB	D0	
STWEYE	0	E2E3E640
STWFDSER	DE	
STWFLAGS	E9	
STWFLAG3	E8	
STWFNULD	DE	80
STWFOFJQ	DE	40
STWFRFND	DE	1
STWHDRCT	A0	
STWIOT	50	
STWIOTBF	50	50
STWJBKEY	94	
STWJCT	4C	
STWJHOPR	EA	80
STWJID2	DC	
STWJOA	B4	
STWJOBID	64	
STWJOEO	A8	
STWJOEOF	C8	
STWJQA	48	
STWJQE	48	48
STWJQEFL	EA	
STWKEY	94	
STWLEN	100	204
STWNDH	90	
STWNECBI	6C	7
STWNECLO	6C	5
STWNEGG	6C	A
STWNEIOE	6C	6
STWNEJOB	6C	1
STWNEJOE	6C	2
STWNENJH	6C	8
STWNEOPE	6C	4
STWNERRC	6C	
STWNESAF	6C	C
STWNESEQ	6C	9
STWNESJF	6C	B
STWNESUB	6C	3
STWNETCH	C4	
STWNFLG1	228	
STWNFLG2	229	

Table 525. Cross Reference for $STW (continued)

Name	Offset	Hex Tag
STWNFLG3	22A	
STWNITAD	34	
STWNITAL	38	
STWNITBL	3C	
STWNJH	54	
STWNJT	58	
STWNPGCT	B0	
STWNRECT	AC	
STWNSST	24	
STWNSWB	D6	
STWNWIOT	21C	
STWNWPDB	220	
STWNWTTR	224	
STWN1ERR	228	1
STWN1GTI	228	10
STWN1JHC	228	40
STWN1JHI	228	80
STWN1JHS	228	20
STWN1JTC	228	4
STWN1JTI	228	8
STWN1JTS	228	2
STWN2CBC	229	4
STWN2CBI	229	8
STWN2DHC	229	40
STWN2DHI	229	80
STWN2DHS	229	20
STWN2EOT	229	1
STWN2INC	229	2
STWN2OPE	229	10
STWN3NWI	22A	80
STWN3NWS	22A	40
STWN3WJ2	22A	20
STWPAREA	1C	
STWPDDB	9C	
STWPDDBP	BC	
STWRCOUN	5C	
STWRPL	208	
STWSDB	210	
STWSEGID	B8	
STWSJB	20C	
STWSQD	18	
STWSTEE	FC	
STWSWBL	D4	
STWSWPTL	C0	
STWTAREA	2C	
STWTBUF	28	
STWUSER	F4	
STWWAVE	14	
STWWJFLG	EB	

Table 525. Cross Reference for $STW (continued)

Name	Offset	Hex Tag
STWWRK16	88	80
STWWRK24	88	78
STWXDATE	44	
STWXTIME	40	
STW3BFER	E8	40
STW3ERON	E8	2
STW3ES57	E8	80
STW3MERG	E8	20
STW3OPER	E8	8
STW3SMAB	E8	1
STW3SWRD	E8	10

Chapter 215. $SWBIT Information

$SWBIT Programming Interface Information

$SWBIT is a programming interface.

$SWBIT Heading Information

Common Name:	Scheduler Work Block Information Table
Macro ID:	$SWBIT
DSECT Name:	SWBIT
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	SWBI Offset: SWBITID-SWBIT Length: L'SWBITID
Storage Attributes:	Subpool: 7 for Main Task, 230 for User Environment Key: 1 Residency: The $SWBIT is a JES2 spool resident control block. Virtual and real storage are anywhere.
Size:	See SWBISIZ for size of base SWBIT See SWBILENG for size of SWB data (SWBTU) See SWBELENG for size of TU Erase list
Created by:	JES2 NJE processing, JES2 SWB Modify processing, JES2 Subsystem Data Set Open processing, SJB Initialization routine SJBINIT in HASCSRJB.
Pointed to by:	SWBSWB field of the $SWBIT data area SWBSWBTR field of the $SWBIT data area (addr on spool) SWBTRACK field of the $SWBIT data area (addr on spool) JOESWBOT field of the $JOE data area (addr on spool) PDBSWBOT field of the $PDDB data area (addr on spool) SJBSWBUF field of the $SJB data area GCBJSWBT field of the $GCB data area GCBPSWBT field of the $GCB data area Various fields in the processor work areas and parameter lists.
Serialization:	The creation of the SWBIT during execution is serialized by the SJB Lock. For SWB Modify, the Job Lock is used for serialization. No other serialization is required.
Function:	This control block contains information for the Scheduler Work Block, including text units (SWBTU's) and Erase Text Unit lists (Erase TU's). The text units contain information from various sources such as the OUTPUT JCL statement and SDSF modification of output descriptors. Note that SWBDATOF should always be used to determine the start of the SWB data area. Equates are only used by code that creates the SWBIT structure.

$SWBIT mapping

Table 526. Structure SWBIT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SWBIT	HASP SWB INFORMATION TABLE
		The following fields are defined over the buffer prefix in order to ensure that they are never written to SPOOL.			
0	(0)	X'40'	0	SWBSWB	"BUFMEMW1-BFPDSECT+SWBIT" Storage address of next SWBIT
0	(0)	X'44'	0	SWBPSWB	"BUFMEMW2-BFPDSECT+SWBIT" Storage address of prior SWBIT
		End of buffer prefix fields			
0	(0)	BITSTRING	1	(0)	BUFFER INFORMATION
		Common section - All versions have this section (see SWBVERS for version info).			
0	(0)	X'68'	0	SWBSTART	"*"
		The following sub-section, generated by the SPID macro, must reside immediately after the I/O control data in every spool buffer. The following fields are defined: Eyecatcher - 4 bytes Job name - 8 bytes Job number - 4 bytes Job key - 4 bytes Dataset key - 4 bytes (or reserved if not applicable)			
104	(68)	CHARACTER	4	SWBITID	Eyecatcher
108	(6C)	CHARACTER	8	SWBJNAME	Job name
116	(74)	SIGNED	4	SWBJBNUM	Job number
120	(78)	BITSTRING	8	SWBKEY(0)	Record verification key
120	(78)	SIGNED	4	SWBJBKEY	Job key
124	(7C)	SIGNED	4	SWBDSKEY	Dataset key
124	(7C)	X'18'	0	SWBSPLNG	"*-SWBITID"
		The following EQUs are defined here only for compatibility. For all future references of job key, data set key and job name, the new names defined in SPID should be used.			
124	(7C)	X'78'	0	SWBJKEY	"SWBJBKEY" EQU for Job key
124	(7C)	X'7C'	0	SWBDKEY	"SWBDSKEY" EQU for data set key
124	(7C)	X'6C'	0	SWBJOBNM	"SWBJNAME" EQU for job name
128	(80)	ADDRESS	2	SWBILENG	LEN OF SWB DATA RET BY GETSWB
130	(82)	ADDRESS	2	SWBELENG	Len of TU Erase list
132	(84)	ADDRESS	4	SWBTRACK	Track address (MTTR) of this SWBIT.
136	(88)	ADDRESS	4	SWBSWBTR	Track address (MTTR) of next SWBIT.
140	(8C)	ADDRESS	1	SWBDATOF	Offset from SWBSTART to SWB data field
141	(8D)	SIGNED	1	SWBVERS	SWB structure version:
141	(8D)	X'0'	0	SWBVER0	"0" Pre-z/OS 1.12 - no extended section (see below).
141	(8D)	X'C'	0	SWBVER12	"12" z/OS 1.12+ - has extended section (see below).

Table 526. Structure SWBIT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
142	(8E)	BITSTRING	6	SWBIOTMQ	IOT with owning PDDB (MQTR)
142	(8E)	X'2C'	0	SWBDATST_Z11	"*-SWBSTART" Offset from header to SWB data - Pre Z/OS 1.12 (if version is SWBVER0)
142	(8E)	X'94'	0	SWBISIZ_Z11	"*-SWBIT" Size of SWBIT header - Pre Z/OS 1.12 (if version is SWBVER0)
148	(94)	SIGNED	4	SWBDATA_Z11(0)	Start of SWB data - Pre Z/OS 1.12 (if version is SWBVER0)
		SWBIT extension - The following fields are only valid at version SWBVER12+			
148	(94)	BITSTRING	6	SWBMQTRK	Track address (MQTR) of this SWBIT.
154	(9A)	BITSTRING	6	SWBNXTRK	Track address (MQTR) of next SWBIT.
160	(A0)	BITSTRING	12		Reserved for future use
160	(A0)	X'44'	0	SWBDATST_Z12	"*-SWBSTART" Offset from header to SWB data - Z/OS 1.12+ (if version is SWBVER12)
160	(A0)	X'AC'	0	SWBISIZ_Z12	"*-SWBIT" Size of SWBIT header - Z/OS 1.12+ (if version is SWBVER12)
172	(AC)	SIGNED	4	SWBDATA_Z12(0)	Start of SWB data - Z/OS 1.12+ (if version is SWBVER12)

Table 527. Cross Reference for $SWBIT

Name	Offset	Hex Tag
SWBDATA_Z11	94	
SWBDATA_Z12	AC	
SWBDATOF	8C	
SWBDATST_Z11	8E	2C
SWBDATST_Z12	A0	44
SWBDKEY	7C	7C
SWBDSKEY	7C	
SWBELENG	82	
SWBILENG	80	
SWBIOTMQ	8E	
SWBISIZ_Z11	8E	94
SWBISIZ_Z12	A0	AC
SWBIT	0	
SWBITID	68	
SWBJBKEY	78	
SWBJBNUM	74	
SWBJKEY	7C	78
SWBJNAME	6C	
SWBJOBNM	7C	6C
SWBKEY	78	
SWBMQTRK	94	
SWBNXTRK	9A	

Table 527. Cross Reference for $SWBIT (continued)

Name	Offset	Hex Tag
SWBPSWB	0	44
SWBSPLNG	7C	18
SWBSTART	0	68
SWBSWB	0	40
SWBSWBTR	88	
SWBTRACK	84	
SWBVERS	8D	
SWBVER0	8D	0
SWBVER12	8D	C

Chapter 216. $SXADDR Information

$SXADDR Programming Interface Information

$SXADDR is a programming interface.

$SXADDR Heading Information

Common Name:	Scan Exit Routine Address Table/DSECT
Macro ID:	$SXADDR
DSECT Name:	SXADDR
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'SXAD' Offset: SXADDRID-SXADDR Length: 4
Storage Attributes:	Subpool: The subpool of the HASJES20 load module Key: 1 Residency: Virtual and real storage are below 16M, in the private storage of the JES2 address space.
Size:	See SXADDRLN
Created by:	The $SXADDR is created by assembly of the HASPTABS module in the HASJES20 load module.
Pointed to by:	$SXADDR field of the $HCT data area
Serialization:	Read only
Function:	The SXADDR contains the addresses of all JES2 $SCAN prescan and postscan routines. This allows the routines to be referenced in USER tables without requiring those tables to be link-edited with the HASJES20 load module This macro has a DSECT= parameter. If DSECT=YES is used, the DSECT is generated, otherwise the table is expanded.

$SXADDR mapping

Table 528. Structure SXADDR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SXADDR	JES2 private storage routine address table DSECT
0	(0)	CHARACTER	4	SXADDRID	SXADDR TABLE EYECATCHER
4	(4)	ADDRESS	1	SXADDRV	VERSION NUMBER
4	(4)	X'1'	0	SXADDRVN	"1" VERSION NUMBER
5	(5)	BITSTRING	3		RESERVED FOR FUTURE USE
Module HASPSXIT exit routines					
8	(8)	ADDRESS	4	SX@PREDBADT	"V(PREDBADT)" BADTRACK prescan
12	(C)	ADDRESS	4	SX@PSTBADTR	"V(PSTBADTR)" BADTRACK postscan
16	(10)	ADDRESS	4	SX@PSTADDR	"V(PSTADDR)" BADTRACK ADDR= postscan
20	(14)	ADDRESS	4	SX@PSTBUF	"V(PSTBUF)" BUFDEF postscan

Table 528. Structure SXADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
24	(18)	ADDRESS	4	SX@PSTCHARS	"V(PSTCHARS)" COMPACT CHARS= postscan
28	(1C)	ADDRESS	4	SX@PRECKPT	"V(PRECKPT)" CKPTDEF prescan
32	(20)	ADDRESS	4	SX@PRECKPTN	"V(PRECKPTN)" CKPTDEF CKPTn/NEWCKPTn prescan
36	(24)	ADDRESS	4	SX@PRECKVRS	"V(PRECKVRS)" CKPTDEF VERSIONS=NUMBER= prescan
40	(28)	ADDRESS	4	SX@PSTCKPT	"V(PSTCKPT)" CKPTDEF postscan
44	(2C)	ADDRESS	4	SX@PSTCKPTN	"V(PSTCKPTN)" CKPTDEF CKPTn/NEWCKPTn postscan
48	(30)	ADDRESS	4	SX@PSTCKVRS	"V(PSTCKVRS)" CKPTDEF VERSIONS=NUMBER= postscan
52	(34)	ADDRESS	4	SX@PSTDSN	"V(PSTDSN)" CKPTDEF CKPT1/NEWCKPT1 DSNAME= postscan
56	(38)	ADDRESS	4	SX@PSTCKVOL	"V(PSTCKVOL)" CKPTDEF CKPT1/NEWCKPT1 VOLUME= postscan
60	(3C)	ADDRESS	4	SX@PSTCF	"V(PSTCF)" CKPTDEF CKPT1/NEWCKPT1 STRNAME= postscan
64	(40)	ADDRESS	4	SX@PREVOLT	"V(PREVOLT)" CKPTDEF CKPTn=VOLATILE= prescan
68	(44)	ADDRESS	4	SX@PRECKSP	"V(PRECKSP)" CKPTDEF CKPTn=SPACE= prescn
72	(48)	ADDRESS	4	SX@PSTCKSPX	"V(PSTCKSPX)" CKPTDEF CKPTn=SPACE= postsc
76	(4C)	ADDRESS	4	SX@PSTCKMOD	"V(PSTCKMOD)" CKPTDEF MODE= postscan
80	(50)	ADDRESS	4	SX@PSTCKLCK	"V(PSTCKLCK)" $E CKPTLOCK postscan
84	(54)	ADDRESS	4	SX@PSTCKPSP	"V(PSTCKPSP)" CKPTSPACE postscan for $T
88	(58)	ADDRESS	4	SX@PREBRNUM	"V(PREBRNUM)" CKPTSPACE BERTNUM= prescan
92	(5C)	ADDRESS	4	SX@PREBRTUS	"V(PREBRTUS)" CKPTSPACE BERTUSE prescan
96	(60)	ADDRESS	4	SX@PRECLSGP	"V(PRECLSGP)" CLASSGRP prescan
100	(64)	ADDRESS	4	SX@PSTCLSGP	"V(PSTCLSGP)" CLASSGRP postscan
104	(68)	ADDRESS	4	SX@PRECLGCT	"V(PRECLGCT)" CLASSGRP CLASS prescan
108	(6C)	ADDRESS	4	SX@PREDCOMP	"V(PREDCOMP)" COMPACT prescan
112	(70)	ADDRESS	4	SX@PSTCOMP	"V(PSTCOMP)" COMPACT postscan
116	(74)	ADDRESS	4	SX@PREDCHAR	"V(PREDCHAR)" COMPACT CHARS= prescan
120	(78)	ADDRESS	4	SX@PSTCMB	"V(PSTCMB)" CONDEF postscan
124	(7C)	ADDRESS	4	SX@PSTPREFX	"V(PSTPREFX)" CONDEF postscan
128	(80)	ADDRESS	4	SX@PSTCNCHR	"V(PSTCNCHR)" CONDEF CONCHAR= postscan
132	(84)	ADDRESS	4	SX@PSTRDCHR	"V(PSTRDCHR)" CONDEF RDRCHAR= postscan
136	(88)	ADDRESS	4	SX@PSTSCOPE	"V(PSTSCOPE)" CONDEF SCOPE= postscan
140	(8C)	ADDRESS	4	SX@PSTDEBUG	"V(PSTDEBUG)" DEBUG postscan
144	(90)	ADDRESS	4	SX@PSTDBUGA	"V(PSTDBUGA)" DEBUG set all postscan

Table 528. Structure SXADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
148	(94)	ADDRESS	4	SX@PREDEST	"V(PREDEST)" DESTID DEST= prescan
152	(98)	ADDRESS	4	SX@PREDESI	"V(PREDESI)" DESTID prescan
156	(9C)	ADDRESS	4	SX@PSTDESI	"V(PSTDESI)" DESTID postscan
160	(A0)	ADDRESS	4	SX@PSTEST	"V(PSTEST)" ESTBYTE/ESTIME/ ESTLNCT/ESTPAGE/ ESTPUN postscan
164	(A4)	ADDRESS	4	SX@PREEXIT	"V(PREEXIT)" EXIT prescan
168	(A8)	ADDRESS	4	SX@PSTEXIT	"V(PSTEXIT)" EXIT postscan
172	(AC)	ADDRESS	4	SX@PREEXRTN	"V(PREEXRTN)" EXIT ROUTINES= prescan
176	(B0)	ADDRESS	4	SX@PREDSBEX	"V(PREDSBEX)" EXIT ROUTINES= vector pre
180	(B4)	ADDRESS	4	SX@PSTDSBEX	"V(PSTDSBEX)" EXIT ROUTINES= vector post
184	(B8)	ADDRESS	4	SX@PREFSSDF	"V(PREFSSDF)" FSS prescan
188	(BC)	ADDRESS	4	SX@PSTFSSDF	"V(PSTFSSDF)" FSS postscan
192	(C0)	ADDRESS	4	SX@PREZJCUS	"V(PREZJCUS)" GRPDEF ZJCUSE prescan
196	(C4)	ADDRESS	4	SX@PSTGRPDF	"V(PSTGRPDF)" GRPDEF postscan for $T
200	(C8)	ADDRESS	4	SX@PSTJGNUM	"V(PSTJGNUM)" GRPDEF GRPNUM= postscan
204	(CC)	ADDRESS	4	SX@PREINCL	"V(PREINCL)" INCLUDE Prescan
208	(D0)	ADDRESS	4	SX@PSTINCL	"V(PSTINCL)" INCLUDE Postscan
212	(D4)	ADDRESS	4	SX@PSTINCDS	"V(PSTINCDS)" INCLUDE DSNAME= Postscan
216	(D8)	ADDRESS	4	SX@CLNUPPRW	"V(CLNUPPRW)" INCLUDE cleanup routine
220	(DC)	ADDRESS	4	SX@PREINIT	"V(PREINIT)" INIT prescan
224	(E0)	ADDRESS	4	SX@PSTINIT	"V(PSTINIT)" INIT postscan
228	(E4)	ADDRESS	4	SX@PREPSJB	"V(PREPSJB)" INIT subparm= prescan
232	(E8)	ADDRESS	4	SX@PREPITCL	"V(PREPITCL)" INIT CLASS= prescan
236	(EC)	ADDRESS	4	SX@PREPTVCL	"V(PREPTVCL)" INIT CLASS= vector prescan
240	(F0)	ADDRESS	4	SX@PSTCLASV	"V(PSTCLASV)" INIT CLASS= postscan verify
244	(F4)	ADDRESS	4	SX@PREINECL	"V(PREINECL)" INIT INELIGIBLE_CLASS= prescan
248	(F8)	ADDRESS	4	SX@PSTINPDF	"V(PSTINPDF)" INPUTDEF postscan
252	(FC)	ADDRESS	4	SX@PSTJECDF	"V(PSTJECDF)" JECLDEF postscan
256	(100)	ADDRESS	4	SX@PSTJOBCL	"V(PSTJOBCL)" CLASS= validation postscan
260	(104)	ADDRESS	4	SX@PRE608	"V(PRE608)" JES2 HASP607 rc prescan
264	(108)	ADDRESS	4	SX@PREAPCE	"V(PREAPCE)" JES2 active PCE prescan
268	(10C)	ADDRESS	4	SX@PREACTAS	"V(PREACTAS)" JES2 active addr sp prescan
272	(110)	ADDRESS	4	SX@PREANETW	"V(PREANETW)" JES2 active network prescan
276	(114)	ADDRESS	4	SX@PREHPCE	"V(PREHPCE)" JES2 held PCE prescan

Table 528. Structure SXADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
280	(118)	ADDRESS	4	SX@PREIREA	"V(PREIREA)" JES2 alloc INTRDR prescan
284	(11C)	ADDRESS	4	SX@PREXMEMB	"V(PREXMEMB)" JES2 X-memb request prescan
288	(120)	ADDRESS	4	SX@PREEOMCT	"V(PREEOMCT)" JES2 EOM activity prescan
292	(124)	ADDRESS	4	SX@PREPSOCT	"V(PREPSOCT)" JES2 PSO activity prescan
296	(128)	ADDRESS	4	SX@PRESAPCT	"V(PRESAPCT)" JES2 SAPI activity prescan
300	(12C)	ADDRESS	4	SX@PREDEVNM	"V(PREDEVNM)" JES2 Device name prescan
304	(130)	ADDRESS	4	SX@PREDIL	"V(PREDIL)" JES2 DWA BERT prescan
308	(134)	ADDRESS	4	SX@PRESPM	"V(PRESPM)" JES2 SPOOL Migration DTE
312	(138)	ADDRESS	4	SX@PSTDEVST	"V(PSTDEVST)" JES2/NET Line device status
316	(13C)	ADDRESS	4	SX@PSTCATAC	"V(PSTCATAC)" JOBCLASS ACTIVE= postscan
320	(140)	ADDRESS	4	SX@PREDAUTH	"V(PREDAUTH)" JOBCLASS/STCCLASS/TSUCLASS AUTH= prescan
324	(144)	ADDRESS	4	SX@PREAUTH	"V(PREAUTH)" JOBCLASS/STCCLASS/ TSUCLASS AUTH prescan
328	(148)	ADDRESS	4	SX@PSTQHPST	"V(PSTQHPST)" JOBCLASS QHELD,TYPE,MAX
332	(14C)	ADDRESS	4	SX@PSTJQPST	"V(PSTJQPST)" General routine to post XEQ
336	(150)	ADDRESS	4	SX@PSTOGDJC	"V(PSTOGDJC)" JOBCLASS/STCCLASS/TSUCLASS OUTDISP= postscan
340	(154)	ADDRESS	4	SX@PREOGDJC	"V(PREOGDJC)" JOBCLASS/STCCLASS/TSUCLASS OUTDISP= prescan
344	(158)	ADDRESS	4	SX@PREREGN	"V(PREREGN)" JOBCLASS/STCCLASS/ TSUCLASS REGION= prescan
348	(15C)	ADDRESS	4	SX@PSTREGN	"V(PSTREGN)" JOBCLASS/STCCLASS/ TSUCLASS REGION= postscan
352	(160)	ADDRESS	4	SX@PSTCAT	"V(PSTCAT)" JOBCLASS/STCCLASS/ TSUCLASS command postscan
356	(164)	ADDRESS	4	SX@PSTCATI	"V(PSTCATI)" JOBCLASS init stmt postscan
360	(168)	ADDRESS	4	SX@PSTCATNW	"V(PSTCATNW)" JOBCLASS postscan
364	(16C)	ADDRESS	4	SX@PREJESLS	"V(PREJESLS)" JOBCLASS JESLOG SET prescan
368	(170)	ADDRESS	4	SX@PREJESLD	"V(PREJESLD)" JOBCLASS JESLOG DISP prescn
372	(174)	ADDRESS	4	SX@PSTDUPLC	"V(PSTDUPLC)" JOBCLASS DUPL_JOB= postscan
376	(178)	ADDRESS	4	SX@PSTJOBDF	"V(PSTJOBDF)" JOBDEF postscan for $T
380	(17C)	ADDRESS	4	SX@PSTJBJNC	"V(PSTJBJNC)" JOBDEF postscan for $T of BAD_JOBNAME_CHAR

Table 528. Structure SXADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
384	(180)	ADDRESS	4	SX@PSTJBNUM	"V(PSTJBNUM)" JOBDEF JOBNUM= postscan
388	(184)	ADDRESS	4	SX@PREJRBLD	"V(PREJRBLD)" JOBDEF JOBRBLDQ=/OUTDEF JOERBLDQ= prescan
392	(188)	ADDRESS	4	SX@PSTJRNG	"V(PSTJRNG)" JOBDEF RANGE postscan
396	(18C)	ADDRESS	4	SX@PSTPRTY	"V(PSTPRTY)" JOBDEF PRTYRATE= postscan
400	(190)	ADDRESS	4	SX@PSTDUPL	"V(PSTDUPL)" JOBDEF DUPL_JOB= postscan
404	(194)	ADDRESS	4	SX@PSTDEFCL	"V(PSTDEFCL)" JOBDEF DEF_CLASS= postscan
408	(198)	ADDRESS	4	SX@PSTEVTLS	"V(PSTEVTLS)" JOBDEF SUP_EVENTLOG_SMF pst
412	(19C)	ADDRESS	4	SX@PREMESYS	"V(PREMESYS)" MASDEF AUTOEMEM= prescan
416	(1A0)	ADDRESS	4	SX@PSTMESYS	"V(PSTMESYS)" MASDEF AUTOEMEM= postscan
420	(1A4)	ADDRESS	4	SX@PRERHELD	"V(PRERHELD)" MASDEF RSVHELD= prescan
424	(1A8)	ADDRESS	4	SX@PREDRHL	"V(PREDRHL)" MASDEF HOLD= and DORMANCY= prescan
428	(1AC)	ADDRESS	4	SX@PSTDRHL	"V(PSTDRHL)" MASDEF HOLD= and DORMANCY= postscan
432	(1B0)	ADDRESS	4	SX@PSTMASDF	"V(PSTMASDF)" MASDEF ENF= postscan
436	(1B4)	ADDRESS	4	SX@PSTCCM1	"V(PSTCCM1)" MASDEF CYCLEMGT= postscan
440	(1B8)	ADDRESS	4	SX@PSTCCM2	"V(PSTCCM2)" MASDEF CYCLEMGT= postscan
444	(1BC)	ADDRESS	4	SX@PREDQST	"V(PREDQST)" MEMBER STATUS= prescan
448	(1C0)	ADDRESS	4	SX@PREMDEFD	"V(PREMDEFD)" MEMBER IND= prescan
452	(1C4)	ADDRESS	4	SX@PSTSNAME	"V(PSTSNAME)" MEMBER NAME=/MASDEF OWNMEMB= postscan
456	(1C8)	ADDRESS	4	SX@PREDSID	"V(PREDSID)" MEMBER RESETBY=, SPOOL MIGRATOR prescan
460	(1CC)	ADDRESS	4	SX@PSTMIND	"V(PSTMIND)" MEMBER IND= postscan
464	(1D0)	ADDRESS	4	SX@PSTEMEM	"V(PSTEMEM)" MEMBER postscan
468	(1D4)	ADDRESS	4	SX@PREDEMEM	"V(PREDEMEM)" MEMBER prescan
472	(1D8)	ADDRESS	4	SX@PRECKPTT	"V(PRECKPTT)" MEMBER TIME= prescan
476	(1DC)	ADDRESS	4	SX@PREMSNM	"V(PREMSNM)" MEMBER SYSNAME= prescan
480	(1E0)	ADDRESS	4	SX@PREDSLIM	"V(PREDSLIM)" OUTDEF DSLIMIT= prescan
484	(1E4)	ADDRESS	4	SX@PREJOEUS	"V(PREJOEUS)" OUTDEF JOEUSE prescan
488	(1E8)	ADDRESS	4	SX@PREOUTJX	"V(PREOUTJX)" OUTDEF WS_OPT= prescan
492	(1EC)	ADDRESS	4	SX@PREXWA	"V(PREXWA)" OUTDEF prescan

Table 528. Structure SXADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
496	(1F0)	ADDRESS	4	SX@PSTLDSR	"V(PSTLDSR)" OUTDEF DSLIMIT= postscan
500	(1F4)	ADDRESS	4	SX@PSTOUTDF	"V(PSTOUTDF)" OUTDEF postscan for $T
504	(1F8)	ADDRESS	4	SX@PSTOUTDO	"V(PSTOUTDO)" OUTDEF LDEV_OPT= postscan
508	(1FC)	ADDRESS	4	SX@PSTOUTSO	"V(PSTOUTSO)" OUTDEF SAPI_OPT= postscan
512	(200)	ADDRESS	4	SX@PSTOUTJX	"V(PSTOUTJX)" OUTDEF WS_OPT= postscan
516	(204)	ADDRESS	4	SX@PSTJONUM	"V(PSTJONUM)" OUTDEF JOENUM= postscan
520	(208)	ADDRESS	4	SX@PSTPRYO	"V(PSTPRYO)" OUTDEF PRYORATE= postscan
524	(20C)	ADDRESS	4	SX@PSTROPT	"V(PSTROPT)" OUTDEF PRTYOUT= postscan
528	(210)	ADDRESS	4	SX@PSTSEGLM	"V(PSTSEGLM)" OUTDEF SEGLIM= postscan
532	(214)	ADDRESS	4	SX@PREOGDOS	"V(PREOGDOS)" OUTCLASS prescan
536	(218)	ADDRESS	4	SX@PSTOGDOS	"V(PSTOGDOS)" OUTCLASS postscan
540	(21C)	ADDRESS	4	SX@PREOGDOC	"V(PREOGDOC)" OUTCLASS OUTDISP= prescan
544	(220)	ADDRESS	4	SX@PSTOGDOC	"V(PSTOGDOC)" OUTCLASS OUTDISP= postscan
548	(224)	ADDRESS	4	SX@PREPCETB	"V(PREPCETB)" PCE command prescan
552	(228)	ADDRESS	4	SX@PSTPCETB	"V(PSTPCETB)" PCE set command pstscan
556	(22C)	ADDRESS	4	SX@PREPCEDT	"V(PREPCEDT)" PCE DETAILS prescan
560	(230)	ADDRESS	4	SX@PREPCEDN	"V(PREPCEDN)" PCE DETAILS NAME prescan
564	(234)	ADDRESS	4	SX@PREPCEWF	"V(PREPCEWF)" PCE DETAILS WAIT prescan
568	(238)	ADDRESS	4	SX@PREPCEDJ	"V(PREPCEDJ)" PCE DETAILS CURJOB prescan
572	(23C)	ADDRESS	4	SX@PREPCEFW	"V(PREPCEFW)" PCE DETAILS subparm prescan
576	(240)	ADDRESS	4	SX@PREPRFRS	"V(PREPRFRS)" PERFDATA RESET prescan
580	(244)	ADDRESS	4	SX@PREPRFSU	"V(PREPRFSU)" PERFDATA setup prescan
584	(248)	ADDRESS	4	SX@PREEVDUR	"V(PREEVDUR)" PERFDATA(EVENT) DURATION=
588	(24C)	ADDRESS	4	SX@PREPRFPC	"V(PREPRFPC)" PERFDATA(PCESTAT) CPU% prescan
592	(250)	ADDRESS	4	SX@PREPRFNL	"V(PREPRFNL)" PERFDATA(PCESTAT) PCENAME= prescan
596	(254)	ADDRESS	4	SX@PREPRFFL	"V(PREPRFFL)" PERFDATA(PCESTAT) PCENAME= prescan
600	(258)	ADDRESS	4	SX@PREPRFPS	"V(PREPRFPS)" PERFDATA(PCESTAT) POST= prescan
604	(25C)	ADDRESS	4	SX@PREWAITP	"V(PREWAITP)" PERFDATA(PCESTAT) WAIT= prescan

Table 528. Structure SXADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
608	(260)	ADDRESS	4	SX@PREPRFWA	"V(PREPRFWA)" PERFDATA(PCESTAT) AVGWAIT= prescan
612	(264)	ADDRESS	4	SX@PREPRFPA	"V(PREPRFPA)" PERFDATA(PCESTAT) AVGWAIT= prescan
616	(268)	ADDRESS	4	SX@PREPRFQA	"V(PREPRFQA)" PERFDATA(QSUSE) AVGWAIT= prescan
620	(26C)	ADDRESS	4	SX@PREPDRPT	"V(PREPDRPT)" PERFDATA(SAMPDATA) RPTCLASS=
624	(270)	ADDRESS	4	SX@PREPDSRV	"V(PREPDSRV)" PERFDATA(SAMPDATA) SRVCLASS=
628	(274)	ADDRESS	4	SX@PREWSC	"V(PREWSC)" PERFDATA(SAMPDATA) and SRVCLASS prescan
632	(278)	ADDRESS	4	SX@PREWSCA	"V(PREWSCA)" SRVCLASS prescan for $ADD
636	(27C)	ADDRESS	4	SX@PSTWSCA	"V(PSTWSCA)" SRVCLASS pstscan for $ADD
640	(280)	ADDRESS	4	SX@PSTWSCB	"V(PSTWSCB)" SRVCLASS pstscan for $ADD
644	(284)	ADDRESS	4	SX@PREPRFZR	"V(PREPRFZR)" PERFDATA skip if 0 prescan
648	(288)	ADDRESS	4	SX@PREPRFCT	"V(PREPRFCT)" PERFDATA skip if CYCLEMGT=MANUAL
652	(28C)	ADDRESS	4	SX@PREPRFDT	"V(PREPRFDT)" PERFDATA microsecond display prescan
656	(290)	ADDRESS	4	SX@PSTPRTDF	"V(PSTPRTDF)" PRINTDEF postscan for $T
660	(294)	ADDRESS	4	SX@PSTRECV	"V(PSTRECV)" RECVOPTS postscan
664	(298)	ADDRESS	4	SX@PRERDSTM	"V(PRERDSTM)" REDIRECT prescan
668	(29C)	ADDRESS	4	SX@PSTRDSTM	"V(PSTRDSTM)" REDIRECT postscan
672	(2A0)	ADDRESS	4	SX@PRECMDR	"V(PRECMDR)" REDIRECT subparm= prescan
676	(2A4)	ADDRESS	4	SX@PRESPOOL	"V(PRESPOOL)" SPOOL prescan
680	(2A8)	ADDRESS	4	SX@PREISPOL	"V(PREISPOL)" SPOOL init stmt prescan
684	(2AC)	ADDRESS	4	SX@PSTSPOOL	"V(PSTSPOOL)" SPOOL postscan
688	(2B0)	ADDRESS	4	SX@PREDUSEC	"V(PREDUSEC)" SPOOL TGINUSE= prescan
692	(2B4)	ADDRESS	4	SX@PREDUSEP	"V(PREDUSEP)" SPOOL PERCENT= prescan
696	(2B8)	ADDRESS	4	SX@CVLDRAIN	"V(CVLDRAIN)" SPOOL AWAITING= prescan
700	(2BC)	ADDRESS	4	SX@PREDSSAF	"V(PREDSSAF)" SPOOL SYSAFF= prescan
704	(2C0)	ADDRESS	4	SX@PREISPSF	"V(PREISPSF)" SPOOL INIT SYSAFF= prescan
708	(2C4)	ADDRESS	4	SX@PREFSPAF	"V(PREFSPAF)" SPOOL SYSAFF= prescan fltr
712	(2C8)	ADDRESS	4	SX@PSTSPDSN	"V(PSTSPDSN)" SPOOL DSNAME= postscan
716	(2CC)	ADDRESS	4	SX@PREATTR	"V(PREATTR)" SPOOL unit data attributes
720	(2D0)	ADDRESS	4	SX@PREDSTS	"V(PREDSTS)" SPOOL STATUS= prescan

Table 528. Structure SXADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
724	(2D4)	ADDRESS	4	SX@PSTDWRKQ	"V(PSTDWRKQ)" SPOOL STATUS= postscan
728	(2D8)	ADDRESS	4	SX@PSTSPSAF	"V(PSTSPSAF)" SPOOL SYSAFF= postscan
732	(2DC)	ADDRESS	4	SX@PRESPST	"V(PRESPST)" SPOOL SPACE= prescan
736	(2E0)	ADDRESS	4	SX@PSTSPSTX	"V(PSTSPSTX)" SPOOL SPACE= postscan
740	(2E4)	ADDRESS	4	SX@PSTSPTAR	"V(PSTSPTAR)" SPOOL TARGET= postscan
744	(2E8)	ADDRESS	4	SX@PREMIGDA	"V(PREMIGDA)" SPOOL MIGDATA= prescan
748	(2EC)	ADDRESS	4	SX@PREMPERC	"V(PREMPERC)" SPOOL MPERCENT= prescan
752	(2F0)	ADDRESS	4	SX@PREDRSVD	"V(PREDRSVD)" SPOOL RESERVED= prescan
756	(2F4)	ADDRESS	4	SX@PREABSTR	"V(PREABSTR)" SPOOL ABSTR= prescan
760	(2F8)	ADDRESS	4	SX@PSTSPLDF	"V(PSTSPLDF)" SPOOLDEF postscan for $T
764	(2FC)	ADDRESS	4	SX@PSTFEN	"V(PSTFEN)" SPOOLDEF postscan for $T
768	(300)	ADDRESS	4	SX@PRECYLDS	"V(PRECYLDS)" SPOOLDEF CYL_MANAGED = prescan
772	(304)	ADDRESS	4	SX@PSTCYLDS	"V(PSTCYLDS)" SPOOLDEF CYL_MANAGED = postscan
776	(308)	ADDRESS	4	SX@PSTSPL	"V(PSTSPL)" SPOOLDEF SPOOLNUM= postscan
780	(30C)	ADDRESS	4	SX@PSTFENO	"V(PSTFENO)" SPOOLDEF FENCE=YES postscan
784	(310)	ADDRESS	4	SX@PRESDFRE	"V(PRESDFRE)" SPOOLDEF TGSPACE=FREE pre
788	(314)	ADDRESS	4	SX@PRESDPCT	"V(PRESDPCT)" SPOOLDEF PERCENT= prescan
792	(318)	ADDRESS	4	SX@PSTSPDVL	"V(PSTSPDVL)" SPOOLDEF VOLUME= postscan
796	(31C)	ADDRESS	4	SX@PREDSSI	"V(PREDSSI)" SSI prescan
800	(320)	ADDRESS	4	SX@PSTTP	"V(PSTTP)" TPDEF postscan
804	(324)	ADDRESS	4	SX@PSTSICE	"V(PSTSICE)" TPDEF postscan
808	(328)	ADDRESS	4	SX@PSTLSPIN	"V(PSTLSPIN)" TRACEDEF SPIN postscan
812	(32C)	ADDRESS	4	SX@PSTNOTAB	"V(PSTNOTAB)" TRACEDEF postscan
816	(330)	ADDRESS	4	SX@PRETDFID	"V(PRETDFID)" TRACEDEF IDS= prescan
820	(334)	ADDRESS	4	SX@PRETRCID	"V(PRETRCID)" TRACE prescan
824	(338)	ADDRESS	4	SX@PSTTRFLT	"V(PSTTRFLT)" TRACE filtering postscan
828	(33C)	ADDRESS	4	SX@PRENULL	"V(PRENULL)" General prescan routine to skip keyword (returns RC=8)
832	(340)	ADDRESS	4	SX@PSTLIM1	"V(PSTLIM1)" General LIMIT/PLIM/RANGE postscan
836	(344)	ADDRESS	4	SX@PRELIMIT	"V(PRELIMIT)" General LIMIT/PLIM/RANGE prescan

Table 528. Structure SXADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
840	(348)	ADDRESS	4	SX@PSTLIMIT	"V(PSTLIMIT)" General LIMIT/PLIM/RANGE postscan
844	(34C)	ADDRESS	4	SX@PREQSUSE	"V(PREQSUSE)" General prescan to do $QSUSE
848	(350)	ADDRESS	4	SX@PREQSNOI	"V(PREQSNOI)" and one for no I/O active
852	(354)	ADDRESS	4	SX@PREHOTS	"V(PREHOTS)" General prescan to ignore keyword on hot start
856	(358)	ADDRESS	4	SX@PREDNEGZ	"V(PREDNEGZ)" General prescan to display 0 for negative value
860	(35C)	ADDRESS	4	SX@PREDNOCB	"V(PREDNOCB)" General prescan to test for missing control block
864	(360)	ADDRESS	4	SX@PRECKLEV	"V(PRECKLEV)" General prescan to check for dynamic CKPT level
868	(364)	ADDRESS	4	SX@PRECAT	"V(PRECAT)" JOBCLASS command prescan
872	(368)	ADDRESS	4	SX@PRECATI	"V(PRECATI)" JOBCLASS init stmt prescan
876	(36C)	ADDRESS	4	SX@PRECATTS	"V(PRECATTS)" STCCLASS/TSUCLASS prescan
880	(370)	ADDRESS	4		Reserved - delete for xmit
884	(374)	ADDRESS	4	SX@PSTCGROP	"V(PSTCGROP)" JOBCLASS GROUP postscan
888	(378)	ADDRESS	4	SX@PREPITRS	"V(PREPITRS)" INIT STATUS=STARTING prescan
892	(37C)	ADDRESS	4	SX@PREDSAFL	"V(PREDSAFL)" General prescan to display list of affinities
896	(380)	ADDRESS	4	SX@PREISTC	"V(PREISTC)" INIT STC= prescan
900	(384)	ADDRESS	4	SX@PREACTSZ	"V(PREACTSZ)" $D ACTIVATE prescan
904	(388)	ADDRESS	4	SX@PSTACTIV	"V(PSTACTIV)" ACTIVATE postscan
908	(38C)	ADDRESS	4	SX@PSTCATSC	"V(PSTCATSC)" JOBCLASS SCHENV= postscan
912	(390)	ADDRESS	4	SX@PSTCSCHE	"V(PSTCSCHE)" JOBCLASS SCHENV = Pstscan
916	(394)	ADDRESS	4	SX@PREZAPJB	"V(PREZAPJB)" ZAPJOB Prescan
920	(398)	ADDRESS	4	SX@PSTZAPJB	"V(PSTZAPJB)" ZAPJOB Postscan
924	(39C)	ADDRESS	4	SX@PSTVJBID	"V(PSTVJBID)" Validate JOBID keyword
928	(3A0)	ADDRESS	4	SX@PREJCLMD	"V(PREJCLMD)" JOBCLASS MODE prescan
932	(3A4)	ADDRESS	4	SX@PSTJCLMD	"V(PSTJCLMD)" JOBCLASS MODE postscan
936	(3A8)	ADDRESS	4	SX@PSTHPRM	"V(PSTHPRM)" INIT PARM HASPPARM = postscan
940	(3AC)	ADDRESS	4	SX@PSTPMEM	"V(PSTPMEM)" INIT PARM MEMBER = postscan
944	(3B0)	ADDRESS	4	SX@PRESNIFF	"V(PRESNIFF)" SPOOLDEF SNIFF prescan
948	(3B4)	ADDRESS	4	SX@PSTSNIFF	"V(PSTSNIFF)" SPOOLDEF SNIFF pstscan
952	(3B8)	ADDRESS	4	SX@PREZRCHK	"V(PREZRCHK)" General prescan to skip display if field is zero

Table 528. Structure SXADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
956	(3BC)	ADDRESS	4	SX@PREFFCHK	"V(PREFFCHK)" General prescan to skip display if field is FFs
960	(3C0)	ADDRESS	4	SX@PREFLHOT	"V(PREFLHOT)" COLD/FORMAT start option
964	(3C4)	ADDRESS	4	SX@PREDEVID	"V(PREDEVID)" General prescan to display devid fields
968	(3C8)	ADDRESS	4	SX@PREZPSEQ	"V(PREZPSEQ)" Format z/OS product level
972	(3CC)	ADDRESS	4		Reserved for future use
976	(3D0)	ADDRESS	4		Reserved for future use
980	(3D4)	ADDRESS	4		Reserved for future use
984	(3D8)	ADDRESS	4		Reserved for future use
988	(3DC)	ADDRESS	4		Reserved for future use
992	(3E0)	ADDRESS	4		Reserved for future use
996	(3E4)	ADDRESS	4		Reserved for future use
		Module HASPSXDV exit routines Note: Many routines in HASPSXDV are called for several types of devices or several keywords on a specific device type.			
1000	(3E8)	ADDRESS	4	SX@PREACMEM	"V(PREACMEM)" ACTRMT MEMBER= prescan
1004	(3EC)	ADDRESS	4	SX@PSTIRTRC	"V(PSTIRTRC)" INTRDR TRACE=
1008	(3F0)	ADDRESS	4	SX@PRELDVL	"V(PRELDVL)" Ln prescan
1012	(3F4)	ADDRESS	4	SX@PRELDEV	"V(PRELDEV)" Ln.dev prescan
1016	(3F8)	ADDRESS	4	SX@PSTTRANS	"V(PSTTRANS)" Ln.dev postscan
1020	(3FC)	ADDRESS	4	SX@PRELINE	"V(PRELINE)" LINE prescan
1024	(400)	ADDRESS	4	SX@PSTLINE	"V(PSTLINE)" LINE postscan
1028	(404)	ADDRESS	4	SX@PSTLINEA	"V(PSTLINEA)" LINE postscan
1032	(408)	ADDRESS	4	SX@PRELNSTK	"V(PRELNSTK)" LINE CONNECT time prescan
1036	(40C)	ADDRESS	4	SX@PRELDFLT	"V(PRELDFLT)" LINE JTNUM=/STNUM=/JRNUM=/SRNUM= prescan
1040	(410)	ADDRESS	4	SX@PRELDNDE	"V(PRELDNDE)" LINE NODES= display prescan
1044	(414)	ADDRESS	4	SX@PRELFNDE	"V(PRELFNDE)" LINE NODES= display prescan
1048	(418)	ADDRESS	4	SX@PSTLTRST	"V(PSTLTRST)" LINE TRACE= set postscan
1052	(41C)	ADDRESS	4	SX@PSTLTRSS	"V(PSTLTRSS)" LINE TRACE= set postscan
1056	(420)	ADDRESS	4	SX@PREVTRC	"V(PREVTRC)" LINE/NETSRV TRACE= filter prescan
1060	(424)	ADDRESS	4	SX@PRELNERS	"V(PRELNERS)" LINE RMTSHARE= prescan
1064	(428)	ADDRESS	4	SX@PRELINST	"V(PRELINST)" LINE STATUS= prescan
1068	(42C)	ADDRESS	4	SX@PSTLINST	"V(PSTLINST)" LINE STATUS= postscan
1072	(430)	ADDRESS	4	SX@PSTLGNA	"V(PSTLGNA)" LOGON postscan
1076	(434)	ADDRESS	4	SX@PSTSRVA	"V(PSTSRVA)" NETSRV postscan
1080	(438)	ADDRESS	4	SX@PRESVSES	"V(PRESVSES)" NETSRV SESSIONS= prescan

Table 528. Structure SXADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1084	(43C)	ADDRESS	4	SX@PSTSVSCK	"V(PSTSVSCK)" NETSRV SOCKET= postscan
1088	(440)	ADDRESS	4	SX@PSTNTRST	"V(PSTNTRST)" NETSRV TRACE= set postscan
1092	(444)	ADDRESS	4	SX@PSTNTRSS	"V(PSTNTRSS)" NETSRV TRACE= set postscan
1096	(448)	ADDRESS	4	SX@PREOGDSR	"V(PREOGDSR)" OFFn.SR OUTDISP= prescan
1100	(44C)	ADDRESS	4	SX@PSTMDRC	"V(PSTMDRC)" OFFn.SR MOD=ROUTECDE= postscan
1104	(450)	ADDRESS	4	SX@PREOGDST	"V(PREOGDST)" OFFn.ST/Ln.ST OUTDISP= prescan
1108	(454)	ADDRESS	4	SX@PSTMDSAF	"V(PSTMDSAF)" OFFn.JR MOD=SYSAFF= postscan
1112	(458)	ADDRESS	4	SX@PREDSAF	"V(PREDSAF)" OFF.JT/OFF.JR SYSAFF= prescan
1116	(45C)	ADDRESS	4	SX@PSTSAF	"V(PSTSAF)" OFF.JT/OFF.JR SYSAFF= postscan
1120	(460)	ADDRESS	4	SX@PREOFFCL	"V(PREOFFCL)" OFF.JT/OFF.JR class prescan
1124	(464)	ADDRESS	4	SX@PSTOARCH	"V(PSTOARCH)" OFFLOAD ARCHIVE= postscan
1128	(468)	ADDRESS	4	SX@PREPROCL	"V(PREPROCL)" PROCLIB prescan
1132	(46C)	ADDRESS	4	SX@PSTPROCL	"V(PSTPROCL)" PROCLIB postscan
1136	(470)	ADDRESS	4	SX@CLNUPPAD	"V(CLNUPPAD)" PROCLIB cleanup routine
1140	(474)	ADDRESS	4	SX@PREPRT	"V(PREPRT)" PRT prescan
1144	(478)	ADDRESS	4	SX@PSTPRT	"V(PSTPRT)" PRT postscan
1148	(47C)	ADDRESS	4	SX@PREDFLNO	"V(PREDFLNO)" PRT DEVFLASH= prescan
1152	(480)	ADDRESS	4	SX@PSTPRDFL	"V(PSTPRDFL)" PRT DEVFLASH= postscan
1156	(484)	ADDRESS	4	SX@PSTDDFCB	"V(PSTDDFCB)" PRT/Rn.PRn DEVFCB= postscan
1160	(488)	ADDRESS	4	SX@PSTPRFCB	"V(PSTPRFCB)" PRT/Rn.PRn FCB= postscan
1164	(48C)	ADDRESS	4	SX@PSTDFCB	"V(PSTDFCB)" PRT/Rn.PRn FCB= postscan
1168	(490)	ADDRESS	4	SX@PSTPRFLS	"V(PSTPRFLS)" PRT FLASH= postscan
1172	(494)	ADDRESS	4	SX@PREDFSS	"V(PREDFSS)" PRT FSS= prescan
1176	(498)	ADDRESS	4	SX@PSTSFSS	"V(PSTSFSS)" PRT FSS= postscan
1180	(49C)	ADDRESS	4	SX@PRELSFRM	"V(PRELSFRM)" PRT LASTFORM= prescan
1184	(4A0)	ADDRESS	4	SX@PREPMODE	"V(PREPMODE)" PRT PRMODE= prescan
1188	(4A4)	ADDRESS	4	SX@PSTPRUCS	"V(PSTPRUCS)" PRT/Rn.PRn UCS= postscan
1192	(4A8)	ADDRESS	4	SX@PSTDUCS	"V(PSTDUCS)" PRT/Rn.PRn UCS= postscan
1196	(4AC)	ADDRESS	4	SX@PFSQUERY	"V(PFSQUERY)" PRT subparm= prescan (FSS query)
1200	(4B0)	ADDRESS	4	SX@PFSQFREE	"V(PFSQFREE)" PRT subparm= prescan (PFSQUERY cleanup)

Table 528. Structure SXADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1204	(4B4)	ADDRESS	4	SX@PRENIPRT	"V(PRENIPRT)" PRT subparm= prescan (test non-impact)
1208	(4B8)	ADDRESS	4	SX@PREPIFNL	"V(PREPIFNL)" PRT subparm= prescan (test **** value)
1212	(4BC)	ADDRESS	4	SX@PRPRESET	"V(PRPRESET)" PRT subparm= prescan (test RESET value)
1216	(4C0)	ADDRESS	4	SX@PREDEVDR	"V(PREDEVDR)" PRT subparm= prescan (test drain)
1220	(4C4)	ADDRESS	4	SX@PREOPACT	"V(PREOPACT)" PRT subparm= prescan (test operator action)
1224	(4C8)	ADDRESS	4	SX@PSTFSUPD	"V(PSTFSUPD)" PRT subparm= postscan (FSA update)
1228	(4CC)	ADDRESS	4	SX@PSTFSNSP	"V(PSTFSNSP)" PRT subparm= postscan (FSACB update)
1232	(4D0)	ADDRESS	4	SX@PSTFSSET	"V(PSTFSSET)" PRT subparm= postscan (FSS SET order)
1236	(4D4)	ADDRESS	4	SX@PSTFSYNC	"V(PSTFSYNC)" PRT subparm= postscan (FSS SYNCH order)
1240	(4D8)	ADDRESS	4	SX@PSTPUN	"V(PSTPUN)" PUN postscan
1244	(4DC)	ADDRESS	4	SX@PRERDEV	"V(PRERDEV)" Rn.dev prescan
1248	(4E0)	ADDRESS	4	SX@PRERDVAU	"V(PRERDVAU)" PR/PU/RD prescan to verify command from remote device
1252	(4E4)	ADDRESS	4	SX@PSTSELCT	"V(PSTSELCT)" Rn.PRn/Rn.PUn SELECT= postscan
1256	(4E8)	ADDRESS	4	SX@PREDSLCT	"V(PREDSLCT)" Rn.PRn/Rn.PUn SELECT= prescan
1260	(4EC)	ADDRESS	4	SX@PSTRDVCM	"V(PSTRDVCM)" Rn.PRn/Rn.PUn CMPCT= postscan
1264	(4F0)	ADDRESS	4	SX@PSTRDVCO	"V(PSTRDVCO)" Rn.PRn/Rn.PUn COMPRESS= postscan
1268	(4F4)	ADDRESS	4	SX@PSTRDEV	"V(PSTRDEV)" Rn.PRn/Rn.PUn postscan
1272	(4F8)	ADDRESS	4	SX@PRERMTRC	"V(PRERMTRC)" Rn.PRn/Rn.PUn ROUTECDE= prescan
1276	(4FC)	ADDRESS	4	SX@PRERPZPT	"V(PRERPZPT)" Rn.PRn/Rn.PUn COMPACT= prescan
1280	(500)	ADDRESS	4	SX@PREDPZPT	"V(PREDPZPT)" Rn.PRn/Rn.PUn COMPACT= prescan
1284	(504)	ADDRESS	4	SX@PRERMT	"V(PRERMT)" RMT prescan
1288	(508)	ADDRESS	4	SX@PSTRMT	"V(PSTRMT)" RMT postscan
1292	(50C)	ADDRESS	4	SX@PSTRMTA	"V(PSTRMTA)" RMT postscan
1296	(510)	ADDRESS	4	SX@PSTRMTLN	"V(PSTRMTLN)" RMT LINE= prescan
1300	(514)	ADDRESS	4	SX@PRERMTP	"V(PRERMTP)" RMT PASSWORD= prescan
1304	(518)	ADDRESS	4	SX@PRERMTSH	"V(PRERMTSH)" RMT SHARABLE= prescan
1308	(51C)	ADDRESS	4	SX@PSTRMTSH	"V(PSTRMTSH)" RMT SHARABLE= postscan
1312	(520)	ADDRESS	4	SX@PRERMTST	"V(PRERMTST)" RMT STATUS= prescan
1316	(524)	ADDRESS	4	SX@PREMULFM	"V(PREMULFM)" Device FORMS= prescan

Table 528. Structure SXADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1320	(528)	ADDRESS	4	SX@PSTWFORM	"V(PSTWFORM)" Device FORMS= postscan
1324	(52C)	ADDRESS	4	SX@PSTJOBNM	"V(PSTJOBNM)" Device JOBNAME= postscan
1328	(530)	ADDRESS	4	SX@PSTPRMD	"V(PSTPRMD)" Device PRMODE= postscan
1332	(534)	ADDRESS	4	SX@PREDPRMD	"V(PREDPRMD)" Device PRMODE= prescan
1336	(538)	ADDRESS	4	SX@PREFPRMD	"V(PREFPRMD)" Device PRMODE= prescan
1340	(53C)	ADDRESS	4	SX@PRERDEST	"V(PRERDEST)" Device PRTDEST/PUNDEST/XEQDEST prescan
1344	(540)	ADDRESS	4	SX@PRERNG	"V(PRERNG)" Device RANGE= prescan
1348	(544)	ADDRESS	4	SX@PREDRNG	"V(PREDRNG)" Device RANGE= prescan
1352	(548)	ADDRESS	4	SX@PREDVSTK	"V(PREDVSTK)" Device RESTART time prescan
1356	(54C)	ADDRESS	4	SX@PSTRC	"V(PSTRC)" Device ROUTECDE= postscan
1360	(550)	ADDRESS	4	SX@PREDRC	"V(PREDRC)" Device ROUTECDE= prescan
1364	(554)	ADDRESS	4	SX@PREFRC	"V(PREFRC)" Device ROUTECDE= prescan
1368	(558)	ADDRESS	4	SX@PREDSTAT	"V(PREDSTAT)" Device STATUS= prescan
1372	(55C)	ADDRESS	4	SX@PREDDVJB	"V(PREDDVJB)" Device STATUS= prescan
1376	(560)	ADDRESS	4	SX@PREDDVRC	"V(PREDDVRC)" Device STATUS= prescan
1380	(564)	ADDRESS	4	SX@PREDRSAF	"V(PREDRSAF)" Device SYSAFF= prescan
1384	(568)	ADDRESS	4	SX@PSTSRSAF	"V(PSTSRSAF)" Device SYSAFF= postscan
1388	(56C)	ADDRESS	4	SX@PSTSRSF2	"V(PSTSRSF2)" Device SYSAFF= postscan
1392	(570)	ADDRESS	4	SX@PSTUNIT	"V(PSTUNIT)" Device UNIT= postscan
1396	(574)	ADDRESS	4	SX@PREUNIT	"V(PREUNIT)" Device UNIT= postscan
1400	(578)	ADDRESS	4	SX@PSTVOL	"V(PSTVOL)" Device VOLUME= postscan
1404	(57C)	ADDRESS	4	SX@PREDWS	"V(PREDWS)" Device WS= prescan
1408	(580)	ADDRESS	4	SX@PSTWS	"V(PSTWS)" Device WS= postscan
1412	(584)	ADDRESS	4	SX@PSTTRCDV	"V(PSTTRCDV)" Device TRACE= postscan
1416	(588)	ADDRESS	4	SX@PREDVDRN	"V(PREDVDRN)" General prescan to test device status
1420	(58C)	ADDRESS	4	SX@PRETRCDV	"V(PRETRCDV)" General prescan to verify SYSTEM authority from remote device
1424	(590)	ADDRESS	4	SX@PREDRRC	"V(PREDRRC)" General ROUTECDE= prescan

Table 528. Structure SXADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1428	(594)	ADDRESS	4	SX@PREFRRC	"V(PREFRRC)" General ROUTECDE= prescan
1432	(598)	ADDRESS	4	SX@PREMULRC	"V(PREMULRC)" Multiple route code prescan
1436	(59C)	ADDRESS	4	SX@PRERPRPU	"V(PRERPRPU)" Rn.PRn/Rn.PUn LRECL= presc
1440	(5A0)	ADDRESS	4	SX@PSTRPRPU	"V(PSTRPRPU)" Rn.PRn/Rn.PUn LRECL= postsc
1444	(5A4)	ADDRESS	4	SX@PSTCDCT	"V(PSTCDCT)" CDCT synch, all devices
1448	(5A8)	ADDRESS	4	SX@PSTCDCTO	"V(PSTCDCTO)" CDCT synch, offload devices
1452	(5AC)	ADDRESS	4	SX@PSTCDCTS	"V(PSTCDCTS)" CDCT synch, MDCDTDCT chain is processed.
1456	(5B0)	ADDRESS	4		Reserved for future use
1460	(5B4)	ADDRESS	4		Reserved for future use
1464	(5B8)	ADDRESS	4		Reserved for future use
1468	(5BC)	ADDRESS	4		Reserved for future use
1472	(5C0)	ADDRESS	4		Reserved for future use
1476	(5C4)	ADDRESS	4		Reserved for future use
1480	(5C8)	ADDRESS	4		Reserved for future use
1484	(5CC)	ADDRESS	4		Reserved for future use
1488	(5D0)	ADDRESS	4		Reserved for future use
Module HASPSXNJ exit routines					
1492	(5D4)	ADDRESS	4	SX@PREAPPL	"V(PREAPPL)" APPL prescan
1496	(5D8)	ADDRESS	4	SX@PSTAPPL	"V(PSTAPPL)" APPL postscan
1500	(5DC)	ADDRESS	4	SX@PREAPSTK	"V(PREAPSTK)" APPL CONNECT= time prescan
1504	(5E0)	ADDRESS	4	SX@PRELDED	"V(PRELDED)" APPL/NODE/SOCKET LINE= prescan
1508	(5E4)	ADDRESS	4	SX@PSTLDED	"V(PSTLDED)" APPL/NODE/SOCKET LINE= postscan
1512	(5E8)	ADDRESS	4	SX@PREAPNOD	"V(PREAPNOD)" APPL/SOCKET NODE= prescan
1516	(5EC)	ADDRESS	4	SX@PRECONCT	"V(PRECONCT)" CONNECT prescan
1520	(5F0)	ADDRESS	4	SX@PSTCONCT	"V(PSTCONCT)" CONNECT postscan
1524	(5F4)	ADDRESS	4	SX@PSTDCNCT	"V(PSTDCNCT)" CONNECT postscan
1528	(5F8)	ADDRESS	4	SX@PRECMEMB	"V(PRECMEMB)" CONNECT MEMBA/MEMBB prescan
1532	(5FC)	ADDRESS	4	SX@PRECNODE	"V(PRECNODE)" CONNECT NODEA/NODEB prescan
1536	(600)	ADDRESS	4	SX@PREFNODE	"V(PREFNODE)" CONNECT NODEA/NODEB prescan
1540	(604)	ADDRESS	4	SX@PREFNPM	"V(PREFNPM)" CONNECT PATHMGR= prescan
1544	(608)	ADDRESS	4	SX@PREDNPM	"V(PREDNPM)" CONNECT PATHMGR= prescan
1548	(60C)	ADDRESS	4	SX@PREDCRST	"V(PREDCRST)" CONNECT REST= prescan
1552	(610)	ADDRESS	4	SX@PSTCSTAT	"V(PSTCSTAT)" CONNECT STATUS= postscan
1556	(614)	ADDRESS	4	SX@PREDSESN	"V(PREDSESN)" LINE/LOGON SESSIONS= prescan

Table 528. Structure SXADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1560	(618)	ADDRESS	4	SX@POSTNRM	"V(POSTNRM)" $POST Net Resource Monitor
1564	(61C)	ADDRESS	4	SX@PRESZNET	"V(PRESZNET)" $S/$P/$Z NET prescan
1568	(620)	ADDRESS	4	SX@PSTSZNET	"V(PSTSZNET)" $S/$P/$Z NET postscan
1572	(624)	ADDRESS	4	SX@PREDNET	"V(PREDNET)" NETACCT prescan
1576	(628)	ADDRESS	4	SX@PREPIDNT	"V(PREPIDNT)" NETACCT prescan
1580	(62C)	ADDRESS	4	SX@PSTNETAC	"V(PSTNETAC)" NETACCT postscan
1584	(630)	ADDRESS	4	SX@PSTNRT	"V(PSTNRT)" NJEDEF postscan
1588	(634)	ADDRESS	4	SX@PSTNLM	"V(PSTNLM)" NJEDEF postscan
1592	(638)	ADDRESS	4	SX@PSTNJEC	"V(PSTNJEC)" NJEDEF CONNECT postscan
1596	(63C)	ADDRESS	4	SX@PRENNUM	"V(PRENNUM)" NJEDEF NODENUM prescan
1600	(640)	ADDRESS	4	SX@PRENODE	"V(PRENODE)" NODE prescan
1604	(644)	ADDRESS	4	SX@PSTNODE	"V(PSTNODE)" NODE postscan
1608	(648)	ADDRESS	4	SX@PRENACT	"V(PRENACT)" NODE NAME= prescan
1612	(64C)	ADDRESS	4	SX@PRENDPAS	"V(PRENDPAS)" NODE PASSWORD= prescan
1616	(650)	ADDRESS	4	SX@PREDSPWD	"V(PREDSPWD)" NODE PASSWORD=SEND= prescan
1620	(654)	ADDRESS	4	SX@PRENODES	"V(PRENODES)" NODE STATUS= prescan
1624	(658)	ADDRESS	4	SX@PRENDSTK	"V(PRENDSTK)" NODE CONNECT time prescan
1628	(65C)	ADDRESS	4	SX@PSTNCHG	"V(PSTNCHG)" NODE ckpt'ed parm prescan
1632	(660)	ADDRESS	4	SX@PREPVIA	"V(PREPVIA)" PATH prescan
1636	(664)	ADDRESS	4	SX@PREPPATH	"V(PREPPATH)" PATH prescan
1640	(668)	ADDRESS	4	SX@PREPSTAT	"V(PREPSTAT)" PATH STATUS= prescan
1644	(66C)	ADDRESS	4	SX@PSTSOCK	"V(PSTSOCK)" SOCKET postscan
1648	(670)	ADDRESS	4	SX@PRESKSTK	"V(PRESKSTK)" SOCKET CONNECT time prescan
1652	(674)	ADDRESS	4	SX@PREDPSWD	"V(PREDPSWD)" General PASSWORD= prescan
1656	(678)	ADDRESS	4	SX@PREIPAD	"V(PREIPAD)" General prescan to convert 32-bit IP addresses
1660	(67C)	ADDRESS	4	SX@PREFPATH	"V(PREFPATH)" General prescan to force full path analysis
1664	(680)	ADDRESS	4	SX@PRESHOST	"V(PRESHOST)" SOCKET HOST= prescanuse
1668	(684)	ADDRESS	4	SX@PRESOKID	"V(PRESOKID)" SOCKET SOCKID= prescan
1672	(688)	ADDRESS	4	SX@PSTSOKST	"V(PSTSOKST)" SOCKET STATUS= postscan
1676	(68C)	ADDRESS	4	SX@PRESOCK	"V(PRESOCK)" SOCKET prescan
1680	(690)	ADDRESS	4		Reserved for future use
1684	(694)	ADDRESS	4		Reserved for future use
1688	(698)	ADDRESS	4		Reserved for future use
1692	(69C)	ADDRESS	4		Reserved for future use
1696	(6A0)	ADDRESS	4		Reserved for future use

Table 528. Structure SXADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1700	(6A4)	ADDRESS	4		Reserved for future use
1704	(6A8)	ADDRESS	4		Reserved for future use
1708	(6AC)	ADDRESS	4		Reserved for future use
	Module HASPSXOT exit routines				
1712	(6B0)	ADDRESS	4	SX@PREJOE	"V(PREJOE)" OUTPUT prescan
1716	(6B4)	ADDRESS	4	SX@PREJOAUP	"V(PREJOAUP)" OUTPUT UPDATE JOA prescan
1720	(6B8)	ADDRESS	4	SX@CLNUPJOE	"V(CLNUPJOE)" OUTPUT cleanup routine
1724	(6BC)	ADDRESS	4	SX@PSTJODSP	"V(PSTJODSP)" OUTPUT postscan
1728	(6C0)	ADDRESS	4	SX@PREJOBSY	"V(PREJOBSY)" OUTPUT BUSY= prescan
1732	(6C4)	ADDRESS	4	SX@PREFOCLS	"V(PREFOCLS)" OUTPUT CLASS prescan
1736	(6C8)	ADDRESS	4	SX@PREHLDRC	"V(PREHLDRC)" OUTPUT HOLDRC= prescan
1740	(6CC)	ADDRESS	4	SX@PREOTGRP	"V(PREOTGRP)" OUTPUT OUTGRP= prescan
1744	(6D0)	ADDRESS	4	SX@PREFOUTG	"V(PREFOUTG)" OUTPUT OUTGRP= prescan
1748	(6D4)	ADDRESS	4	SX@PREODRDY	"V(PREODRDY)" OUTPUT READY/HELD prescan
1752	(6D8)	ADDRESS	4	SX@PREJRCPG	"V(PREJRCPG)" OUTPUT RECORDS/PAGES prescan
1756	(6DC)	ADDRESS	4	SX@PREJDEST	"V(PREJDEST)" OUTPUT ROUTECDE= prescan
1760	(6E0)	ADDRESS	4	SX@PREJOERC	"V(PREJOERC)" OUTPUT ROUTECDE= prescan
1764	(6E4)	ADDRESS	4	SX@PREJOFRC	"V(PREJOFRC)" OUTPUT ROUTECDE= prescan
1768	(6E8)	ADDRESS	4	SX@PREJOSTA	"V(PREJOSTA)" OUTPUT STATUS= prescan
1772	(6EC)	ADDRESS	4	SX@PREJCKJO	"V(PREJCKJO)" OUTPUT keyword= prescan for char-JOE fields
1776	(6F0)	ADDRESS	4	SX@PREOJQX	"V(PREOJQX)" OUTPUT keyword= prescan for JQX fields
1780	(6F4)	ADDRESS	4	SX@PREJDMND	"V(PREJDMND)" OUTPUT keyword= prescan for demand select
1784	(6F8)	ADDRESS	4	SX@PREJQOFS	"V(PREJQOFS)" JOB OFFS= prescan
1788	(6FC)	ADDRESS	4	SX@PREJOOFS	"V(PREJOOFS)" OUTPUT OFFS= prescan
1792	(700)	ADDRESS	4	SX@PREJOFFS	"V(PREJOFFS)" JOB/OUTPUT OFFS= prescan
1796	(704)	ADDRESS	4	SX@PREFOFFS	"V(PREFOFFS)" JOB/OUTPUT OFFS= prescan
1800	(708)	ADDRESS	4	SX@PSTSOFFS	"V(PSTSOFFS)" JOB/OUTPUT OFFS= postscan
1804	(70C)	ADDRESS	4	SX@PRE4STAR	"V(PRE4STAR)" OUTPUT keyword= prescan for '****' value
1808	(710)	ADDRESS	4	SX@PSTSTMOD	"V(PSTSTMOD)" OUTPUT keyword= postscan JOEFLAGT bits (TMOD)
1812	(714)	ADDRESS	4	SX@PRELORDY	"V(PRELORDY)" $LJ READY/HELD prescan

Table 528. Structure SXADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1816	(718)	ADDRESS	4	SX@PRELOTOT	"V(PRELOTOT)" $LJ OUTGRPS prescan
1820	(71C)	ADDRESS	4	SX@PRELOLP	"V(PRELOLP)" $LJ RECORDS/PAGES prescan
1824	(720)	ADDRESS	4	SX@PREJLOCK	"V(PREJLOCK)" OUTPUT prescan for job lock
1828	(724)	ADDRESS	4	SX@PRENDDEL	"V(PRENDDEL)" Skip display on delete call
1832	(728)	ADDRESS	4		Reserved for future use
1836	(72C)	ADDRESS	4		Reserved for future use
1840	(730)	ADDRESS	4		Reserved for future use
1844	(734)	ADDRESS	4		Reserved for future use
1848	(738)	ADDRESS	4		Reserved for future use
1852	(73C)	ADDRESS	4		Reserved for future use
1856	(740)	ADDRESS	4		Reserved for future use
1860	(744)	ADDRESS	4		Reserved for future use
1864	(748)	ADDRESS	4		Reserved for future use
1868	(74C)	ADDRESS	4		Reserved for future use
Module HASPSXJB exit routines					
1872	(750)	ADDRESS	4	SX@PREDJB	"V(PREDJB)" $D DUPJOB command prescan
1876	(754)	ADDRESS	4	SX@PSTDJB	"V(PSTDJB)" $D DUPJOB command postscan
1880	(758)	ADDRESS	4	SX@CLNUPDJB	"V(CLNUPDJB)" $D DUPJOB command cleanup
1884	(75C)	ADDRESS	4	SX@PREMZJOB	"V(PREMZJOB)" GROUP command prescan
1888	(760)	ADDRESS	4	SX@PREMZOD	"V(PREMZOD)" GROUP command prescan
1892	(764)	ADDRESS	4	SX@PREMZDSK	"V(PREMZDSK)" GROUP command job list pre
1896	(768)	ADDRESS	4	SX@PREMZODL	"V(PREMZODL)" GROUP command job list pre
1900	(76C)	ADDRESS	4	SX@PREWHEN	"V(PREWHEN)" WHEN keyword prescan
1904	(770)	ADDRESS	4	SX@PREZODCK	"V(PREZODCK)" GROUP keyword prescan
1908	(774)	ADDRESS	4	SX@PREDEPL	"V(PREDEPL)" JOB AFTER/BEFORE prescan
1912	(778)	ADDRESS	4	SX@PSTMZOD	"V(PSTMZOD)" GROUP command postscan
1916	(77C)	ADDRESS	4	SX@PREJCOR	"V(PREJCOR)" JOB JOBCORR= prescan
1920	(780)	ADDRESS	4	SX@PSTJCOR	"V(PSTJCOR)" JOB JOBCORR= postscan
1924	(784)	ADDRESS	4	SX@PREJQE	"V(PREJQE)" JOB prescan
1928	(788)	ADDRESS	4	SX@PREJST	"V(PREJST)" JOB prescan
1932	(78C)	ADDRESS	4	SX@PSTCFVQE	"V(PSTCFVQE)" JOB postscan
1936	(790)	ADDRESS	4	SX@PREJBDUP	"V(PREJBDUP)" JOB prescan
1940	(794)	ADDRESS	4	SX@PREJQRDS	"V(PREJQRDS)" JOB prescan
1944	(798)	ADDRESS	4	SX@PSTJQDSP	"V(PSTJQDSP)" JOB postscan
1948	(79C)	ADDRESS	4	SX@PREJQAUP	"V(PREJQAUP)" JOB update mode JQA prescan

Table 528. Structure SXADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1952	(7A0)	ADDRESS	4	SX@PREJQBSY	"V(PREJQBSY)" JOB BUSY= prescan
1956	(7A4)	ADDRESS	4	SX@PREJABS	"V(PREJABS)" JOB CC=ABEND prescan
1960	(7A8)	ADDRESS	4	SX@PREJABU	"V(PREJABU)" JOB CC=ABEND prescan
1964	(7AC)	ADDRESS	4	SX@PSTJSCLS	"V(PSTJSCLS)" JOB CLASS= postscan
1968	(7B0)	ADDRESS	4	SX@PREJCLAS	"V(PREJCLAS)" JOB CLASS= prescan
1972	(7B4)	ADDRESS	4	SX@PREDRNE	"V(PREDRNE)" JOB CMDAUTH= prescan
1976	(7B8)	ADDRESS	4	SX@PREDELAY	"V(PREDELAY)" JOB DELAY prescan
1980	(7BC)	ADDRESS	4	SX@PREJINIT	"V(PREJINIT)" JOB INITASID= prescan
1984	(7C0)	ADDRESS	4	SX@PREJQPRI	"V(PREJQPRI)" JOB PRIORITY= prescan
1988	(7C4)	ADDRESS	4	SX@PREJPRIF	"V(PREJPRIF)" JOB PRIORITY= prescan
1992	(7C8)	ADDRESS	4	SX@PSTJQPRI	"V(PSTJQPRI)" JOB PRIORITY= postscan
1996	(7CC)	ADDRESS	4	SX@PSTPJQUE	"V(PSTPJQUE)" JOB Q= postscan routine
2000	(7D0)	ADDRESS	4	SX@PSTJEXFL	"V(PSTJEXFL)" JOB prescan for DUMP, PURGE, ARMRESTART, PROTECTED, etc.
2004	(7D4)	ADDRESS	4	SX@PREJQEXQ	"V(PREJQEXQ)" JOB prescan for busy in XEQ
2008	(7D8)	ADDRESS	4	SX@PREJQEPH	"V(PREJQEPH)" JOB prescan Queued pre HOPE
2012	(7DC)	ADDRESS	4	SX@PRESBYS	"V(PRESBYS)" JOB SECLABEL_AFF prescan
2016	(7E0)	ADDRESS	4	SX@PREJTGP	"V(PREJTGP)" JOB SPOOL=PERCENT= prescan
2020	(7E4)	ADDRESS	4	SX@PREFTGP	"V(PREFTGP)" JOB SPOOL=PERCENT= prescan
2024	(7E8)	ADDRESS	4	SX@PREJTGN	"V(PREJTGN)" JOB SPOOL=TGS= prescan
2028	(7EC)	ADDRESS	4	SX@PREDJVOL	"V(PREDJVOL)" JOB SPOOL=VOLUMES= prescan
2032	(7F0)	ADDRESS	4	SX@PREFJVOL	"V(PREFJVOL)" JOB SPOOL=VOLUMES= prescan
2036	(7F4)	ADDRESS	4	SX@PREJDSC	"V(PREJDSC)" JOB SRVCLASS= prescan $D
2040	(7F8)	ADDRESS	4	SX@PSTJSRVC	"V(PSTJSRVC)" JOB SRVCLASS= postscan $T
2044	(7FC)	ADDRESS	4	SX@PREJSTAT	"V(PREJSTAT)" JOB STATUS= prescan
2048	(800)	ADDRESS	4	SX@PREDJSAF	"V(PREDJSAF)" JOB SYSAFF prescan
2052	(804)	ADDRESS	4	SX@PREFJSAF	"V(PREFJSAF)" JOB SYSAFF prescan
2056	(808)	ADDRESS	4	SX@PRESJSAF	"V(PRESJSAF)" JOB SYSAFF prescan
2060	(80C)	ADDRESS	4	SX@PSTSJSAF	"V(PSTSJSAF)" JOB SYSAFF postscan
2064	(810)	ADDRESS	4	SX@CLNUPJQE	"V(CLNUPJQE)" JOB JQE cleanup routine

Table 528. Structure SXADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2068	(814)	ADDRESS	4	SX@PSTJSCHE	"V(PSTJSCHE)" JOB SCHENV= postscan
2072	(818)	ADDRESS	4	SX@PSTJQASC	"V(PSTJQASC)" JOB SCHENV= postscan
2076	(81C)	ADDRESS	4	SX@PREJHOLD	"V(PREJHOLD)" JOB Hold prescan
2080	(820)	ADDRESS	4	SX@PREHUSTB	"V(PREHUSTB)" JOB HOLDUNTL/STARTBY prescn
2084	(824)	ADDRESS	4	SX@PRECATAF	"V(PRECATAF)" JOBCLASS QAFF= prescan
2088	(828)	ADDRESS	4	SX@PRECATA2	"V(PRECATA2)" JOBCLASS QAFF= prescan
2092	(82C)	ADDRESS	4	SX@PRECAPAF	"V(PRECAPAF)" JOBCLASS QAFF= prescan
2096	(830)	ADDRESS	4	SX@PSTWSC	"V(PSTWSC)" SRVCLASS postscan
2100	(834)	ADDRESS	4	SX@PREWSCA2	"V(PREWSCA2)" SRVCLASS QAFF= prescan
2104	(838)	ADDRESS	4	SX@PREWSCAF	"V(PREWSCAF)" SRVCLASS QAFF= prescan
2108	(83C)	ADDRESS	4	SX@PSTWQAFF	"V(PSTWQAFF)" SRVCLASS pstscan for QAFF
2112	(840)	ADDRESS	4	SX@PSTWTYPE	"V(PSTWTYPE)" SRVCLASS TYPE= postscan
2116	(844)	ADDRESS	4	SX@PREWSCCO	"V(PREWSCCO)" SRVCLASS COUNT= prescan
2120	(848)	ADDRESS	4	SX@PREWSCCT	"V(PREWSCCT)" SRVCLASS COUNT= prescan
2124	(84C)	ADDRESS	4	SX@PREWSCMC	"V(PREWSCMC)" SRVCLASS MASCOUNT= prescan
2128	(850)	ADDRESS	4	SX@CLNUPWSC	"V(CLNUPWSC)" SRVCLASS cleanup routine
2132	(854)	ADDRESS	4	SX@PRESRPAF	"V(PRESRPAF)" SRVCLASS ACTIVE= prescan
2136	(858)	ADDRESS	4		Reserved for future use
2140	(85C)	ADDRESS	4		Reserved for future use
2144	(860)	ADDRESS	4		Reserved for future use
2148	(864)	ADDRESS	4		Reserved for future use
2152	(868)	ADDRESS	4		Reserved for future use
2156	(86C)	ADDRESS	4		Reserved for future use
2160	(870)	ADDRESS	4		Reserved for future use
2164	(874)	ADDRESS	4		Reserved for future use
2168	(878)	ADDRESS	4		Reserved for future use
Module HASPCSV exit routines					
2172	(87C)	ADDRESS	4	SX@PRELOAD	"V(PRELOAD)" LOADMOD prescan
2176	(880)	ADDRESS	4	SX@PSTLOAD	"V(PSTLOAD)" LOADMOD postscan
2180	(884)	ADDRESS	4	SX@PREDMOD	"V(PREDMOD)" MODULE prescan
2184	(888)	ADDRESS	4	SX@PREDMODX	"V(PREDMODX)" MODULE EXITPTS= prescan
2188	(88C)	ADDRESS	4	SX@PRELOADR	"V(PRELOADR)" MODULE/LOADMOD ROUTINES= prescan
2192	(890)	ADDRESS	4	SX@PRELOADT	"V(PRELOADT)" MODULE/LOADMOD TABLES= prescan
2196	(894)	ADDRESS	4	SX@PRELOADF	"V(PRELOADF)" MODULE ROUTINES= prescan

Table 528. Structure SXADDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2200	(898)	ADDRESS	4	SX@PREPTF	"V(PREPTF)" MODULE LASTPTF= prescan
2204	(89C)	ADDRESS	4		Reserved for future use
2208	(8A0)	ADDRESS	4		Reserved for future use
2212	(8A4)	ADDRESS	4		Reserved for future use
2216	(8A8)	ADDRESS	4		Reserved for future use
2220	(8AC)	ADDRESS	4		Reserved for future use
2224	(8B0)	ADDRESS	4		Reserved for future use
2228	(8B4)	ADDRESS	4		Reserved for future use
2232	(8B8)	ADDRESS	4		Reserved for future use
2236	(8BC)	ADDRESS	4		Reserved for future use
2240	(8C0)	ADDRESS	4		Reserved for future use
Module HASPMSG exit routines					
2244	(8C4)	ADDRESS	4	SX@PRE496KY	"V(PRE496KY)" $HASP496 KEYWORD prescan
2248	(8C8)	ADDRESS	4	SX@PRE536	"V(PRE536)" $HASP536 prescan
2252	(8CC)	ADDRESS	4	SX@PRE542	"V(PRE542)" $HASP542 prescan
2256	(8D0)	ADDRESS	4	SX@PREACTM	"V(PREACTM)" General active member list display prescan
2260	(8D4)	ADDRESS	4	SX@PREMCKPT	"V(PREMCKPT)" General routine to format checkpoint data set or structure name
2264	(8D8)	ADDRESS	4	SX@MSG607TX	"V(MSG607TX)" $HASP607 prescan
2268	(8DC)	ADDRESS	4		Reserved for future use
2272	(8E0)	ADDRESS	4		Reserved for future use
2276	(8E4)	ADDRESS	4		Reserved for future use
2280	(8E8)	ADDRESS	4		Reserved for future use
2284	(8EC)	ADDRESS	4		Reserved for future use
2288	(8F0)	ADDRESS	4		Reserved for future use
2292	(8F4)	ADDRESS	4		Reserved for future use
2296	(8F8)	ADDRESS	4		Reserved for future use
2300	(8FC)	ADDRESS	4		Reserved for future use
2300	(8FC)	X'900'	0	SXADDRLN	"*-SXADDR" Length of the SXADDR table

Table 529. Cross Reference for $SXADDR

Name	Offset	Hex Tag
SX@CLNUPDJB	758	
SX@CLNUPJOE	6B8	
SX@CLNUPJQE	810	
SX@CLNUPPAD	470	
SX@CLNUPPRW	D8	
SX@CLNUPWSC	850	
SX@CVLDRAIN	2B8	
SX@MSG607TX	8D8	
SX@PFSQFREE	4B0	
SX@PFSQUERY	4AC	
SX@POSTNRM	618	
SX@PREABSTR	2F4	
SX@PREACMEM	3E8	

Table 529. Cross Reference for $SXADDR (continued)

Name	Offset	Hex Tag
SX@PREACTAS	10C	
SX@PREACTM	8D0	
SX@PREACTSZ	384	
SX@PREANETW	110	
SX@PREAPCE	108	
SX@PREAPNOD	5E8	
SX@PREAPPL	5D4	
SX@PREAPSTK	5DC	
SX@PREATTR	2CC	
SX@PREAUTH	144	
SX@PREBRNUM	58	
SX@PREBRTUS	5C	
SX@PRECAPAF	82C	
SX@PRECAT	364	
SX@PRECATAF	824	
SX@PRECATA2	828	
SX@PRECATI	368	
SX@PRECATTS	36C	
SX@PRECKLEV	360	
SX@PRECKPT	1C	
SX@PRECKPTN	20	
SX@PRECKPTT	1D8	
SX@PRECKSP	44	
SX@PRECKVRS	24	
SX@PRECLGCT	68	
SX@PRECLSGP	60	
SX@PRECMDR	2A0	
SX@PRECMEMB	5F8	
SX@PRECNODE	5FC	
SX@PRECONCT	5EC	
SX@PRECYLDS	300	
SX@PREDAUTH	140	
SX@PREDBADT	8	
SX@PREDCHAR	74	
SX@PREDCOMP	6C	
SX@PREDCRST	60C	
SX@PREDDVJB	55C	
SX@PREDDVRC	560	
SX@PREDELAY	7B8	
SX@PREDEMEM	1D4	
SX@PREDEPL	774	
SX@PREDESI	98	
SX@PREDEST	94	
SX@PREDEVDR	4C0	
SX@PREDEVID	3C4	
SX@PREDEVNM	12C	
SX@PREDFLNO	47C	
SX@PREDFSS	494	
SX@PREDIL	130	

Table 529. Cross Reference for $SXADDR (continued)

Name	Offset	Hex Tag
SX@PREDJB	750	
SX@PREDJSAF	800	
SX@PREDJVOL	7EC	
SX@PREDMOD	884	
SX@PREDMODX	888	
SX@PREDNEGZ	358	
SX@PREDNET	624	
SX@PREDNOCB	35C	
SX@PREDNPM	608	
SX@PREDPRMD	534	
SX@PREDPSWD	674	
SX@PREDPZPT	500	
SX@PREDQST	1BC	
SX@PREDRC	550	
SX@PREDRHL	1A8	
SX@PREDRNE	7B4	
SX@PREDRNG	544	
SX@PREDRRC	590	
SX@PREDRSAF	564	
SX@PREDRSVD	2F0	
SX@PREDSAF	458	
SX@PREDSAFL	37C	
SX@PREDSBEX	B0	
SX@PREDSESN	614	
SX@PREDSID	1C8	
SX@PREDSLCT	4E8	
SX@PREDSLIM	1E0	
SX@PREDSPWD	650	
SX@PREDSSAF	2BC	
SX@PREDSSI	31C	
SX@PREDSTAT	558	
SX@PREDSTS	2D0	
SX@PREDUSEC	2B0	
SX@PREDUSEP	2B4	
SX@PREDVDRN	588	
SX@PREDVSTK	548	
SX@PREDWS	57C	
SX@PREEOMCT	120	
SX@PREEVDUR	248	
SX@PREEXIT	A4	
SX@PREEXRTN	AC	
SX@PREFFCHK	3BC	
SX@PREFJSAF	804	
SX@PREFJVOL	7F0	
SX@PREFLHOT	3C0	
SX@PREFNODE	600	
SX@PREFNPM	604	
SX@PREFOCLS	6C4	
SX@PREFOFFS	704	

Table 529. Cross Reference for $SXADDR (continued)

Name	Offset	Hex Tag
SX@PREFOUTG	6D0	
SX@PREFPATH	67C	
SX@PREFPRMD	538	
SX@PREFRC	554	
SX@PREFRRC	594	
SX@PREFSPAF	2C4	
SX@PREFSSDF	B8	
SX@PREFTGP	7E4	
SX@PREHLDRC	6C8	
SX@PREHOTS	354	
SX@PREHPCE	114	
SX@PREHUSTB	820	
SX@PREINCL	CC	
SX@PREINECL	F4	
SX@PREINIT	DC	
SX@PREIPAD	678	
SX@PREIREA	118	
SX@PREISPOL	2A8	
SX@PREISPSF	2C0	
SX@PREISTC	380	
SX@PREJABS	7A4	
SX@PREJABU	7A8	
SX@PREJBDUP	790	
SX@PREJCKJO	6EC	
SX@PREJCLAS	7B0	
SX@PREJCLMD	3A0	
SX@PREJCOR	77C	
SX@PREJDEST	6DC	
SX@PREJDMND	6F4	
SX@PREJDSC	7F4	
SX@PREJESLD	170	
SX@PREJESLS	16C	
SX@PREJHOLD	81C	
SX@PREJINIT	7BC	
SX@PREJLOCK	720	
SX@PREJOAUP	6B4	
SX@PREJOBSY	6C0	
SX@PREJOE	6B0	
SX@PREJOERC	6E0	
SX@PREJOEUS	1E4	
SX@PREJOFFS	700	
SX@PREJOFRC	6E4	
SX@PREJOOFS	6FC	
SX@PREJOSTA	6E8	
SX@PREJPRIF	7C4	
SX@PREJQAUP	79C	
SX@PREJQBSY	7A0	
SX@PREJQE	784	
SX@PREJQEPH	7D8	

Table 529. Cross Reference for $SXADDR (continued)

Name	Offset	Hex Tag
SX@PREJQEXQ	7D4	
SX@PREJQOFS	6F8	
SX@PREJQPRI	7C0	
SX@PREJQRDS	794	
SX@PREJRBLD	184	
SX@PREJRCPG	6D8	
SX@PREJST	788	
SX@PREJSTAT	7FC	
SX@PREJTGN	7E8	
SX@PREJTGP	7E0	
SX@PRELDED	5E0	
SX@PRELDEV	3F4	
SX@PRELDFLT	40C	
SX@PRELDNDE	410	
SX@PRELDVL	3F0	
SX@PRELFNDE	414	
SX@PRELIMIT	344	
SX@PRELINE	3FC	
SX@PRELINST	428	
SX@PRELNERS	424	
SX@PRELNSTK	408	
SX@PRELOAD	87C	
SX@PRELOADF	894	
SX@PRELOADR	88C	
SX@PRELOADT	890	
SX@PRELOLP	71C	
SX@PRELORDY	714	
SX@PRELOTOT	718	
SX@PRELSFRM	49C	
SX@PREMCKPT	8D4	
SX@PREMDEFD	1C0	
SX@PREMESYS	19C	
SX@PREMIGDA	2E8	
SX@PREMPERC	2EC	
SX@PREMSNM	1DC	
SX@PREMULFM	524	
SX@PREMULRC	598	
SX@PREMZDSK	764	
SX@PREMZJOB	75C	
SX@PREMZOD	760	
SX@PREMZODL	768	
SX@PRENACT	648	
SX@PRENDDEL	724	
SX@PRENDPAS	64C	
SX@PRENDSTK	658	
SX@PRENIPRT	4B4	
SX@PRENNUM	63C	
SX@PRENODE	640	
SX@PRENODES	654	

Table 529. Cross Reference for $SXADDR (continued)

Name	Offset	Hex Tag
SX@PRENULL	33C	
SX@PREODRDY	6D4	
SX@PREOFFCL	460	
SX@PREOGDJC	154	
SX@PREOGDOC	21C	
SX@PREOGDOS	214	
SX@PREOGDSR	448	
SX@PREOGDST	450	
SX@PREOJQX	6F0	
SX@PREOPACT	4C4	
SX@PREOTGRP	6CC	
SX@PREOUTJX	1E8	
SX@PREPCEDJ	238	
SX@PREPCEDN	230	
SX@PREPCEDT	22C	
SX@PREPCEFW	23C	
SX@PREPCETB	224	
SX@PREPCEWF	234	
SX@PREPDRPT	26C	
SX@PREPDSRV	270	
SX@PREPIDNT	628	
SX@PREPIFNL	4B8	
SX@PREPITCL	E8	
SX@PREPITRS	378	
SX@PREPMODE	4A0	
SX@PREPPATH	664	
SX@PREPRFCT	288	
SX@PREPRFDT	28C	
SX@PREPRFFL	254	
SX@PREPRFNL	250	
SX@PREPRFPA	264	
SX@PREPRFPC	24C	
SX@PREPRFPS	258	
SX@PREPRFQA	268	
SX@PREPRFRS	240	
SX@PREPRFSU	244	
SX@PREPRFWA	260	
SX@PREPRFZR	284	
SX@PREPROCL	468	
SX@PREPRT	474	
SX@PREPSJB	E4	
SX@PREPSOCT	124	
SX@PREPSTAT	668	
SX@PREPTF	898	
SX@PREPTVCL	EC	
SX@PREPVIA	660	
SX@PREQSNOI	350	
SX@PREQSUSE	34C	
SX@PRERDEST	53C	

Table 529. Cross Reference for $SXADDR (continued)

Name	Offset	Hex Tag
SX@PRERDEV	4DC	
SX@PRERDSTM	298	
SX@PRERDVAU	4E0	
SX@PREREGN	158	
SX@PRERHELD	1A4	
SX@PRERMT	504	
SX@PRERMTP	514	
SX@PRERMTRC	4F8	
SX@PRERMTSH	518	
SX@PRERMTST	520	
SX@PRERNG	540	
SX@PRERPRPU	59C	
SX@PRERPZPT	4FC	
SX@PRESAPCT	128	
SX@PRESBYS	7DC	
SX@PRESDFRE	310	
SX@PRESDPCT	314	
SX@PRESHOST	680	
SX@PRESJSAF	808	
SX@PRESKSTK	670	
SX@PRESNIFF	3B0	
SX@PRESOCK	68C	
SX@PRESOKID	684	
SX@PRESPM	134	
SX@PRESPOOL	2A4	
SX@PRESPST	2DC	
SX@PRESRPAF	854	
SX@PRESVSES	438	
SX@PRESZNET	61C	
SX@PRETDFID	330	
SX@PRETRCDV	58C	
SX@PRETRCID	334	
SX@PREUNIT	574	
SX@PREVOLT	40	
SX@PREVTRC	420	
SX@PREWAITP	25C	
SX@PREWHEN	76C	
SX@PREWSC	274	
SX@PREWSCA	278	
SX@PREWSCAF	838	
SX@PREWSCA2	834	
SX@PREWSCCO	844	
SX@PREWSCCT	848	
SX@PREWSCMC	84C	
SX@PREXMEMB	11C	
SX@PREXWA	1EC	
SX@PREZAPJB	394	
SX@PREZJCUS	C0	
SX@PREZODCK	770	

Table 529. Cross Reference for $SXADDR (continued)

Name	Offset	Hex Tag
SX@PREZPSEQ	3C8	
SX@PREZRCHK	3B8	
SX@PRE4STAR	70C	
SX@PRE496KY	8C4	
SX@PRE536	8C8	
SX@PRE542	8CC	
SX@PRE608	104	
SX@PRPRESET	4BC	
SX@PSTACTIV	388	
SX@PSTADDR	10	
SX@PSTAPPL	5D8	
SX@PSTBADTR	C	
SX@PSTBUF	14	
SX@PSTCAT	160	
SX@PSTCATAC	13C	
SX@PSTCATI	164	
SX@PSTCATNW	168	
SX@PSTCATSC	38C	
SX@PSTCCM1	1B4	
SX@PSTCCM2	1B8	
SX@PSTCDCT	5A4	
SX@PSTCDCTO	5A8	
SX@PSTCDCTS	5AC	
SX@PSTCF	3C	
SX@PSTCFVQE	78C	
SX@PSTCGROP	374	
SX@PSTCHARS	18	
SX@PSTCKLCK	50	
SX@PSTCKMOD	4C	
SX@PSTCKPSP	54	
SX@PSTCKPT	28	
SX@PSTCKPTN	2C	
SX@PSTCKSPX	48	
SX@PSTCKVOL	38	
SX@PSTCKVRS	30	
SX@PSTCLASV	F0	
SX@PSTCLSGP	64	
SX@PSTCMB	78	
SX@PSTCNCHR	80	
SX@PSTCOMP	70	
SX@PSTCONCT	5F0	
SX@PSTCSCHE	390	
SX@PSTCSTAT	610	
SX@PSTCYLDS	304	
SX@PSTDBUGA	90	
SX@PSTDCNCT	5F4	
SX@PSTDDFCB	484	
SX@PSTDEBUG	8C	
SX@PSTDEFCL	194	

Table 529. Cross Reference for $SXADDR (continued)

Name	Offset	Hex Tag
SX@PSTDESI	9C	
SX@PSTDEVST	138	
SX@PSTDFCB	48C	
SX@PSTDJB	754	
SX@PSTDRHL	1AC	
SX@PSTDSBEX	B4	
SX@PSTDSN	34	
SX@PSTDUCS	4A8	
SX@PSTDUPL	190	
SX@PSTDUPLC	174	
SX@PSTDWRKQ	2D4	
SX@PSTEMEM	1D0	
SX@PSTEST	A0	
SX@PSTEVTLS	198	
SX@PSTEXIT	A8	
SX@PSTFEN	2FC	
SX@PSTFENO	30C	
SX@PSTFSNSP	4CC	
SX@PSTFSSDF	BC	
SX@PSTFSSET	4D0	
SX@PSTFSUPD	4C8	
SX@PSTFSYNC	4D4	
SX@PSTGRPDF	C4	
SX@PSTHPRM	3A8	
SX@PSTINCDS	D4	
SX@PSTINCL	D0	
SX@PSTINIT	E0	
SX@PSTINPDF	F8	
SX@PSTIRTRC	3EC	
SX@PSTJBJNC	17C	
SX@PSTJBNUM	180	
SX@PSTJCLMD	3A4	
SX@PSTJCOR	780	
SX@PSTJECDF	FC	
SX@PSTJEXFL	7D0	
SX@PSTJGNUM	C8	
SX@PSTJOBCL	100	
SX@PSTJOBDF	178	
SX@PSTJOBNM	52C	
SX@PSTJODSP	6BC	
SX@PSTJONUM	204	
SX@PSTJQASC	818	
SX@PSTJQDSP	798	
SX@PSTJQPRI	7C8	
SX@PSTJQPST	14C	
SX@PSTJRNG	188	
SX@PSTJSCHE	814	
SX@PSTJSCLS	7AC	
SX@PSTJSRVC	7F8	

Table 529. Cross Reference for $SXADDR (continued)

Name	Offset	Hex Tag
SX@PSTLDED	5E4	
SX@PSTLDSR	1F0	
SX@PSTLGNA	430	
SX@PSTLIMIT	348	
SX@PSTLIM1	340	
SX@PSTLINE	400	
SX@PSTLINEA	404	
SX@PSTLINST	42C	
SX@PSTLOAD	880	
SX@PSTLSPIN	328	
SX@PSTLTRSS	41C	
SX@PSTLTRST	418	
SX@PSTMASDF	1B0	
SX@PSTMDRC	44C	
SX@PSTMDSAF	454	
SX@PSTMESYS	1A0	
SX@PSTMIND	1CC	
SX@PSTMZOD	778	
SX@PSTNCHG	65C	
SX@PSTNETAC	62C	
SX@PSTNJEC	638	
SX@PSTNLM	634	
SX@PSTNODE	644	
SX@PSTNOTAB	32C	
SX@PSTNRT	630	
SX@PSTNTRSS	444	
SX@PSTNTRST	440	
SX@PSTOARCH	464	
SX@PSTOGDJC	150	
SX@PSTOGDOC	220	
SX@PSTOGDOS	218	
SX@PSTOUTDF	1F4	
SX@PSTOUTDO	1F8	
SX@PSTOUTJX	200	
SX@PSTOUTSO	1FC	
SX@PSTPCETB	228	
SX@PSTPJQUE	7CC	
SX@PSTPMEM	3AC	
SX@PSTPRDFL	480	
SX@PSTPREFX	7C	
SX@PSTPRFCB	488	
SX@PSTPRFLS	490	
SX@PSTPRMD	530	
SX@PSTPROCL	46C	
SX@PSTPRT	478	
SX@PSTPRTDF	290	
SX@PSTPRTY	18C	
SX@PSTPRUCS	4A4	
SX@PSTPRYO	208	

Table 529. Cross Reference for $SXADDR (continued)

Name	Offset	Hex Tag
SX@PSTPUN	4D8	
SX@PSTQHPST	148	
SX@PSTRC	54C	
SX@PSTRDCHR	84	
SX@PSTRDEV	4F4	
SX@PSTRDSTM	29C	
SX@PSTRDVCM	4EC	
SX@PSTRDVCO	4F0	
SX@PSTRECV	294	
SX@PSTREGN	15C	
SX@PSTRMT	508	
SX@PSTRMTA	50C	
SX@PSTRMTLN	510	
SX@PSTRMTSH	51C	
SX@PSTROPT	20C	
SX@PSTRPRPU	5A0	
SX@PSTSAF	45C	
SX@PSTSCOPE	88	
SX@PSTSEGLM	210	
SX@PSTSELCT	4E4	
SX@PSTSFSS	498	
SX@PSTSICE	324	
SX@PSTSJSAF	80C	
SX@PSTSNAME	1C4	
SX@PSTSNIFF	3B4	
SX@PSTSOCK	66C	
SX@PSTSOFFS	708	
SX@PSTSOKST	688	
SX@PSTSPDSN	2C8	
SX@PSTSPDVL	318	
SX@PSTSPL	308	
SX@PSTSPLDF	2F8	
SX@PSTSPOOL	2AC	
SX@PSTSPSAF	2D8	
SX@PSTSPSTX	2E0	
SX@PSTSPTAR	2E4	
SX@PSTSRSAF	568	
SX@PSTSRSF2	56C	
SX@PSTSRVA	434	
SX@PSTSTMOD	710	
SX@PSTSVSCK	43C	
SX@PSTSZNET	620	
SX@PSTTP	320	
SX@PSTTRANS	3F8	
SX@PSTTRCDV	584	
SX@PSTTRFLT	338	
SX@PSTUNIT	570	
SX@PSTVJBID	39C	
SX@PSTVOL	578	

Table 529. Cross Reference for $SXADDR (continued)

Name	Offset	Hex Tag
SX@PSTWFORM	528	
SX@PSTWQAFF	83C	
SX@PSTWS	580	
SX@PSTWSC	830	
SX@PSTWSCA	27C	
SX@PSTWSCB	280	
SX@PSTWTYPE	840	
SX@PSTZAPJB	398	
SXADDR	0	
SXADDRID	0	E2E7C1C4
SXADDRLN	8FC	900
SXADDRV	4	
SXADDRVN	4	1

Chapter 217. $SYMCB Information

$SYMCB Heading Information

Common Name: $SYMREC main control block
Macro ID: $SYMCB
DSECT Name: SYM
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'SYM '
Offset: SYMID-SYM
Length: 4
Storage Attributes: Subpool: 0
Key: 0
Residency: Virtual and real storage are anywhere (above or below the 16M line).

Size: See SYMLEN
Created by: $SYMREC service
Pointed to by: N/A
Serialization: None.
Function: This control block contains a work area for the $SYMREC service followed by the space for a maximum size symptom record

$SYMCB mapping

Table 530. Structure SYM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SYM	
0	(0)	CHARACTER	4	SYMID	Control block ID
4	(4)	ADDRESS	1	SYMLEVEL	Control block version
		.... ..1.		SYMVERSN	"X'02'" Control block version EQU
5	(5)	BITSTRING	1	SYMFLAG1	SYMREC control flags
		1...		SYM1NMSG	"B'10000000'" Suppress DEBUG message
6	(6)	BITSTRING	2		RESERVED
		Table of addresses of control blocks defined by CBDEFs			
8	(8)	ADDRESS	4	SYMCB1	Control block #1 address
12	(C)	ADDRESS	4	SYMCB2	Control block #2 address
16	(10)	ADDRESS	4	SYMCB3	Control block #3 address
20	(14)	ADDRESS	4	SYMCB4	Control block #4 address
24	(18)	ADDRESS	4	SYMCB5	Control block #5 address
28	(1C)	ADDRESS	4	SYMCB6	Control block #6 address
32	(20)	ADDRESS	4	SYMCB7	Control block #7 address
36	(24)	ADDRESS	4	SYMCB8	Control block #8 address
40	(28)	ADDRESS	4	SYMCB9	Control block #9 address
44	(2C)	ADDRESS	4	SYMCB10	Control block #10 address
48	(30)	ADDRESS	4	SYMCBBAS	Address of base control block

Table 530. Structure SYM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Registers R2-R13 that were current when the $SYMREC macro was invoked.			
52	(34)	SIGNED	4	SYMCLR2	Callers register 2 data
56	(38)	SIGNED	4	SYMCLR3	Callers register 3 data
60	(3C)	SIGNED	4	SYMCLR4	Callers register 4 data
64	(40)	SIGNED	4	SYMCLR5	Callers register 5 data
68	(44)	SIGNED	4	SYMCLR6	Callers register 6 data
72	(48)	SIGNED	4	SYMCLR7	Callers register 7 data
76	(4C)	SIGNED	4	SYMCLR8	Callers register 8 data
80	(50)	SIGNED	4	SYMCLR9	Callers register 9 data
84	(54)	SIGNED	4	SYMCLR10	Callers register 10 data
88	(58)	SIGNED	4	SYMCLR11	Callers register 11 data
92	(5C)	SIGNED	4	SYMCLR12	Callers register 12 data
96	(60)	SIGNED	4	SYMCLR13	Callers register 13 data
		Bits set by the TYPE=COND keyword of the $SYMTAB macro			
100	(64)	BITSTRING	1	SYMBYTE1	Condition byte 1 (bits 1-8)
101	(65)	BITSTRING	1	SYMBYTE2	Condition byte 2 (bits 9-16)
102	(66)	BITSTRING	2		Reserved for future use
104	(68)	ADDRESS	4	SYMCURP	Current data pointer
108	(6C)	ADDRESS	4	SYMSTRTP	Pointer to start of current section
112	(70)	DBL WORD	8	SYMGWORK(0)	General work area
112	(70)	SIGNED	4	SYMHEXP(0)	Parm list for HEXCNVT
112	(70)	ADDRESS	4	SYMHEXPI	+0 address of input area
116	(74)	ADDRESS	4	SYMHEXPO	+4 address of output area
120	(78)	SIGNED	2	SYMHEXPL	+8 Length of input area
122	(7A)	BITSTRING	10		+10 Work area for convert
112	(70)	DBL WORD	8	SYMDWORK	Work area for CVD
120	(78)	BITSTRING	12	SYMWORK2	Work area for edit instruction
		MACDATE = 06/12/85			
112	(70)	SIGNED	4	(0)	ALIGN THE LIST TO WORD BOUNDARY
112	(70)	CHARACTER	16	SYMRECL(0)	
112	(70)	BITSTRING	1	ASR1387L	LEVEL AND VERSION OF SYMREC MACRO
113	(71)	BITSTRING	3	ASR1387O	RESERVED
116	(74)	ADDRESS	4	ASR1387S	ADDRESS OF SYMPTOM RECORD
120	(78)	BITSTRING	8	ASR1387R	RESERVED
112	(70)	SIGNED	4	SYMMAP(0)	MODMAP-STYLE ENTRY
132	(84)	ADDRESS	4	SYMCNVTH	Address of convert routine to HEX
		Actual symptom record			
136	(88)	BITSTRING	1900	SYMSYMR	Symtom record storage
136	(88)	X'D0'	0	SYMLEN3	"SYMSYMR+ADSRDBL-ADSR" Length of section 3
136	(88)	X'D2'	0	SYMOFF3	"SYMSYMR+ADSRDBO-ADSR" Offset to section 3
136	(88)	X'D4'	0	SYMLEN4	"SYMSYMR+ADSRROSL-ADSR" Length of section 4
136	(88)	X'D6'	0	SYMOFF4	"SYMSYMR+ADSRROSA-ADSR" Offset to section 4

Table 530. Structure SYM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
136	(88)	X'D8'	0	SYMLEN5	"SYMSYMR+ADSRRONL-ADSR" Length of section 5
136	(88)	X'DA'	0	SYMOFF5	"SYMSYMR+ADSRRONA-ADSR" Offset to section 5
2036	(7F4)	BITSTRING	1	SYMSYME(0)	End of symptom record
	Text for DEBUG WTO				
2036	(7F4)	BITSTRING	120	SYMCBMSG	Work area for WTO text
2160	(870)	DBL WORD	8	(0)	Ensure Double Word length
2160	(870)	X'870'	0	SYMLEN	"*-SYM" Length of storage
	Equates for SYMPTOM keys in section 5. Certain key ranges have specific meanings. The following table describes the defined ranges: Key range User category and data type 0001-00FF Reserved 0100-0FFF MVS System programs 1000-18FF VM System programs 1900-1FFF DOS/VSE System programs 2000-BFFF Reserved C900-CFFF Program products and non-printable HEX data D000-DFFF Program products and printable EBCDIC data E900-EFFF Reserved F000 Any program and printable EBCDIC F001-F0FF Not assigned F100-FEFF Reserved FF00 Any program and non-printable EBCDIC data FF01-FFFF Not assigned JES2 uses keys in the 0100-0FFF range				
2160	(870)	BITSTRING	0	SYKBUFF	"X'0100'" Buffer contents
2160	(870)	BITSTRING	0	SYKJQE	"X'0101'" JQE contents
2160	(870)	BITSTRING	0	SYKJCT	"X'0102'" JCT contents
2160	(870)	BITSTRING	0	SYKNCC	"X'0103'" NCC record
2160	(870)	BITSTRING	0	SYKNTQ	"X'0104'" NTQ contents
2160	(870)	BITSTRING	0	SYKSWBM	"X'0105'" SJF SJSMP (SWBTU_MERGE) contents
2160	(870)	BITSTRING	0	SYKSJSP	"X'0106'" SJF SJTSP (SWBTUREQ SPLIT)
2160	(870)	BITSTRING	0	SYKSMSU	"X'0107'" SWB Modify Subtask parms
2160	(870)	BITSTRING	0	SYKNMR	"X'0108'" NMR CONTENTS
2160	(870)	BITSTRING	0	SYKWTOPL	"X'0109'" $WTO PARM LIST CONTENTS
2160	(870)	BITSTRING	0	SYKNJH	"X'010A'" Network Header contents
2160	(870)	BITSTRING	0	SYKSMF	"X'010B'" SMF $CPOOL info
2160	(870)	BITSTRING	0	SYKX15	"X'010C'" Exit 15 parm list
2160	(870)	BITSTRING	0	SYKMQT	"X'010D'" MQT for SPOOL management
2160	(870)	BITSTRING	0	SYKSIGE	"X'010E'" Expected signature record
2160	(870)	BITSTRING	0	SYKSIGA	"X'010F'" Actual signature record
2160	(870)	BITSTRING	0	SYKF256	"X'0110'" First 256 bytes of first block of failing trkgrp
2160	(870)	BITSTRING	0	SYKICE	"X'0111'" ICE contents

Table 530. Structure SYM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2160	(870)	BITSTRING	0	SYKICEAD	"X'0112'" ICE address
2160	(870)	BITSTRING	0	SYKBERT	"X'0113'" BERT data
2160	(870)	BITSTRING	0	SYKBRTAD	"X'0114'" BERT address
2160	(870)	BITSTRING	0	SYKPDD	"X'0115'" DD name of dataset
2160	(870)	BITSTRING	0	SYKPCNT	"X'0116'" Job total counts
2160	(870)	BITSTRING	0	SYKJQEO	"X'0117'" JQE contents of signature record JQE
2160	(870)	BITSTRING	0	SYKMTTR	"X'0118'" MTTR associated with error
2160	(870)	BITSTRING	0	SYKNJET	"X'0119'" $NJETRC trace table
2160	(870)	BITSTRING	0	SYKMQTR	"X'011A'" MQTR associated with error
2160	(870)	BITSTRING	0	SYKSJIOB	"X'011B'" SJIOB associated with error
2160	(870)	BITSTRING	0	SYKDAS	"X'011C'" DAS associated with error
2160	(870)	BITSTRING	0	SYKDASTR	"X'011D'" Target DAS if SPOOL migr
2160	(870)	BITSTRING	0	SYKPSV	"X'011E'" PSV format save area
2160	(870)	BITSTRING	0	SYKPSVAR	"X'011F'" PSV format AR save area
2160	(870)	BITSTRING	0	SYKBTE	"X'0120'" Bad track entry (BTE)
2160	(870)	BITSTRING	0	SYKBAT	"X'0121'" BAT associated with error
2160	(870)	BITSTRING	0	SYKENFRC	"X'0122'" ENFREQ RC value
2160	(870)	BITSTRING	0	SYKENFSG	"X'0123'" ENFREQ signal
2160	(870)	BITSTRING	0	SYKCKA	"X'0124'" CKPT CKA data area
2160	(870)	BITSTRING	0	SYKCKIP	"X'0125'" CKPT CKIP data area
2160	(870)	BITSTRING	0	SYKCCWA	"X'0126'" CCW area address
2160	(870)	BITSTRING	0	SYKCCWS	"X'0127'" CCW area contents
2160	(870)	BITSTRING	0	SYKCDATA	"X'0128'" CCW data areas address
2160	(870)	BITSTRING	0	SYKCDAT	"X'0129'" CCW data areas contents
2160	(870)	BITSTRING	0	SYKDSN	"X'012A'" Data set name
2160	(870)	BITSTRING	0	SYKVOL	"X'012B'" Volume Serial
2160	(870)	BITSTRING	0	SYKDEB	"X'012C'" DEB contents
2160	(870)	BITSTRING	0	SYKDXPRM	"X'012D'" Define Extent parms

Table 531. Cross Reference for $SYMCB

Name	Offset	Hex Tag
ASR1387L	70	1
ASR1387O	71	0
ASR1387R	78	0
ASR1387S	74	
SYKBAT	870	121
SYKBERT	870	113
SYKBRTAD	870	114
SYKBTE	870	120
SYKBUFF	870	100
SYKCCWA	870	126
SYKCCWS	870	127

Table 531. Cross Reference for $SYMCB (continued)

Name	Offset	Hex Tag
SYKCDAT	870	129
SYKCDATA	870	128
SYKCKA	870	124
SYKCKIP	870	125
SYKDAS	870	11C
SYKDASTR	870	11D
SYKDEB	870	12C
SYKDSN	870	12A
SYKDXPRM	870	12D
SYKENFRC	870	122
SYKENFSG	870	123
SYKF256	870	110
SYKICE	870	111
SYKICEAD	870	112
SYKJCT	870	102
SYKJQE	870	101
SYKJQEO	870	117
SYKMQT	870	10D
SYKMQTR	870	11A
SYKMTTR	870	118
SYKNCC	870	103
SYKNJET	870	119
SYKNJH	870	10A
SYKNMR	870	108
SYKNTQ	870	104
SYKPCNT	870	116
SYKPDD	870	115
SYKPSV	870	11E
SYKPSVAR	870	11F
SYKSIGA	870	10F
SYKSIGE	870	10E
SYKSJIOB	870	11B
SYKSJSP	870	106
SYKSMF	870	10B
SYKSMSU	870	107
SYKSWBM	870	105
SYKVOL	870	12B
SYKWTOPL	870	109
SYKX15	870	10C
SYM	0	
SYMBYTE1	64	
SYMBYTE2	65	
SYMCBBAS	30	
SYMCBMSG	7F4	
SYMCB1	8	
SYMCB10	2C	
SYMCB2	C	
SYMCB3	10	
SYMCB4	14	

Table 531. Cross Reference for $SYMCB (continued)

Name	Offset	Hex Tag
SYMCB5	18	
SYMCB6	1C	
SYMCB7	20	
SYMCB8	24	
SYMCB9	28	
SYMCLR10	54	
SYMCLR11	58	
SYMCLR12	5C	
SYMCLR13	60	
SYMCLR2	34	
SYMCLR3	38	
SYMCLR4	3C	
SYMCLR5	40	
SYMCLR6	44	
SYMCLR7	48	
SYMCLR8	4C	
SYMCLR9	50	
SYMCNVTH	84	
SYMCURP	68	
SYMDWORK	70	
SYMFLAG1	5	
SYMGWORK	70	
SYMHEXP	70	
SYMHEXPI	70	
SYMHEXPL	78	
SYMHEXPO	74	
SYMID	0	E2E8D440
SYMLEN	870	870
SYMLEN3	88	D0
SYMLEN4	88	D4
SYMLEN5	88	D8
SYMLEVEL	4	
SYMMAP	70	
SYMOFF3	88	D2
SYMOFF4	88	D6
SYMOFF5	88	DA
SYMRECL	70	
SYMSTRTP	6C	
SYMSYME	7F4	
SYMSYMR	88	
SYMVERSN	4	2
SYMWORK2	78	
SYM1NMSG	5	80

Chapter 218. $S35D Information

$S35D Programming Interface Information

$S35D is a programming interface.

$S35D Heading Information

Common Name:	WTO (SVC 35) work area DSECT
Macro ID:	$S35D
DSECT Name:	S35DSECT
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	S35D Job log message S35S Message from another address space S35R Reply command Offset: S35DID-S35DSECT Length: L'S35DID
Storage Attributes:	Subpool: N/A Key: 1 Residency: In the xxxxWTO data space
Size:	See S35DL
Created by:	HASCSIRQ during REPLY command processing (SSICMD) HASCSIRQ during WTO exit processing (SSIWTA)
Pointed to by:	S35DPREV field of the S35D data area S35DNEXT field of the S35D data area TINHEAD field of the TINA data area TINTAIL field of the TINA data area TREWTAWA field of the TRE data area
Serialization:	FIFOENQ, FIFODEQ, FIFOBLK
Function:	This DSECT represents a message that is to be placed into the JOB LOG of a job. This area is obtained by: SSIWTA for WTOs and WTORs issued by an address space SSICMD for reply commands

$S35D mapping

Table 532. Structure S35DSECT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	S35DSECT	
0	(0)	CHARACTER	4	S35DID	Eyecatcher (see above)
4	(4)	ADDRESS	4	S35DNEXT	Pointer to next buffer
8	(8)	ADDRESS	4	S35DPREV	Address of prior buffer
12	(C)	SIGNED	2	S35DMSGL	LENGTH OF TEXT IN LOG BUFFER
14	(E)	CHARACTER	146	S35DMSG(0)	MESSAGE AREA
14	(E)	CHARACTER	8	S35DTIME	HH.MM.SS
14	(E)	CHARACTER	2		Indent id 2 characters
16	(10)	CHARACTER	4	S35DMCON	Connect id for minor WQE
22	(16)	CHARACTER	1		
23	(17)	CHARACTER	8	S35DJOB	JOB NNNN
31	(1F)	CHARACTER	1		

Table 532. Structure S35DSECT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
32	(20)	CHARACTER	1	S35DACTF	
33	(21)	CHARACTER	1	S35DTEXT(0)	Start of text
33	(21)	X'9'	0	S35HIDL	"9" SIZE OF HASP ID PORTION OF TEXT
33	(21)	CHARACTER	1	S35DHID	HASPXXX-
33	(21)	X'1C'	0	S35DFILL	"*-S35DMSG" Length to indent message
42	(2A)	CHARACTER	8	S35DJOBN	JOBNAME
50	(32)	CHARACTER	1		
50	(32)	X'6D'	0	S35DTXTL	"(S35DMSG+L'S35DMSG-*)"
51	(33)	CHARACTER	109	S35DTXT	Message text
160	(A0)	SIGNED	2	S35DTMSL	Total message length
162	(A2)	SIGNED	2	S35DMS2L	Length of 2nd half of msg
164	(A4)	ADDRESS	4	S35DMS2P	Start of 2nd half of msg
168	(A8)	BITSTRING	1	S35DFLG1	Flag byte
		1...		S35DSPLT	"B'10000000'" Message is to be split
		.1..		S35DJOBI	"B'01000000'" JOBID needs to be added
172	(AC)	SIGNED	4	(0)	
172	(AC)	BITSTRING	16	S35DTMST(0)	Time associated with msg
172	(AC)		8	S35DTME	Time in HHMMSSthmiju0000
180	(B4)		4	S35DDATE	Date in 0YYYYDDD
184	(B8)	SIGNED	4		Reserved (must be 0)
192	(C0)	DBL WORD	8	S35DSTCK	STCK timestamp of a message
192	(C0)	X'84'	0	S35DMAX	"132" Maximum log lrecl size
200	(C8)	DBL WORD	8	(0)	
200	(C8)	X'C8'	0	S35DL	"*-S35DSECT" LENGTH OF WORK AREA
200	(C8)	X'FF'	0	S35SP	"255" SUBPOOL FOR WORK AREA

Table 533. Cross Reference for $S35D

Name	Offset	Hex Tag
S35DACTF	20	
S35DDATE	B4	
S35DFILL	21	1C
S35DFLG1	A8	
S35DHID	21	
S35DID	0	E2F3F5A7
S35DJOB	17	
S35DJOBI	A8	40
S35DJOBN	2A	
S35DL	C8	C8
S35DMAX	C0	84
S35DMCON	10	
S35DMSG	E	
S35DMSGL	C	
S35DMS2L	A2	
S35DMS2P	A4	
S35DNEXT	4	
S35DPREV	8	

Table 533. Cross Reference for $S35D (continued)

Name	Offset	Hex Tag
S35DSECT	0	
S35DSPLT	A8	80
S35DSTCK	C0	
S35DTEXT	21	
S35DTIME	E	
S35DTME	AC	
S35DTMSL	A0	
S35DTMST	AC	
S35DTXT	33	
S35DTXTL	32	6D
S35HIDL	21	9
S35SP	C8	FF

Chapter 219. $TAB Information

$TAB Programming Interface Information

$TAB is a programming interface.

$TAB Heading Information

Common Name: HASP Track Allocation Block DSECT
Macro ID: $TAB
DSECT Name: TAB
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: None
Storage Attributes:
```
Subpool:   N/A
Key:       N/A
Residency: N/A
```

Size: See TABLNGTH
Created by: $TABs are created when the data area into which they are imbedded are created.
Pointed to by: $TABs are imbedded in the $IOT or $SDB data areas
Serialization: In the user environment, updates are via PLO if there are records remaining in the TAB and via ENQ if there are no records remaining in the TAB. See routine $STRAK in HASCSRIC for details.
In the JES2 environment, main task serialization is all that is required.
Function: The TAB describes a information needed to track the allocation of SPOOL space to a job or a data set. TABs are created as part of another control ($SDB or $IOT) and do not exist as separate control blocks.

$TAB mapping

Table 534. Structure TAB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	TAB	, TRACK ALLOCATION BLOCK
0	(0)	SIGNED	4	TABMTTR	Last allocated buffer (must end up DWORD aligned for a PLO)
4	(4)	BITSTRING	1	TABFLAG	FLAG BYTE
		....		TABMINOR	"B'00000000'" NON-TRACK-CELLED -- PDDB LEVEL
		.1..		TABMAJOR	"B'01000000'" TRACK-CELLED -- PDDB LEVEL
		11..		TABMASTR	"B'11000000'" NON-TRACK-CELLED -- JOB LEVEL
5	(5)	BITSTRING	1		Reserved
6	(6)	BITSTRING	1	TABMAXR	MAX RECD NBR ON TRACK
7	(7)	BITSTRING	1	TABUFCNT	NBR BUFFERS LEFT IN CELL

Table 534. Structure TAB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
7	(7)	X'4'	0	TABRCPBA	"TABFLAG,*-TABFLAG" BACK-UP AREA FOR RCPXTTR FOR MAS SPOOL MESSAGES
8	(8)	SIGNED	4	TABAIOT	ADDR OF ALLOCATION IOT
8	(8)	X'C'	0	TABLNGTH	"*-TAB" TAB DSECT LENGTH

Table 535. Cross Reference for $TAB

Name	Offset	Hex Tag
TAB	0	
TABAIOT	8	
TABFLAG	4	
TABLNGTH	8	C
TABMAJOR	4	40
TABMASTR	4	C0
TABMAXR	6	
TABMINOR	4	0
TABMTTR	0	
TABRCPBA	7	4
TABUFCNT	7	

Chapter 220. $TED Information

$TED Heading Information

Common Name:	Trace Enablement Descriptor
Macro ID:	$TED
DSECT Name:	TED
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'TED ' Offset: -8 (in the JES2 CSA storage prefix) Length: 4
Storage Attributes:	Subpool: 241 Key: 1 Residency: Virtual is in 31 bit common storage. Real storage can be anywhere in 64 bit storage
Size:	See the TEDLEN equate (plus an 8 byte prefix)
Created by:	HASPIRSI
Pointed to by:	CCTTED field of the $HCCT data area
Serialization:	None required
Function:	The $TED DSECT maps the data areas needed to determine if a particular trace is active and if so, what filters may apply to that trace. The $TED has a basic header followed by an array of 256 entries that specify the characteristics for all possible trace entries.

$TED mapping

Table 536. Structure TED

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	TED	
0	(0)	ADDRESS	1	TEDVERS	Version number of TED
0	(0)	X'1'	0	TEDVERSN	"1,1,C'X'" Current version number
1	(1)	BITSTRING	1	TEDTRFLG	Trace facility flag byte
		1...		TEDTRACT	"B'10000000'" Event tracing activated
		.1..		TEDTRLOG	"B'01000000'" Event trace log active
2	(2)	BITSTRING	2		Reserved
4	(4)	SIGNED	4		Reserved
8	(8)	DBL WORD	8	TEDTRBTH(0)	---+ Next 2 fields stay together
8	(8)	ADDRESS	4	TEDTRTBL	| Address of current trace table
12	(C)	ADDRESS	4	TEDTRLGG	---+ Addr of table being logged
16	(10)	ADDRESS	4	TEDTRPLG	Addr of previous log table
20	(14)	SIGNED	4	TEDTRSIZ	Trace table size (in bytes)
24	(18)	DBL WORD	8	TEDTRTOT(0)	---+ Next two fields are CDS
24	(18)	SIGNED	4	TEDTRRLC	| Count of recent discards
28	(1C)	SIGNED	4	TEDTRCTL	---+ Count of total discards
32	(20)	SIGNED	4	TEDTRCUR	Count of current trace tables

Table 536. Structure TED (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
36	(24)	SIGNED	4	TEDTRNEW	Count of target trace tables
40	(28)	SIGNED	4	TEDTRFRE	Count of free trace tables
44	(2C)	ADDRESS	4	TEDDM654	Address of domid for 654 msg
48	(30)	SIGNED	4	TEDTM654	Time the 654 msg was issued
52	(34)	ADDRESS	2	TEDTRCPG	TRACEDEF PAGES= parameter
54	(36)	ADDRESS	2	TEDTRCWP	HASP050 warning percentage
56	(38)	SIGNED	4	TEDTRLGS	Trace log spin size, in lines
60	(3C)	CHARACTER	1	TEDTRCLS	Trace log sysout class
61	(3D)	ADDRESS	3		Reserved for future use
64	(40)	SIGNED	4	(0)	
64	(40)	BITSTRING	1	TEDTRIDS	Descriptors for each trace entry
64	(40)	X'58'	0	TEDTIDTB	"TEDTRIDS+TEDELEN" Trace ID=1-255. (ID=0 is used internally for discarding)
6208	(1840)	DBL WORD	8	(0)	Align on a double word
6208	(1840)	X'1840'	0	TEDLEN	"*-TED" Length of the TED

Table 537. Structure TEDE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	TEDE	, Trace descriptor entry
		The TEDTRFL1 flag serve a dual purpose. The trace id bit definitions start with bit 0 and use increasing bit numbers while the SSI function bit definitions start at bit 7 and use decreasing bit numbers. Unused bits in the middle are reserved for future use.			
0	(0)	BITSTRING	1	TEDTRFL1	TRACE/SSI flag byte
		1...		TEDTRDEF	"B'10000000'" Trace id is defined
		.1..		TEDTRDON	"B'01000000'" Trace id is being traced
		1		TEDSSION	"B'00000001'" SSI function being traced
		Filtering is done by ensuring that if any of the TEDFILTR bits are on, then the current environment must match one of the conditions specified. If filtering is active (one of the TEDFILTR bits is on), then if any of TEDLIMTR bits are on, then current environment must match all of the conditions specified (in addition to one of the condition indicated by TEDFILTR)			
1	(1)	BITSTRING	1	TEDFILTR	Filtering flag byte (OR filtering)
		1...		TEDFJOBN	"B'10000000'" Filter on job name
		.1..		TEDFJNUM	"B'01000000'" Filter on job number
		..1.		TEDFASID	"B'00100000'" Filter on ASID
2	(2)	BITSTRING	1	TEDLIMTR	Additional LIMITs (AND filtering)
		1...		TEDLTCBA	"B'10000000'" Limit to specified TCB

Table 537. Structure TEDE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
3	(3)	BITSTRING	1		Reserved
4	(4)	CHARACTER	8	TEDJOBNM	Job name to filter on
12	(C)	SIGNED	4	TEDJBNUM	Job number to filter on
16	(10)	SIGNED	4	TEDTCBA	TCB address to limit tracing
20	(14)	ADDRESS	2	TEDASID	ASID to filter on
24	(18)	SIGNED	4	(0)	Align on full word
24	(18)	X'18'	0	TEDELEN	"*-TEDE" Length of an entry

Table 538. Cross Reference for $TED

Name	Offset	Hex Tag
TED	0	
TEDASID	14	
TEDDM654	2C	
TEDE	0	
TEDELEN	18	18
TEDFASID	1	20
TEDFILTR	1	0
TEDFJNUM	1	40
TEDFJOBN	1	80
TEDJBNUM	C	
TEDJOBNM	4	
TEDLEN	1840	1840
TEDLIMTR	2	0
TEDLTCBA	2	80
TEDSSION	0	1
TEDTCBA	10	
TEDTIDTB	40	58
TEDTM654	30	
TEDTRACT	1	80
TEDTRBTH	8	
TEDTRCLS	3C	
TEDTRCPG	34	
TEDTRCTL	1C	
TEDTRCUR	20	
TEDTRCWP	36	
TEDTRDEF	0	80
TEDTRDON	0	40
TEDTRFLG	1	0
TEDTRFL1	0	0
TEDTRFRE	28	
TEDTRIDS	40	
TEDTRLGG	C	
TEDTRLGS	38	
TEDTRLOG	1	40
TEDTRNEW	24	
TEDTRPLG	10	
TEDTRRLC	18	
TEDTRSIZ	14	

Table 538. Cross Reference for $TED (continued)

Name	Offset	Hex Tag
TEDTRTBL	8	
TEDTRTOT	18	
TEDVERS	0	
TEDVERSN	0	1

Chapter 221. $TEWA Information

$TEWA Heading Information

Common Name: Timed Event Work Area
Macro ID: $TEWA
DSECT Name: TEWA
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: '$TEWA'
Offset: 0
Length: 8
Storage Attributes: Subpool: 230
Key: 1
Residency: Virtual and real storage are above 16M, in the private storage of the JES2 address space.

Size: See TEWALEN
Created by: HASPNUC
Pointed to by: - PCBTEWA in $PERFCB.
Serialization: - None
Function: The $TEWA contains storage used by the MTTR Timed Event Data processing.

$TEWA mapping

Table 539. Structure TEWA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	TEWA	
0	(0)	CHARACTER	8	TEWA_ACRO	Eye catcher $TEWA
8	(8)	BITSTRING	16	TEWA_TOKEN	Token
24	(18)	BITSTRING	216	TEWA_SAVEAREA	Savearea for IEATEDS service
240	(F0)	ADDRESS	4	TEWA_PCESAVE	Savearea for PCE address
244	(F4)	CHARACTER	8	TEWA_THREAD	Saved Thread Name
252	(FC)	CHARACTER	32	TEWA_DATA	Work area
252	(FC)	X'FC'	0	TEWA_DATA16	"TEWA_DATA,16,C'X'" Data to pass to IEATEDS
288	(120)	DBL WORD	8	(0)	Align TedWorkArea on dbl word
288	(120)	BITSTRING	1	TEWA_WORKAREA	
		MACDATE -09/02/10-<0>			
0	(0)	X'920'	0	M00M1392	"TEWAPLD" ++ IEATEDS NAME
2336	(920)	DBL WORD	8	TEWAPLD(0)	++ IEATEDS PARM LIST
2336	(920)	BITSTRING	1	TEWAPLD_XVERSION	++ INPUT XVERSION
2337	(921)	BITSTRING	1	TEWAPLD_XREQUEST	++ XREQUEST
2337	(921)	X'0'	0	TEWAPLD_XREQUEST_RECORD	"0" ++ XREQUEST.RECORD KEYWORD
2337	(921)	X'1'	0	TEWAPLD_XREQUEST_REGISTER	"1" ++ XREQUEST.REGISTER KEYWORD
2338	(922)	BITSTRING	1	TEWAPLD_XEVENTTYPE	++ XEVENTTYPE
2338	(922)	X'0'	0	TEWAPLD_XEVENTTYPE_START	"0" ++ XEVENTTYPE.START KEYWORD
2338	(922)	X'1'	0	TEWAPLD_XEVENTTYPE_MID	"1" ++ XEVENTTYPE.MID KEYWORD
2338	(922)	X'2'	0	TEWAPLD_XEVENTTYPE_END	"2" ++ XEVENTTYPE.END KEYWORD
2339	(923)	CHARACTER	1	TEWAPLD_XRSV0002	++ RESERVED

Table 539. Structure TEWA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2340	(924)	CHARACTER	32	TEWAPLD_XCOMPNAME	++
2372	(944)	CHARACTER	8	TEWAPLD_XMODNAME	++
2380	(94C)	CHARACTER	8	TEWAPLD_XMODLEVEL	++
2388	(954)	SIGNED	4	TEWAPLD_XMODOFFSET	++ FIELD_LABEL
2392	(958)	CHARACTER	8	TEWAPLD_XEVENTTHREAD	++
2400	(960)	CHARACTER	16	TEWAPLD_XTEDTOKEN	++
2416	(970)	CHARACTER	32	TEWAPLD_XEVENTDESC	++
2448	(990)	CHARACTER	16	TEWAPLD_XUSERDATACOMBI	++ FIELD_LABEL
2464	(9A0)	SIGNED	4	TEWAPLD_XMAXEVENTS	++
2468	(9A4)	ADDRESS	4	TEWAPLD_XWORKAREA_ADDR	++ ADDR
2472	(9A8)	CHARACTER	24	TEWAPLD_XRSV0004	++ RESERVED
2472	(9A8)	X'A0'	0	TEWAPLDL IEATEDS-0	"*-TEWAPLD" ++ LENGTH OF PLIST
0	(0)	X'9C0'	0	TEWALEN	"*-TEWA" Length of entire TEWA

Table 540. Cross Reference for $TEWA

Name	Offset	Hex Tag
M00M1392	0	920
TEWA	0	
TEWA_ACRO	0	
TEWA_DATA	FC	
TEWA_DATA16	FC	FC
TEWA_PCESAVE	F0	
TEWA_SAVEAREA	18	
TEWA_THREAD	F4	
TEWA_TOKEN	8	
TEWA_WORKAREA	120	
TEWALEN	0	9C0
TEWAPLD	920	
TEWAPLD_XCOMPNAME	924	
TEWAPLD_XEVENTDESC	970	
TEWAPLD_XEVENTTHREAD	958	
TEWAPLD_XEVENTTYPE	922	
TEWAPLD_XEVENTTYPE_END	922	2
TEWAPLD_XEVENTTYPE_MID	922	1
TEWAPLD_XEVENTTYPE_START	922	0
TEWAPLD_XMAXEVENTS	9A0	
TEWAPLD_XMODLEVEL	94C	
TEWAPLD_XMODNAME	944	
TEWAPLD_XMODOFFSET	954	
TEWAPLD_XREQUEST	921	
TEWAPLD_XREQUEST_RECORD	921	0
TEWAPLD_XREQUEST_REGISTER	921	1
TEWAPLD_XRSV0002	923	
TEWAPLD_XRSV0004	9A8	
TEWAPLD_XTEDTOKEN	960	
TEWAPLD_XUSERDATACOMBI	990	
TEWAPLD_XVERSION	920	

Table 540. Cross Reference for $TEWA (continued)

Name	Offset	Hex Tag
TEWAPLD_XWORKAREA_ADDR	9A4	
TEWAPLDL	9A8	A0

Chapter 222. $TEXWORK Information

$TEXWORK Heading Information

Common Name:	JES2 Time Excession Monitor PCE Work Area
Macro ID:	$TEXWORK
DSECT Name:	PCE ($TEXWORK is part of the PCE DSECT)
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4
Storage Attributes:	Subpool: See $PCE Key: See $PCE Residency: See $PCE
Size:	See symbol TEXPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by:	See $PCE
Pointed to by:	The $TXIMPCE field of the $HCT data area See $PCE for other pointer fields that apply to all PCE types.
Serialization:	Normal PCE dispatch serialization
Function:	The fields in this area are used by a JES2 Time Excession Monitor Processor and by its support routines and exits. $TEXWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $TEXWORK are actually part of the PCE DSECT, but only map PCEs with the value PCETEXID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

$TEXWORK mapping

Table 541. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
320	(140)	BITSTRING	64	TEXWORK	Work area
384	(180)	DBL WORD	8	(0)	Force double-word alignment
384	(180)	X'40'	0	TEXPCEWS	"*-PCEWORK" Length of work area

Chapter 223. $TGB Information

$TGB Heading Information

Common Name:	Track Group Block
Macro ID:	$TGB
DSECT Name:	TGB
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	None if BLOB TGBS $BTE IF BADTRACK BTE
Storage Attributes:	Subpool: 241 Key: 1 Residency: Virtual and real storage are anywhere (above or below 16M) in common storage (CSA).
Size:	See BTESIZE for BADTRACK BTEs. See TGBBSIZE for BLOB TGBs.
Created by:	TQUEBTG in the event of a SPOOL I/O error in the user's address space or in an FSS address space or in a JES2 subtask. $IOERRTN in the event of a SPOOL I/O error in the JES2 main task. JES2 initialization for BADTRACK initialization statement processing.
Pointed to by:	CCTIOERR field of the $HCCT data area BTENEXT field of the $BTE data area if on the CCTIOERR queue CCTTGBF field of the $HCCT data area for TGBs in the BLOB CCTTGBL field of the $HCCT data area for TGBs in the BLOB TGBs in the BLOB are contiguous.
Serialization:	Compare and swap is used to queue the BTEs on the CCTIOERR chain. Compare double and swap is used to change the contents of a TGB in the BLOB.
Function:	There is a pool of track group blocks (TGBs) of available space called a BLOB. A track group block represents one track group. The number of TGBs in the BLOB is set and maintained by JES2 (field CKPTGESZ in the checkpoint PCE work area). A TGB may be allocated for a job by selecting a TGB from the BLOB using CDS logic in $TRACK and $STRAK. The BLOB is replenished during the checkpoint cycle. BTEs are used for bad track group (BADTRACK) processing. BTENEXT is used to chain the BTEs from $SPOOLQ for HASPSPOL. BTEs are also used whenever IOS has determined that a volume had an I/O error as a result of losing all paths to the device. The BTE is queued on the $SPOOLQ just as for bad track group processing, but when it is discovered that the I/O error was the result of an entire volume being inaccessible, the volume will be halted as opposed to just the track group being marked bad.

$TGB mapping

Table 542. Structure TGB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	TGB	ALLOCATION TRACK GROUP BLK
0	(0)	DBL WORD	8	TGBENTRY(0)	Used to compare and swap next two words
0	(0)	BITSTRING	5	TGBMQT	Allocated MQT
5	(5)	BITSTRING	3	TGBJQEI	Index to JQE for JQESUMSK
5	(5)	X'0'	0	TGBAVAIL	"0" TGB available
5	(5)	X'FFFFFF'	0	TGBASYS	"-1" TGB allocated
5	(5)	X'FFFFFE'	0	TGBBKUP	"-2" TGB allocated state not yet recorded on CKPT
5	(5)	X'FFFFFD'	0	TGBASIG	"-3" TGB allocated state not yet recorded on SPOOL
8	(8)	DBL WORD	8	TGBENTYB(0)	Used to ref next 2 words
8	(8)	BITSTRING	5	TGBMQTB	Backup of Allocated MQT
13	(D)	BITSTRING	3	TGBJQEIB	Backup of Offset to JQE
16	(10)	BITSTRING	16	TGBTTOKN	TCB Token of task in signature record process
16	(10)	X'10'	0	TGBASTKN	"TGBTTOKN,8" Address space token of AS in signature rcd process
32	(20)	DBL WORD	8	(0)	Ensure alignment
32	(20)	X'20'	0	TGBBSIZE	"*-TGB" TGB DSECT LGTH FOR BLOB ENTRIES

Table 543. Structure BTE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	BTE	Bad track element
0	(0)	CHARACTER	4	BTEID	Eye catcher
4	(4)	ADDRESS	4	BTENEXT	Address of next BTE on the Bad Track queue
8	(8)	BITSTRING	6	BTEMQTR	MQTR of block in error
14	(E)	BITSTRING	1	BTEFLAG1	Flags
		1...		BTE1CC3	"B'10000000'" IOS has discovered that the extent has no paths
		.1..		BTE1MQER	"B'01000000'" JES2 main task queued this BTE
		..1.		BTE1UQER	"B'00100000'" User environment task queued this BTE
15	(F)	BITSTRING	1		Reserved for future use
16	(10)	SIGNED	2	BTEASID	ASID of failing task
18	(12)	BITSTRING	6		Reserved for future use
24	(18)	DBL WORD	8	(0)	Ensure alignment
24	(18)	X'18'	0	BTESIZE	"*-BTE" BTE length for bad track

Table 544. Structure TGR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	TGR	, Track Group record entry
0	(0)	X'2'	0	TGRVERS	"TGRVZ22" Current TGR version number

Table 544. Structure TGR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'2'	0	TGRVZ22	"2" z22 mode version number
0	(0)	BITSTRING	5	TGRMQTR	First MQTR in entry

Table 545. Cross Reference for $TGB

Name	Offset	Hex Tag
BTE	0	
BTEASID	10	
BTEFLAG1	E	
BTEID	0	5BC2E3C5
BTEMQTR	8	
BTENEXT	4	
BTESIZE	18	18
BTE1CC3	E	80
BTE1MQER	E	40
BTE1UQER	E	20
TGB	0	
TGBASIG	5	FFFFFD
TGBASTKN	10	10
TGBASYS	5	FFFFFF
TGBAVAIL	5	0
TGBBKUP	5	FFFFFE
TGBBSIZE	20	20
TGBENTRY	0	
TGBENTYB	8	
TGBJQEI	5	
TGBJQEIB	D	
TGBMQT	0	
TGBMQTB	8	
TGBTTOKN	10	
TGR	0	
TGRMQTR	0	
TGRVERS	0	2
TGRVZ22	0	2

Chapter 224. $TIMWORK Information

$TIMWORK Heading Information

Common Name:	JES2 STIMER/TTIMER PCE Work Area
Macro ID:	$TIMWORK
DSECT Name:	PCE ($TIMWORK is part of the PCE DSECT)
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4
Storage Attributes:	Subpool: See $PCE Key: See $PCE Residency: See $PCE
Size:	See symbol TIMPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by:	See $PCE
Pointed to by:	The $TIMEPCE field of the $HCT data area See $PCE for other pointer fields that apply to all PCE types.
Serialization:	Normal PCE dispatch serialization
Function:	The fields in this area are used by a JES2 STIMER/TTIMER Processor and by its support routines and exits. $TIMWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $TIMWORK are actually part of the PCE DSECT, but only map PCEs with the value PCETIMID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

$TIMWORK mapping

Table 546. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
320	(140)	BITSTRING	24	TIMXECB	Timer XECB
344	(158)	DBL WORD	8	(0)	Force double-word alignment
344	(158)	X'18'	0	TIMPCEWS	"*-PCEWORK" Length of work area

Chapter 225. $TLGWORK Information

$TLGWORK Heading Information

Common Name:	JES2 Event Trace Log PCE Work Area
Macro ID:	$TLGWORK
DSECT Name:	PCE ($TLGWORK is part of the PCE DSECT)
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4
Storage Attributes:	Subpool: See $PCE Key: See $PCE Residency: See $PCE
Size:	See symbol TLGPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by:	See $PCE
Pointed to by:	$TRCPCE field of the $HCT data area See $PCE for other pointer fields that apply to all PCE types.
Serialization:	Normal PCE dispatch serialization
Function:	The fields in this work area are used by a JES2 Event Trace Log Processor and by its support routines and exits. $TLGWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $TLGWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEVTLID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

$TLGWORK mapping

Table 547. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
320	(140)	BITSTRING	16	TLGMAP	Work area for TRACE ID 20
336	(150)	ADDRESS	4	TLGJCT	ADDRESS OF JCT FOR $TRCLOG
340	(154)	ADDRESS	4	TLGIOT	Address of current IOT
344	(158)	ADDRESS	4	TLGBSAVE	ADDRESS OF CURRENT RCB
348	(15C)	ADDRESS	4	TLGBUFAD	ADDRESS OF CURRENT OUTPUT BUFFER
352	(160)	ADDRESS	4	TLGIOTAD	ADDRESS OF CURRENT SPIN IOT
356	(164)	BITSTRING	6	TLGIOTMQ	MQTR of current SPIN IOT
362	(16A)	BITSTRING	2		Reserved
364	(16C)	SIGNED	4	TLGWORK1	WORK AREA
368	(170)	SIGNED	4	TLGWORK2	WORK AREA
376	(178)	DBL WORD	8	TLGWORK3	WORK AREA
388	(184)	ADDRESS	4	TLGTTP	ADDRESS OF CURRENT TRACE TABLE
392	(188)	ADDRESS	4	TLGTTESV	ADDRESS OF CURRENT TTE ENTRY

Table 547. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
396	(18C)	ADDRESS	4	TLGVFPFX	ADDRESS OF PREFIX OF CURRENT VARIABLE FORMAT FIELD
400	(190)	SIGNED	4	(0)	FULLWORD ALIGN NEXT FIELD
400	(190)	SIGNED	8	TLGMINOR(0)	RNAME--FULLWORD ALIGN, LENTH 8
400	(190)	CHARACTER	4	TLGREYE	EYECATCHER IN RNAME
404	(194)	ADDRESS	4	TLGRNAME	TABLE ADDRESS IN RNAME
RESERVE ENOUGH ROOM FOR THE ENQ AND DEQ PARAMETER LISTS TO COVER ALL OPTIONS.					
408	(198)	SIGNED	4	TLGENQST(0)	TRUE START OF ENQ LIST
MACRO-DATE = 03/16/15					
408	(198)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
408	(198)	ADDRESS	4		PREFIX - TCB ADDRESS X02113
412	(19C)	ADDRESS	4		PREFIX - ECB ADDRESS
412	(19C)	X'1A0'	0	TLGENQPL	"*" X02113
416	(1A0)	ADDRESS	1		PELLAST flag byte. X02113
417	(1A1)	ADDRESS	1		PELMILEN - RNAME length.
418	(1A2)	BITSTRING	1		
				PELFLAG - flag byte 2.	
419	(1A3)	ADDRESS	1		PELRET - return code byte.
420	(1A4)	ADDRESS	4		QNAME ADDRESS
424	(1A8)	ADDRESS	4		RNAME ADDRESS
424	(1A8)	X'198'	0	TLGENQUE	"TLGENQST,*-TLGENQST" Used only in IPCS
428	(1AC)	SIGNED	4	TLGDEQST(0)	TRUE START OF DEQ LIST
MACRO-DATE = 03/16/2015					
428	(1AC)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
428	(1AC)	ADDRESS	4		PREFIX - TCB ADDRESS X02113
428	(1AC)	X'1B0'	0	TLGDEQPL	"*" X02113
432	(1B0)	ADDRESS	1		PELLAST flag byte. X02113
433	(1B1)	ADDRESS	1		PELMILEN - RNAME length.
434	(1B2)	BITSTRING	1		
				PELFLAG - flag byte 2.	
435	(1B3)	ADDRESS	1		PELRET - return code byte.
436	(1B4)	ADDRESS	4		QNAME ADDRESS
440	(1B8)	ADDRESS	4		RNAME ADDRESS
440	(1B8)	X'1AC'	0	TLGDEQUE	"TLGDEQST,*-TLGDEQST" Used only in IPCS
444	(1BC)	SIGNED	4	TLGRECCT	TRACE LOG DATA SET RECORD COUNT
448	(1C0)	BITSTRING	12	TLGTQE	TQE FOR TRACE TABLE TRUNCATION
460	(1CC)	SIGNED	2	TLGVFCNT	NUMBER OF VARIABLE FIELDS LEFT
462	(1CE)	BITSTRING	1	TLGSAVID	FOR SAVING RECORD TYPE ID
463	(1CF)	BITSTRING	1	TLGFLAG1	FLAGS
464	(1D0)	SIGNED	4	(0)	FULLWORK ALIGN XECB
464	(1D0)	BITSTRING	1	TLGXECB	XECB FOR EXCLUSIVE ENQ ECB
464	(1D0)	X'A8'	0	TLGPCEWS	"*-PCEWORK" LENGTH OF PCE WORK AREA
TLGFLAG1					
1...				TLG1OPEN	"B'10000000'" TRACE LOG IS OPEN

Table 547. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		TLG1ERR	"B'01000000'" ERROR PRODUCING TRACE LOG
		..1.		TLG1TRUN	"B'00100000'" ID=20 TRUNCATE CURRENT LINE
		...1		TLG1HEAD	"B'00010000'" Currently producing header

Table 548. Cross Reference for $TLGWORK

Name	Offset	Hex Tag
PCE	0	
TLGBSAVE	158	
TLGBUFAD	15C	
TLGDEQPL	1AC	1B0
TLGDEQST	1AC	
TLGDEQUE	1B8	1AC
TLGENQPL	19C	1A0
TLGENQST	198	
TLGENQUE	1A8	198
TLGFLAG1	1CF	
TLGIOT	154	
TLGIOTAD	160	
TLGIOTMQ	164	
TLGJCT	150	
TLGMAP	140	
TLGMINOR	190	
TLGPCEWS	1D0	A8
TLGRECCT	1BC	
TLGREYE	190	
TLGRNAME	194	
TLGSAVID	1CE	
TLGTQE	1C0	
TLGTTESV	188	
TLGTTP	184	
TLGVFCNT	1CC	
TLGVFPFX	18C	
TLGWORK1	16C	
TLGWORK2	170	
TLGWORK3	178	
TLGXECB	1D0	
TLG1ERR	1D0	40
TLG1HEAD	1D0	10
TLG1OPEN	1D0	80
TLG1TRUN	1D0	20

Chapter 226. $TQE Information

$TQE Programming Interface Information

$TQE is a programming interface.

$TQE Heading Information

Common Name: TQE - HASP TIMER QUEUE ELEMENT
Macro ID: $TQE
DSECT Name: NONE
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: None
Storage Attributes:
```
Subpool:   0, 1, 25, or 241
Key:       1
Residency: Anywhere.  Depending on the control block the $TQE
is imbedded in, it may or may not be within the
JES2 address space.
```

Size: See TQELENG
Created by: $PCEDYN services or HASPIRMA, depending on which control block the $TQE is imbedded in.
Pointed to by:
```
$TQEQUE  field of the $HCT     data area
TQETQE   field of the $TQE     data area
```
Serialization: Various serialization methods are used depending on the control block the $TQE is imbeded in.
Function: $TQE maps the HASP Timer Queue Element displacements imbedded in various JES2 data areas as follows:

Field	Data area
ACTTQE	$ACT
CKPSTQE	$CKPWORK
CKPMITQE	$CKPWORK
CKPCFTQE	$CKPWORK
JPCETQE	$CNVWORK
FSWTQE	$FSSWORK
RESTQE	$RESWORK
MLMTQE	$MLMWORK
NRMTQE	$NRMWORK
SJBSTQE	$SJB
TLGTQE	$TLGWORK
WRMTQE	$WARNWRK
XFMSCTQE	$XFMWORK
SRWTQE	$SFRWORK
SNWTQE	$SNFWORK

The third field mapped out by the TQE is the PCE address for $POST. The high order bit is used as a flag bit to indicate if the timer has popped or not.

$TQE mapping

Table 549. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		

```
,$MODULE - $CADDR WILL BE GENERATED, IT IS REQUIRED BY
,$MODULE - $HASPEQU WILL BE GENERATED, IT IS REQUIRED BY
,$MODULE - $MIT WILL BE GENERATED, IT IS REQUIRED BY
,$MODULE - $MITETBL WILL BE GENERATED, IT IS REQUIRED BY
,$MODULE - $PADDR WILL BE GENERATED, IT IS REQUIRED BY
,$MODULE - $PARMLST WILL BE GENERATED, IT IS REQUIRED BY
,$MODULE - $PSV WILL BE GENERATED, IT IS REQUIRED BY
,$MODULE - $USERCBS WILL BE GENERATED, IT IS REQUIRED BY
```

Table 549. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description

```
      START OF SPECIFICATIONS
01 DESCRIPTIVE NAME: TQE - HASP TIMER QUEUE ELEMENT
02 ACRONYM: $TQE
01 MACRO NAME: $TQE
01 DSECT NAME: NONE
01 LABEL PREFIX: TQE
01 COMPONENT ID: JES2 (SC1BH)
01 EXTERNAL CLASSIFICATION: PSPI
01 END OF EXTERNAL CLASSIFICATION:
01 EYE-CATCHER: None
02 OFFSET: N/A
02 LENGTH: N/A
01 STORAGE ATTRIBUTES:
02 SUBPOOL: 0, 1, 25, or 241
02 KEY: 1
02 RESIDENCY:
      Anywhere. Depending on the control block the $TQE
      is imbedded in, it may or may not be within the
      JES2 address space.
01 SIZE:
     See TQELENG
01 CREATED BY:
     $PCEDYN services or HASPIRMA, depending on which
     control block the $TQE is imbedded in.
01 POINTED TO BY:
     $TQEQUE field of the $HCT data area
     TQETQE field of the $TQE data area
01 SERIALIZATION:
     Various serialization methods are used depending on
     the control block the $TQE is imbeded in.
01 FUNCTION:
     $TQE maps the HASP Timer Queue Element displacements
     imbedded in various JES2 data areas as follows:
:xmp.
      Field Data area
     ACTTQE $ACT
     CKPSTQE $CKPWORK
     CKPMITQE $CKPWORK
     CKPCFTQE $CKPWORK
     JPCETQE $CNVWORK
     FSWTQE $FSSWORK
     RESTQE $RESWORK
     MLMTQE $MLMWORK
     NRMTQE $NRMWORK
     SJBSTQE $SJB
     TLGTQE $TLGWORK
     WRMTQE $WARNWRK
     XFMSCTQE $XFMWORK
     SRWTQE $SFRWORK
     SNWTQE $SNFWORK
:exmp.
02 The third field mapped out by the TQE is the PCE
     address for $POST. The high order bit is used as a
     flag bit to indicate if the timer has popped or not.
01 METHOD OF ACCESS:
02 ASM:
      See the individual control blocks that the $TQE can
      be imbedded in for this information.
02 PL/X:
      This mapping is not available for compilations.
01 USED BY:
      See the individual control blocks that the $TQE can
```

Table 549. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		be imbedded in for this information. 01 DELETED BY: Depending on the control block the $TQE is imbedded in, the $TQE may be deleted by one of the following means: JES2 task termination, MEMTERM, $SJBFREE service, $PCEDYN. 01 FREQUENCY: See the individual control blocks that the $TQE can be imbedded in for this information. 01 RESTRICTIONS: See the individual control blocks that the $TQE can be imbedded in for this information. END OF SPECIFICATIONS 01 CHANGE ACTIVITY: $420P105=SWBMOD HJE4420 900904 RPG: PTM 105 PCE Misc Wakeup $520LSNF=SNIFFER HJE5520 940210 J_K2: SPOOL Management $R03P033=PTMS HJE6603 960627 K_W: PTM PSL0033 $Z22LACT=CKPTUNE HJE77A0 140120 ALP: Ckpt tuning stage 2 A000000-999999 CREATED FOR JES2 PRE SP TQETQE ADDRESS OF NEXT HASP TIMER QUEUE ELEMENT TQETIME SPECIFIED INTERVAL (IN TIMER UNITS) TQEPCE PCE ADDRESS FOR $POST (HIGH ORDER BIT IS A FLAG) HASP TIMER QUEUE ELEMENT DISPLACEMENTS			
0	(0) X'0'	0	TQETQE	"0,4" ADDR OF NEXT TIMER QUEUE ELMT
0	(0) X'4'	0	TQETIME	"4,4" SPECIFIED INTERVAL(TIMER UNITS) NOTE THAT THIS SHOULD BE RESET BEFORE EACH CALL TO $STIMER
0	(0) X'8'	0	TQEPCE	"8,4" FLAG BYTE AND PCE ADDR TO $POST
0	(0) X'8'	0	TQEFLAG1	"TQEPCE,1" OFFSET TO FLAG BIT IN TQEPCE
0	(0) X'C'	0	TQELENG	"L'TQETQE+L'TQETIME+L'TQEPCE" LENGTH OF THE TQE
	Special form of TQE uses two additional fields. This form of TQE should be double-word aligned.			
0	(0) X'C'	0	TQEINTL	"12,4" Original length of interval
0	(0) X'10'	0	TQESTRT	"16,8" Timestamp of interval start
0	(0) X'18'	0	TQELENG2	"TQELENG+L'TQEINTL+L'TQESTRT" Length of special TQE
	TQEFLAG1 BIT DEFINITIONS			
	1...		TQE1TPOP	"B'10000000'" TIMER POP
	EQU B'01111111' Cannot be used			

Table 550. Cross Reference for $TQE

Name	Offset	Hex Tag
TQEFLAG1	0	8
TQEINTL	0	C
TQELENG	0	C
TQELENG2	0	18
TQEPCE	0	8
TQESTRT	0	10
TQETIME	0	4
TQETQE	0	0
TQE1TPOP	0	80

Chapter 227. $TRCA Information

$TRCA Programming Interface Information

$TRCA is a programming interface.

$TRCA Heading Information

Common Name:	Termination recovery control area
Macro ID:	$TRCA
DSECT Name:	TRCA
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'$$$$TRCA' or 'TEMPTRCA' or '$SUBTRCA' Offset: 0 Length: 8
Storage Attributes:	Subpool: any Key: 1 Residency: anywhere
Size:	See TRCALENG for the length of the TRCA used by the JES2 main task. See TRCADTEL for the length of the TRCA used by JES2 subtasks.
Created by:	The TRCA for a main task abend (except one in a PC routine) is within CSECT HASPTERM. This TRCA has the eyecatcher '$$$$TRCA.' The TRCA for an abend within a main task PC routine is obtained by routine $PCABEND. This TRCA has the eyecatcher 'TEMPTRCA.' The TRCA for a subtask abend is assembled within the $DTE macro. This TRCA has the eyecatcher '$SUBTRCA.'
Pointed to by:	The $ERRTRCA field of the $HCT data area points to the TRCA assembled within HASPTERM.
Serialization:	None.
Function:	Provides work areas and communication fields required by $ABEND, $PCABEND, $STABEND and the various recovery analysis routines.

$TRCA mapping

Table 551. Structure TRCA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	TRCA	
0	(0)	CHARACTER	8		TRCA identifier
8	(8)	BITSTRING	1	TRCAFLAG	
		1...		TRCANOPC	"X'80'" $CURPCE = 0 OR PROCESSOR NOT ACTUALLY IN CONTROL --- (SEE CODE AND ESPECIALLY THE NOTE IN ABNDCKRP REGARDING THE VALIDITY OF THIS BIT WHEN NO SDWA)
		.1..		TRCAOREC	"X'40'" OPR AUTHORIZED RECOVERY

Table 551. Structure TRCA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		TRCAODMP	"X'20'" OPR AUTHORIZED (DID NOT SUPPRESS) DUMP (HASP070)
		...1		TRCATERM	"X'10'" RECOVERY NOT POSSIBLE
		.... 1...		TRCAABND	"X'08'" $ABEND IN CONTROL
		.... .1..		TRCARTRY	"X'04'" $RETRY IN CONTROL
		.... ..1.		TRCAEEIU	"X'02'" EMERGENCY ERA IN USE
		1		TRCASUBT	"X'01'" SUBTASK ($STABEND) TRCA
9	(9)	BITSTRING	1	TRCAFLG2	HEXIT FLAG BYTE
		1...		TRCAPJS2	"B'10000000'" $PJES2
		.1..		TRCAINIT	"B'01000000'" EXIT FROM INITIALIZATION
		..1.		TRCAEXIT	"B'00100000'" OPR REPLIED 'EXIT' TO HASP098
		...1		TRCAINTA	"B'00010000'" ABEND UNDER INIT PCE
		.... 1...		TRCA26EX	"B'00001000'" EXIT 26 ROUTINE INVOKED
		.... .1..		TRCA26AB	"B'00000100'" EXIT 26 ROUTINE ABENDED
		.... ..1.		TRCA2ARR	"B'00000010'" Processing in an ARR
		1		TRCA2PRC	"B'00000001'" JES2 percolated
10	(A)	BITSTRING	1	TRCAFLG3	Third flag byte
		1...		TRCA3CFT	"B'10000000'" Cleaning up checkpoint
		.1..		TRCA3RMT	"B'01000000'" REMOTE ind. for SDUMP
		..1.		TRCA3AUT	"B'00100000'" Auto reply to $HASP098
		...1		TRCA3STR	"B'00010000'" STRLIST exists
11	(B)	BITSTRING	1	TRCASNPF	FLAG BYTE USED BY ABNDSNAP
		1...		TRCAHCPY	"B'10000000'" INDICATES WTOS TO HARDCOPY LOG
12	(C)	ADDRESS	4	TRCAERA	ADDRESS OF ERA
16	(10)	DBL WORD	8	TRCAWORK(2)	16 BYTE WORK AREA
32	(20)	ADDRESS	4	TRCAREMO	Address of remote table
36	(24)	ADDRESS	4	TRCAJOBL	Address of joblist table
40	(28)	CHARACTER	144	TRCASTRL	Area for STRLIST on SDUMPX
184	(B8)	SIGNED	4	TRCACNCT	CONNECT ID FOR MLWTO
188	(BC)	SIGNED	4	TRCAMSGW	
188	(BC)	SIGNED	4	(0)	
188	(BC)	ADDRESS	2		TEXT LENGTH
190	(BE)	BITSTRING	2		MCSFLAGS
192	(C0)	CHARACTER	53		
263	(107)	BITSTRING	2		DESCRIPTOR CODES
265	(109)	BITSTRING	2		ROUTING CODES
267	(10B)	BITSTRING	2		LINE TYPE
269	(10D)	BITSTRING	1		AREA ID
270	(10E)	ADDRESS	1		TOTAL NUMBER OF LINES X02007
188	(BC)	BITSTRING	1		Space for dump title length
189	(BD)	CHARACTER	100		and title text
336	(150)	SIGNED	4	TRCAMODW(0)	MODMAP-STYLE ENTRY FOR ERMODULE

Table 551. Structure TRCA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
352	(160)	SIGNED	4	TRCARIPL	COUNT OF OUTSTANDING ERRORS REQUIRING RE-IPL- INCREMENTED IN $ABEND, DECREMENTED IN $RETRY WHEN RECOVERY HAS BEEN SUCCESSFUL. ANY TERMINATION WHILE NON-ZERO CAUSES SETTING OF CCTSTRPL IN CCTSTUS IN HCCT
356	(164)	SIGNED	4	TRCAREGS(6)	REGS R13-R2 ON ENTRY TO $ABEND
356	(164)	X'168'	0	TRCAREGE	"TRCAREGS+4,4" REG 14 SLOT IN TRCAREGS
356	(164)	X'170'	0	TRCAREG0	"TRCAREGS+12,4" REG 0 SLOT IN TRCAREGS
356	(164)	X'174'	0	TRCAREG1	"TRCAREGS+16,4" REG 1 SLOT IN TRCAREGS
356	(164)	X'178'	0	TRCAREG2	"TRCAREGS+20,4" REG 2 SLOT IN TRCAREGS
380	(17C)	SIGNED	4		Reserved
384	(180)	ADDRESS	4	TRCALDAD	Address of LISTD storage
388	(184)	ADDRESS	4	TRCAARMT	Address of REMOTE storage
392	(188)	SIGNED	4	TRCASDMP(0)	SDUMP PARAMETER LIST
392	(188)	ADDRESS	1		FLAG BYTE
393	(189)	ADDRESS	1		FLAG BYTE
394	(18A)	ADDRESS	1		FLAG BYTE
395	(18B)	ADDRESS	1		FLAG BYTE
396	(18C)	ADDRESS	4		ADDRESS OF DCB
400	(190)	ADDRESS	4		ADDRESS OF STORAGE LIST
404	(194)	ADDRESS	4		ADDRESS OF USER DATA
408	(198)	ADDRESS	4		ADDRESS OF ECB/SRB
412	(19C)	ADDRESS	2		CURRENT ASID
414	(19E)	ADDRESS	2		OTHER ASID
416	(1A0)	ADDRESS	4		ADDRESS OF ASID LIST
420	(1A4)	ADDRESS	4		ADDRESS OF SUMLIST/SUMLSTA LIST
424	(1A8)	ADDRESS	4		RESERVED
428	(1AC)	ADDRESS	4		RESERVED
432	(1B0)	ADDRESS	1		FLAG BYTE
433	(1B1)	ADDRESS	1		CONTROL FLAG BYTE
434	(1B2)	ADDRESS	1		TYPE FLAG BYTE
435	(1B3)	ADDRESS	1		VERSION
436	(1B4)	ADDRESS	1		EXIT FLAG BYTE
437	(1B5)	ADDRESS	1		EXIT FLAG BYTE
438	(1B6)	ADDRESS	1		SDATA OPTIONS
439	(1B7)	ADDRESS	1		RESERVED SDATA OPTIONS
440	(1B8)	ADDRESS	4		ADDRESS OF SUBPLST
444	(1BC)	ADDRESS	4		ADDRESS OF KEYLIST
448	(1C0)	ADDRESS	4		RESERVED
452	(1C4)	ADDRESS	4		ALET OF DCB PARAMETER
456	(1C8)	ADDRESS	4		ALET OF STORAGE PARAM
460	(1CC)	ADDRESS	4		ALET OF HDR PARAMETER
464	(1D0)	ADDRESS	4		ALET OF ASIDLST PARAM
468	(1D4)	ADDRESS	4		ALET OF SUMLIST PARAM
472	(1D8)	ADDRESS	4		ALET OF SUBPLST PARAM
476	(1DC)	ADDRESS	4		ALET OF KEYLIST PARAM
480	(1E0)	ADDRESS	4		ADDRESS OF LISTD

Table 551. Structure TRCA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
484	(1E4)	ADDRESS	4		No ALET for LISTD/LIST64
488	(1E8)	ADDRESS	4		No SUMLSTL or SUMLIST64
492	(1EC)	ADDRESS	4		ALET SUMLSTL or SUMLIST64
496	(1F0)	ADDRESS	4		No address for PSWREGS
500	(1F4)	ADDRESS	4		No Alet for PSWREGS
504	(1F8)	ADDRESS	4		ADDRESS OF SYMREC
508	(1FC)	ADDRESS	4		ALET OF SYMREC
512	(200)	ADDRESS	4		ADDRESS OF ID
516	(204)	ADDRESS	4		ALET OF ID
520	(208)	ADDRESS	4		ADDRESS FOR STRLIST
524	(20C)	ADDRESS	4		ALET OF STRLIST PARAM
528	(210)	ADDRESS	4		ADDRESS FOR INTOKEN
532	(214)	ADDRESS	4		ALET OF INTOKEN PARAM
536	(218)	ADDRESS	4		ADDRESS FOR REMOTE
540	(21C)	ADDRESS	4		ALET OF REMOTE PARAM
544	(220)	ADDRESS	4		ADDRESS FOR PROBDESC
548	(224)	ADDRESS	4		ALET OF PROBDESC PARAM
552	(228)	ADDRESS	4		ADDRESS FOR JOBLIST
556	(22C)	ADDRESS	4		ALET OF JOBLIST PARAM
560	(230)	ADDRESS	4		ADDRESS FOR DSPLIST
564	(234)	ADDRESS	4		ALET OF DSPLIST PARAM
568	(238)	ADDRESS	1		SDUMP Control Flag values
569	(239)	BITSTRING	3		RESERVED
572	(23C)	ADDRESS	4		ADDRESS FOR UTOKEN
572	(23C)	X'B8'	0	TRCASDML	"*-TRCASDMP" Length of SDUMPX MF=L
576	(240)	DBL WORD	8	(0)	
576	(240)	X'240'	0	TRCADTEL	"*-TRCA" Length of DTE TRCAs
All fields in the TRCA used by the ABNDSNAP service and services called by ABNDSNAP must be defined before the TRCADTEL equate. Fields used only in TRCAs in the NETSRV address space					
576	(240)	ADDRESS	4	TRCANSST	NSST address
580	(244)	ADDRESS	4	TRCANSCT	NSCT address
584	(248)	ADDRESS	4	TRCANSWE	NSWE address
588	(24C)	ADDRESS	4	TRCAFINS	Failing instruction addr
592	(250)	ADDRESS	4	TRCARGRB	RB containing regs
600	(258)	DBL WORD	8	(0)	
600	(258)	X'258'	0	TRCANSVL	"*-TRCA"
Fields used only in TRCAs in the JES2 main task					
576	(240)	ADDRESS	4	TRCA72ID	072 DOM ID
580	(244)	ADDRESS	4	TRCATOKN	TOKEN FOR EXIT 26 ESTAE
584	(248)	SIGNED	4	TRCAECB	ECB FOR WTORS, SDUMPS, ETC
588	(24C)	BITSTRING	320	TRCAPSV	PCE STYLE SAVE AREA
908	(38C)	ADDRESS	4	TRCADTE	CURRENT DTE ADDRESS
912	(390)	DBL WORD	8	TRCA26WK	WORK AREA FOR EXIT26
920	(398)	DBL WORD	8	TRCASIDS(0)	ASID LIST FOR $SDUMP
920	(398)	X'6'	0	TRCASDNO	"(*-TRCASIDS)/2" Number of ASIDs allowed
932	(3A4)	CHARACTER	4	TRCAOPT	TERMINATION OPTION AND SDUMP

Table 551. Structure TRCA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
932	(3A4)	X'3A8'	0	TRCADMPT	"TRCAOPT+L'TRCAOPT,101,C'C'" TITLE, KEEP TOGETHER
1040	(410)	SIGNED	4	TRCARRGS(16)	RESUMPTION REGS MOVED TO HERE
1040	(410)	X'410'	0	TRCARRG0	"TRCARRGS,4" JUST PRIOR TO FREEING OF ERA
1040	(410)	X'440'	0	TRCARRGC	"TRCARRGS+(R12*4),4"
1040	(410)	X'448'	0	TRCARRGE	"TRCARRGS+(R14*4),4"
1040	(410)	X'44C'	0	TRCARRGF	"TRCARRGS+(R15*4),4"
1104	(450)	SIGNED	4	TRCAHRGS(16)	Resumption high reg halves
1104	(450)	X'48C'	0	TRCAHRGF	"TRCAHRGS+(R15*4),4" High half of R15
1168	(490)	SIGNED	4	TRCAARGS(16)	RESUMPTION ARS MOVED HERE
1232	(4D0)	BITSTRING	1	TRCAMODE	MODE (MOVED FROM PREMODE)
1233	(4D1)	BITSTRING	3		Reserveds
1236	(4D4)	SIGNED	4	TRCASDWK	WORK AREA FOR $SDUMP MSGS,TITLE
1244	(4DC)	BITSTRING	492	TRCAEERA	EMERGENCY ERA
1736	(6C8)	SIGNED	4	TRCASAVX(0)	PCE STYLE SAVE AREA FOR EXIT 26
2056	(808)	SIGNED	4	TRCAPPL(0)	PURGE PARAMETER LIST
2072	(818)	SIGNED	4	TRCASMFB(0)	EXIT SMF 'BUFFER'
2108	(83C)	CHARACTER	6	TRCACODE	TERMINATION CODE FOR TRACE ID=7
2114	(842)	BITSTRING	4	TRCAMAFF	Mask of systems to dump
2118	(846)	CHARACTER	8	TRCARCV	RECVOPTS copied from HCT
2128	(850)	SIGNED	4		Reserved
2136	(858)	DBL WORD	8	(0)	ALIGN END OF TRCA
2136	(858)	X'858'	0	TRCALENG	"*-TRCA" LENGTH OF TRCA EQU

Table 552. Structure TRCALSTD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	TRCALSTD	START OF LISTD FOR SDUMPX
0	(0)	SIGNED	4	TRCALLEN	LENGTH OF LISTD AREA
4	(4)	CHARACTER	8	TRCASTKN	STOKEN FOR LISTD
12	(C)	SIGNED	4	TRCARNUM	NUMBER OF ADDRESS RANGES
16	(10)	SIGNED	4	TRCAR1S	RANGE 1 STARTING ADDRESS
20	(14)	SIGNED	4	TRCAR1E	RANGE 1 ENDING ADDRESS
20	(14)	X'14'	0	TRCALSZ	"*-TRCASTKN" Length of 1 entry

Table 553. Cross Reference for $TRCA

Name	Offset	Hex Tag
TRCA	0	
TRCAABND	8	8
TRCAARGS	490	
TRCAARMT	184	
TRCACNCT	B8	
TRCACODE	83C	
TRCADMPT	3A4	3A8
TRCADTE	38C	
TRCADTEL	240	240
TRCAECB	248	

Table 553. Cross Reference for $TRCA (continued)

Name	Offset	Hex Tag
TRCAEEIU	8	2
TRCAEERA	4DC	
TRCAERA	C	
TRCAEXIT	9	20
TRCAFINS	24C	
TRCAFLAG	8	
TRCAFLG2	9	
TRCAFLG3	A	
TRCAHCPY	B	80
TRCAHRGF	450	48C
TRCAHRGS	450	
TRCAINIT	9	40
TRCAINTA	9	10
TRCAJOBL	24	
TRCALDAD	180	
TRCALENG	858	858
TRCALLEN	0	
TRCALSTD	0	
TRCALSZ	14	14
TRCAMAFF	842	
TRCAMODE	4D0	
TRCAMODW	150	
TRCAMSGW	BC	
TRCANOPC	8	80
TRCANSCT	244	
TRCANSST	240	
TRCANSVL	258	258
TRCANSWE	248	
TRCAODMP	8	20
TRCAOPT	3A4	
TRCAOREC	8	40
TRCAPJS2	9	80
TRCAPPL	808	
TRCAPSV	24C	
TRCARCV	846	
TRCAREGE	164	168
TRCAREGS	164	
TRCAREG0	164	170
TRCAREG1	164	174
TRCAREG2	164	178
TRCAREMO	20	
TRCARGRB	250	
TRCARIPL	160	
TRCARNUM	C	
TRCARRGC	410	440
TRCARRGE	410	448
TRCARRGF	410	44C
TRCARRGS	410	
TRCARRG0	410	410

Table 553. Cross Reference for $TRCA (continued)

Name	Offset	Hex Tag
TRCARTRY	8	4
TRCAR1E	14	
TRCAR1S	10	
TRCASAVX	6C8	
TRCASDML	23C	B8
TRCASDMP	188	
TRCASDNO	398	6
TRCASDWK	4D4	
TRCASIDS	398	
TRCASMFB	818	
TRCASNPF	B	
TRCASTKN	4	
TRCASTRL	28	
TRCASUBT	8	1
TRCATERM	8	10
TRCATOKN	244	
TRCAWORK	10	
TRCA2ARR	9	2
TRCA2PRC	9	1
TRCA26AB	9	4
TRCA26EX	9	8
TRCA26WK	390	
TRCA3AUT	A	20
TRCA3CFT	A	80
TRCA3RMT	A	40
TRCA3STR	A	10
TRCA72ID	240	

Chapter 228. $TRE Information

$TRE Programming Interface Information

The following field is **NOT** programming interface information:

- TRERB

$TRE Heading Information

Common Name: TCB Recovery Element
Macro ID: $TRE
DSECT Name: TRE
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'TRE '
Offset: TREID-TRE
Length: 4
Storage Attributes: Subpool: 230
Key: 1
Residency: Virtual and Real storage are anywhere (above or below 16M) in the private storage of the address space of the task that is currently running in the JES2 code.

Size: TRELEN
Created by: The $SSIBEGN routine in HASCLINK obtains the $CPOOL for the $TREs.
The GETTRE routine in HASCLINK creates the individual $TRE.
Pointed to by: HXBTRE field of the $HASXB data area points to the first TRE for the address space.
PSVADDR field of the $PSV points to the associated TRE.
SSWTRE field of the $SFSWORK data area.
TREBRNCH field of the $TRE data area is used to chain the remaining TRE's of the address space.
TRXTRE field of the $TRX data area.
Serialization: Compare and Swap must be used to update the TRETCB field which indicates the owning TCB.
In SRB mode, TRETCB is set to x'FFFFFFFF'.
Function: The TRE contains information useful during recovery and status on global resources the TCB has acquired. The TRE resides within an MVS cell pool specifically created for it by the $SSIBEGN routine.
TREs can also be used in SRB mode.

$TRE mapping

Table 554. Structure TRE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	TRE	BEGINNING OF TRE DSECT
0	(0)	CHARACTER	4	TREID	EYECATCHER OF TRE

Table 554. Structure TRE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	ADDRESS	1	TREVRSN	VERSION FIELD OF THE TRE BLOCK
4	(4)	X'4'	0	TREVRNUM	"4" Current version of TRE
5	(5)	BITSTRING	1	TRECKEY	Original caller's PSWBYTE1 (KEY and PROB bits)
6	(6)	SIGNED	2	TREFUNC	Original caller's SSOBFUNC (Zero if not SSI TRE)
6	(6)	BITSTRING	0	TREFINT	"X'8000'" Internal function ind
6	(6)	X'8001'	0	TREFIRDR	"TREFINT+1" Internal reader function
8	(8)	ADDRESS	4	TREBRNCH	ADDRESS OF NEXT TRE ON CHAIN
12	(C)	ADDRESS	4	TRETCB	ADDRESS OF CALLER'S TCB or x'FFFFFFFF' if an SRB
16	(10)	ADDRESS	4	TRERB	ADDRESS OF TCB'S ACTIVE RB
20	(14)	ADDRESS	4	TRECSAVE	ADDRESS OF CALLER'S SAVE AREA
24	(18)	ADDRESS	4	TREHCCT	Address of HCCT
28	(1C)	ADDRESS	4	TRESSIBP	Address of $SSIBEGN parms
32	(20)	ADDRESS	4	TRETRXCR	ADDRESS OF MOST RECENT TRX
		ALL FIELDS AFTER THIS POINT WILL BE SET TO ZERO DURING TRE INITIALIZATION. INITIALIZATION OF FIELDS ABOVE THE TRERSAVE FIELD ARE SET BY SPECIFIC REFERENCE TO THE PARTICULAR FIELD. NEW FIELDS SHOULD BE ADDED AFTER THE TRERSAVE FIELD.			
36	(24)	ADDRESS	4	TRERSAVE	ADDR OF MOST RECENT SAVE AREA
40	(28)	ADDRESS	4	TRESJBLK	SJB ADDR (IF LOCKED BY TASK)
44	(2C)	ADDRESS	4	TRECPOOL	$GETHP CHAINING FIELD
48	(30)	ADDRESS	4	TREKEYSV	STORAGE KEY, XRT SAVE AREA, USED BY EXIT EFFECTOR, AND TRACE
52	(34)	ADDRESS	4	TREUSERA	RESERVED FOR USER
56	(38)	ADDRESS	4	TREUSERB	RESERVED FOR USER
60	(3C)	BITSTRING	1	TREUSECT	USE COUNT FOR $TRACK ENTRY
61	(3D)	BITSTRING	1	TREFLAG3	Status flag byte 3
		1...		TRE3JSLR	"B'10000000'" JESLOG ENQ requested
		.1..		TRE3JESL	"B'01000000'" JESLOG ENQ active
		..1.		TRE3SJBL	"B'00100000'" SJB lock inherited from higher level SSI
		...1		TRE3STAX	"B'00010000'" STAX DEFER=YES done
		.... 1...		TRE3SARR	"B'00001000'" SSI covered by an ARR
		.... .1..		TRE3ESTA	"B'00000100'" ESTAEX is established
		.... ..1.		TRE3UANY	"B'00000010'" Create by (USER,ANY) save
		1		TRE3PERC	"B'00000001'" ABEND percolation occured
62	(3E)	BITSTRING	1	TREFLAG4	Status flag byte 4
		1...		TRE4TRNQ	"B'10000000'" Attempting to get trace ENQ
		.1..		TRE4ENQH	"B'01000000'" Trace table ENQ held by $TRACER routine
		..1.		TRE4WPUR	"B'00100000'" Purge WQE when finished

Table 554. Structure TRE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		TRE4WSPN	"B'00010000'" JESLOG spin required
		.... 1...		TRE4BEWT	"B'00001000'" WTO SSI process BEWTO
		.... .1..		TRE4SMSG	"B'00000100'" SYSMSG ENQ held
		.... ..1.		TRE4SIRB	"B'00000010'" IRB blocked for SYSMSG ENQ
		1		TRE4SSJB	"B'00000001'" HFEXSPIN SJB lock obtained
63	(3F)	BITSTRING	1	TRERSV	Reserved field
64	(40)	ADDRESS	4	TREWAITE	POINTER TO A WAIT ELEMENT
68	(44)	BITSTRING	1	TREFLAG1	STATUS/FLAG BYTE 1
		1...		TRE1TYPE	"B'10000000'" TRE GOTTEN DURING $SSIBEGN PROCESSING, FREE DURING $SSIEND PROCESSING, NOT $RETURN
		.1..		TRE1TRAC	"B'01000000'" TCB SPECIFIC TRACING BIT
		..1.		TRE1SSI	"B'00100000'" TRE REPRESENTS AN SSI FUNCTION
		...1		TRE1SENQ	"B'00010000'" Task issued $STRAK ENQ
		.... 1...		TRE1TRAK	"B'00001000'" $STRAK IS IN CONTROL
		.... .1..		TRE1NIRB	"B'00000100'" TCBNOIRB needs to be reset by $SJBUNLOK
		.... ..1.		TRE1STAX	"B'00000010'" STAX ISSUED BY $SJBLOCK RTN
		1		TRE1NDMP	"B'00000001'" RESTORE DUMP=NO ON RETURN TO RTM FROM $SSI ESTAE
69	(45)	BITSTRING	1	TREFLAG2	STATUS/FLAG BYTE 2
		1...		TRE2X33	"B'10000000'" SSIDACLO - EXIT 33--ISSUE MESSAGE FLAG
		.1..		TRE2CNCL	"B'01000000'" SSIALOC - Internal reader allocation was cancelled
		..1.		TRE2LHLD	"B'00100000'" SJBLOCK obtained in WTALOGQ
		...1		TRE2TERM	"B'00010000'" $ERROR ind to terminate
		.... 1...		TRE2LOG	"B'00001000'" Log the error in LOGREC (via SETRP RECORD=YES)
		.... .1..		TRE2LKUS	"B'00000100'" SJBLOCK was usurped from this RB
		.... ..1.		TRE2LL	"B'00000010'" SJBLOCK got local lock
		1		TRE2LKST	"B'00000001'" SJBLOCK was stolen from this task
70	(46)	BITSTRING	1	TREUSER1	STATUS/FLAG RESERVED FOR USER
71	(47)	BITSTRING	1	TREX30TP	EXIT 30--TYPE OF DATASET BYTE
72	(48)	SIGNED	4		Reserved
76	(4C)	BITSTRING	1	TRECRTRC	CALLRTM return code (see $SJBLOCK routine)
77	(4D)	BITSTRING	1	TREFLAG5	Flag byte 5
		1...		TRE5IRDR	"B'10000000'" Set for Internal reader

Table 554. Structure TRE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		TRE5BLSC	"B'01000000'" Linkage Stack Compaction has been blocked
		..1.		TRE5SDBL	"B'00100000'" HFEXSPIN obtained SDB lock
		...1		TRE5SCNT	"B'00010000'" HFEXSPIN set SDBOPNCT TO 1
78	(4E)	BITSTRING	2		Reserved
		The following words are used by WTALOGQ in HASCSIRQ which is invoked under multiple SSIs. The mapping has to be available to all environments, hence the fields are in the TRE common area. TREWTAWA contains the address of the S35D currently being constructed and queued. If the value is zero, there is no current S35D. If positive, then it is the address of a CPOOL cell in the WTO data space.			
80	(50)	ADDRESS	4	TREWTAWA	Work area addr for SSIWTA
84	(54)	SIGNED	4		Reserved for future use
88	(58)	SIGNED	4	TREWTASJ	Addr of SJB with log prob.
92	(5C)	SIGNED	4	TRESAVE(0)	SAVE AREA FOR SAVE/RETURN SRVCS
96	(60)	DBL WORD	8	TREDOUB	Generate dword scratch area MCSFLUSH places TOD here
96	(60)	DBL WORD	8	TREBNAME	CATREAD dword scratch area used to store NAME= value for $DOGBERT call.
		ENQ/DEQ PARAMETER LISTS			
260	(104)	SIGNED	2	TRENQSTR(0)	START OF THE ENQ/DEQ PARM LISTS
		MACRO-DATE = 03/16/15			
260	(104)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
260	(104)	X'104'	0	TRERDRNQ	"*" X02113
260	(104)	ADDRESS	1		PELLAST flag byte. X02113
261	(105)	ADDRESS	1		PELMILEN - RNAME length.
262	(106)	BITSTRING	1		
				PELFLAG - flag byte 2.	
263	(107)	ADDRESS	1		PELRET - return code byte.
264	(108)	ADDRESS	4		QNAME ADDRESS
268	(10C)	ADDRESS	4		RNAME ADDRESS
268	(10C)	X'C'	0	TRERDRNL	"*-TRERDRNQ" Length of RDR ENQ list form
		MACRO-DATE = 03/16/2015			
260	(104)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
260	(104)	X'104'	0	TRERDRDQ	"*" X02113
260	(104)	ADDRESS	1		PELLAST flag byte. X02113
261	(105)	ADDRESS	1		PELMILEN - RNAME length.
262	(106)	BITSTRING	1		
				PELFLAG - flag byte 2.	
263	(107)	ADDRESS	1		PELRET - return code byte.
264	(108)	ADDRESS	4		QNAME ADDRESS
268	(10C)	ADDRESS	4		RNAME ADDRESS

Table 554. Structure TRE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
268	(10C)	X'C'	0	TRERDRDL	"*-TRERDRDQ" Length of RDR DEQ list form
MACRO-DATE = 03/16/15					
260	(104)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
260	(104)	X'104'	0	TRESVJNQ	"*" X02113
260	(104)	ADDRESS	1		PELLAST flag byte. X02113
261	(105)	ADDRESS	1		PELMILEN - RNAME length.
262	(106)	BITSTRING	1		
				PELFLAG - flag byte 2.	
263	(107)	ADDRESS	1		PELRET - return code byte.
264	(108)	ADDRESS	4		QNAME ADDRESS
268	(10C)	ADDRESS	4		RNAME ADDRESS
268	(10C)	X'C'	0	TRESVJNL	"*-TRESVJNQ" Length SVJ ENQ list form
MACRO-DATE = 03/16/2015					
260	(104)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
260	(104)	X'104'	0	TRESVJDQ	"*" X02113
260	(104)	ADDRESS	1		PELLAST flag byte. X02113
261	(105)	ADDRESS	1		PELMILEN - RNAME length.
262	(106)	BITSTRING	1		
				PELFLAG - flag byte 2.	
263	(107)	ADDRESS	1		PELRET - return code byte.
264	(108)	ADDRESS	4		QNAME ADDRESS
268	(10C)	ADDRESS	4		RNAME ADDRESS
268	(10C)	X'C'	0	TRESVJDL	"*-TRESVJDQ" Length SVJ DEQ list form
MACRO-DATE = 03/16/15					
260	(104)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
260	(104)	X'104'	0	TRESAPNQ	"*" X02113
260	(104)	ADDRESS	1		PELLAST flag byte. X02113
261	(105)	ADDRESS	1		PELMILEN - RNAME length.
262	(106)	BITSTRING	1		
				PELFLAG - flag byte 2.	
263	(107)	ADDRESS	1		PELRET - return code byte.
264	(108)	ADDRESS	4		QNAME ADDRESS
268	(10C)	ADDRESS	4		RNAME ADDRESS
268	(10C)	X'C'	0	TRESAPNL	"*-TRESAPNQ" Length SAPID ENQ list form
MACRO-DATE = 03/16/2015					
260	(104)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
260	(104)	X'104'	0	TRESAPDQ	"*" X02113
260	(104)	ADDRESS	1		PELLAST flag byte. X02113
261	(105)	ADDRESS	1		PELMILEN - RNAME length.
262	(106)	BITSTRING	1		
				PELFLAG - flag byte 2.	
263	(107)	ADDRESS	1		PELRET - return code byte.

Table 554. Structure TRE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
264	(108)	ADDRESS	4		QNAME ADDRESS
268	(10C)	ADDRESS	4		RNAME ADDRESS
268	(10C)	X'C'	0	TRESAPDL	"*-TRESAPDQ" Length SAPID DEQ list form
	MACRO-DATE = 03/16/15				
260	(104)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
260	(104)	X'104'	0	TREJLGNQ	"*" X02113
260	(104)	ADDRESS	1		PELLAST flag byte. X02113
261	(105)	ADDRESS	1		PELMILEN - RNAME length.
262	(106)	BITSTRING	1		
				PELFLAG - flag byte 2.	
263	(107)	ADDRESS	1		PELRET - return code byte.
264	(108)	ADDRESS	4		QNAME ADDRESS
268	(10C)	ADDRESS	4		RNAME ADDRESS
268	(10C)	X'C'	0	TREJLGNL	"*-TREJLGNQ" Length JESLOG ENQ list form
	MACRO-DATE = 03/16/2015				
260	(104)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
260	(104)	X'104'	0	TREJLGDQ	"*" X02113
260	(104)	ADDRESS	1		PELLAST flag byte. X02113
261	(105)	ADDRESS	1		PELMILEN - RNAME length.
262	(106)	BITSTRING	1		
				PELFLAG - flag byte 2.	
263	(107)	ADDRESS	1		PELRET - return code byte.
264	(108)	ADDRESS	4		QNAME ADDRESS
268	(10C)	ADDRESS	4		RNAME ADDRESS
268	(10C)	X'C'	0	TREJLGDL	"*-TREJLGDQ" Length JESLOG DEQ list form
	MACDATE = 04/03/89				
260	(104)	SIGNED	4	TRESJBTK(0)	
260	(104)	CHARACTER	16	(0)	TCB TOKEN (INPUT/OUTPUT)
260	(104)	BITSTRING	8		
268	(10C)	SIGNED	4		
272	(110)	ADDRESS	4		
276	(114)	ADDRESS	4		ASCB ADDRESS (INPUT)
280	(118)	SIGNED	4	(0)	FLAGS (INPUT)
280	(118)	SIGNED	1		TYPE OF TCBTOKEN REQUEST
281	(119)	SIGNED	3		RESERVED
281	(119)	X'18'	0	TRESJBTL	"*-TRESJBTK" Length TCBTOKEN list form
	THE RNAME FOR THE ENQ MUST MATCH THE RNAME FOR THE EXCLUSIVE ENQ THAT IS KEPT IN THE EVENT TRACE LOG PCE WORKAREA ($TLGWORK).				
	MACRO-DATE = 03/16/15				
260	(104)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
260	(104)	ADDRESS	4		PREFIX - TCB ADDRESS X02113
264	(108)	ADDRESS	4		PREFIX - ECB ADDRESS

Table 554. Structure TRE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
264	(108)	X'10C'	0	TRETRENQ	"*" X02113
268	(10C)	ADDRESS	1		PELLAST flag byte. X02113
269	(10D)	ADDRESS	1		PELMILEN - RNAME length.
270	(10E)	BITSTRING	1		
				PELFLAG - flag byte 2.	
271	(10F)	ADDRESS	1		PELRET - return code byte.
272	(110)	ADDRESS	4		QNAME ADDRESS
276	(114)	ADDRESS	4		RNAME ADDRESS
276	(114)	X'C'	0	TRETRENL	"*-TRETRENQ" Length of TCB ENQ list form
				MACRO-DATE = 03/16/2015	
260	(104)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
260	(104)	ADDRESS	4		PREFIX - TCB ADDRESS X02113
260	(104)	X'108'	0	TRETRDEQ	"*" X02113
264	(108)	ADDRESS	1		PELLAST flag byte. X02113
265	(109)	ADDRESS	1		PELMILEN - RNAME length.
266	(10A)	BITSTRING	1		
				PELFLAG - flag byte 2.	
267	(10B)	ADDRESS	1		PELRET - return code byte.
268	(10C)	ADDRESS	4		QNAME ADDRESS
272	(110)	ADDRESS	4		RNAME ADDRESS
272	(110)	X'C'	0	TRETRDEL	"*-TRETRDEQ" Length of TCB DEQ list form
284	(11C)	SIGNED	4	(0)	FULWORD ALIGN
284	(11C)	CHARACTER	8	TRERNAME(0)	RNAME FOR DEQ
284	(11C)	CHARACTER	4	TREREYE	EYECATCHER IN RNAME
288	(120)	ADDRESS	4	TRERCUR	TRACE TABLE ADDRESS IN RNAME
				Dump header value name for RECOVERY. Used only in recovery TRE.	
92	(5C)	BITSTRING	1	TRERECHL	Length of dump header
93	(5D)	CHARACTER	100	TRERECHD	Dump header work area
200	(C8)	DBL WORD	8	TRERECDW	RECOVERY work area
				THE FOLLOWING SAVE AREA IS POINTED TO BY REGISTER 13 THROUGHOUT THE SSI CODE, GENERALLY SPEAKING. AS IT IS A C'F1SA' TYPE OF SAVE AREA, MVS SERVICES WHICH ARE ACCESS REGISTER SENSITIVE WILL NOT USE IT, BUT WILL INSTEAD USE THE LINKAGE STACK. JES2 SSI CODE USES THE LINKAGE STACK TO SAVE REGISTERS AND STATUS. THE SAVE AREA IS A STANDARD SAVE AREA, BUT WITH JES2 EXTENSIONS.	
296	(128)	DBL WORD	8	(0)	Align save area
296	(128)	CHARACTER	168	TRECF1SA	SAVE AREA PLUS JES2 EXTENSIONS
300	(12C)	CHARACTER	4	TRECF1SV	MAKE IT A C'F1SA' SAVE AREA
464	(1D0)	DBL WORD	8	TRESSIWK(0)	SSI FUNCTION DEPENDENT WORKAREA ORG'D OVER BY MAPPINGS BELOW
				The following mapping of the TRESSIWK area is used by the HIRDRPUT routine in HASCPHAM.	
464	(1D0)	ADDRESS	4	TREIRWD	Current/locked IRWD addr
468	(1D4)	BITSTRING	1	TRERPLRQ	RPLREQ value

Table 554. Structure TRE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		THE FOLLOWING MAPPING OF THE TRESSIWK AREA IS USED BY SSIDACLO.			
464	(1D0)	BITSTRING	1	TREDAXDT	EXIT 33 DATASET TYPE BYTE
465	(1D1)	BITSTRING	1	TREDAXFG	TRE flag byte
		1...		TREDAXCC	"B'10000000'" Close count adjusted
		The following mapping of the TRESSIWK area is used by SSINOUS for Notify SSI support.			
464	(1D0)	ADDRESS	4	TRENUWRK	Addr of NOUSWRK area
468	(1D4)	ADDRESS	4	TRECMB	Addr of CSA CMB created
		THE FOLLOWING MAPPING OF THE TRESSIWK AREA IS USED BY SSIALUNA FOR EXIT 48 SUPPORT.			
464	(1D0)	ADDRESS	4	TREDAXPL	CONTAINS POINTER TO XPL
		The following mapping of the TRESSIWK area is used by SSISFS for Scheduler Services SSI support.			
464	(1D0)	ADDRESS	4	TRESFWRK	Addr of SFSWORK area
468	(1D4)	ADDRESS	4	TRESFRB	Addr of CSA SFRB created
		The following mapping of the TRESSIWK area is used by the HASCJBST JBSELECT routine for the list form of ESTAE.			
464	(1D0)	SIGNED	4	(0)	
464	(1D0)	ADDRESS	1	TREJBEST	FLAGS FOR ESTAEX
465	(1D1)	ADDRESS	1		SECOND FLAG BYTE
466	(1D2)	ADDRESS	1		THIRD FLAG BYTE
467	(1D3)	ADDRESS	1		VERSION NUMBER
468	(1D4)	ADDRESS	4		TOKEN VALUE AREA
472	(1D8)	ADDRESS	4		PARM. LIST ADDR. NOT SPECIFIED
476	(1DC)	ADDRESS	4		ALET FOR PARM LIST
480	(1E0)	ADDRESS	4		EXIT ADDR NOT SPECD
480	(1E0)	X'14'	0	TREJBESL	"*-TREJBEST" Length of ESTAEX parameter list
		The following mapping of the TRESSIWK area is used by the SSIPJCL routine in HASCARMS.			
464	(1D0)	ADDRESS	4	TREPJRB	PJCL MTRB
		The following mapping of the TRESSIWK area is used by the SSIUALOC routine in HASCDSAL.			
464	(1D0)	SIGNED	4	TREJBKEY	Job key for $CBIO
		The following mapping of the TRESSIWK area is used by the SSISOUT2 routine in HASCSAPI.			
464	(1D0)	SIGNED	4	TRESAPIA	SAPI ALET value for SAPID
468	(1D4)	ADDRESS	4	TRESAPID	SAPI address of SAPID
		The following mapping of the TRESSIWK area is used by the CVDEVID routine in HASCSISC.			
464	(1D0)	BITSTRING	3	TREDVID	Device ID in binary
467	(1D3)	BITSTRING	1		Reserved for future use
468	(1D4)	CHARACTER	18	TREDVNAM	Converted name in EBCDIC

Table 554. Structure TRE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		The following mapping of the TRESSIWK area is used by the HFEXSPIN routine in HASCDSOC.			
464	(1D0)	ADDRESS	4	TRESPINS	Address of SDB locked by HFEXSPIN (valid only if TRE5SDBL on)
		The following mapping of the TRESSIWK area is used by recovery in HASCLINK.			
464	(1D0)	SIGNED	4	TRERECRA	Holds the retry address
468	(1D4)	SIGNED	4	TRERECSA	Addr of SSI caller's save area
472	(1D8)	SIGNED	4	TRERECFA	Addr of SSI function addr
476	(1DC)	SIGNED	4	TRERECWK	Temp work area for VRADATA
480	(1E0)	SIGNED	2	TRERECFN	Abending SSI function num
482	(1E2)	SIGNED	2		Reserved
484	(1E4)	SIGNED	2	TRERECSC	System ABEND code
486	(1E6)	SIGNED	2	TRERECUC	User ABEND code
488	(1E8)	ADDRESS	4	TRERECAD	Failing/ABEND address
492	(1EC)	ADDRESS	4	TRERECLM	Failing LMT address
496	(1F0)	ADDRESS	4	TRERECCS	Failing MIT/CSECT address
500	(1F4)	SIGNED	4	(4)	Reserved
500	(1F4)	X'34'	0	TRESSIWL	"*-TRESSIWK" Size of SSI work area
520	(208)	DBL WORD	8	TRECRTIM	Time TRE was claimed (made active)
528	(210)	BITSTRING	1	TREFRESA	Basic save area for $FRETRE
		Make sure the TRE is not smaller than the TRX, since the TRX'es are obtained in the TRE cell pool.			
680	(2A8)	DBL WORD	8		as TRX
		Ensure that TREs stay within a page (ie do not cross a page boundary). Round the size to a page boundary minus the GETHP prefix minus the 8 byte guard byte.			
1008	(3F0)	X'3F0'	0	TRELEN	"*-TRE" LENGTH OF TRE DSECT

Table 555. Cross Reference for $TRE

Name	Offset	Hex Tag
TRE	0	
TREBNAME	60	
TREBRNCH	8	
TRECF1SA	128	
TRECF1SV	12C	C6F1E2C1
TRECKEY	5	
TRECMB	1D4	
TRECPOOL	2C	
TRECRTIM	208	
TRECRTRC	4C	
TRECSAVE	14	
TREDAXCC	1D1	80
TREDAXDT	1D0	

Table 555. Cross Reference for $TRE (continued)

Name	Offset	Hex Tag
TREDAXFG	1D1	
TREDAXPL	1D0	
TREDOUB	60	
TREDVID	1D0	
TREDVNAM	1D4	
TREFINT	6	8000
TREFIRDR	6	8001
TREFLAG1	44	
TREFLAG2	45	
TREFLAG3	3D	
TREFLAG4	3E	
TREFLAG5	4D	
TREFRESA	210	
TREFUNC	6	
TREHCCT	18	
TREID	0	E3D9C540
TREIRWD	1D0	
TREJBESL	1E0	14
TREJBEST	1D0	
TREJBKEY	1D0	
TREJLGDL	10C	C
TREJLGDQ	104	104
TREJLGNL	10C	C
TREJLGNQ	104	104
TREKEYSV	30	
TRELEN	3F0	3F0
TRENQSTR	104	
TRENUWRK	1D0	
TREPJRB	1D0	
TRERB	10	
TRERCUR	120	
TRERDRDL	10C	C
TRERDRDQ	104	104
TRERDRNL	10C	C
TRERDRNQ	104	104
TRERECAD	1E8	
TRERECCS	1F0	
TRERECDW	C8	
TRERECFA	1D8	
TRERECFN	1E0	
TRERECHD	5D	
TRERECHL	5C	
TRERECLM	1EC	
TRERECRA	1D0	
TRERECSA	1D4	
TRERECSC	1E4	
TRERECUC	1E6	
TRERECWK	1DC	
TREREYE	11C	

Table 555. Cross Reference for $TRE (continued)

Name	Offset	Hex Tag
TRERNAME	11C	
TRERPLRQ	1D4	
TRERSAVE	24	
TRERSV	3F	
TRESAPDL	10C	C
TRESAPDQ	104	104
TRESAPIA	1D0	
TRESAPID	1D4	
TRESAPNL	10C	C
TRESAPNQ	104	104
TRESAVE	5C	
TRESFRB	1D4	
TRESFWRK	1D0	
TRESJBLK	28	
TRESJBTK	104	
TRESJBTL	119	18
TRESPINS	1D0	
TRESSIBP	1C	
TRESSIWK	1D0	
TRESSIWL	1F4	34
TRESVJDL	10C	C
TRESVJDQ	104	104
TRESVJNL	10C	C
TRESVJNQ	104	104
TRETCB	C	
TRETRDEL	110	C
TRETRDEQ	104	108
TRETRENL	114	C
TRETRENQ	108	10C
TRETRXCR	20	
TREUSECT	3C	
TREUSERA	34	
TREUSERB	38	
TREUSER1	46	
TREVRNUM	4	4
TREVRSN	4	
TREWAITE	40	
TREWTASJ	58	
TREWTAWA	50	
TREX30TP	47	
TRE1NDMP	44	1
TRE1NIRB	44	4
TRE1SENQ	44	10
TRE1SSI	44	20
TRE1STAX	44	2
TRE1TRAC	44	40
TRE1TRAK	44	8
TRE1TYPE	44	80
TRE2CNCL	45	40

Table 555. Cross Reference for $TRE (continued)

Name	Offset	Hex Tag
TRE2LHLD	45	20
TRE2LKST	45	1
TRE2LKUS	45	4
TRE2LL	45	2
TRE2LOG	45	8
TRE2TERM	45	10
TRE2X33	45	80
TRE3ESTA	3D	4
TRE3JESL	3D	40
TRE3JSLR	3D	80
TRE3PERC	3D	1
TRE3SARR	3D	8
TRE3SJBL	3D	20
TRE3STAX	3D	10
TRE3UANY	3D	2
TRE4BEWT	3E	8
TRE4ENQH	3E	40
TRE4SIRB	3E	2
TRE4SMSG	3E	4
TRE4SSJB	3E	1
TRE4TRNQ	3E	80
TRE4WPUR	3E	20
TRE4WSPN	3E	10
TRE5BLSC	4D	40
TRE5IRDR	4D	80
TRE5SCNT	4D	10
TRE5SDBL	4D	20

Chapter 229. $TRX Information

$TRX Programming Interface Information

$TRX is a programming interface.

$TRX Heading Information

Common Name: TCB Recovery Element Extension
Macro ID: $TRX
DSECT Name: TRX
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'TRX '
Offset: TRXID-TRE
Length: 4
Storage Attributes: Subpool: 230
Key: 1
Residency: Virtual and real storage are anywhere (above or below 16M) in the private storage of the user address space

Size: TRXLEN
Created by: The $SSIBEGN service creates an initial TRX for a subsystem interface request.
The $SAVE service creates an initial TRX for a user environment routine that is called from outside the user environment.
The $ESTAE service creates an additional TRX when a new recovery routine is specified.
Pointed to by: TRETRXCR field of the $TRE data area
TRXTPREV field of the $TRX data area
Serialization: None
Function: Contains recovery-related information for JES2 user-environment routines.

$TRX mapping

Table 556. Structure TRX

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	TRX	Beginning of the TRX DSECT
0	(0)	CHARACTER	4	TRXID	Eyecatcher of TRX
4	(4)	ADDRESS	1	TRXVRSN	Version field of the TRX
4	(4)	X'3'	0	TRXVRNUM	"3" Current version
5	(5)	BITSTRING	1	TRXRCVRY	Current recovery level
6	(6)	BITSTRING	1	TRXRECNM	Number of $ERRORs issued
7	(7)	BITSTRING	1	TRXFLAG1	Flag byte 1
		1...		TRX1SSI	"B'10000000'" TRX represents ESTAE established by $SSIBEGN
		.1..		TRX1ESTA	"B'01000000'" TRX represents ESTAE established by $ESTAE

Table 556. Structure TRX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		TRX1ESTE	"B'00100000'" Associated ESTAE is established
		...1		TRX1RCVY	"B'00010000'" In use by RECOVERY - If this bit is on when cancel, percolated
		.... 1...		TRX1PERC	"B'00001000'" Percolation required - this flag is for use by $ESTAE recovery exits
		.... .1..		TRX1NDMP	"B'00000100'" Suppress dump
		.... ..1.		TRX1RECY	"B'00000010'" This is temporary recovery TRX
8	(8)	ADDRESS	4	TRXRECAD	Address of recovery exit
12	(C)	ADDRESS	4	TRXRADDR	Retry address vector - 2 byte cnt followed by 4 byte addrs
16	(10)	ADDRESS	4	TRXTOKEN	ESTAE token for this ESTAE
20	(14)	ADDRESS	4	TRXPREV	Address of previous TRX
24	(18)	ADDRESS	4	TRXTRE	Address of TRE for this TRX
28	(1C)	ADDRESS	4	TRXUSER1	User field 1
32	(20)	ADDRESS	4	TRXUSER2	User field 2
		Next comes a caller address array. This is a 25x8 byte array, with header fields, used to save the addresses of the caller of a routine which issues a $SAVE macro. This array is used to determine the sequence of calls both for dump analysis, as well as for the $HASP088 message, in the (unlikely?) event that the JES2 Main Task blows up while executing code in the user environment.			
36	(24)	ADDRESS	4	TRXNEXTN	Entry in caller addr array
36	(24)	X'19'	0	TRXNUMEN	"25" Number of entries in array
36	(24)	X'10'	0	TRXCLRLN	"L'TRXCLRAR" Length of a single entry
36	(24)	X'0'	0	TRXCLRAD	"0,4,C'A'" Address of caller of routine
36	(24)	X'4'	0	TRXCLRNM	"4,4,C'A'" Address of called routien name
36	(24)	X'8'	0	TRXCLRLS	"8,4,C'F'" Linkage stack pointer
36	(24)	X'C'	0	TRXCLREX	"12,1,C'X'" Exit number
40	(28)	BITSTRING	16	TRXCLRAR(0)	Caller array
40	(28)	X'28'	0	TRXESTAE	"TRXCLRAR,16*TRXNUMEN" Work area for ESTAEX
		Up to 32 bytes of debugging data (for example, a textual footprint) can be stored in field TRXTRACK. The RECOVERY routine in HASCLINK records the contents of this field in the variable recording area (VRA). The actual length of the data must be set in field TRXLOGLN.			
440	(1B8)	CHARACTER	32	TRXTRACK	Area for debugging data
472	(1D8)	SIGNED	2	TRXTRACL(0)	Length of debugging data
472	(1D8)	SIGNED	1	TRXLOGWK	Upper byte of length (0)
473	(1D9)	SIGNED	1	TRXLOGLN	Length of data (0-32)
474	(1DA)	BITSTRING	2		Reserved
476	(1DC)	SIGNED	4	TRXLSAD	Linkage stack address TRX was created

Table 556. Structure TRX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Registers are saved when the $ESTAE is established in the user environment.			
480	(1E0)	SIGNED	4	TRXGRSAV(16)	Low half general registers at time of $ESTAE invocation
544	(220)	SIGNED	4	TRXGRHSV(16)	High half general registers at time of $ESTAE invocation
608	(260)	SIGNED	4	TRXARSAV(16)	Access register save area at time of $ESTAE invocation
672	(2A0)	SIGNED	4	TRXECBTR	ECB used to WAIT forever
672	(2A0)	X'2A4'	0	TRXLEN	"*-TRX"

Table 557. Cross Reference for $TRX

Name	Offset	Hex Tag
TRX	0	
TRXARSAV	260	
TRXCLRAD	24	0
TRXCLRAR	28	
TRXCLREX	24	C
TRXCLRLN	24	10
TRXCLRLS	24	8
TRXCLRNM	24	4
TRXECBTR	2A0	
TRXESTAE	28	28
TRXFLAG1	7	
TRXGRHSV	220	
TRXGRSAV	1E0	
TRXID	0	E3D9E740
TRXLEN	2A0	2A4
TRXLOGLN	1D9	
TRXLOGWK	1D8	0
TRXLSAD	1DC	
TRXNEXTN	24	
TRXNUMEN	24	19
TRXPREV	14	
TRXRADDR	C	
TRXRCVRY	5	
TRXRECAD	8	
TRXRECNM	6	
TRXTOKEN	10	
TRXTRACK	1B8	
TRXTRACL	1D8	
TRXTRE	18	
TRXUSER1	1C	
TRXUSER2	20	
TRXVRNUM	4	3
TRXVRSN	4	
TRX1ESTA	7	40
TRX1ESTE	7	20

Table 557. Cross Reference for $TRX (continued)

Name	Offset	Hex Tag
TRX1NDMP	7	4
TRX1PERC	7	8
TRX1RCVY	7	10
TRX1RECY	7	2
TRX1SSI	7	80

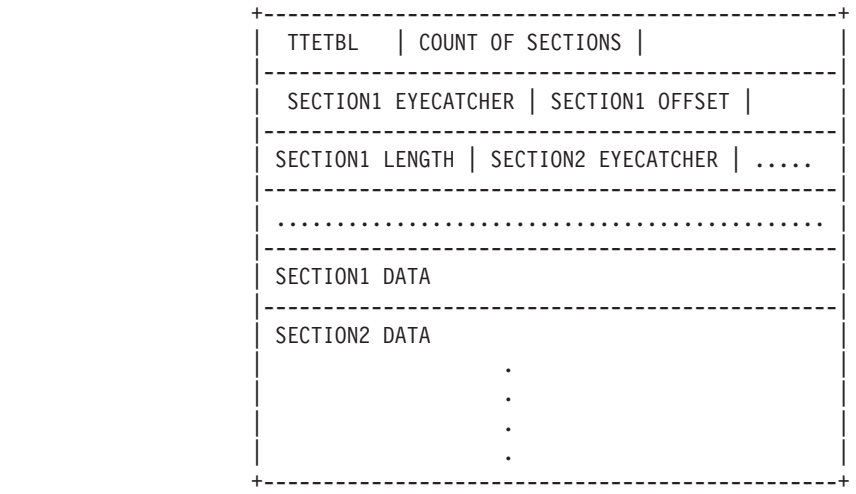
Chapter 230. $TTETBL Information

$TTETBL Heading Information

Common Name:	TTE Trace Table DSECT
Macro ID:	$TTETBL
DSECT Name:	TTETBL
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'TTETBL ' Offset: TTETEYEC Length: L'TTETEYEC
Storage Attributes:	Subpool: 231 Key: 1 Residency: Virtual is in 31 bit common storage (ESCA), real can be anywhere in 64 bit storage.
Size:	The TTE trace table is variable in size. The total size of the table itself is the number of sections included in the TTE (found in field TTETSCNT) times the length of a table entry (defined by equate TTETENTL). The total size of data referenced by the table is determined by taking the table size calculated above and adding in the size of data referenced by each table entry (in field TTETSDLN).
Created by:	The TTE Trace Table is created by code that wishes to trace data whose DSECTs may vary in size or content across a HOT start. An example is TRACE ID 25, where the TTE Trace Table is created in module HASPFSSM by routine FSMCHKPT when it will issue a ID 25 trace entry. The $TRACE macro is used to allocate a TTE to contain the trace data, the code in FSMCHKPT then initializes some data and then fills in the TTE Trace Table as it loads sections of trace data into the TTE.
Pointed to by:	The TTE Trace Table is located in the TTEDATA portion of the TTE. Its specific location is determined by the code utilizing the structure. For TRACE ID 25, the TTE Trace Table is located after the register values stored in TTEDATA. There is no specific pointer field identifying its location.
Serialization:	See comments in $TRACER service for serialization requirements.

$TTETBL Heading Information

Function: The TTE Trace Table DSECT allows for the assembly or reading of a variable number of sections of trace data, each section which contains a variable amount of data. Use of the TTE Trace Table avoids problems tracing/printing data from control blocks that might have been built using a previous version of the control block structure, which can occur across a hot start. The code responsible for printing the trace data can rely on the section table entries in the TTE Trace Table to define the type of data being traced and its size.
The first field in the table is an 8 byte eyecatcher "TTETBL ". Code that processes the trace data for printing can check for this eyecatcher to verify the data is in a recognizeable TTE Trace Table format.
The second field in the table is a 2 byte count of sections defined in the table. This will be a constant value defined by the level of FSSM being executed.
Next in the table is an entry per section being traced. Each section will contain an 8 character eyecatcher identifying the section, a 2 byte offset into TTEDATA where the data is stored, then a 2 byte length of data contained in the section.
Note that HASPFSSM and HASPEVTL must have the same list of 8 character section eyecatchers in order for the data to print with the proper headers. If HASPEVTL encounters an eyecatcher it does not recognize it will output the TTE Table entry eyecatcher for the title.
The table will be followed by the sections of data.
The TTE layout will look like this:



Note: The section offset is used in halfword calculations (which are signed), so the total length of a section's data must be x'7FFF' or less.

$TTETBL mapping

Table 558. Structure TTETBL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	TTETBL	TTE Trace Table DSECT
0	(0)	CHARACTER	8	TTETEYEC	TTETBL eyecatcher
8	(8)	SIGNED	2	TTETSCNT	Count of TTE Trace Table Entries
8	(8)	X'A'	0	TTETBLH	"*-TTETBL" Length of TTE Table header
10	(A)	SIGNED	2	TTETTENT(0)	TTE Trace Table Entry
10	(A)	CHARACTER	8	TTETSEYE	TTE trace section type eyecatcher
18	(12)	SIGNED	2	TTETSOFF	TTE trace section offset into TTEDATA where the section data is located
20	(14)	SIGNED	2	TTETSDLN	TTE Trace section data len
20	(14)	X'C'	0	TTETENTL	"*-TTETTENT" TTE Trace Table Entry Len
20	(14)	X'8'	0	TTEEYELN	"L'TTETSEYE" Length of eyecatcher
20	(14)	X'1C'	0	TTEHDRLN	"28" Length of trace output header used in EVTL

Table 559. Cross Reference for $TTETBL

Name	Offset	Hex Tag
TTEEYELN	14	8
TTEHDRLN	14	1C
TTETBL	0	
TTETBLH	8	A
TTETENTL	14	C
TTETEYEC	0	E3E3C5E3
TTETSCNT	8	
TTETSDLN	14	
TTETSEYE	A	
TTETSOFF	12	
TTETTENT	A	

Chapter 231. $WARMWRK Information

$WARMWRK Programming Interface Information

$WARMWRK is a programming interface.

$WARMWRK Heading Information

Common Name:	JES2 Warm Start PCE Work Area
Macro ID:	$WARMWRK
DSECT Name:	PCE ($WARMWRK is part of the PCE DSECT)
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4
Storage Attributes:	Subpool: See $PCE Key: See $PCE Residency: See $PCE
Size:	See symbol WRMPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by:	For the mother PCEs, see $PCE For daughter PCEs, the PCE is created by $PCEDYN. Daughter PCEs are created while processing JQEs during warm start. The daughter PCEs are deleted before warm start is complete.
Pointed to by:	The $WARMPCE field of the $HCT data area points into the $PCEORG/$PCELAST chain to the first warm start PCE. Since this chain contains all PCEs, use the PCEID field to determine when you have chained past the last PCE of this type. See $PCE for other pointer fields that apply to all PCE types.
Serialization:	Normal PCE dispatch serialization
Function:	The fields in this work area are used by a JES2 warm start Processor and by its support routines and exits. $WARMWRK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $WARMWRK are actually part of the PCE DSECT, but only map PCEs with the value PCEWRMID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

$WARMWRK mapping

Table 560. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	HASP WARM START PROCESSOR
320	(140)	BITSTRING	12	WRMTQE	TIMER QUEUE ELEMENT
332	(14C)	ADDRESS	4	WRMCYLMP	ADDR OF TRK ALLOCATE WORK AREA

Table 560. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
336	(150)	ADDRESS	4	WRMTGM	ADDRESS OF TEMP TRACK GROUP MAP
340	(154)	ADDRESS	4	WRMTGML	LENGTH OF TEMP TRACK GROUP MAP
344	(158)	ADDRESS	4	WRMJCTBF	JCT BUFFER ADDRESS
348	(15C)	ADDRESS	4	WRMIOTBF	IOT buffer address
352	(160)	SIGNED	4	WRMMTTR	SAVE AREA FOR MTTR
356	(164)	SIGNED	4	WRMMTTRD	Save area for MTTR
360	(168)	SIGNED	4	WRMMONXT	MTTR of IOT after mother
364	(16C)	SIGNED	4	WRMMOCUR	MTTR of current Mother IOT
368	(170)	BITSTRING	5	WRMWMQT	MQT work area
373	(175)	BITSTRING	3		Reserved
376	(178)	ADDRESS	4	WRMWCA	Addr warm start comm area
380	(17C)	ADDRESS	4	WRMOTHER	Addr of mother warm start PCE
384	(180)	ADDRESS	4	WRMESYSQ	Addr of $E SYS QSE
388	(184)	SIGNED	4	WRMDOMID	DOMID for HASP493
392	(188)	ADDRESS	4	WRMWSJQE	Single JQE to warm start
396	(18C)	ADDRESS	4	WRMJQE	Current JQA
400	(190)	SIGNED	4	WRMJQEOF	Offset of current real JQE
404	(194)	BITSTRING	32	WRMSUMSK	JOB SPLS USED MASK BUILD AREA
436	(1B4)	BITSTRING	8	WRMSDOWN	SYSTEM DOWN TABLE
444	(1BC)	SIGNED	2	WRMNRDAU	Number of daughter PCEs
446	(1BE)	BITSTRING	1		Reserved for future use
447	(1BF)	BITSTRING	1	WRMFLAG1	WARM START PROCESSOR STATUS BYTE
		1...		WRM1PCEM	"B'10000000'" This is a mother PCE
		.1..		WRM1PCED	"B'01000000'" This is a daughter PCE
		..1.		WRM1RERD	"B'00100000'" SET TO READ BOTH CHAINS OF IOTS
		...1		WRM1UNSP	"B'00010000'" UNSPUN IOT EXISTS FOR JOB
		.... 1...		WRM1RDER	"B'00001000'" JCT READ ERROR OCCURRED
		.... .1..		WRM1CLSQ	"B'00000100'" Called from class queue
		.... ..1.		WRM1JQEJ	"B'00000010'" RUNNING JQE JOE CHAIN FOR JOB
		1		WRM1HLDQ	"B'00000001'" Called from Hold queue
448	(1C0)	ADDRESS	4	WRMCHKBF	CHK I/O BUFFER ADDRESS
452	(1C4)	BITSTRING	1	WRMFLAG2	WARM START JOB STATUS FLAG
		1...		WRM2TEST	"B'10000000'" REQUEUE JOB AFTER MORE TESTING
		.1..		WRM2PURG	"B'01000000'" REQUEUE JOB FOR PURGE
		..1.		WRM2NSPL	"B'00100000'" SPOOL NOT AVAILABLE
		...1		WRM2STRT	"B'00010000'" REQUEUE STARTING STC/TSU JOB
		.... 1...		WRM2NBSY	"B'00001000'" REQUEUE NON-BUSY JOB
		.... .1..		WRM2JERR	"B'00000100'" JOB HAS JCT ERROR
		.... ..1.		WRM2QREM	"B'00000010'" Remove job from the system

Table 560. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1		WRM2MTTR	"B'00000001'" UPDATE JOB'S SPOOLS USED MASK FROM THE MTTR
453	(1C5)	BITSTRING	1	WRMFLAG3	WARM START FLAG BYTE 3
		1...		WRM3SIOT	"B'10000000'" SPIN IOT TO BE READ
		.1..		WRM3DAUG	"B'01000000'" Daughter IOT to process
		..1.		WRM3MACT	"B'00100000'" Mother PCE which is active
		...1		WRM3NICN	"B'00010000'" Not in init continuation
		.... 1...		WRM3PJOE	"B'00001000'" Processing JOE purge queue
		.... .1..		WRM3LOCK	"B'00000100'" Warm start lock acquired
		.... ..1.		WRM3DUPS	"B'00000010'" Duplicate jobs released
		1		WRM3RJOE	"B'00000001'" Processing JOE rebuild que
454	(1C6)	BITSTRING	1	WRMTYPE	Warm start type (bits are the same as those defined for $WARMTYP)
455	(1C7)	BITSTRING	1	WRMFLAG4	Warm Start flag byte 4
		1...		WRM4E58S	"B'10000000'" ENF58 signal should not be issued when a JOE is $#PUT back onto the queue
		.1..		WRM4NQIK	"B'01000000'" This member not quick startable => AMWS abort
		..1.		WRM4AMWS	"B'00100000'" This warmstart began as all member type
		...1		WRM4ALIC	"B'00010000'" Work found for ALICE
		.... 1...		WRM4DONE	"B'00001000'" Job already disposed of
		.... .1..		WRM4JLOK	"B'00000100'" Job lock acquired
		1		WRM4FAIL	"B'00000001'" $E MEMBER failed (only on in mother PCE)
456	(1C8)	BITSTRING	1	WRMSTAT1	Job state flag (See $WR1xxxx in HASPWARM)
457	(1C9)	BITSTRING	1	WRMFLAG5	Warm Start flag byte 5
		1...		WRM5JODL	"B'10000000'" JOE was deleted
		.1..		WRM5NXST	"B'01000000'" SPOOL does not exist
		..1.		WRM5RSTR	"B'00100000'" Routine NQREQUE found job to be restartable
460	(1CC)	ADDRESS	4	WRMMASTB	Address of Master table for various scenarios
464	(1D0)	DBL WORD	8	WRMTIMES	Timestamp used by DILBERT PCE to find mother warm start PCE
472	(1D8)	BITSTRING	2		Reserved for future use
476	(1DC)	ADDRESS	4	WRMBLOB	Address of temporary checkpointed BLOB
480	(1E0)	SIGNED	4	WRMTGRSZ	WRMBLOB TGR element size
484	(1E4)	SIGNED	4	WRMJQEFA	Number of JQE warmstart failures

Table 560. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
488	(1E8)	SIGNED	4	WRMQECB(0)	Confirm start msg ecb
512	(200)	CHARACTER	9	WRMQREPL	Confirm start reply area
------- $BLDMSG MF=L List form of $BLDMSG					
524	(20C)	SIGNED	4	WRMBLMSG(0)	Control block ID
528	(210)	BITSTRING	4		Console ID
532	(214)	ADDRESS	4		Address of the CART
536	(218)	ADDRESS	4		Pointer for JOBID
540	(21C)	ADDRESS	4		Control block address
544	(220)	ADDRESS	4		Display routine address
548	(224)	ADDRESS	4	(6)	6 word work area
572	(23C)	ADDRESS	4		Caller's R11 value
576	(240)	BITSTRING	2		ROUT code for Message
578	(242)	BITSTRING	2		Not used
580	(244)	CHARACTER	4		Message ID
584	(248)	CHARACTER	1		Separator character
585	(249)	ADDRESS	1		Flag byte 1
586	(24A)	ADDRESS	1		'DISPER'
587	(24B)	ADDRESS	1		Flag byte 2
588	(24C)	ADDRESS	1		Flag byte 3
589	(24D)	CHARACTER	8		Symbolic name of dest.
597	(255)	BITSTRING	15		Not used
612	(264)	ADDRESS	4	(0)	Ensure multiple of 4
612	(264)	ADDRESS	2	(0)	
612	(264)	SIGNED	4	(0)	Align on fullword boundary
612	(264)	BITSTRING	20	WRM$SIR	$IOTERR parameter list
632	(278)	SIGNED	4	(0)	ALIGN WARM PCE WORK AREA
632	(278)	X'138'	0	WRMPCEWS	"*-PCEWORK" LENGTH OF PCE WORK AREA

Table 561. Structure CONMAST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CONMAST	, Master table header followed by table
0	(0)	ADDRESS	4	CONMFRT	Address 1st array entry
4	(4)	ADDRESS	4	CONMNEXT	Address of next array entry
8	(8)	ADDRESS	4	CONMLST	Address of last possible entry. Entries follow
12	(C)	SIGNED	4	CONMLEN	Length of GETMAIN'ed area
16	(10)	SIGNED	4	CNNUMEN	Current number of entries
20	(14)	BITSTRING	1	CONSTAT	Concurrent state
		1...		CONCANCL	"B'10000000'" Set must be cancelled and assure JQE's are post execution
		.1..		CONRESUB	"B'01000000'" Concurrent set should be resubmitted
20	(14)	X'1388'	0	CONTABSZ	"5000" Number of initial table entries
20	(14)	X'15'	0	CONHDLEN	"*-CONMAST" Header length

Table 562. Structure WARMDILL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	WARMDILL	, Master table header
0	(0)	BITSTRING	4	WDILLID	DILL EYE CATCHER
8	(8)	DBL WORD	8	WARMTIME	Timestamp used by DILBERT PCE to find mother warm start PCE
16	(10)	ADDRESS	4	WARMQSEA	QSE addess

Table 563. Cross Reference for $WARMWRK

Name	Offset	Hex Tag
CNNUMEN	10	
CONCANCL	14	80
CONHDLEN	14	15
CONMAST	0	
CONMFRT	0	
CONMLEN	C	
CONMLST	8	
CONMNEXT	4	
CONRESUB	14	40
CONSTAT	14	
CONTABSZ	14	1388
PCE	0	
WARMDILL	0	
WARMQSEA	10	
WARMTIME	8	0
WDILLID	0	
WRM$SIR	264	
WRMBLMSG	20C	C2D3C440
WRMBLOB	1DC	
WRMCHKBF	1C0	
WRMCYLMP	14C	
WRMDOMID	184	
WRMESYSQ	180	
WRMFLAG1	1BF	
WRMFLAG2	1C4	
WRMFLAG3	1C5	
WRMFLAG4	1C7	
WRMFLAG5	1C9	
WRMIOTBF	15C	
WRMJCTBF	158	
WRMJQE	18C	
WRMJQEFA	1E4	
WRMJQEOF	190	
WRMMASTB	1CC	
WRMMOCUR	16C	
WRMMONXT	168	
WRMMTTR	160	
WRMMTTRD	164	
WRMNRDAU	1BC	
WRMOTHER	17C	

Table 563. Cross Reference for $WARMWRK (continued)

Name	Offset	Hex Tag
WRMPCEWS	278	138
WRMQECB	1E8	
WRMQREPL	200	40404040
WRMSDOWN	1B4	0
WRMSTAT1	1C8	
WRMSUMSK	194	
WRMTGM	150	
WRMTGML	154	
WRMTGRSZ	1E0	
WRMTIMES	1D0	0
WRMTQE	140	
WRMTYPE	1C6	
WRMWCA	178	
WRMWMQT	170	
WRMWSJQE	188	
WRM1CLSQ	1BF	4
WRM1HLDQ	1BF	1
WRM1JQEJ	1BF	2
WRM1PCED	1BF	40
WRM1PCEM	1BF	80
WRM1RDER	1BF	8
WRM1RERD	1BF	20
WRM1UNSP	1BF	10
WRM2JERR	1C4	4
WRM2MTTR	1C4	1
WRM2NBSY	1C4	8
WRM2NSPL	1C4	20
WRM2PURG	1C4	40
WRM2QREM	1C4	2
WRM2STRT	1C4	10
WRM2TEST	1C4	80
WRM3DAUG	1C5	40
WRM3DUPS	1C5	2
WRM3LOCK	1C5	4
WRM3MACT	1C5	20
WRM3NICN	1C5	10
WRM3PJOE	1C5	8
WRM3RJOE	1C5	1
WRM3SIOT	1C5	80
WRM4ALIC	1C7	10
WRM4AMWS	1C7	20
WRM4DONE	1C7	8
WRM4E58S	1C7	80
WRM4FAIL	1C7	1
WRM4JLOK	1C7	4
WRM4NQIK	1C7	40
WRM5JODL	1C9	80
WRM5NXST	1C9	40
WRM5RSTR	1C9	20

Chapter 232. $WAVE Information

$WAVE Programming Interface Information

$WAVE is a programming interface.

$WAVE Heading Information

Common Name:	Work Access Verification Element
Macro ID:	$WAVE
DSECT Name:	WAVE
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'WAVE' Offset: WAVEID-WAVE Length: 4
Storage Attributes:	Subpool: 0 (if done as part of $GETWORK); 6 (In JES2 initialization); 229 (At all other times) Key: 1 Residency: Virtual and real storage are anywhere (above or below 16M) in the private storage of the JES2 or the User address spaces.
Size:	See WAVLEN
Created by:	Caller of $SEAS
Pointed to by:	SQDPARM1 field of the $SQD data area if the $SEAS request was issued from the Main Task. PCEWAVE field of the $PCE data area.
Serialization:	None
Function:	The Work Access Verification Element is the parameter list for the $RACROUT routine. It contains the list forms of the RACROUTE request types used by JES2.

$WAVE mapping

Table 564. Structure WAVE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	WAVE	
0	(0)	CHARACTER	4	WAVEID	Control block ID
4	(4)	ADDRESS	1	WAVLEVEL	Control block version
		1		WAVERSN	"X'01'" Control block version equate
5	(5)	BITSTRING	1	WAVEPRIO	Priority of request
6	(6)	BITSTRING	2		Reserved
8	(8)	ADDRESS	4	WAVESQD	Address of SQD
12	(C)	SIGNED	4	WAVRETCD	$RACROUT return code
16	(10)	SIGNED	4	WAVRSNCD	$RACROUT reason code
20	(14)	SIGNED	4	WAVRACRC	RACROUTE service return code
24	(18)	SIGNED	4	WAVRACCD	RACROUTE service reason code

Table 564. Structure WAVE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
28	(1C)	CHARACTER	4	WAVRCBN	Acronym of function related control block
32	(20)	ADDRESS	4	WAVRCBA	Address of function related control block
36	(24)	BITSTRING	1	WAVFUNCD	Function code Exits 36/37
37	(25)	BITSTRING	3		Reserved
40	(28)	ADDRESS	4	WAVJMSKA	Job mask address for Exit 36/37
44	(2C)	BITSTRING	1	WAVEXITP	Exit 36/37 indicators
		1...		WAVXJ2C	"B'10000000'" $SEAS JES2 coder
		.1..		WAVXUSR	"B'01000000'" $SEAS user coder
		..1.		WAVXMSGA	"B'00100000'" Message addr for $HASP077
		...1		WAVXFNCD	"B'00010000'" Function code for $HASP077
45	(2D)	SIGNED	1	WAVREQST	Request indicators
45	(2D)	X'1'	0	WAVRAUTH	"1" RACROUTE REQUEST=AUTH
45	(2D)	X'2'	0	WAVRTBLD	"2" RACROUTE REQUEST=TOKENBLD
45	(2D)	X'3'	0	WAVRTMAP	"3" RACROUTE REQUEST=TOKENMAP
45	(2D)	X'4'	0	WAVRTXTR	"4" RACROUTE REQUEST=TOKENXTR
45	(2D)	X'5'	0	WAVRVFYX	"5" RACROUTE REQUEST=VERIFYX
45	(2D)	X'6'	0	WAVRVFYC	"6" RACROUTE REQUEST=VERIFY CREATE
45	(2D)	X'7'	0	WAVRVFYD	"7" RACROUTE REQUEST=VERIFY DELETE
45	(2D)	X'8'	0	WAVRCMD	"8" CMDAUTH SERVICE
45	(2D)	X'9'	0	WAVRXTRT	"9" RACROUTE REQUEST=EXTRACT
45	(2D)	X'A'	0	WAVRAUD	"10" RACROUTE REQUEST=AUDIT
45	(2D)	X'B'	0	WAVRXTRB	"11" RACROUTE REQUEST=EXTRACT, BRANCH=YES
45	(2D)	X'C'	0	WAVRDIRA	"12" RACROUTE REQUEST=DIRAUTH
46	(2E)	BITSTRING	2		Reserved for future use
48	(30)	SIGNED	4	(0)	
48	(30)	BITSTRING	1	WAVFLAG1	Flags
		1...		WAV1SUBF	"B'10000000'" Subtasked $RACROUT failed
		.1..		WAV1WAIT	"B'01000000'" WAIT=YES requested
		.... ..1.		WAV1NCOD	"B'00000010'" User return code to be used
		1		WAV1BYPS	"B'00000001'" SAF call to be bypassed
49	(31)	BITSTRING	3		Reserved
52	(34)	SIGNED	4	WAVEXTLA	Address of extract list
56	(38)	BITSTRING	4		Reserved
60	(3C)	SIGNED	4	(0)	Align user reserved word
60	(3C)	BITSTRING	4	WAVURSV	Reserved for user
RACROUTE REQUEST=AUTH,MF=L,RELEASE=1.9					
64	(40)	SIGNED	4	WAVRACRP(0)	
64	(40)	X'40'	0	IHB1411A	"*"
64	(40)	SIGNED	4		RACF OR INSTALL EXIT RETURN CODE
68	(44)	SIGNED	4		RACF OR INSTALL EXIT REASON CODE
72	(48)	ADDRESS	2		LENGTH OF LIST IN BYTES
74	(4A)	ADDRESS	1		SET VER/REL FLAG TO 1.9 OR PREV

Table 564. Structure WAVE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
75	(4B)	ADDRESS	1		RESERVED
76	(4C)	ADDRESS	2		REQUEST BYTE
78	(4E)	BITSTRING	1		FLAGS
79	(4F)	ADDRESS	1		MESSAGE SUBPOOL
80	(50)	ADDRESS	4		
84	(54)	ADDRESS	4		
88	(58)	ADDRESS	4		
92	(5C)	ADDRESS	4		MESSAGE RETURN ADDRESS
96	(60)	ADDRESS	4		RESVD
100	(64)	ADDRESS	4		OFFSET TO RACF PARAMETER LIST
104	(68)	SIGNED	4		SAF RETURN CODE
108	(6C)	SIGNED	4		SAF REASON CODE
112	(70)	ADDRESS	2		EXTENSION LENGTH
114	(72)	ADDRESS	2		RESVD
116	(74)	ADDRESS	4		RETURN DATA ADDRESS
120	(78)	ADDRESS	4		FLAT PLIST ADDRESS
124	(7C)	ADDRESS	4		
128	(80)	ADDRESS	4		
132	(84)	ADDRESS	4		PREVIOUS FLAT PLIST ADDRESS
136	(88)	ADDRESS	4		NEXT FLAT PLIST ADDRESS
140	(8C)	ADDRESS	4		ORIGINAL PLIST ADDRESS
144	(90)	SIGNED	4		FLAT PLIST LENGTH
148	(94)	ADDRESS	4		
152	(98)	ADDRESS	4		
156	(9C)	ADDRESS	4		
160	(A0)	ADDRESS	4		ASYNCHRONOUS ECB ADDRESS
164	(A4)	ADDRESS	4		USED IN VM ENVIRONMENT
168	(A8)	SIGNED	4	(0)	
168	(A8)	X'A8'	0	ICH01420	"*"
168	(A8)	ADDRESS	1	IHB1411C	LENGTH OF RACHECK PARAMETER LIST
169	(A9)	ADDRESS	3		
172	(AC)	BITSTRING	1		
173	(AD)	ADDRESS	3		
176	(B0)	BITSTRING	1		
177	(B1)	ADDRESS	3		
180	(B4)	BITSTRING	1		Flag3
181	(B5)	ADDRESS	3		
184	(B8)	ADDRESS	4		- OLD VOLSER ADDR FIELD
188	(BC)	ADDRESS	4		- APPL ADDRESS
192	(C0)	ADDRESS	4		- ACEE ADDRESS
196	(C4)	ADDRESS	4		- OWNER ADDRESS.
200	(C8)	ADDRESS	4		ADDRESS OF INSTALLATION DATA
204	(CC)	ADDRESS	4		ENTITY OR PROFILE ADDRESS FIELD
208	(D0)	ADDRESS	4		CLASS NAME ADDRESS FIELD
212	(D4)	ADDRESS	4		VOLSER ADDR FIELD
216	(D8)	ADDRESS	4		- ACCESS VALUE ADDRESS.
220	(DC)	ADDRESS	4		- 2ND ACCESS ADDRESS.
224	(E0)	ADDRESS	2		FILESEQ
226	(E2)	BITSTRING	1		
227	(E3)	BITSTRING	1		
228	(E4)	ADDRESS	4		- USER NAME ADDRESS
232	(E8)	ADDRESS	4		- GROUP NAME ADDRESS

Table 564. Structure WAVE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
236	(EC)	ADDRESS	4		- DDNAME ADDRESS
240	(F0)	ADDRESS	4		- RESERVED
244	(F4)	ADDRESS	4		- UTOKEN ADDRESS
248	(F8)	ADDRESS	4		- RTOKEN ADDRESS
252	(FC)	ADDRESS	4		- LOGSTR ADDRESS
256	(100)	ADDRESS	4		- RECEIVER ADDRESS
RACROUTE REQUEST=TOKENBLD,MF=L,RELEASE=1.9					
64	(40)	SIGNED	4	(0)	
64	(40)	X'40'	0	IHB1421A	"*"
64	(40)	SIGNED	4		RACF OR INSTALL EXIT RETURN CODE
68	(44)	SIGNED	4		RACF OR INSTALL EXIT REASON CODE
72	(48)	ADDRESS	2		LENGTH OF LIST IN BYTES
74	(4A)	ADDRESS	1		SET VER/REL FLAG TO 1.9 OR PREV
75	(4B)	ADDRESS	1		RESERVED
76	(4C)	ADDRESS	2		REQUEST BYTE
78	(4E)	BITSTRING	1		FLAGS
79	(4F)	ADDRESS	1		MESSAGE SUBPOOL
80	(50)	ADDRESS	4		
84	(54)	ADDRESS	4		
88	(58)	ADDRESS	4		
92	(5C)	ADDRESS	4		MESSAGE RETURN ADDRESS
96	(60)	ADDRESS	4		RESVD
100	(64)	ADDRESS	4		OFFSET TO RACF PARAMETER LIST
104	(68)	SIGNED	4		SAF RETURN CODE
108	(6C)	SIGNED	4		SAF REASON CODE
112	(70)	ADDRESS	2		EXTENSION LENGTH
114	(72)	ADDRESS	2		RESVD
116	(74)	ADDRESS	4		RETURN DATA ADDRESS
120	(78)	ADDRESS	4		FLAT PLIST ADDRESS
124	(7C)	ADDRESS	4		
128	(80)	ADDRESS	4		
132	(84)	ADDRESS	4		PREVIOUS FLAT PLIST ADDRESS
136	(88)	ADDRESS	4		NEXT FLAT PLIST ADDRESS
140	(8C)	ADDRESS	4		ORIGINAL PLIST ADDRESS
144	(90)	SIGNED	4		FLAT PLIST LENGTH
148	(94)	ADDRESS	4		
152	(98)	ADDRESS	4		
156	(9C)	ADDRESS	4		
160	(A0)	ADDRESS	4		ASYNCHRONOUS ECB ADDRESS
164	(A4)	ADDRESS	4		USED IN VM ENVIRONMENT
168	(A8)	SIGNED	4	(0)	
168	(A8)	X'A8'	0	ICH01430	"*"
168	(A8)	ADDRESS	1	IHB1421C	LIST LENGTH
169	(A9)	ADDRESS	1		NO SUBPOOL SPECIFIED
170	(AA)	BITSTRING	1		
171	(AB)	BITSTRING	1		
172	(AC)	ADDRESS	4		- USERID ADDRESS FIELD
176	(B0)	ADDRESS	4		- PASSWORD ADDRESS FIELD
180	(B4)	ADDRESS	4		- PROCEDURE NAME ADDR FIELD
184	(B8)	ADDRESS	4		- INSTALLATION PARAMETERS ADDRESS

Table 564. Structure WAVE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
188	(BC)	ADDRESS	4		- GROUP ADDRESS FIELD
192	(C0)	ADDRESS	4		- NEW PASSWORD ADDRESS FIELD
196	(C4)	ADDRESS	4		- PGMNAME ADDRESS FIELD
200	(C8)	ADDRESS	4		- ACTINFO ADDRESS FIELD
204	(CC)	ADDRESS	4		- OIDCARD ADDRESS FIELD
208	(D0)	ADDRESS	4		- TERMID ADDRESS FIELD
212	(D4)	ADDRESS	4		- JOBNAME ADDRESS FIELD
216	(D8)	ADDRESS	4		- APPL ADDRESS FIELD
220	(DC)	ADDRESS	4		- ACEE ADDRESS FIELD
224	(E0)	ADDRESS	1		SESSION
225	(E1)	BITSTRING	1		FLAG2
226	(E2)	BITSTRING	1		MISC FLAG (INITFLG3)
227	(E3)	ADDRESS	1		FUTURE USE
228	(E4)	ADDRESS	4		- SECLABL ADDRESS FIELD
232	(E8)	ADDRESS	4		- EXENODE ADDRESS FIELD
236	(EC)	ADDRESS	4		- SUSERID ADDRESS FIELD
240	(F0)	ADDRESS	4		- SNODE ADDRESS FIELD
244	(F4)	ADDRESS	4		- SGROUP ADDRESS FIELD
248	(F8)	ADDRESS	4		- POE ADDRESS FIELD
252	(FC)	ADDRESS	4		- INPUT TOKEN ADDRESS
256	(100)	ADDRESS	4		- STOKEN ADDRESS FIELD
260	(104)	ADDRESS	4		- LOGSTR ADDRESS FIELD
264	(108)	ADDRESS	4		- OUTPUT TOKEN ADDRESS
RACROUTE REQUEST=TOKENMAP,MF=L,RELEASE=1.9					
64	(40)	SIGNED	4	(0)	
64	(40)	X'40'	0	IHB1431A	"*"
64	(40)	SIGNED	4		RACF OR INSTALL EXIT RETURN CODE
68	(44)	SIGNED	4		RACF OR INSTALL EXIT REASON CODE
72	(48)	ADDRESS	2		LENGTH OF LIST IN BYTES
74	(4A)	ADDRESS	1		SET VER/REL FLAG TO 1.9 OR PREV
75	(4B)	ADDRESS	1		RESERVED
76	(4C)	ADDRESS	2		REQUEST BYTE
78	(4E)	BITSTRING	1		FLAGS
79	(4F)	ADDRESS	1		MESSAGE SUBPOOL
80	(50)	ADDRESS	4		
84	(54)	ADDRESS	4		
88	(58)	ADDRESS	4		
92	(5C)	ADDRESS	4		MESSAGE RETURN ADDRESS
96	(60)	ADDRESS	4		RESVD
100	(64)	ADDRESS	4		OFFSET TO RACF PARAMETER LIST
104	(68)	SIGNED	4		SAF RETURN CODE
108	(6C)	SIGNED	4		SAF REASON CODE
112	(70)	ADDRESS	2		EXTENSION LENGTH
114	(72)	ADDRESS	2		RESVD
116	(74)	ADDRESS	4		RETURN DATA ADDRESS
120	(78)	ADDRESS	4		FLAT PLIST ADDRESS
124	(7C)	ADDRESS	4		
128	(80)	ADDRESS	4		
132	(84)	ADDRESS	4		PREVIOUS FLAT PLIST ADDRESS
136	(88)	ADDRESS	4		NEXT FLAT PLIST ADDRESS
140	(8C)	ADDRESS	4		ORIGINAL PLIST ADDRESS

Table 564. Structure WAVE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
144	(90)	SIGNED	4		FLAT PLIST LENGTH
148	(94)	ADDRESS	4		
152	(98)	ADDRESS	4		
156	(9C)	ADDRESS	4		
160	(A0)	ADDRESS	4		ASYNCHRONOUS ECB ADDRESS
164	(A4)	ADDRESS	4		USED IN VM ENVIRONMENT
168	(A8)	SIGNED	4	(0)	
168	(A8)	X'A8'	0	ICH01440	"*"
168	(A8)	ADDRESS	4	IHB1431C	- TOKNIN Address
172	(AC)	ADDRESS	4		- ACEE Address
176	(B0)	ADDRESS	4		- TOKNOUT Address
180	(B4)	BITSTRING	1		- Flag byte
181	(B5)	BITSTRING	1		- Reserved
182	(B6)	ADDRESS	2		- TOKENSRV plist len
184	(B8)	BITSTRING	8		- Reserved
192	(C0)	SIGNED	2	ICH1440A(0)	
RACROUTE REQUEST=TOKENXTR,MF=L,RELEASE=1.9					
64	(40)	SIGNED	4	(0)	
64	(40)	X'40'	0	IHB1441A	"*"
64	(40)	SIGNED	4		RACF OR INSTALL EXIT RETURN CODE
68	(44)	SIGNED	4		RACF OR INSTALL EXIT REASON CODE
72	(48)	ADDRESS	2		LENGTH OF LIST IN BYTES
74	(4A)	ADDRESS	1		SET VER/REL FLAG TO 1.9 OR PREV
75	(4B)	ADDRESS	1		RESERVED
76	(4C)	ADDRESS	2		REQUEST BYTE
78	(4E)	BITSTRING	1		FLAGS
79	(4F)	ADDRESS	1		MESSAGE SUBPOOL
80	(50)	ADDRESS	4		
84	(54)	ADDRESS	4		
88	(58)	ADDRESS	4		
92	(5C)	ADDRESS	4		MESSAGE RETURN ADDRESS
96	(60)	ADDRESS	4		RESVD
100	(64)	ADDRESS	4		OFFSET TO RACF PARAMETER LIST
104	(68)	SIGNED	4		SAF RETURN CODE
108	(6C)	SIGNED	4		SAF REASON CODE
112	(70)	ADDRESS	2		EXTENSION LENGTH
114	(72)	ADDRESS	2		RESVD
116	(74)	ADDRESS	4		RETURN DATA ADDRESS
120	(78)	ADDRESS	4		FLAT PLIST ADDRESS
124	(7C)	ADDRESS	4		
128	(80)	ADDRESS	4		
132	(84)	ADDRESS	4		PREVIOUS FLAT PLIST ADDRESS
136	(88)	ADDRESS	4		NEXT FLAT PLIST ADDRESS
140	(8C)	ADDRESS	4		ORIGINAL PLIST ADDRESS
144	(90)	SIGNED	4		FLAT PLIST LENGTH
148	(94)	ADDRESS	4		
152	(98)	ADDRESS	4		
156	(9C)	ADDRESS	4		
160	(A0)	ADDRESS	4		ASYNCHRONOUS ECB ADDRESS
164	(A4)	ADDRESS	4		USED IN VM ENVIRONMENT
168	(A8)	SIGNED	4	(0)	

Table 564. Structure WAVE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
168	(A8)	X'A8'	0	ICH01450	"*"
168	(A8)	ADDRESS	4	IHB1441C	- TOKNIN Address
172	(AC)	ADDRESS	4		- ACEE Address
176	(B0)	ADDRESS	4		- TOKNOUT Address
180	(B4)	BITSTRING	1		- Flag byte
181	(B5)	BITSTRING	1		- Reserved
182	(B6)	ADDRESS	2		- TOKENSRV plist len
184	(B8)	BITSTRING	8		- Reserved
192	(C0)	SIGNED	2	ICH1450A(0)	
RACROUTE REQUEST=VERIFYX,MF=L,RELEASE=1.9					
64	(40)	SIGNED	4	(0)	
64	(40)	X'40'	0	IHB1451A	"*"
64	(40)	SIGNED	4		RACF OR INSTALL EXIT RETURN CODE
68	(44)	SIGNED	4		RACF OR INSTALL EXIT REASON CODE
72	(48)	ADDRESS	2		LENGTH OF LIST IN BYTES
74	(4A)	ADDRESS	1		SET VER/REL FLAG TO 1.9 OR PREV
75	(4B)	ADDRESS	1		RESERVED
76	(4C)	ADDRESS	2		REQUEST BYTE
78	(4E)	BITSTRING	1		FLAGS
79	(4F)	ADDRESS	1		MESSAGE SUBPOOL
80	(50)	ADDRESS	4		
84	(54)	ADDRESS	4		
88	(58)	ADDRESS	4		
92	(5C)	ADDRESS	4		MESSAGE RETURN ADDRESS
96	(60)	ADDRESS	4		RESVD
100	(64)	ADDRESS	4		OFFSET TO RACF PARAMETER LIST
104	(68)	SIGNED	4		SAF RETURN CODE
108	(6C)	SIGNED	4		SAF REASON CODE
112	(70)	ADDRESS	2		EXTENSION LENGTH
114	(72)	ADDRESS	2		RESVD
116	(74)	ADDRESS	4		RETURN DATA ADDRESS
120	(78)	ADDRESS	4		FLAT PLIST ADDRESS
124	(7C)	ADDRESS	4		
128	(80)	ADDRESS	4		
132	(84)	ADDRESS	4		PREVIOUS FLAT PLIST ADDRESS
136	(88)	ADDRESS	4		NEXT FLAT PLIST ADDRESS
140	(8C)	ADDRESS	4		ORIGINAL PLIST ADDRESS
144	(90)	SIGNED	4		FLAT PLIST LENGTH
148	(94)	ADDRESS	4		
152	(98)	ADDRESS	4		
156	(9C)	ADDRESS	4		
160	(A0)	ADDRESS	4		ASYNCHRONOUS ECB ADDRESS
164	(A4)	ADDRESS	4		USED IN VM ENVIRONMENT
168	(A8)	SIGNED	4	(0)	
168	(A8)	X'A8'	0	ICH01460	"*"
168	(A8)	ADDRESS	1	IHB1451C	LIST LENGTH
169	(A9)	ADDRESS	1		NO SUBPOOL SPECIFIED
170	(AA)	BITSTRING	1		
171	(AB)	BITSTRING	1		
172	(AC)	ADDRESS	4		- USERID ADDRESS FIELD
176	(B0)	ADDRESS	4		- PASSWORD ADDRESS FIELD

Table 564. Structure WAVE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
180	(B4)	ADDRESS	4		- PROCEDURE NAME ADDR FIELD
184	(B8)	ADDRESS	4		- INSTALLATION PARAMETERS ADDRESS
188	(BC)	ADDRESS	4		- GROUP ADDRESS FIELD
192	(C0)	ADDRESS	4		- NEW PASSWORD ADDRESS FIELD
196	(C4)	ADDRESS	4		- PGMNAME ADDRESS FIELD
200	(C8)	ADDRESS	4		- ACTINFO ADDRESS FIELD
204	(CC)	ADDRESS	4		- OIDCARD ADDRESS FIELD
208	(D0)	ADDRESS	4		- TERMID ADDRESS FIELD
212	(D4)	ADDRESS	4		- JOBNAME ADDRESS FIELD
216	(D8)	ADDRESS	4		- APPL ADDRESS FIELD
220	(DC)	ADDRESS	4		- ACEE ADDRESS FIELD
224	(E0)	ADDRESS	1		SESSION
225	(E1)	BITSTRING	1		FLAG2
226	(E2)	BITSTRING	1		MISC FLAG (INITFLG3)
227	(E3)	ADDRESS	1		FUTURE USE
228	(E4)	ADDRESS	4		- SECLABL ADDRESS FIELD
232	(E8)	ADDRESS	4		- EXENODE ADDRESS FIELD
236	(EC)	ADDRESS	4		- SUSERID ADDRESS FIELD
240	(F0)	ADDRESS	4		- SNODE ADDRESS FIELD
244	(F4)	ADDRESS	4		- SGROUP ADDRESS FIELD
248	(F8)	ADDRESS	4		- POE ADDRESS FIELD
252	(FC)	ADDRESS	4		- INPUT TOKEN ADDRESS
256	(100)	ADDRESS	4		- STOKEN ADDRESS FIELD
260	(104)	ADDRESS	4		- LOGSTR ADDRESS FIELD
264	(108)	ADDRESS	4		- OUTPUT TOKEN ADDRESS
RACROUTE REQUEST=VERIFY,ENVIR=CREATE,MF=L,RELEASE=1.9					
64	(40)	SIGNED	4	(0)	
64	(40)	X'40'	0	IHB1461A	"*"
64	(40)	SIGNED	4		RACF OR INSTALL EXIT RETURN CODE
68	(44)	SIGNED	4		RACF OR INSTALL EXIT REASON CODE
72	(48)	ADDRESS	2		LENGTH OF LIST IN BYTES
74	(4A)	ADDRESS	1		SET VER/REL FLAG TO 1.9 OR PREV
75	(4B)	ADDRESS	1		RESERVED
76	(4C)	ADDRESS	2		REQUEST BYTE
78	(4E)	BITSTRING	1		FLAGS
79	(4F)	ADDRESS	1		MESSAGE SUBPOOL
80	(50)	ADDRESS	4		
84	(54)	ADDRESS	4		
88	(58)	ADDRESS	4		
92	(5C)	ADDRESS	4		MESSAGE RETURN ADDRESS
96	(60)	ADDRESS	4		RESVD
100	(64)	ADDRESS	4		OFFSET TO RACF PARAMETER LIST
104	(68)	SIGNED	4		SAF RETURN CODE
108	(6C)	SIGNED	4		SAF REASON CODE
112	(70)	ADDRESS	2		EXTENSION LENGTH
114	(72)	ADDRESS	2		RESVD
116	(74)	ADDRESS	4		RETURN DATA ADDRESS
120	(78)	ADDRESS	4		FLAT PLIST ADDRESS
124	(7C)	ADDRESS	4		
128	(80)	ADDRESS	4		

Table 564. Structure WAVE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
132	(84)	ADDRESS	4		PREVIOUS FLAT PLIST ADDRESS
136	(88)	ADDRESS	4		NEXT FLAT PLIST ADDRESS
140	(8C)	ADDRESS	4		ORIGINAL PLIST ADDRESS
144	(90)	SIGNED	4		FLAT PLIST LENGTH
148	(94)	ADDRESS	4		
152	(98)	ADDRESS	4		
156	(9C)	ADDRESS	4		
160	(A0)	ADDRESS	4		ASYNCHRONOUS ECB ADDRESS
164	(A4)	ADDRESS	4		USED IN VM ENVIRONMENT
168	(A8)	SIGNED	4	(0)	
168	(A8)	X'A8'	0	ICH01470	"*"
168	(A8)	ADDRESS	1	IHB1461C	LIST LENGTH
169	(A9)	ADDRESS	1		NO SUBPOOL SPECIFIED
170	(AA)	BITSTRING	1		
171	(AB)	BITSTRING	1		
172	(AC)	ADDRESS	4		- USERID ADDRESS FIELD
176	(B0)	ADDRESS	4		- PASSWORD ADDRESS FIELD
180	(B4)	ADDRESS	4		- PROCEDURE NAME ADDR FIELD
184	(B8)	ADDRESS	4		- INSTALLATION PARAMETERS ADDRESS
188	(BC)	ADDRESS	4		- GROUP ADDRESS FIELD
192	(C0)	ADDRESS	4		- NEW PASSWORD ADDRESS FIELD
196	(C4)	ADDRESS	4		- PGMNAME ADDRESS FIELD
200	(C8)	ADDRESS	4		- ACTINFO ADDRESS FIELD
204	(CC)	ADDRESS	4		- OIDCARD ADDRESS FIELD
208	(D0)	ADDRESS	4		- TERMID ADDRESS FIELD
212	(D4)	ADDRESS	4		- JOBNAME ADDRESS FIELD
216	(D8)	ADDRESS	4		- APPL ADDRESS FIELD
220	(DC)	ADDRESS	4		- ACEE ADDRESS FIELD
224	(E0)	ADDRESS	1		SESSION
225	(E1)	BITSTRING	1		FLAG2
226	(E2)	BITSTRING	1		MISC FLAG (INITFLG3)
227	(E3)	ADDRESS	1		FUTURE USE
228	(E4)	ADDRESS	4		- SECLABL ADDRESS FIELD
232	(E8)	ADDRESS	4		- EXENODE ADDRESS FIELD
236	(EC)	ADDRESS	4		- SUSERID ADDRESS FIELD
240	(F0)	ADDRESS	4		- SNODE ADDRESS FIELD
244	(F4)	ADDRESS	4		- SGROUP ADDRESS FIELD
248	(F8)	ADDRESS	4		- POE ADDRESS FIELD
252	(FC)	ADDRESS	4		- INPUT TOKEN ADDRESS
256	(100)	ADDRESS	4		- STOKEN ADDRESS FIELD
260	(104)	ADDRESS	4		- LOGSTR ADDRESS FIELD
264	(108)	ADDRESS	4		- OUTPUT TOKEN ADDRESS
RACROUTE REQUEST=VERIFY,ENVIR=DELETE,MF=L,RELEASE=1.9					
64	(40)	SIGNED	4	(0)	
64	(40)	X'40'	0	IHB1471A	"*"
64	(40)	SIGNED	4		RACF OR INSTALL EXIT RETURN CODE
68	(44)	SIGNED	4		RACF OR INSTALL EXIT REASON CODE
72	(48)	ADDRESS	2		LENGTH OF LIST IN BYTES
74	(4A)	ADDRESS	1		SET VER/REL FLAG TO 1.9 OR PREV
75	(4B)	ADDRESS	1		RESERVED

Table 564. Structure WAVE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
76	(4C)	ADDRESS	2		REQUEST BYTE
78	(4E)	BITSTRING	1		FLAGS
79	(4F)	ADDRESS	1		MESSAGE SUBPOOL
80	(50)	ADDRESS	4		
84	(54)	ADDRESS	4		
88	(58)	ADDRESS	4		
92	(5C)	ADDRESS	4		MESSAGE RETURN ADDRESS
96	(60)	ADDRESS	4		RESVD
100	(64)	ADDRESS	4		OFFSET TO RACF PARAMETER LIST
104	(68)	SIGNED	4		SAF RETURN CODE
108	(6C)	SIGNED	4		SAF REASON CODE
112	(70)	ADDRESS	2		EXTENSION LENGTH
114	(72)	ADDRESS	2		RESVD
116	(74)	ADDRESS	4		RETURN DATA ADDRESS
120	(78)	ADDRESS	4		FLAT PLIST ADDRESS
124	(7C)	ADDRESS	4		
128	(80)	ADDRESS	4		
132	(84)	ADDRESS	4		PREVIOUS FLAT PLIST ADDRESS
136	(88)	ADDRESS	4		NEXT FLAT PLIST ADDRESS
140	(8C)	ADDRESS	4		ORIGINAL PLIST ADDRESS
144	(90)	SIGNED	4		FLAT PLIST LENGTH
148	(94)	ADDRESS	4		
152	(98)	ADDRESS	4		
156	(9C)	ADDRESS	4		
160	(A0)	ADDRESS	4		ASYNCHRONOUS ECB ADDRESS
164	(A4)	ADDRESS	4		USED IN VM ENVIRONMENT
168	(A8)	SIGNED	4	(0)	
168	(A8)	X'A8'	0	ICH01480	"*"
168	(A8)	ADDRESS	1	IHB1471C	LIST LENGTH
169	(A9)	ADDRESS	1		NO SUBPOOL SPECIFIED
170	(AA)	BITSTRING	1		
171	(AB)	BITSTRING	1		
172	(AC)	ADDRESS	4		- USERID ADDRESS FIELD
176	(B0)	ADDRESS	4		- PASSWORD ADDRESS FIELD
180	(B4)	ADDRESS	4		- PROCEDURE NAME ADDR FIELD
184	(B8)	ADDRESS	4		- INSTALLATION PARAMETERS ADDRESS
188	(BC)	ADDRESS	4		- GROUP ADDRESS FIELD
192	(C0)	ADDRESS	4		- NEW PASSWORD ADDRESS FIELD
196	(C4)	ADDRESS	4		- PGMNAME ADDRESS FIELD
200	(C8)	ADDRESS	4		- ACTINFO ADDRESS FIELD
204	(CC)	ADDRESS	4		- OIDCARD ADDRESS FIELD
208	(D0)	ADDRESS	4		- TERMID ADDRESS FIELD
212	(D4)	ADDRESS	4		- JOBNAME ADDRESS FIELD
216	(D8)	ADDRESS	4		- APPL ADDRESS FIELD
220	(DC)	ADDRESS	4		- ACEE ADDRESS FIELD
224	(E0)	ADDRESS	1		SESSION
225	(E1)	BITSTRING	1		FLAG2
226	(E2)	BITSTRING	1		MISC FLAG (INITFLG3)
227	(E3)	ADDRESS	1		FUTURE USE
228	(E4)	ADDRESS	4		- SECLABL ADDRESS FIELD
232	(E8)	ADDRESS	4		- EXENODE ADDRESS FIELD

Table 564. Structure WAVE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
236	(EC)	ADDRESS	4		- SUSERID ADDRESS FIELD
240	(F0)	ADDRESS	4		- SNODE ADDRESS FIELD
244	(F4)	ADDRESS	4		- SGROUP ADDRESS FIELD
248	(F8)	ADDRESS	4		- POE ADDRESS FIELD
252	(FC)	ADDRESS	4		- INPUT TOKEN ADDRESS
256	(100)	ADDRESS	4		- STOKEN ADDRESS FIELD
260	(104)	ADDRESS	4		- LOGSTR ADDRESS FIELD
264	(108)	ADDRESS	4		- OUTPUT TOKEN ADDRESS
RACROUTE REQUEST=EXTRACT,TYPE=EXTRACT,MF=L,RELEASE=1.9					
64	(40)	SIGNED	4	(0)	
64	(40)	X'40'	0	IHB1481A	"*"
64	(40)	SIGNED	4		RACF OR INSTALL EXIT RETURN CODE
68	(44)	SIGNED	4		RACF OR INSTALL EXIT REASON CODE
72	(48)	ADDRESS	2		LENGTH OF LIST IN BYTES
74	(4A)	ADDRESS	1		SET VER/REL FLAG TO 1.9 OR PREV
75	(4B)	ADDRESS	1		RESERVED
76	(4C)	ADDRESS	2		REQUEST BYTE
78	(4E)	BITSTRING	1		FLAGS
79	(4F)	ADDRESS	1		MESSAGE SUBPOOL
80	(50)	ADDRESS	4		
84	(54)	ADDRESS	4		
88	(58)	ADDRESS	4		
92	(5C)	ADDRESS	4		MESSAGE RETURN ADDRESS
96	(60)	ADDRESS	4		RESVD
100	(64)	ADDRESS	4		OFFSET TO RACF PARAMETER LIST
104	(68)	SIGNED	4		SAF RETURN CODE
108	(6C)	SIGNED	4		SAF REASON CODE
112	(70)	ADDRESS	2		EXTENSION LENGTH
114	(72)	ADDRESS	2		RESVD
116	(74)	ADDRESS	4		RETURN DATA ADDRESS
120	(78)	ADDRESS	4		FLAT PLIST ADDRESS
124	(7C)	ADDRESS	4		
128	(80)	ADDRESS	4		
132	(84)	ADDRESS	4		PREVIOUS FLAT PLIST ADDRESS
136	(88)	ADDRESS	4		NEXT FLAT PLIST ADDRESS
140	(8C)	ADDRESS	4		ORIGINAL PLIST ADDRESS
144	(90)	SIGNED	4		FLAT PLIST LENGTH
148	(94)	ADDRESS	4		
152	(98)	ADDRESS	4		
156	(9C)	ADDRESS	4		
160	(A0)	ADDRESS	4		ASYNCHRONOUS ECB ADDRESS
164	(A4)	ADDRESS	4		USED IN VM ENVIRONMENT
168	(A8)	SIGNED	4	(0)	
168	(A8)	SIGNED	4	IHB1481C(0)	
168	(A8)	SIGNED	4	ICH1490A(0)	
168	(A8)	ADDRESS	2		LENGTH OF LIST IN BYTES
170	(AA)	BITSTRING	1		FUNCTION CODE FOR ICHRSV00
171	(AB)	ADDRESS	1		REQUEST TYPE
172	(AC)	ADDRESS	1		VERSION NUMBER
173	(AD)	BITSTRING	1		
174	(AE)	ADDRESS	2		OFFSET TO VARIABLE PART OF LIST

Table 564. Structure WAVE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
176	(B0)	ADDRESS	4		
176	(B0)	X'B4'	0	ICH1490B	"*" END OF FIXED PART
180	(B4)	ADDRESS	4		
184	(B8)	ADDRESS	4		
188	(BC)	ADDRESS	4		
192	(C0)	ADDRESS	4		
196	(C4)	ADDRESS	4		
200	(C8)	ADDRESS	4		
204	(CC)	ADDRESS	4		
208	(D0)	ADDRESS	2		RESERVED
210	(D2)	BITSTRING	1		
211	(D3)	BITSTRING	1		
212	(D4)	SIGNED	2	ICH1490C(0)	END OF PARAMETER LIST
212	(D4)	SIGNED	2	ICH1490D(0)	
RACROUTE REQUEST=EXTRACT,TYPE=EXTRACT,BRANCH=YES, MF=L,RELEASE=1.9					
64	(40)	SIGNED	4	(0)	
64	(40)	X'40'	0	IHB1499A	"*"
64	(40)	SIGNED	4		RACF OR INSTALL EXIT RETURN CODE
68	(44)	SIGNED	4		RACF OR INSTALL EXIT REASON CODE
72	(48)	ADDRESS	2		LENGTH OF LIST IN BYTES
74	(4A)	ADDRESS	1		SET VER/REL FLAG TO 1.9 OR PREV
75	(4B)	ADDRESS	1		RESERVED
76	(4C)	ADDRESS	2		REQUEST BYTE
78	(4E)	BITSTRING	1		FLAGS
79	(4F)	ADDRESS	1		MESSAGE SUBPOOL
80	(50)	ADDRESS	4		
84	(54)	ADDRESS	4		
88	(58)	ADDRESS	4		
92	(5C)	ADDRESS	4		MESSAGE RETURN ADDRESS
96	(60)	ADDRESS	4		RESVD
100	(64)	ADDRESS	4		OFFSET TO RACF PARAMETER LIST
104	(68)	SIGNED	4		SAF RETURN CODE
108	(6C)	SIGNED	4		SAF REASON CODE
112	(70)	ADDRESS	2		EXTENSION LENGTH
114	(72)	ADDRESS	2		RESVD
116	(74)	ADDRESS	4		RETURN DATA ADDRESS
120	(78)	ADDRESS	4		FLAT PLIST ADDRESS
124	(7C)	ADDRESS	4		
128	(80)	ADDRESS	4		
132	(84)	ADDRESS	4		PREVIOUS FLAT PLIST ADDRESS
136	(88)	ADDRESS	4		NEXT FLAT PLIST ADDRESS
140	(8C)	ADDRESS	4		ORIGINAL PLIST ADDRESS
144	(90)	SIGNED	4		FLAT PLIST LENGTH
148	(94)	ADDRESS	4		
152	(98)	ADDRESS	4		
156	(9C)	ADDRESS	4		
160	(A0)	ADDRESS	4		ASYNCHRONOUS ECB ADDRESS
164	(A4)	ADDRESS	4		USED IN VM ENVIRONMENT
168	(A8)	SIGNED	4	(0)	
168	(A8)	SIGNED	4	IHB1499C(0)	

Table 564. Structure WAVE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
168	(A8)	SIGNED	4	ICH1508A(0)	
168	(A8)	ADDRESS	2		LENGTH OF LIST IN BYTES
170	(AA)	BITSTRING	1		FUNCTION CODE FOR ICHRSV00
171	(AB)	ADDRESS	1		REQUEST TYPE
172	(AC)	ADDRESS	1		VERSION NUMBER
173	(AD)	BITSTRING	1		
174	(AE)	ADDRESS	2		OFFSET TO VARIABLE PART OF LIST
176	(B0)	ADDRESS	4		
176	(B0)	X'B4'	0	ICH1508B	"*" END OF FIXED PART
180	(B4)	ADDRESS	4		
184	(B8)	ADDRESS	4		
188	(BC)	ADDRESS	4		
192	(C0)	ADDRESS	4		
196	(C4)	ADDRESS	4		
200	(C8)	ADDRESS	4		
204	(CC)	ADDRESS	4		
208	(D0)	ADDRESS	2		RESERVED
210	(D2)	BITSTRING	1		
211	(D3)	BITSTRING	1		
212	(D4)	SIGNED	2	ICH1508C(0)	END OF PARAMETER LIST
212	(D4)	SIGNED	2	ICH1508D(0)	
RACROUTE REQUEST=AUDIT,MF=L,RELEASE=1.9					
64	(40)	SIGNED	4	(0)	
64	(40)	X'40'	0	IHB1517A	"*"
64	(40)	SIGNED	4		RACF OR INSTALL EXIT RETURN CODE
68	(44)	SIGNED	4		RACF OR INSTALL EXIT REASON CODE
72	(48)	ADDRESS	2		LENGTH OF LIST IN BYTES
74	(4A)	ADDRESS	1		SET VER/REL FLAG TO 1.9 OR PREV
75	(4B)	ADDRESS	1		RESERVED
76	(4C)	ADDRESS	2		REQUEST BYTE
78	(4E)	BITSTRING	1		FLAGS
79	(4F)	ADDRESS	1		MESSAGE SUBPOOL
80	(50)	ADDRESS	4		
84	(54)	ADDRESS	4		
88	(58)	ADDRESS	4		
92	(5C)	ADDRESS	4		MESSAGE RETURN ADDRESS
96	(60)	ADDRESS	4		RESVD
100	(64)	ADDRESS	4		OFFSET TO RACF PARAMETER LIST
104	(68)	SIGNED	4		SAF RETURN CODE
108	(6C)	SIGNED	4		SAF REASON CODE
112	(70)	ADDRESS	2		EXTENSION LENGTH
114	(72)	ADDRESS	2		RESVD
116	(74)	ADDRESS	4		RETURN DATA ADDRESS
120	(78)	ADDRESS	4		FLAT PLIST ADDRESS
124	(7C)	ADDRESS	4		
128	(80)	ADDRESS	4		
132	(84)	ADDRESS	4		PREVIOUS FLAT PLIST ADDRESS
136	(88)	ADDRESS	4		NEXT FLAT PLIST ADDRESS
140	(8C)	ADDRESS	4		ORIGINAL PLIST ADDRESS
144	(90)	SIGNED	4		FLAT PLIST LENGTH
148	(94)	ADDRESS	4		

Table 564. Structure WAVE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
152	(98)	ADDRESS	4		
156	(9C)	ADDRESS	4		
160	(A0)	ADDRESS	4		ASYNCHRONOUS ECB ADDRESS
164	(A4)	ADDRESS	4		USED IN VM ENVIRONMENT
168	(A8)	SIGNED	4	IHB1517C(0)	START OF RACAUDIT PLIST
168	(A8)	ADDRESS	2	ICH1526B	VERSION
170	(AA)	ADDRESS	2		LENGTH
172	(AC)	ADDRESS	4		
176	(B0)	ADDRESS	2		EVENT QUALIFIER
178	(B2)	ADDRESS	2		RESERVED
180	(B4)	ADDRESS	4		
184	(B8)	ADDRESS	4		
188	(BC)	ADDRESS	4		
192	(C0)	ADDRESS	4		
196	(C4)	ADDRESS	1		RESULT BYTE
197	(C5)	ADDRESS	3		RESERVED
200	(C8)	SIGNED	4	(4)	RESERVED
216	(D8)	SIGNED	2	ICH1526F(0)	END OF RACAUDIT PLIST
RACROUTE REQUEST=DIRAUTH,RESCSECLABEL=, RELEASE=7740,MF=L					
64	(40)	SIGNED	4	(0)	
64	(40)	X'40'	0	IHB1532A	"*"
64	(40)	SIGNED	4		RACF OR INSTALL EXIT RETURN CODE
68	(44)	SIGNED	4		RACF OR INSTALL EXIT REASON CODE
72	(48)	ADDRESS	2		LENGTH OF LIST IN BYTES
74	(4A)	ADDRESS	1		SET VER/REL FLAG TO 7740
75	(4B)	ADDRESS	1		RESERVED
76	(4C)	ADDRESS	2		REQUEST BYTE
78	(4E)	BITSTRING	1		FLAGS
79	(4F)	ADDRESS	1		MESSAGE SUBPOOL
80	(50)	ADDRESS	4		
84	(54)	ADDRESS	4		
88	(58)	ADDRESS	4		
92	(5C)	ADDRESS	4		MESSAGE RETURN ADDRESS
96	(60)	ADDRESS	4		RESVD
100	(64)	ADDRESS	4		OFFSET TO RACF PARAMETER LIST
104	(68)	SIGNED	4		SAF RETURN CODE
108	(6C)	SIGNED	4		SAF REASON CODE
112	(70)	ADDRESS	2		EXTENSION LENGTH
114	(72)	ADDRESS	2		RESVD
116	(74)	ADDRESS	4		RETURN DATA ADDRESS
120	(78)	ADDRESS	4		FLAT PLIST ADDRESS
124	(7C)	ADDRESS	4		
128	(80)	ADDRESS	4		
132	(84)	ADDRESS	4		PREVIOUS FLAT PLIST ADDRESS
136	(88)	ADDRESS	4		NEXT FLAT PLIST ADDRESS
140	(8C)	ADDRESS	4		ORIGINAL PLIST ADDRESS
144	(90)	SIGNED	4		FLAT PLIST LENGTH
148	(94)	ADDRESS	4		
152	(98)	ADDRESS	4		
156	(9C)	ADDRESS	4		

Table 564. Structure WAVE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
160	(A0)	ADDRESS	4		ASYNCHRONOUS ECB ADDRESS
164	(A4)	ADDRESS	4		USED IN VM ENVIRONMENT
168	(A8)	SIGNED	4	(0)	
168	(A8)	X'A8'	0	ICH01541	"*"
168	(A8)	BITSTRING	1	IHB1532C	LOG value
169	(A9)	ADDRESS	1		Parmlist version
170	(AA)	ADDRESS	2		Parmlist length
172	(AC)	ADDRESS	4		- RTOKEN Address
176	(B0)	BITSTRING	1		TYPE Value
177	(B1)	BITSTRING	1		ACCESS Value
178	(B2)	BITSTRING	1	(2)	Reserved
180	(B4)	ADDRESS	4		Classname address
184	(B8)	ADDRESS	4		RESCSECLABEL address
188	(BC)	ADDRESS	4		USERSECLABEL address
192	(C0)	ADDRESS	4		ACEE address
196	(C4)	ADDRESS	4		ACEEALET address
200	(C8)	ADDRESS	4		LOGSTR address
268	(10C)	X'CC'	0	WAVRACLN	"*-WAVRACRP" Length of longest parmlist
		Parameters for use with CMDAUTH Parm area used with $SEAS call			
64	(40)	SIGNED	4	(0)	
64	(40)	ADDRESS	4	WAVCCRN	Command Resource Name addr
68	(44)	ADDRESS	4	WAVCTKN	ToKeN addr of cmd issuer
72	(48)	ADDRESS	4	WAVCTXT	Addr of command TeXT (preceded by a one byte length field
76	(4C)	ADDRESS	4	WAVCSSCM	Addr of SSCM
80	(50)	ADDRESS	4	WAVCARTA	Addr of command CART
84	(54)	BITSTRING	1	WAVCACL	Command ACess Level
		.... 1...		WAVCNTRL	"B'00001000'" Control (system)
		.... .1..		WAVCUPD	"B'00000100'" Update (job, device)
		.... ..1.		WAVCREAD	"B'00000010'" Read (display)
85	(55)	BITSTRING	3		Reserved
88	(58)	SIGNED	4	WAVCUCMI	UCMID of console responsible for issuing the command
92	(5C)	ADDRESS	4	WAVCMSG	Address of message list (if any) returned by CMDAUTH
		List form of CMDAUTH used when calling CMDAUTH Generated label on equate for length will be WAVCALN CMDAUTH MF=(L,WAVCA,NODSECT)			
96	(60)	SIGNED	4	WAVCA(0)	-Parameter list
96	(60)	CHARACTER	4	WAVCA01	-'CAPL ' acronym
100	(64)	BITSTRING	1	WAVCA02	-Version level
101	(65)	BITSTRING	1	WAVCA03	-Security access level
102	(66)	BITSTRING	1	WAVCA04	-Miscellaneous flags
103	(67)	BITSTRING	1	WAVCA05	-Control block type
104	(68)	SIGNED	4	WAVCA06	-Subpool number for security interface
108	(6C)	ADDRESS	4	WAVCA07	-Address of requestor identifier
112	(70)	ADDRESS	4	WAVCA08	-Address of subsystem identifier

Table 564. Structure WAVE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
116	(74)	ADDRESS	4	WAVCA09	-Address of user specified control block
120	(78)	ADDRESS	4	WAVCA10	-Address of logstring
124	(7C)	ADDRESS	4	WAVCA11	-Address of entity name
128	(80)	CHARACTER	12	WAVCA12	-Reserved
128	(80)	X'2C'	0	WAVCALN	"*-WAVCA" -Length of parameter list
268	(10C)	CHARACTER	512	WAVRRWK	RACROUTE work area
		The WAVRSRCN is used to build various resource names for SAF calls that may extend beyond 53 bytes. (Note that the JESSPOOL resource name is limited to 53 bytes.			
780	(30C)	SIGNED	2	WAVRNAMS(0)	
780	(30C)	CHARACTER	53	WAVRSRCN(0)	Max. resource name length
780	(30C)	CHARACTER	8	WAVRNODE	Nodename portion
788	(314)	CHARACTER	1	WAVRSEP1	separator
789	(315)	CHARACTER	44	WAVRDSNM	DSNAME portion
789	(315)	X'35'	0	WAVRSRCL	"*-WAVRSRCN" Resource name length
780	(30C)	CHARACTER	53	WAVRJNAM	JESSPOOL Resource name
780	(30C)	CHARACTER	63	WAVRINAM	ISFAUTH Resource name
780	(30C)	CHARACTER	8	WAVRDCLS	DCT SECLABEL extract class
788	(314)	CHARACTER	39	WAVRDNAM	and resource name
780	(30C)	CHARACTER	8	WAVSECLB	Seclabel for DIRAUTH
848	(350)	DBL WORD	8	WAVEND(0)	Ensure WAVE ends on a dblw
848	(350)	X'350'	0	WAVLEN	"WAVEND-WAVE" Length of WAVE

Table 565. Cross Reference for $WAVE

Name	Offset	Hex Tag
ICH01420	A8	A8
ICH01430	A8	A8
ICH01440	A8	A8
ICH01450	A8	A8
ICH01460	A8	A8
ICH01470	A8	A8
ICH01480	A8	A8
ICH01541	A8	A8
ICH1440A	C0	
ICH1450A	C0	
ICH1490A	A8	
ICH1490B	B0	B4
ICH1490C	D4	
ICH1490D	D4	
ICH1508A	A8	
ICH1508B	B0	B4
ICH1508C	D4	
ICH1508D	D4	
ICH1526B	A8	
ICH1526F	D8	

Table 565. Cross Reference for $WAVE (continued)

Name	Offset	Hex Tag
IHB1411A	40	40
IHB1411C	A8	
IHB1421A	40	40
IHB1421C	A8	
IHB1431A	40	40
IHB1431C	A8	
IHB1441A	40	40
IHB1441C	A8	
IHB1451A	40	40
IHB1451C	A8	
IHB1461A	40	40
IHB1461C	A8	
IHB1471A	40	40
IHB1471C	A8	
IHB1481A	40	40
IHB1481C	A8	
IHB1499A	40	40
IHB1499C	A8	
IHB1517A	40	40
IHB1517C	A8	
IHB1532A	40	40
IHB1532C	A8	80
WAVCA	60	
WAVCACL	54	
WAVCALN	80	2C
WAVCARTA	50	
WAVCA01	60	
WAVCA02	64	
WAVCA03	65	
WAVCA04	66	
WAVCA05	67	
WAVCA06	68	
WAVCA07	6C	
WAVCA08	70	
WAVCA09	74	
WAVCA10	78	
WAVCA11	7C	
WAVCA12	80	
WAVCCRN	40	
WAVCMSG	5C	
WAVCNTRL	54	8
WAVCREAD	54	2
WAVCSSCM	4C	
WAVCTKN	44	
WAVCTXT	48	
WAVCUCMI	58	
WAVCUPD	54	4
WAVE	0	
WAVEID	0	E6C1E5C5

Table 565. Cross Reference for $WAVE (continued)

Name	Offset	Hex Tag
WAVEND	350	
WAVEPRIO	5	
WAVERSN	4	1
WAVESQD	8	
WAVEXITP	2C	
WAVEXTLA	34	
WAVFLAG1	30	
WAVFUNCD	24	
WAVJMSKA	28	
WAVLEN	350	350
WAVLEVEL	4	
WAVRACCD	18	
WAVRACLN	10C	CC
WAVRACRC	14	
WAVRACRP	40	
WAVRAUD	2D	A
WAVRAUTH	2D	1
WAVRCBA	20	
WAVRCBN	1C	
WAVRCMD	2D	8
WAVRDCLS	30C	
WAVRDIRA	2D	C
WAVRDNAM	314	
WAVRDSNM	315	
WAVREQST	2D	
WAVRETCD	C	
WAVRINAM	30C	
WAVRJNAM	30C	
WAVRNAMS	30C	
WAVRNODE	30C	
WAVRRWK	10C	
WAVRSEP1	314	
WAVRSNCD	10	
WAVRSRCL	315	35
WAVRSRCN	30C	
WAVRTBLD	2D	2
WAVRTMAP	2D	3
WAVRTXTR	2D	4
WAVRVFYC	2D	6
WAVRVFYD	2D	7
WAVRVFYX	2D	5
WAVRXTRB	2D	B
WAVRXTRT	2D	9
WAVSECLB	30C	
WAVURSV	3C	
WAVXFNCD	2C	10
WAVXJ2C	2C	80
WAVXMSGA	2C	20
WAVXUSR	2C	40

Table 565. Cross Reference for $WAVE (continued)

Name	Offset	Hex Tag
WAV1BYPS	30	1
WAV1NCOD	30	2
WAV1SUBF	30	80
WAV1WAIT	30	40

Chapter 233. $WLMD Information

$WLMD Programming Interface Information

$WLMD is a programming interface.

$WLMD Heading Information

Common Name:	Work Load Manager Data Bundle
Macro ID:	$WLMD
DSECT Name:	WLMD
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	WLMD Offset: WLMID Length: L'WLMID
Storage Attributes:	Subpool: 0 Key: 1 Residency: Anywhere
Size:	See WLMSIZE
Created by:	HASPIRDA
Pointed to by:	$WLMDATA of the HCT
Serialization:	None required
Function:	Container for WLM related data areas used for communicating with Work Load Manager

$WLMD mapping

Table 566. Structure WLMD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	WLMD	
0	(0)	CHARACTER	4	WLMID	Eye catcher
4	(4)	BITSTRING	4	WLMCONN	WLM connect token
		WLMSVDEF has a value of all FFs if the JESplex is using a WLM default service definition on each member.			
8	(8)	BITSTRING	32	WLMSVDEF	WLM service definition ID from the JES2 CKPT
40	(28)	BITSTRING	32	WLMCURSV	WLM service definition ID for this system (from WLM)
72	(48)	BITSTRING	32	WLMCKVSV	WLM service definition ID for checkpoint version
104	(68)	CHARACTER	16	WLMJTOK	Our Sysplex wide unique WLM token
120	(78)	BITSTRING	1	WLMFLAG1	Flags
		1...		WLM1DEF	"B'10000000'" WLMCURSV is a WLM default
121	(79)	BITSTRING	3		Reserved for future use

Table 566. Structure WLMD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Work areas used by JOBQSAMP to collect sampling data to pass to WLM. JOBQSAMP is called under the checkpoint version subtask and these fields are for use only by that service.			
124	(7C)	ADDRESS	4	WLMJSDSR	Address of IAZDSERV area
128	(80)	ADDRESS	4	WLMJSBQS	Address of IRABQS area
132	(84)	SIGNED	4	WLMJBQSZ	Size of DSERV/BQS/DJB
136	(88)	ADDRESS	4	WLMJSWRK	Work area address
140	(8C)	SIGNED	4	WLMJSWLN	Work area length
		Work areas used by WLMGOALS and QGET for initiator balancing			
144	(90)	SIGNED	4	WLMGSAFF(0)	Number of single-affinity jobs each member
272	(110)	SIGNED	4	WLMGMAFF(0)	Number of multi-affinity jobs each member
272	(110)	X'90'	0	WLMGCOUN	"WLMGSAFF,*-WLMGSAFF" Composite of all counters
400	(190)	BITSTRING	1	WLMGFLG1	Flags
		.1..		WLMG1PSX	"B'01000000'" $POSTXEQ required
		..1.		WLMG1SM	"B'00100000'" This is single member MAS
		...1		WLMG1DST	"B'00010000'" $DISTERR was done once
404	(194)	SIGNED	4	WLMGSTON(0)	Stolen counts for current QGET
532	(214)	SIGNED	2	WLMGMAFG	Multi-Aff goal current QGET
534	(216)	SIGNED	2	WLMASID	WLM ASIDfor future use
536	(218)	ADDRESS	4	WLMGDJBS	Address of first DJB obtained by WLMGOALS
540	(21C)	SIGNED	4	WLMGJQUE	Number of jobs ready to run
544	(220)	BITSTRING	4	WLMGSECT	Selection mask before goal computation
548	(224)	BITSTRING	4	WLMGSECA	Selection mask during goal computation
552	(228)	BITSTRING	4	WLMGWACT	Members that can select WLM work (e.g. not $P, not $P XEQ)
556	(22C)	BITSTRING	1	WLMGNISY	Members not in independent mode
		Data areas for calling WLM services			
560	(230)	DBL WORD	8	WLMDATAD(0)	General double word area
560	(230)	SIGNED	4	WLMDATA1	General data area 1
564	(234)	SIGNED	4	WLMDATA2	General data area 2
568	(238)	SIGNED	4	WLMDATA3	General data area 3
572	(23C)	SIGNED	4	WLMDATA4	General data area 4
572	(23C)	X'230'	0	WLMDATAX	"WLMDATA1,16,C'X'" 16 byte work area
576	(240)	SIGNED	4	WLMRETCD	WLM service return code
580	(244)	SIGNED	4	WLMRESCD	WLM service reason code
584	(248)	BITSTRING	1	WLMLFUNC	Last function called (used for HASP712 message)
584	(248)	X'1'	0	WLMFCONN	"1" IWMCONN - connect
584	(248)	X'2'	0	WLMFPQRY	"2" IWMPQRY - query policy
584	(248)	X'3'	0	WLMFDISC	"3" IWMDISC - disconnect

Table 566. Structure WLMD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
584	(248)	X'4'	0	WLMFBREG	"4" IWMBREG - Registration
584	(248)	X'5'	0	WLMFDREG	"5" IWMBDREG - Deegistration
584	(248)	X'6'	0	WLMFCLAS	"6" IWMCLASFY - Classify
585	(249)	BITSTRING	3		Reserved
--BLDM $BLDMSG MF=L List form of $BLDMSG					
588	(24C)	SIGNED	4	WLMBLDM(0)	Control block ID
592	(250)	BITSTRING	4		Console ID
596	(254)	ADDRESS	4		Address of the CART
600	(258)	ADDRESS	4		Pointer for JOBID
604	(25C)	ADDRESS	4		Control block address
608	(260)	ADDRESS	4		Display routine address
612	(264)	ADDRESS	4	(6)	6 word work area
636	(27C)	ADDRESS	4		Caller's R11 value
640	(280)	BITSTRING	2		ROUT code for Message
642	(282)	BITSTRING	2		Not used
644	(284)	CHARACTER	4		Message ID
648	(288)	CHARACTER	1		Separator character
649	(289)	ADDRESS	1		Flag byte 1
650	(28A)	ADDRESS	1		'DISPER'
651	(28B)	ADDRESS	1		Flag byte 2
652	(28C)	ADDRESS	1		Flag byte 3
653	(28D)	CHARACTER	8		Symbolic name of dest.
661	(295)	BITSTRING	15		Not used
676	(2A4)	ADDRESS	4	(0)	Ensure multiple of 4
676	(2A4)	ADDRESS	2	(0)	
0	(0)	X'58'	0	WLMBLDML	"*-WLMBLDM" Length of $BLDMSG MF=L
676	(2A4)	SIGNED	4	WLMPORG(0)	Org label for inline parm lists
WLM connect					
0	(0)	X'2A8'	0	M00M1413	"WLMCONNL" ++ IWMCONN NAME
680	(2A8)	DBL WORD	8	WLMCONNL(0)	++ IWMCONN PARM LIST
680	(2A8)	BITSTRING	1	WLMCONNL_XVERSION	++ INPUT XVERSION
681	(2A9)	BITSTRING	1	WLMCONNL_XCONNECT_OPTIONS	++ FIELD_LABEL
		1...		WLMCONNL_XCONNTKNKEYP_VALUE	"B'10000000'" ++ XCONNTKNKEYP.VALUE KEYWORD
682	(2AA)	CHARACTER	1	WLMCONNL_XRSV0002	++ RESERVED XRSV0002
683	(2AB)	BITSTRING	1	WLMCONNL_XCONNTKNKEY	++ XCONNTKNKEY
684	(2AC)	CHARACTER	4	WLMCONNL_XSUBSYS	++ XSUBSYS
688	(2B0)	ADDRESS	4	WLMCONNL_XSUBSYSNM_ADDR	++ ADDR XSUBSYSNM
692	(2B4)	CHARACTER	4	WLMCONNL_XRSV000C	++ RESERVED XRSV000C
696	(2B8)	SIGNED	4	WLMCONNL_XNUMBERASCB	++ XNUMBERASCB
700	(2BC)	ADDRESS	4	WLMCONNL_XTOPOLOGY_ADDR	++ ADDR XTOPOLOGY
704	(2C0)	CHARACTER	4	WLMCONNL_XRSV0018	++ RESERVED XRSV0018
708	(2C4)	BITSTRING	4	WLMCONNL_XCONNTKN	++ XCONNTKN
712	(2C8)	ADDRESS	4	WLMCONNL_XQMGR_EXIT@	++ XQMGR_EXIT@
712	(2C8)	X'2CC'	0	WLMCONNL_PL_END	"*" ++ END OF BASE PLIST
712	(2C8)	X'24'	0	WLMCONNLL	"*-WLMCONNL" ++ LENGTH OF PLIST
				IWMCONN-4	
WLM Disconnect					

Table 566. Structure WLMD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		MACDATE -11/09/04-<0>			
0	(0)	X'2A8'	0	M00M1415	"WLMDISCL" ++ IWMDISC NAME
680	(2A8)	DBL WORD	8	WLMDISCL(0)	++ IWMDISC PARM LIST
680	(2A8)	BITSTRING	1	WLMDISCL_XVERSION	++ INPUT XVERSION
681	(2A9)	BITSTRING	1	WLMDISCL_XOPTIONS	++ FIELD_LABEL XOPTIONS
682	(2AA)	CHARACTER	2	WLMDISCL_XRSV0002	++ RESERVED XRSV0002
684	(2AC)	BITSTRING	4	WLMDISCL_XCONNTKN	++ XCONNTKN
688	(2B0)	CHARACTER	4	WLMDISCL_XRSV0008	++ RESERVED XRSV0008
688	(2B0)	X'C'	0	WLMDISCLL	"*-WLMDISCL" ++ LENGTH OF PLIST
				IWMDISC-0	
		WLM policy query			
		MACDATE -02/26/97-<0>			
0	(0)	X'2A8'	0	M00M1416	"WLMPQRYL" ++ IWMPQRY NAME
680	(2A8)	DBL WORD	8	WLMPQRYL(0)	++ IWMPQRY PARM LIST
680	(2A8)	BITSTRING	1	WLMPQRYL_XVERSION	++ INPUT XVERSION
681	(2A9)	CHARACTER	3	WLMPQRYL_XRSV0001	++ RESERVED XRSV0001
684	(2AC)	ADDRESS	4	WLMPQRYL_XANSAREA_ADDR	++ ADDR XANSAREA
688	(2B0)	SIGNED	4	WLMPQRYL_XANSAREA_ALET	++ ALET XANSAREA
692	(2B4)	SIGNED	4	WLMPQRYL_XANSLEN	++ XANSLEN
696	(2B8)	SIGNED	4	WLMPQRYL_XQUERYLEN	++ XQUERYLEN
700	(2BC)	CHARACTER	4	WLMPQRYL_XRSV0014	++ RESERVED XRSV0014
700	(2BC)	X'18'	0	WLMPQRYLL	"*-WLMPQRYL" ++ LENGTH OF PLIST
				IWMPQRY-0	
		WLM queue registration			
		MACDATE -04/02/97-<0>			
0	(0)	X'2A8'	0	M00M1417	"WLMQREG" ++ IWMBREG NAME
680	(2A8)	DBL WORD	8	WLMQREG(0)	++ IWMBREG PARM LIST
680	(2A8)	BITSTRING	1	WLMQREG_XVERSION	++ INPUT XVERSION
681	(2A9)	CHARACTER	1	WLMQREG_XRSV0001	++ RESERVED XRSV0001
682	(2AA)	BITSTRING	2	WLMQREG_XPLISTLEN	++ INPUT XPLISTLEN
684	(2AC)	CHARACTER	16	WLMQREG_XQTOKEN	++ XQTOKEN
700	(2BC)	CHARACTER	32	WLMQREG_XSVDEF_ID	++ XSVDEF_ID
732	(2DC)	ADDRESS	4	WLMQREG_XAPPLENV_ADDR	++ ADDR XAPPLENV
736	(2E0)	CHARACTER	8	WLMQREG_XSRVCLSNM	++ XSRVCLSNM
744	(2E8)	SIGNED	4	WLMQREG_XNUMSYS	++ XNUMSYS
748	(2EC)	CHARACTER	8	WLMQREG_XRSV0044	++ RESERVED XRSV0044
748	(2EC)	X'4C'	0	WLMQREGL	"*-WLMQREG" ++ LENGTH OF PLIST
				IWMBREG-0	
		WLM queue deregistration			
		MACDATE -02/24/97-<0>			
0	(0)	X'2A8'	0	M00M1418	"WLMQDREG" ++ IWMBDREG NAME
680	(2A8)	DBL WORD	8	WLMQDREG(0)	++ IWMBDREG PARM LIST
680	(2A8)	BITSTRING	1	WLMQDREG_XVERSION	++ INPUT XVERSION
681	(2A9)	CHARACTER	1	WLMQDREG_XRSV0001	++ RESERVED XRSV0001
682	(2AA)	BITSTRING	2	WLMQDREG_XPLISTLEN	++ INPUT XPLISTLEN
684	(2AC)	CHARACTER	16	WLMQDREG_XQTOKEN	++ XQTOKEN
700	(2BC)	BITSTRING	1	WLMQDREG_XDEREG_OPTIONS	++ FIELD_LABEL

Table 566. Structure WLMD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		WLMQDREG_XTYPE_SPECIFIC	"B'10000000'" ++ XTYPE.SPECIFIC KEYWORD
		.1..		WLMQDREG_XTYPE_ALL	"B'01000000'" ++ XTYPE.ALL KEYWORD
701	(2BD)	CHARACTER	7	WLMQDREG_XRSV0015	++ RESERVED XRSV0015
701	(2BD)	X'1C'	0	WLMQDREGL	"*-WLMQDREG" ++ LENGTH OF PLIST
				IWMBDREG-0	
WLM service class validation					
MACDATE -03/27/97-<0>					
0	(0)	X'2A8'	0	M00M1419	"WLMBSET" ++ IWMBSET NAME
680	(2A8)	DBL WORD	8	WLMBSET(0)	++ IWMBSET PARM LIST
680	(2A8)	BITSTRING	1	WLMBSET_XVERSION	++ INPUT XVERSION
681	(2A9)	CHARACTER	1	WLMBSET_XRSV001	++ RESERVED XRSV001
682	(2AA)	BITSTRING	2	WLMBSET_XPLISTLEN	++ INPUT XPLISTLEN
684	(2AC)	BITSTRING	4	WLMBSET_XSERVCLS	++ XSERVCLS
688	(2B0)	CHARACTER	8	WLMBSET_XSRVCLSNM	++ XSRVCLSNM
696	(2B8)	CHARACTER	4	WLMBSET_XRSV002	++ RESERVED XRSV002
696	(2B8)	X'14'	0	WLMBSETL	"*-WLMBSET" ++ LENGTH OF PLIST
				IWMBSET-0	
WLM scheduling environment availability testing					
0	(0)	X'2A8'	0	M00M1420	"WLMBSCHE" ++ IWMSEDES NAME
680	(2A8)	DBL WORD	8	WLMBSCHE(0)	++ IWMSEDES PARM LIST
680	(2A8)	BITSTRING	1	WLMBSCHE_XVERSION	++ INPUT XVERSION
681	(2A9)	CHARACTER	1	WLMBSCHE_XRSV0001	++ RESERVED XRSV0001
682	(2AA)	BITSTRING	2	WLMBSCHE_XPLISTLEN	++ INPUT XPLISTLEN
684	(2AC)	CHARACTER	16	WLMBSCHE_XSCHENV	++ XSCHENV
700	(2BC)	CHARACTER	8	WLMBSCHE_XSYSTEM_NAME	++ XSYSTEM_NAME
708	(2C4)	CHARACTER	16	WLMBSCHE_XRSV001C	++ RESERVED XRSV001C
708	(2C4)	X'2C'	0	WLMBSCHEL	"*-WLMBSCHE" ++ LENGTH OF PLIST
				IWMSEDES-0	
WLM scheduling environment definition testing					
MACDATE -04/02/97-<0>					
0	(0)	X'2A8'	0	M00M1421	"WLMSEVAL" ++ IWMSEVAL NAME
680	(2A8)	DBL WORD	8	WLMSEVAL(0)	++ IWMSEVAL PARM LIST
680	(2A8)	BITSTRING	1	WLMSEVAL_XVERSION	++ INPUT XVERSION
681	(2A9)	CHARACTER	1	WLMSEVAL_XRSV0001	++ RESERVED XRSV0001
682	(2AA)	BITSTRING	2	WLMSEVAL_XPLISTLEN	++ INPUT XPLISTLEN
684	(2AC)	CHARACTER	16	WLMSEVAL_XSCHENV	++ XSCHENV
700	(2BC)	CHARACTER	16	WLMSEVAL_XRSV0014	++ RESERVED XRSV0014
700	(2BC)	X'24'	0	WLMSEVALL	"*-WLMSEVAL" ++ LENGTH OF PLIST
				IWMSEVAL-0	
WLM demand batch inquiry processing					
MACDATE -01/19/15-<0>					
0	(0)	X'2A8'	0	M00M1422	"WLMBLOC" ++ IWMBLOC NAME
680	(2A8)	DBL WORD	8	WLMBLOC(0)	++ IWMBLOC PARM LIST
680	(2A8)	BITSTRING	1	WLMBLOC_XVERSION	++ INPUT XVERSION
681	(2A9)	BITSTRING	1	WLMBLOC_XBLOC_OPTIONS	++ FIELD_LABEL

Table 566. Structure WLMD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		WLMBLOC_KEYUSED_NUMJOBS	"B'10000000'" ++ KEYUSED.NUMJOBS KEYWORD
		.1..		WLMBLOC_KEYUSED_POSONQUE	"B'01000000'" ++ KEYUSED.POSONQUE KEYWORD
682	(2AA)	BITSTRING	2	WLMBLOC_XPLISTLEN	++ INPUT
684	(2AC)	CHARACTER	16	WLMBLOC_XQTOKEN	++
700	(2BC)	ADDRESS	4	WLMBLOC_XSYSTEML_ADDR	++ ADDR
704	(2C0)	SIGNED	4	WLMBLOC_XNUMSYS	++
708	(2C4)	CHARACTER	8	WLMBLOC_XSRVCLSNM	++
716	(2CC)	CHARACTER	8	WLMBLOC_XSYSNAME	++
724	(2D4)	SIGNED	4	WLMBLOC_XNUMJOBS	++
728	(2D8)	SIGNED	4	WLMBLOC_XPOSONQUE	++
728	(2D8)	X'34'	0	WLMBLOCL	"*-WLMBLOC" ++ LENGTH OF PLIST
				IWMBLOC-0	
756	(2F4)	SIGNED	4	WLMSNUM	Number of MVS systems
760	(2F8)	CHARACTER	8	WLMSLIST(0)	List of MVS system names
WLM demand batch request processing					
MACDATE -01/19/15-<0>					
0	(0)	X'2A8'	0	M00M1423	"WLMBREQ" ++ IWMBREQ NAME
680	(2A8)	DBL WORD	8	WLMBREQ(0)	++ IWMBREQ PARM LIST
680	(2A8)	BITSTRING	1	WLMBREQ_XVERSION	++ INPUT XVERSION
681	(2A9)	BITSTRING	1	WLMBREQ_XBREQ_OPTIONS	++ FIELD_LABEL
		1...		WLMBREQ_KEYUSED_JOBTOKENL	"B'10000000'" ++ KEYUSED.JOBTOKENL KEYWORD
		.1..		WLMBREQ_KEYUSED_NUMJOBS	"B'01000000'" ++ KEYUSED.NUMJOBS KEYWORD
682	(2AA)	BITSTRING	2	WLMBREQ_XPLISTLEN	++ INPUT
684	(2AC)	CHARACTER	8	WLMBREQ_XJOBTOKEN	++
692	(2B4)	CHARACTER	16	WLMBREQ_XQTOKEN	++
708	(2C4)	SIGNED	4	WLMBREQ_XNUMJOBS	++
712	(2C8)	ADDRESS	4	WLMBREQ_XJOBTOKENL_ADDR	++ ADDR
712	(2C8)	X'24'	0	WLMBREQL	"*-WLMBREQ" ++ LENGTH OF PLIST
				IWMBREQ-0	
WLM service class reset processing					
MACDATE -12/18/03-<0>					
0	(0)	X'2A8'	0	M00M1424	"WLMBRST" ++ IWMRESET NAME
680	(2A8)	DBL WORD	8	WLMBRST(0)	++ IWMRESET PARM LIST
680	(2A8)	BITSTRING	1	WLMBRST_XVERSION	++ INPUT XVERSION
681	(2A9)	BITSTRING	1	WLMBRST_XOPTIONS	++ FIELD_LABEL
		1...		WLMBRST_KEYUSED_SRVCLASS	"B'10000000'" ++ KEYUSED.SRVCLASS KEYWORD
		.1..		WLMBRST_KEYUSED_PERFORM	"B'01000000'" ++ KEYUSED.PERFORM KEYWORD
		..1.		WLMBRST_XFUNCTION_QUIESCE	"B'00100000'" ++ XFUNCTION.QUIESCE KEYWORD
		...1		WLMBRST_XFUNCTION_RESUME	"B'00010000'" ++ XFUNCTION.RESUME KEYWORD
		.... 1...		WLMBRST_KEYUSED_JOBNAME	"B'00001000'" ++ KEYUSED.JOBNAME KEYWORD

Table 566. Structure WLMD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		WLMBRST_KEYUSED_ASID	"B'00000100'" ++ KEYUSED.ASID KEYWORD
682	(2AA)	BITSTRING	2	WLMBRST_XPLISTLEN	++ INPUT XPLISTLEN
684	(2AC)	CHARACTER	8	WLMBRST_XJOBNAME	++ XJOBNAME
692	(2B4)	BITSTRING	2	WLMBRST_XASID	++ XASID
694	(2B6)	BITSTRING	2	WLMBRST_XPERFORM	++ XPERFORM
696	(2B8)	CHARACTER	8	WLMBRST_XSRVCLASS	++ XSRVCLASS
704	(2C0)	CHARACTER	8	WLMBRST_XUSERID	++ XUSERID
712	(2C8)	CHARACTER	8	WLMBRST_XPRODUCT	++ XPRODUCT
712	(2C8)	X'28'	0	WLMBRSTL	"*-WLMBRST" ++ LENGTH OF PLIST
				IWMRESET-0	
		End of inline parm lists			
1016	(3F8)	X'2A4'	0	WLMPARM	"WLMPORG,*-WLMPORG" Label for inline parm lists
1016	(3F8)	DBL WORD	8	(0)	Alignment
1016	(3F8)	X'3F8'	0	WLMSIZE	"*-WLMD" Size of bundle

Table 567. Cross Reference for $WLMD

Name	Offset	Hex Tag
M00M1413	0	2A8
M00M1415	0	2A8
M00M1416	0	2A8
M00M1417	0	2A8
M00M1418	0	2A8
M00M1419	0	2A8
M00M1420	0	2A8
M00M1421	0	2A8
M00M1422	0	2A8
M00M1423	0	2A8
M00M1424	0	2A8
WLMASID	216	
WLMBLDM	24C	C2D3C440
WLMBLDML	0	58
WLMBLOC	2A8	
WLMBLOC_KEYUSED_NUMJOBS	2A9	80
WLMBLOC_KEYUSED_POSONQUE	2A9	40
WLMBLOC_XBLOC_OPTIONS	2A9	
WLMBLOC_XNUMJOBS	2D4	
WLMBLOC_XNUMSYS	2C0	
WLMBLOC_XPLISTLEN	2AA	
WLMBLOC_XPOSONQUE	2D8	
WLMBLOC_XQTOKEN	2AC	
WLMBLOC_XSRVCLSNM	2C4	
WLMBLOC_XSYSNAME	2CC	
WLMBLOC_XSYSTEML_ADDR	2BC	
WLMBLOC_XVERSION	2A8	
WLMBLOCL	2D8	34
WLMBREQ	2A8	

Table 567. Cross Reference for $WLMD (continued)

Name	Offset	Hex Tag
WLMBREQ_KEYUSED_JOBTOKENL	2A9	80
WLMBREQ_KEYUSED_NUMJOBS	2A9	40
WLMBREQ_XBREQ_OPTIONS	2A9	
WLMBREQ_XJOBTOKEN	2AC	
WLMBREQ_XJOBTOKENL_ADDR	2C8	
WLMBREQ_XNUMJOBS	2C4	
WLMBREQ_XPLISTLEN	2AA	
WLMBREQ_XQTOKEN	2B4	
WLMBREQ_XVERSION	2A8	
WLMBREQL	2C8	24
WLMBRST	2A8	
WLMBRST_KEYUSED_ASID	2A9	4
WLMBRST_KEYUSED_JOBNAME	2A9	8
WLMBRST_KEYUSED_PERFORM	2A9	40
WLMBRST_KEYUSED_SRVCLASS	2A9	80
WLMBRST_XASID	2B4	
WLMBRST_XFUNCTION_QUIESCE	2A9	20
WLMBRST_XFUNCTION_RESUME	2A9	10
WLMBRST_XJOBNAME	2AC	
WLMBRST_XOPTIONS	2A9	
WLMBRST_XPERFORM	2B6	
WLMBRST_XPLISTLEN	2AA	
WLMBRST_XPRODUCT	2C8	
WLMBRST_XSRVCLASS	2B8	
WLMBRST_XUSERID	2C0	
WLMBRST_XVERSION	2A8	
WLMBRSTL	2C8	28
WLMBSCHE	2A8	
WLMBSCHE_XPLISTLEN	2AA	
WLMBSCHE_XRSV0001	2A9	
WLMBSCHE_XRSV001C	2C4	
WLMBSCHE_XSCHENV	2AC	
WLMBSCHE_XSYSTEM_NAME	2BC	
WLMBSCHE_XVERSION	2A8	
WLMBSCHEL	2C4	2C
WLMBSET	2A8	
WLMBSET_XPLISTLEN	2AA	
WLMBSET_XRSV001	2A9	
WLMBSET_XRSV002	2B8	
WLMBSET_XSERVCLS	2AC	
WLMBSET_XSRVCLSNM	2B0	
WLMBSET_XVERSION	2A8	
WLMBSETL	2B8	14
WLMCKVSV	48	
WLMCONN	4	
WLMCONNL	2A8	
WLMCONNL_PL_END	2C8	2CC
WLMCONNL_XCONNECT_OPTIONS	2A9	
WLMCONNL_XCONNTKN	2C4	

Table 567. Cross Reference for $WLMD (continued)

Name	Offset	Hex Tag
WLMCONNL_XCONNTKNKEY	2AB	
WLMCONNL_XCONNTKNKEYP_VALUE	2A9	80
WLMCONNL_XNUMBERASCB	2B8	
WLMCONNL_XQMGR_EXIT@	2C8	
WLMCONNL_XRSV000C	2B4	
WLMCONNL_XRSV0002	2AA	
WLMCONNL_XRSV0018	2C0	
WLMCONNL_XSUBSYS	2AC	
WLMCONNL_XSUBSYSNM_ADDR	2B0	
WLMCONNL_XTOPOLOGY_ADDR	2BC	
WLMCONNL_XVERSION	2A8	
WLMCONNLL	2C8	24
WLMCURSV	28	
WLMD	0	
WLMDATAD	230	
WLMDATAX	23C	230
WLMDATA1	230	
WLMDATA2	234	
WLMDATA3	238	
WLMDATA4	23C	
WLMDISCL	2A8	
WLMDISCL_XCONNTKN	2AC	
WLMDISCL_XOPTIONS	2A9	
WLMDISCL_XRSV0002	2AA	
WLMDISCL_XRSV0008	2B0	
WLMDISCL_XVERSION	2A8	
WLMDISCLL	2B0	C
WLMFBREG	248	4
WLMFCLAS	248	6
WLMFCONN	248	1
WLMFDISC	248	3
WLMFDREG	248	5
WLMFLAG1	78	
WLMFPQRY	248	2
WLMGCOUN	110	90
WLMGDJBS	218	
WLMGFLG1	190	
WLMGJQUE	21C	
WLMGMAFF	110	
WLMGMAFG	214	
WLMGNISY	22C	
WLMGSAFF	90	
WLMGSECA	224	
WLMGSECT	220	
WLMGSTON	194	
WLMGWACT	228	
WLMG1DST	190	10
WLMG1PSX	190	40
WLMG1SM	190	20

Table 567. Cross Reference for $WLMD (continued)

Name	Offset	Hex Tag
WLMID	0	
WLMJBQSZ	84	
WLMJSBQS	80	
WLMJSDSR	7C	
WLMJSWLN	8C	
WLMJSWRK	88	
WLMJTOK	68	
WLMLFUNC	248	
WLMPARM	3F8	2A4
WLMPORG	2A4	
WLMPQRYL	2A8	
WLMPQRYL_XANSAREA_ADDR	2AC	
WLMPQRYL_XANSAREA_ALET	2B0	
WLMPQRYL_XANSLEN	2B4	
WLMPQRYL_XQUERYLEN	2B8	
WLMPQRYL_XRSV0001	2A9	
WLMPQRYL_XRSV0014	2BC	
WLMPQRYL_XVERSION	2A8	
WLMPQRYLL	2BC	18
WLMQDREG	2A8	
WLMQDREG_XDEREG_OPTIONS	2BC	
WLMQDREG_XPLISTLEN	2AA	
WLMQDREG_XQTOKEN	2AC	
WLMQDREG_XRSV0001	2A9	
WLMQDREG_XRSV0015	2BD	
WLMQDREG_XTYPE_ALL	2BC	40
WLMQDREG_XTYPE_SPECIFIC	2BC	80
WLMQDREG_XVERSION	2A8	
WLMQDREGL	2BD	1C
WLMQREG	2A8	
WLMQREG_XAPPLENV_ADDR	2DC	
WLMQREG_XNUMSYS	2E8	
WLMQREG_XPLISTLEN	2AA	
WLMQREG_XQTOKEN	2AC	
WLMQREG_XRSV0001	2A9	
WLMQREG_XRSV0044	2EC	
WLMQREG_XSRVCLSNM	2E0	
WLMQREG_XSVDEF_ID	2BC	
WLMQREG_XVERSION	2A8	
WLMQREGL	2EC	4C
WLMRESCD	244	
WLMRETCD	240	
WLMSEVAL	2A8	
WLMSEVAL_XPLISTLEN	2AA	
WLMSEVAL_XRSV0001	2A9	
WLMSEVAL_XRSV0014	2BC	
WLMSEVAL_XSCHENV	2AC	
WLMSEVAL_XVERSION	2A8	
WLMSEVALL	2BC	24

Table 567. Cross Reference for $WLMD (continued)

Name	Offset	Hex Tag
WLMSIZE	3F8	3F8
WLMSLIST	2F8	
WLMSNUM	2F4	
WLMSVDEF	8	
WLM1DEF	78	80

Chapter 234. $WSA Information

$WSA Programming Interface Information

$WSA is a programming interface.

$WSA Heading Information

Common Name:	Work selection work area
Macro ID:	$WSA
DSECT Name:	WSA
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'WSA ' Offset: WSAID-WSA Length: 4
Storage Attributes:	Subpool: 0 Key: 1 Residency: Virtual and real storage anywhere, in the private storage of the JES2 address space.
Size:	See WSALEN
Created by:	JES2 initialization
Pointed to by:	$WSAPTR field of the $HCT data area
Serialization:	JES2 Main Task - contents may be destroyed via any $WAIT
Function:	Provides a work area for the work selection service routines ($#GET, GTSCREEN, WSSETUP, WSSERV).

$WSA mapping

Table 568. Structure WSA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	WSA	WORK SELECTION AREA DSECT
0	(0)	CHARACTER	4	WSAID	WSA ID
4	(4)	BITSTRING	1	WSAVERS	VERSION NUMBER
4	(4)	X'3'	0	WSAVRSN	"3" Current version number
5	(5)	BITSTRING	3	WSARSV1	Reserved for future use
8	(8)	SIGNED	4	WSASRVSV(18)	WSSERV/WSSETUP SAVE AREA
80	(50)	SIGNED	4	WSASAVE(18)	GTSCREEN ROUTINE SAVE AREA
152	(98)	SIGNED	4	WSACLRST(0)	Put on fullword boundary
152	(98)	CHARACTER	104	WSAWKL1	Save area for exact mtch WS
256	(100)	CHARACTER	104	WSAWKL2	Save area for priority WS
360	(168)	BITSTRING	1	WSADELIM	FLAG BYTE FOR WS LIST BUILD
361	(169)	BITSTRING	1	WSAASLAS	FLAG BYTE FOR AFTER SLASH
362	(16A)	CHARACTER	80	WSASVLST	SAVE AREA FOR WS LIST
442	(1BA)	BITSTRING	1	WSAFLG	INIT AND COMMAND WORK FLAG
444	(1BC)	ADDRESS	4	WSABSTWK	ADDRESS OF BEST WORK FOUND
448	(1C0)	BITSTRING	1	WSACLVAL	VALUE OF CLASS IN WORK LIST
449	(1C1)	BITSTRING	1	WSABCLVL	BEST WORK CLASS VALUE
450	(1C2)	BITSTRING	1	WSAFLAG1	$#GET WORK FLAG 1

Table 568. Structure WSA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		WSA1OPT	"B'10000000'" OPTIONAL CRITERIA FLAG
		.1..		WSA1HOLD	"B'01000000'" HELD OUTPUT SELECTED
		..1.		WSA1BEST	"B'00100000'" BEST JOE FOUND FOR SPOF
		...1		WSA1CNET	"B'00010000'" Currently on network Q
		.... 1...		WSA1CHLD	"B'00001000'" Currently on hold Q
		.... .1..		WSA1CLOC	"B'00000100'" Currently on local Q
		.... ..1.		WSA1CRMT	"B'00000010'" Currently on remote Q
		1		WSA1CUSR	"B'00000001'" Currently on userid Q
450	(1C2)	X'1F'	0	WSA1CURQ	"WSA1CNET+WSA1CHLD+WSA1CLOC+WSA1CRMT+WSA1CUSR" Composition of all Qs
451	(1C3)	BITSTRING	1	WSAFLAG2	$#GET WORK FLAG 2
		1...		WSA2LOC	"B'10000000'" SCANNED LOCAL QUEUE
		.1..		WSA2USE	"B'01000000'" SCANNED USERID QUEUE
		..1.		WSA2RMT	"B'00100000'" SCANNED REMOTE QUEUE
		...1		WSA2RQTM	"B'00010000'" TERMINATE REMOTE QUEUE SCAN
		.... 1...		WSA2RQCN	"B'00001000'" CONTINUE REMOTE QUEUE SCAN
		.... .1..		WSA2NQTM	"B'00000100'" SELECT WORK FROM NETWORK Q
		.... ..1.		WSA2QQTM	"B'00000010'" Terminate current Q scan
		1		WSA2BSRC	"B'00000001'" Best route code found in current queue
452	(1C4)	BITSTRING	1	WSAFLAG3	$#GET/$#POST work flag 3
		1...		WSA3GJOA	"B'10000000'" WSAJOA obtained by WSSERV
		.1..		WSA3GJQA	"B'01000000'" JQA obtained by WSSERV rtn
		..1.		WSA3GOPT	"B'00100000'" $#GET optimized get performed
		...1		WSA3JPPS	"B'00010000'" JOE post-screening done
		.... 1...		WSANOOPT	"B'00001000'" $#GET caller specified optimized - but JOEINDEX index was not active OR JOEINDEX denoted legacy $#GET must be run
453	(1C5)	BITSTRING	3		Reserved
456	(1C8)	BITSTRING	25	WSABSTV	Best criteria value
481	(1E1)	BITSTRING	25	WSACURV	Current criteria value
506	(1FA)	BITSTRING	26	WSAWRMSK	Highest possible value mask
532	(214)	ADDRESS	4	WSATABS	ADDR OF WS TABLES

Table 568. Structure WSA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		WSAUSER	"X'80'" WS USER CRITERION IND
536	(218)	SIGNED	4	WSALLIM	Number of lines chained
540	(21C)	SIGNED	4	WSAPLIM	Number of pages chained
544	(220)	ADDRESS	4	WSACBA(0)	CONTROL BLOCK ADDRESSES
544	(220)	ADDRESS	4	WSAHCT	ADDR OF HCT
548	(224)	ADDRESS	4	WSAUCT	ADDR OF UCT
552	(228)	ADDRESS	4	WSADCT	Address of DCT or zero
556	(22C)	ADDRESS	4	WSAWSP	Address of WSP
560	(230)	ADDRESS	4	WSAWSA	ADDR OF WSA
564	(234)	ADDRESS	4	WSAJQE	ADDR OF JQE
568	(238)	ADDRESS	4	WSAPCE	Addr of PCE
572	(23C)	ADDRESS	4	WSAJCT	ADDR OF JCT
576	(240)	ADDRESS	4	WSAWJOE	ADDR OF WORK JOE
580	(244)	ADDRESS	4	WSACJOE	ADDR OF CHAR-JOE
584	(248)	ADDRESS	4	WSAJOA	ADDR OF JOA
588	(24C)	ADDRESS	4	WSANJHG	GEN SECTION JOB HDR ADDR
592	(250)	ADDRESS	4	WSANJH2	JES2 SECTION JOB HDR ADDR
596	(254)	ADDRESS	4	WSANJHO	OFFLOAD SECTION JOB HDR
600	(258)	ADDRESS	4	WSANJHU	USER SECTION JOB HDR
604	(25C)	ADDRESS	4	WSANJHT	Security Section Job Hdr
608	(260)	ADDRESS	4	WSANDHG	GENERAL SEC DS HDR ADDR
612	(264)	ADDRESS	4	WSANDH2	JES2 SECT OF DS HDR ADDR
616	(268)	ADDRESS	4	WSANDHA	OFFLOAD SECTION DS HDR
620	(26C)	ADDRESS	4	WSANDHS	DATASTREAM SEC OF DS HDR
624	(270)	ADDRESS	4	WSANDHU	USER SECTION DS HDR
628	(274)	ADDRESS	4	WSANDHT	Security Section DS Hdr
632	(278)	ADDRESS	4	WSANJHOX	Affinity section job header
636	(27C)	SIGNED	4	WSASTCK	High order word of TOD
640	(280)	ADDRESS	4	WSALST	ADDR OF WS LIST
644	(284)	SIGNED	4	WSALSTCR	Maximum number of criteria in WS list
648	(288)	ADDRESS	4	WSANTRT	MVS NAME/TOKEN Retrieve rtn
652	(28C)	BITSTRING	128	WSAVOL(4)	VOLUME MASK
780	(30C)	SIGNED	4	WSAMDSTR	Lowest remote route code for quick index to queue
784	(310)	SIGNED	4	WSAMDSTU	Lowest special local route code
Work area for ASAXWC macros					
788	(314)	SIGNED	4	WSADATAL	Length of input string MACDATE -06/16/09-<0>
0	(0)	X'318'	0	M00M1414	"WSALIST" ++ ASAXWC NAME
792	(318)	SIGNED	4	WSALIST(0)	++ ASAXWC PARM LIST
792	(318)	CHARACTER	4	WSALIST_XPARMAREA1	++ FIELD_LABEL
796	(31C)	CHARACTER	24	WSALIST_XPARMAREA2	++ FIELD_LABEL
796	(31C)	X'334'	0	WSALIST_PL_END	"*" ++ END OF BASE PLIST
792	(318)	ADDRESS	4	WSALIST_XPATTERNSTR_ADDR	++ ADDR
796	(31C)	SIGNED	4	WSALIST_XPATTERNSTRLEN	++
800	(320)	ADDRESS	4	WSALIST_XSTRING_ADDR	++ ADDR
804	(324)	SIGNED	4	WSALIST_XSTRINGLEN	++
808	(328)	ADDRESS	4	WSALIST_XZEROORMORE_ADDR	++ ADDR
812	(32C)	ADDRESS	4	WSALIST_XONECHAR_ADDR	++ ADDR
816	(330)	ADDRESS	4	WSALIST_XDELIMITER_ADDR	++ ADDR

Table 568. Structure WSA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
792	(318)	ADDRESS	4	WSALIST_XPPPATTERNINFO_ADDR	++ ADDR
796	(31C)	ADDRESS	4	WSALIST_XPPPATTERNSTR_ADDR	++ ADDR
800	(320)	SIGNED	4	WSALIST_XPPPATTERNSTRLEN	++
804	(324)	ADDRESS	4	WSALIST_XPPZEROORMORE_ADDR	++ ADDR
808	(328)	ADDRESS	4	WSALIST_XPPONECHAR_ADDR	++ ADDR
812	(32C)	ADDRESS	4	WSALIST_XPPDELIMITER_ADDR	++ ADDR
796	(31C)	ADDRESS	4	WSALIST_XPPSTRING_ADDR	++ ADDR
800	(320)	SIGNED	4	WSALIST_XPPSTRINGLEN	++
820	(334)	X'1C'	0	WSALISTL	"*-WSALIST" ++ LENGTH OF PLIST
				ASAXWC-0	
820	(334)	BITSTRING	256	WSAAREA	Work area passed to ASAXWC
				Parameter list for MVS Name/Token retrieve service (IEANTRT).	
820	(334)	SIGNED	4	WSATKPRM(0)	IEANTRT parameter list
820	(334)	ADDRESS	4	WSATKLVA	Level address
824	(338)	ADDRESS	4	WSATKNMA	Name address
828	(33C)	ADDRESS	4	WSATKTKA	Token address
832	(340)	ADDRESS	4	WSATKRCA	Return code address
				Token information	
836	(344)	SIGNED	4	WSATKLVL	Task level for token
840	(348)	BITSTRING	16	WSATKTOK	Token of NAME/TOKEN pair
856	(358)	SIGNED	4	WSATKRET	Service return code
860	(35C)	BITSTRING	16	WSATKNAM	Name of NAME/Token pair
				$JCORBLD Job Correlator build service work area	
1076	(434)	CHARACTER	68	WSAJCOR	Job correlator
1144	(478)	DBL WORD	8	(0)	
1144	(478)	X'478'	0	WSAWSLN	"*-WSA" Length of area cleared by WSSETUP
				Nothing beyond this point is cleared by WSSETUP ASAXWC translate table	
1144	(478)	BITSTRING	256	WSATRTAB	Translate table for ASAXWC
				Work area for EBCDIC work selection list creation	
1400	(578)	BITSTRING	1	WSAWSLST	Work selection list (EBCDIC)
				Work area for $#GET "count" type call. Counts are accumulated for all JOEs which match the selection criteria.	
1628	(65C)	SIGNED	4	WSACTJOE	Number of JOEs matching
1632	(660)	SIGNED	4	WSACLINE	Number of lines
1636	(664)	SIGNED	4	WSACPAGE	Number of pages
1636	(664)	X'65C'	0	WSACOUNT	"WSACTJOE,*-WSACTJOE,C'X'"
				Work area for $#POST	
1640	(668)	BITSTRING	576	WSATWSP	Temporary WSP
2216	(8A8)	BITSTRING	50	WSAPRTBL	Room for 5 PRMODEs
2266	(8DA)	BITSTRING	34	WSASPLWA	Working spools used mask
2300	(8FC)	ADDRESS	4	WSAPSGTW	Address of GTW

Table 568. Structure WSA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2304	(900)	SIGNED	4	(0)	Ensure fullword alignment
2304	(900)	X'900'	0	WSALEN	"*-WSA" LENGTH OF WSA

Table 569. Cross Reference for $WSA

Name	Offset	Hex Tag
M00M1414	0	318
WSA	0	
WSAAREA	334	
WSAASLAS	169	
WSABCLVL	1C1	
WSABSTV	1C8	
WSABSTWK	1BC	
WSACBA	220	
WSACJOE	244	
WSACLINE	660	
WSACLRST	98	
WSACLVAL	1C0	
WSACOUNT	664	65C
WSACPAGE	664	
WSACTJOE	65C	
WSACURV	1E1	
WSADATAL	314	
WSADCT	228	
WSADELIM	168	0
WSAFLAG1	1C2	
WSAFLAG2	1C3	
WSAFLAG3	1C4	
WSAFLG	1BA	0
WSAHCT	220	
WSAID	0	E6E2C140
WSAJCOR	434	
WSAJCT	23C	
WSAJOA	248	
WSAJQE	234	
WSALEN	900	900
WSALIST	318	
WSALIST_PL_END	31C	334
WSALIST_XDELIMITER_ADDR	330	
WSALIST_XONECHAR_ADDR	32C	
WSALIST_XPARMAREA1	318	
WSALIST_XPARMAREA2	31C	
WSALIST_XPATTERNSTR_ADDR	318	
WSALIST_XPATTERNSTRLEN	31C	
WSALIST_XPPDELIMITER_ADDR	32C	
WSALIST_XPPONECHAR_ADDR	328	
WSALIST_XPPPATTERNINFO_ADDR	318	
WSALIST_XPPPATTERNSTR_ADDR	31C	

Table 569. Cross Reference for $WSA (continued)

Name	Offset	Hex Tag
WSALIST_XPPPATTERNSTRLEN	320	
WSALIST_XPPSTRING_ADDR	31C	
WSALIST_XPPSTRINGLEN	320	
WSALIST_XPPZEROORMORE_ADDR	324	
WSALIST_XSTRING_ADDR	320	
WSALIST_XSTRINGLEN	324	
WSALIST_XZEROORMORE_ADDR	328	
WSALISTL	334	1C
WSALLIM	218	
WSALST	280	
WSALSTCR	284	
WSAMDSTR	30C	
WSAMDSTU	310	
WSANDHA	268	
WSANDHG	260	
WSANDHS	26C	
WSANDHT	274	
WSANDHU	270	
WSANDH2	264	
WSANJHG	24C	
WSANJHO	254	
WSANJHOX	278	
WSANJHT	25C	
WSANJHU	258	
WSANJH2	250	
WSANOOPT	1C4	8
WSANTRT	288	
WSAPCE	238	
WSAPLIM	21C	
WSAPRTBL	8A8	
WSAPSGTW	8FC	
WSARSV1	5	
WSASAVE	50	0
WSASPLWA	8DA	
WSASRVSV	8	0
WSASTCK	27C	
WSASVLST	16A	F0F04040
WSATABS	214	
WSATKLVA	334	
WSATKLVL	344	
WSATKNAM	35C	
WSATKNMA	338	
WSATKPRM	334	
WSATKRCA	340	
WSATKRET	358	
WSATKTKA	33C	
WSATKTOK	348	
WSATRTAB	478	
WSATWSP	668	

Table 569. Cross Reference for $WSA (continued)

Name	Offset	Hex Tag
WSAUCT	224	
WSAUSER	214	80
WSAVERS	4	
WSAVOL	28C	
WSAVRSN	4	3
WSAWJOE	240	
WSAWKL1	98	
WSAWKL2	100	
WSAWRMSK	1FA	
WSAWSA	230	
WSAWSLN	478	478
WSAWSLST	578	
WSAWSP	22C	
WSA1BEST	1C2	20
WSA1CHLD	1C2	8
WSA1CLOC	1C2	4
WSA1CNET	1C2	10
WSA1CRMT	1C2	2
WSA1CURQ	1C2	1F
WSA1CUSR	1C2	1
WSA1HOLD	1C2	40
WSA1OPT	1C2	80
WSA2BSRC	1C3	1
WSA2LOC	1C3	80
WSA2NQTM	1C3	4
WSA2QQTM	1C3	2
WSA2RMT	1C3	20
WSA2RQCN	1C3	8
WSA2RQTM	1C3	10
WSA2USE	1C3	40
WSA3GJOA	1C4	80
WSA3GJQA	1C4	40
WSA3GOPT	1C4	20
WSA3JPPS	1C4	10

Chapter 235. $WSC Information

$WSC Programming Interface Information

$WSC is a programming interface.

$WSC Heading Information

Common Name: WLM Service Class Queue Anchor
Macro ID: $WSC
DSECT Name: WSC
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: None
Storage Attributes: Subpool: 0
Key: 1
Residency: Virtual and real storage are above 16M, in the private storage of the JES2 address space.

Size: See WSCLEN
Created by: $DOGWSCQ
Pointed to by: Constructed dynamically from data in BERTs
Serialization: None Required
Function: The WSC serves as an anchor for the workload manager service class queue for a particular service class.

$WSC mapping

Table 570. Structure WSC

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	WSC	HASP WLM Service Class Queue
0	(0)	CHARACTER	8	WSCNAME	Service Class name
8	(8)	BITSTRING	4	WSCSTOK	Service Class token
12	(C)	ADDRESS	4	WSCQHEAD	Index of first JQE on the service class queue
16	(10)	BITSTRING	4	WSCREG	Affinity mask for WLM registration/dereg.
20	(14)	BITSTRING	1	WSCFLAG1	Flags
		1...		WSC1DREG	"B'10000000'" WSCREG represents systems which have deregistered
		.1..		WSC1PERM	"B'01000000'" Permanent WSC
		..1.		WSC1IACT	"B'00100000'" At least one member needs to recompute its WSCIACT
		...1		WSC1INIT	"B'00010000'" WSC initialized
21	(15)	BITSTRING	1		Reserved
22	(16)	SIGNED	2	WSCMAFF	Multi-Aff jobs to be selected this cycle
24	(18)	SIGNED	4	WSCDTOD	High order word of TOD when this queue became empty

Table 570. Structure WSC (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
28	(1C)	SIGNED	4	WSCLSTAD	Index of most recently added JQE/JQX
32	(20)	BITSTRING	1	WSCSELCT	Members that can select work based on goals
32	(20)	X'24'	0	WSCLEN1	"*-WSC" Length of first segment
36	(24)	BITSTRING	1	WSCQAFF	Members for which the class has affinity
		The rules for counting initiators and executings batch jobs as a consequence of a $TJnnn command are as follows: o If a job was selected by a WINIT (WLM Initiator), it is forever going to be included when counting active jobs for a service class. o If a job was selected by a JINIT (JES Initiator), it is forever not included when counting active jobs for a service class. o If an executing job's service class is changed from one class to another via a $TJnnn,SRVCLASS=something (something can be all blanks) or a RESET MVS command and the job was selected by a WINIT, then the job will be removed from the original service class count and added to the new service class count (and the initiator count will be changed similarly). The job count can take as long as 30 seconds to be updated. The initiator count is instanteneous. o If a characteristic of an executing job is changed (something that influences the service class assigned to the job), then nothing will be, done to alter any counts. The service class is not changed until and unless the job re-executes. o If a job's job class is changed to a different class and that class has the opposite mode of the original class (original was MODE=JES and new has MODE=WLM or vice versa), there will be no changing of active job count (If the job started as a WINIT job, it stays a WINIT job; if it started as a JINIT job, it stays a JINIT job).				
40	(28)	SIGNED	4	WSCIACT(0)	Initiators active
40	(28)	X'80'	0	WSCLEN2	"*-WSCIACT" Length of init active
168	(A8)	SIGNED	4	WSCJACT(0)	Batch jobs active
168	(A8)	X'80'	0	WSCLEN3	"*-WSCJACT" Length of jobs active
296	(128)	SIGNED	4	WSCGACT(0)	Batch job activity goal
296	(128)	X'80'	0	WSCLEN4	"*-WSCGACT" Length of Goal
424	(1A8)	SIGNED	4	WSCSTOLN(0)	multi-affinity jobs that can be selected on other members
424	(1A8)	X'80'	0	WSCLEN5	"*-WSCSTOLN" Length of stolen array
552	(228)	DBL WORD	8	(0)	
552	(228)	X'228'	0	WSCLEN	"*-WSC"

Table 571. Cross Reference for $WSC

Name	Offset	Hex Tag
WSC	0	

Table 571. Cross Reference for $WSC (continued)

Name	Offset	Hex Tag
WSCDTOD	18	
WSCFLAG1	14	
WSCGACT	128	
WSCIACT	28	
WSCJACT	A8	
WSCLEN	228	228
WSCLEN1	20	24
WSCLEN2	28	80
WSCLEN3	A8	80
WSCLEN4	128	80
WSCLEN5	1A8	80
WSCLSTAD	1C	
WSCMAFF	16	
WSCNAME	0	
WSCQAFF	24	
WSCQHEAD	C	
WSCREG	10	
WSCSELCT	20	
WSCSTOK	8	
WSCSTOLN	1A8	
WSC1DREG	14	80
WSC1IACT	14	20
WSC1INIT	14	10
WSC1PERM	14	40

Chapter 236. $WSP Information

$WSP Programming Interface Information

The following fields are **NOT** programming interface information:

- WSPGTW
- WSPPRTBL

$WSP Heading Information

Common Name:	HASP Work Selection Parameter List
Macro ID:	$WSP
DSECT Name:	WSP
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	WSP Offset: WSPID2-WSP Length: 4
Storage Attributes:	Subpool: 2 Key: 1 Residency: Virtual and real are anywhere
Size:	See WSPLENG
Created by:	As part of DCT creation (see $DCT). Whenever SAPI (Sysout API) needs to select work
Pointed to by:	at label DCTCWS of the DCT SAPWSP field of the SAP data area WSAWSP field of the WSA data area CCTSAWST/CCTSAWXO/CCTSAWXN fields of HCCT data area WSPNACTV/WSPPACTV fields of WSP data area
Serialization:	JES2 reentrancy techniques.
Function:	The WSP is used as a parameter list for $#GET processing. The WSP is built either as part of a DCT or as a stand-alone data area created for SAPI processing. The WSP contains selection criteria used to select JOEs or JQEs. There are two types of WSPs for JOE selection: - WSPs with selection by JOE token - WSPs with selection expression based on the JOE fields WSPs for JQE selection use selection expressions based on JQE felds.

$WSP mapping

Table 572. Structure WSC

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	WSC	HASP WLM Service Class Queue
0	(0)	CHARACTER	8	WSCNAME	Service Class name
8	(8)	BITSTRING	4	WSCSTOK	Service Class token

Table 572. Structure WSC (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
12	(C)	ADDRESS	4	WSCQHEAD	Index of first JQE on the service class queue
16	(10)	BITSTRING	4	WSCREG	Affinity mask for WLM registration/dereg.
20	(14)	BITSTRING	1	WSCFLAG1	Flags
		1...		WSC1DREG	"B'10000000'" WSCREG represents systems which have deregistered
		.1..		WSC1PERM	"B'01000000'" Permanent WSC
		..1.		WSC1IACT	"B'00100000'" At least one member needs to recompute its WSCIACT
		...1		WSC1INIT	"B'00010000'" WSC initialized
21	(15)	BITSTRING	1		Reserved
22	(16)	SIGNED	2	WSCMAFF	Multi-Aff jobs to be selected this cycle
24	(18)	SIGNED	4	WSCDTOD	High order word of TOD when this queue became empty
28	(1C)	SIGNED	4	WSCLSTAD	Index of most recently added JQE/JQX
32	(20)	BITSTRING	1	WSCSELCT	Members that can select work based on goals
32	(20)	X'24'	0	WSCLEN1	"*-WSC" Length of first segment
36	(24)	BITSTRING	1	WSCQAFF	Members for which the class has affinity

The rules for counting initiators and executings batch jobs as a consequence of a $TJnnn command are as follows:

- o If a job was selected by a WINIT (WLM Initiator), it is forever going to be included when counting active jobs for a service class.
- o If a job was selected by a JINIT (JES Initiator), it is forever not included when counting active jobs for a service class.
- o If an executing job's service class is changed from one class to another via a $TJnnn,SRVCLASS=something (something can be all blanks) or a RESET MVS command and the job was selected by a WINIT, then the job will be removed from the original service class count and added to the new service class count (and the initiator count will be changed similarly). The job count can take as long as 30 seconds to be updated. The initiator count is instanteneous.
- o If a characteristic of an executing job is changed (something that influences the service class assigned to the job), then nothing will be, done to alter any counts. The service class is not changed until and unless the job re-executes.
- o If a job's job class is changed to a different class and that class has the opposite mode of the original class (original was MODE=JES and new has MODE=WLM or vice versa), there will be no changing of active job count (If the job started as a WINIT job, it stays a WINIT job; if it started as a JINIT job, it stays a JINIT job).

40	(28)	SIGNED	4	WSCIACT(0)	Initiators active

Table 572. Structure WSC (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
40	(28)	X'80'	0	WSCLEN2	"*-WSCIACT" Length of init active
168	(A8)	SIGNED	4	WSCJACT(0)	Batch jobs active
168	(A8)	X'80'	0	WSCLEN3	"*-WSCJACT" Length of jobs active
296	(128)	SIGNED	4	WSCGACT(0)	Batch job activity goal
296	(128)	X'80'	0	WSCLEN4	"*-WSCGACT" Length of Goal
424	(1A8)	SIGNED	4	WSCSTOLN(0)	multi-affinity jobs that can be selected on other members
424	(1A8)	X'80'	0	WSCLEN5	"*-WSCSTOLN" Length of stolen array
552	(228)	DBL WORD	8	(0)	
552	(228)	X'228'	0	WSCLEN	"*-WSC"

Table 573. Cross Reference for $WSP

Name	Offset	Hex Tag
WSC	0	
WSCDTOD	18	
WSCFLAG1	14	
WSCGACT	128	
WSCIACT	28	
WSCJACT	A8	
WSCLEN	228	228
WSCLEN1	20	24
WSCLEN2	28	80
WSCLEN3	A8	80
WSCLEN4	128	80
WSCLEN5	1A8	80
WSCLSTAD	1C	
WSCMAFF	16	
WSCNAME	0	
WSCQAFF	24	
WSCQHEAD	C	
WSCREG	10	
WSCSELCT	20	
WSCSTOK	8	
WSCSTOLN	1A8	
WSC1DREG	14	80
WSC1IACT	14	20
WSC1INIT	14	10
WSC1PERM	14	40

Chapter 237. $XBCWORK Information

$XBCWORK Heading Information

Common Name: $XBCAST parameter list/work area
Macro ID: $XBCWORK
DSECT Name: XBCWORK
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: 'XBCW'
Offset: XBCEYE
Length: L'XBCEYE
Storage Attributes: Subpool: 1
Key: 1
Residency: JES2 address space. Virtual and Real are above or below the 16M line.

Size: See XBCWLEN
Created by: $XBCAST macro
Pointed to by: R1 when routine XCFBCAST is called
Serialization: JES2 main task re-entrancy.
Function: This control block contains the parameters and work area for the XCFBCAST routine. It is created and initialized by the $XBCAST macro.

$XBCWORK mapping

Table 574. Structure XBCWORK

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	XBCWORK	XBCAST parm list/work area
0	(0)	CHARACTER	4	XBCEYE	Eyecatcher
4	(4)	ADDRESS	1	XBCVERS	Version
4	(4)	X'1'	0	XBCVERSN	"1" Current version
5	(5)	BITSTRING	1	XBCOPT	Broadcast options:
		1...		XBSNDLOC	"B'10000000'" Send to local member
		.1..		XBXSYGRP	"B'01000000'" Use cross system data retrieval XCF group
6	(6)	BITSTRING	2		Reserved
8	(8)	ADDRESS	4	XBCBUFA	Address of buffer to send
12	(C)	ADDRESS	4	XBCBUFL	Length of buffer
16	(10)	ADDRESS	4	XBCMASKA	Address of affinity field
20	(14)	ADDRESS	4	XBCMBNA	Address of mail box name
24	(18)	CHARACTER	16	XBCMEMBN	Member name work area
40	(28)	ADDRESS	4	XBCXGTKN	XCF group token work area
44	(2C)	BITSTRING	4		Reserved
48	(30)	DBL WORD	8	XBCXLST(0)	Doubleword aligned
------- IXZXIXSM MF=(L,XBCXIXSM) Send message MACDATE -10/16/01-<2>					
0	(0)	X'30'	0	M00M1417	"XBCXIXSM" ++ IXZXIXSM NAME
48	(30)	DBL WORD	8	XBCXIXSM(0)	++ IXZXIXSM PARM LIST

Table 574. Structure XBCWORK (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
48	(30)	BITSTRING	1	XBCXIXSM_XVERSION	++ INPUT XVERSION
49	(31)	CHARACTER	6	XBCXIXSM_XEYECATCH	++ CONSTANT XEYECATCH
55	(37)	BITSTRING	1	XBCXIXSM_XMSGATTR	++ INPUT
		1...		XBCXIXSM_XMSGATTR_J3CONNECT	"B'10000000'" ++ XMSGATTR.J3CONNECT KEYWORD
		.1..		XBCXIXSM_XMSGATTR_EXPRESS	"B'01000000'" ++ XMSGATTR.EXPRESS KEYWORD
56	(38)	CHARACTER	16	XBCXIXSM_XMBOXNAME	++ XMBOXNAME
72	(48)	CHARACTER	16	XBCXIXSM_XMEMBER	++ XMEMBER
88	(58)	ADDRESS	4	XBCXIXSM_XDATA	++ XDATA
92	(5C)	SIGNED	4	XBCXIXSM_XDATALEN	++ XDATALEN
96	(60)	BITSTRING	8	XBCXIXSM_XREQTOKEN	++ XREQTOKEN
104	(68)	CHARACTER	16	XBCXIXSM_XREQMBOX	++ XREQMBOX
120	(78)	SIGNED	4	XBCXIXSM_XDATAALET	++ XDATAALET
124	(7C)	SIGNED	4	XBCXIXSM_XRESPDALT	++ XRESPDALT
128	(80)	SIGNED	4	XBCXIXSM_XECB	++ XECB
132	(84)	SIGNED	4	XBCXIXSM_XEXIT	++ XEXIT
136	(88)	BITSTRING	8	XBCXIXSM_XCONNECT	++ XCONNECT
144	(90)	SIGNED	4	XBCXIXSM_XGROUPTOKEN	++ XGROUPTOKEN
148	(94)	SIGNED	4	XBCXIXSM_XUSERRC	++ XUSERRC
152	(98)	SIGNED	4	XBCXIXSM_XRESPDATA	++ XRESPDATA
156	(9C)	SIGNED	4	XBCXIXSM_XRESPDLEN	++ XRESPDLEN
160	(A0)	CHARACTER	4	XBCXIXSM_XRSV00001	++ RESERVED XRSV00001
164	(A4)	BITSTRING	8	XBCXIXSM_XMSGTOKEN	++ XMSGTOKEN
172	(AC)	SIGNED	4	XBCXIXSM_XRIPSIZE	++ XRIPSIZE
176	(B0)	BITSTRING	1	XBCXIXSM_XREQTYPE	++ INPUT
		1...		XBCXIXSM_XREQTYPE_ASYNC	"B'10000000'" ++ XREQTYPE.ASYNC KEYWORD
		.1..		XBCXIXSM_XREQTYPE_SYNC	"B'01000000'" ++ XREQTYPE.SYNC KEYWORD
		..1.		XBCXIXSM_XREQTYPE_ASYNCACK	"B'00100000'" ++ XREQTYPE.ASYNCACK KEYWORD
		...1		XBCXIXSM_XREQTYPE_COMM	"B'00010000'" ++ XREQTYPE.COMM KEYWORD
177	(B1)	BITSTRING	1	XBCXIXSM_XSEGTYPE	++ INPUT
		1...		XBCXIXSM_XSEGTYPE_SINGLE	"B'10000000'" ++ XSEGTYPE.SINGLE KEYWORD
		.1..		XBCXIXSM_XSEGTYPE_FIRST	"B'01000000'" ++ XSEGTYPE.FIRST KEYWORD
		..1.		XBCXIXSM_XSEGTYPE_MIDDLE	"B'00100000'" ++ XSEGTYPE.MIDDLE KEYWORD
		...1		XBCXIXSM_XSEGTYPE_LAST	"B'00010000'" ++ XSEGTYPE.LAST KEYWORD
		.... 1...		XBCXIXSM_XSEGTYPE_ABORT	"B'00001000'" ++ XSEGTYPE.ABORT KEYWORD
178	(B2)	BITSTRING	1	XBCXIXSM_XKEYS	++ FIELD_LABEL
		1...		XBCXIXSM_KEYUSED_REQTYPE	"B'10000000'" ++ KEYUSED.REQTYPE KEYWORD
		.1..		XBCXIXSM_KEYUSED_REQTOKEN	"B'01000000'" ++ KEYUSED.REQTOKEN KEYWORD
		..1.		XBCXIXSM_KEYUSED_REQMBOX	"B'00100000'" ++ KEYUSED.REQMBOX KEYWORD

Table 574. Structure XBCWORK (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		XBCXIXSM_KEYUSED_EXIT	"B'00010000'" ++ KEYUSED.EXIT KEYWORD
		.... 1...		XBCXIXSM_KEYUSED_SEGTYPE	"B'00001000'" ++ KEYUSED.SEGTYPE KEYWORD
		.... .1..		XBCXIXSM_KEYUSED_CONNECT	"B'00000100'" ++ KEYUSED.CONNECT KEYWORD
		.... ..1.		XBCXIXSM_KEYUSED_MSGTOKEN	"B'00000010'" ++ KEYUSED.MSGTOKEN KEYWORD
		1		XBCXIXSM_KEYUSED_MSGATTR	"B'00000001'" ++ KEYUSED.MSGATTR KEYWORD
179	(B3)	BITSTRING	1	XBCXIXSM_XKEYS1	++ FIELD_LABEL
		1...		XBCXIXSM_KEYUSED_ECB	"B'10000000'" ++ KEYUSED.ECB KEYWORD
		.1..		XBCXIXSM_KEYUSED_DATAALET	"B'01000000'" ++ KEYUSED.DATAALET KEYWORD
		..1.		XBCXIXSM_KEYUSED_RELEASE_CADS	"B'00100000'" ++ KEYUSED.RELEASE_CADS KEYWORD
		...1		XBCXIXSM_KEYUSED_RIPSIZE	"B'00010000'" ++ KEYUSED.RIPSIZE KEYWORD
179	(B3)	X'84'	0	XBCXIXSML IXZXIXSM-2	"*-XBCXIXSM" ++ LENGTH OF PLIST
184	(B8)	DBL WORD	8	(0)	Doubleword aligned
184	(B8)	X'30'	0	XBCXLIST	"XBCXLST,*-XBCXLST" IXZ list form
184	(B8)	X'B8'	0	XBCWLEN	"*-XBCWORK" Length of work area

Table 575. Cross Reference for $XBCWORK

Name	Offset	Hex Tag
M00M1417	0	30
XBCBUFA	8	
XBCBUFL	C	
XBCEYE	0	
XBCMASKA	10	
XBCMBNA	14	
XBCMEMBN	18	
XBCOPT	5	
XBCVERS	4	
XBCVERSN	4	1
XBCWLEN	B8	B8
XBCWORK	0	
XBCXGTKN	28	
XBCXIXSM	30	
XBCXIXSM_KEYUSED_CONNECT	B2	4
XBCXIXSM_KEYUSED_DATAALET	B3	40
XBCXIXSM_KEYUSED_ECB	B3	80
XBCXIXSM_KEYUSED_EXIT	B2	10
XBCXIXSM_KEYUSED_MSGATTR	B2	1
XBCXIXSM_KEYUSED_MSGTOKEN	B2	2

Table 575. Cross Reference for $XBCWORK (continued)

Name	Offset	Hex Tag
XBCXIXSM_KEYUSED_RELEASE_CADS	B3	20
XBCXIXSM_KEYUSED_REQMBOX	B2	20
XBCXIXSM_KEYUSED_REQTOKEN	B2	40
XBCXIXSM_KEYUSED_REQTYPE	B2	80
XBCXIXSM_KEYUSED_RIPSIZE	B3	10
XBCXIXSM_KEYUSED_SEGTYPE	B2	8
XBCXIXSM_XCONNECT	88	
XBCXIXSM_XDATA	58	
XBCXIXSM_XDATAALET	78	
XBCXIXSM_XDATALEN	5C	
XBCXIXSM_XECB	80	
XBCXIXSM_XEXIT	84	
XBCXIXSM_XEYECATCH	31	
XBCXIXSM_XGROUPTOKEN	90	
XBCXIXSM_XKEYS	B2	
XBCXIXSM_XKEYS1	B3	
XBCXIXSM_XMBOXNAME	38	
XBCXIXSM_XMEMBER	48	
XBCXIXSM_XMSGATTR	37	
XBCXIXSM_XMSGATTR_EXPRESS	37	40
XBCXIXSM_XMSGATTR_J3CONNECT	37	80
XBCXIXSM_XMSGTOKEN	A4	
XBCXIXSM_XREQMBOX	68	
XBCXIXSM_XREQTOKEN	60	
XBCXIXSM_XREQTYPE	B0	
XBCXIXSM_XREQTYPE_ASYNC	B0	80
XBCXIXSM_XREQTYPE_ASYNCACK	B0	20
XBCXIXSM_XREQTYPE_COMM	B0	10
XBCXIXSM_XREQTYPE_SYNC	B0	40
XBCXIXSM_XRESPDALT	7C	
XBCXIXSM_XRESPDATA	98	
XBCXIXSM_XRESPDLEN	9C	
XBCXIXSM_XRIPSIZE	AC	
XBCXIXSM_XRSV00001	A0	
XBCXIXSM_XSEGTYPE	B1	
XBCXIXSM_XSEGTYPE_ABORT	B1	8
XBCXIXSM_XSEGTYPE_FIRST	B1	40
XBCXIXSM_XSEGTYPE_LAST	B1	10
XBCXIXSM_XSEGTYPE_MIDDLE	B1	20
XBCXIXSM_XSEGTYPE_SINGLE	B1	80
XBCXIXSM_XUSERRC	94	
XBCXIXSM_XVERSION	30	
XBCXIXSML	B3	84
XBCXLIST	B8	30
XBCXLST	30	
XBSNDLOC	5	80
XBXSYGRP	5	40

Chapter 238. $XCMWORK Information

$XCMWORK Heading Information

Common Name:	JES2 XCFCMND PCE Work Area
Macro ID:	$XCMWORK
DSECT Name:	PCE ($XCMWORK is part of the PCE DSECT)
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4
Storage Attributes:	Subpool: See $PCE Key: See $PCE Residency: See $PCE
Size:	See symbol XCMPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by:	See $PCE
Pointed to by:	The $XCMPCE field of the $HCT data area See $PCE for other pointer fields that apply to all PCE types.
Serialization:	Normal PCE dispatch serialization
Function:	The fields in this work area are used by a JES2 XCFCMND Processor and by its support routines and exits. $XCMWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $XCMWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEXCMID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

$XCMWORK mapping

Table 576. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
320	(140)	CHARACTER	16	XCMMBNAM	XCF CMD Mail box name
336	(150)	SIGNED	4	XCMXCECB(0)	XECB for XCF posts
360	(168)	ADDRESS	4	XCMXBUFA	Address of current XREQ
364	(16C)	ADDRESS	4	XCMXBUFP	Current data area pointer
368	(170)	SIGNED	4	XCMXBUFL	Current data area length
372	(174)	BITSTRING	8	XCMXTOKN	Current XCF message token
380	(17C)	ADDRESS	4	XCMACKPT	Acknowledgement XREQ ptr
384	(180)	SIGNED	4	XCMERRCT	ABEND count
		List form macros for JESXCF services			
392	(188)	DBL WORD	8	(0)	
392	(188)	BITSTRING	160	XCMIXLST	JESXCF list form macros
552	(228)	DBL WORD	8	XCMIXEND(0)	End of list form area

Table 576. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
------- IXZXIXAC MF=(L,XCMXIXAC) Acknowledge message MACDATE -11/12/03-<1>					
0	(0)	X'188'	0	M00M1421	"XCMXIXAC" ++ IXZXIXAC NAME
392	(188)	DBL WORD	8	XCMXIXAC(0)	++ IXZXIXAC PARM LIST
392	(188)	BITSTRING	1	XCMXIXAC_XVERSION	++ INPUT XVERSION
393	(189)	CHARACTER	6	XCMXIXAC_XEYECATCH	++ CONSTANT XEYECATCH
399	(18F)	BITSTRING	1	XCMXIXAC_XSTB	++ INPUT
		1...		XCMXIXAC_XSTB_NO	"B'10000000'" ++ XSTB.NO KEYWORD
		.1..		XCMXIXAC_XSTB_YES	"B'01000000'" ++ XSTB.YES KEYWORD
400	(190)	BITSTRING	8	XCMXIXAC_XMSGTOKEN	++ XMSGTOKEN
408	(198)	ADDRESS	4	XCMXIXAC_XDATA	++ XDATA
412	(19C)	SIGNED	4	XCMXIXAC_XDATALEN	++ XDATALEN
416	(1A0)	SIGNED	4	XCMXIXAC_XUSERRC	++ XUSERRC
420	(1A4)	SIGNED	4	XCMXIXAC_XGROUPTOKEN	++ XGROUPTOKEN
424	(1A8)	SIGNED	4	XCMXIXAC_XSYSRC	++ XSYSRC
428	(1AC)	SIGNED	4	XCMXIXAC_XSYSRSN	++ XSYSRSN
432	(1B0)	BITSTRING	1	XCMXIXAC_XKEYS	++ FIELD_LABEL
		1...		XCMXIXAC_KEYUSED_DATA	"B'10000000'" ++ KEYUSED.DATA KEYWORD
		.1..		XCMXIXAC_KEYUSED_DATALEN	"B'01000000'" ++ KEYUSED.DATALEN KEYWORD
		..1.		XCMXIXAC_KEYUSED_USERRC	"B'00100000'" ++ KEYUSED.USERRC KEYWORD
		...1		XCMXIXAC_KEYUSED_SYSRC	"B'00010000'" ++ KEYUSED.SYSRC KEYWORD
		.... 1...		XCMXIXAC_KEYUSED_SYSRSN	"B'00001000'" ++ KEYUSED.SYSRSN KEYWORD
433	(1B1)	BITSTRING	1	XCMXIXAC_XMSGATTR	++ INPUT
		1...		XCMXIXAC_XMSGATTR_J3CONNECT	"B'10000000'" ++ XMSGATTR.J3CONNECT KEYWORD
		.1..		XCMXIXAC_XMSGATTR_EXPRESS	"B'01000000'" ++ XMSGATTR.EXPRESS KEYWORD
433	(1B1)	X'2A'	0	XCMXIXACL IXZXIXAC-1	"*-XCMXIXAC" ++ LENGTH OF PLIST
434	(1B2)	ADDRESS	2	(0)	Ensure area fits
------- IXZXIXMB MF=(L,XCMXIXMB) Create mailbox MACDATE -93/05/10-<1>					
392	(188)	SIGNED	2	M00M1423(0)	IXZXIXMB-1
392	(188)	DBL WORD	8	XCMXIXMB(0)	++ IXZXIXMB PARM LIST
392	(188)	BITSTRING	1	XCMXIXMB_XVERSION	++ INPUT XVERSION
393	(189)	CHARACTER	6	XCMXIXMB_XEYECATCH	++ CONSTANT XEYECATCH
399	(18F)	CHARACTER	1	XCMXIXMB_XRSV0001	++ RESERVED XRSV0001
400	(190)	CHARACTER	16	XCMXIXMB_XMBOXNAME	++ XMBOXNAME
416	(1A0)	ADDRESS	4	XCMXIXMB_XPOSTXIT	++ XPOSTXIT
420	(1A4)	ADDRESS	4	XCMXIXMB_XPOSTDATA	++ XPOSTDATA
424	(1A8)	SIGNED	4	XCMXIXMB_XPOSTALET	++ XPOSTALET
428	(1AC)	SIGNED	4	XCMXIXMB_XGROUPTOKEN	++ XGROUPTOKEN
432	(1B0)	BITSTRING	1	XCMXIXMB_XSYSEVENTS	++ FIELD_LABEL

Table 576. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		XCMXIXMB_XSYSEVENT_YES	"B'10000000'" ++ XSYSEVENT.YES KEYWORD
		.1..		XCMXIXMB_XSYSEVENT_NO	"B'01000000'" ++ XSYSEVENT.NO KEYWORD
432	(1B0)	X'29'	0	XCMXIXMBL	"*-XCMXIXMB" ++ LENGTH OF PLIST
				IXZXIXMB-1	
434	(1B2)	ADDRESS	2	(0)	Ensure area fits
------- IXZXIXMD MF=(L,XCMXIXMD) Delete mailbox MACDATE -93/05/10-<1>					
392	(188)	SIGNED	2	M00M1424(0)	IXZXIXMD-1
392	(188)	DBL WORD	8	XCMXIXMD(0)	++ IXZXIXMD PARM LIST
392	(188)	BITSTRING	1	XCMXIXMD_XVERSION	++ INPUT XVERSION
393	(189)	CHARACTER	6	XCMXIXMD_XEYECATCH	++ CONSTANT XEYECATCH
399	(18F)	BITSTRING	1	XCMXIXMD_XSTB	++ INPUT
		1...		XCMXIXMD_XSTB_NO	"B'10000000'" ++ XSTB.NO KEYWORD
		.1..		XCMXIXMD_XSTB_YES	"B'01000000'" ++ XSTB.YES KEYWORD
400	(190)	CHARACTER	16	XCMXIXMD_XMBOXNAME	++ XMBOXNAME
416	(1A0)	SIGNED	4	XCMXIXMD_XGROUPTOKEN	++ XGROUPTOKEN
416	(1A0)	X'1C'	0	XCMXIXMDL	"*-XCMXIXMD" ++ LENGTH OF PLIST
				IXZXIXMD-1	
420	(1A4)	ADDRESS	2	(0)	Ensure area fits
------- IXZXIXRM MF=(L,XCMXIXRM) Receive message MACDATE -93/05/10-<1>					
392	(188)	SIGNED	2	M00M1425(0)	IXZXIXRM-1
392	(188)	DBL WORD	8	XCMXIXRM(0)	++ IXZXIXRM PARM LIST
392	(188)	BITSTRING	1	XCMXIXRM_XVERSION	++ INPUT XVERSION
393	(189)	CHARACTER	6	XCMXIXRM_XEYECATCH	++ CONSTANT XEYECATCH
399	(18F)	CHARACTER	1	XCMXIXRM_XRSV0001	++ RESERVED XRSV0001
400	(190)	CHARACTER	16	XCMXIXRM_XMBOXNAME	++ XMBOXNAME
416	(1A0)	ADDRESS	4	XCMXIXRM_XDATA	++ XDATA
420	(1A4)	SIGNED	4	XCMXIXRM_XDATALEN	++ XDATALEN
424	(1A8)	BITSTRING	8	XCMXIXRM_XMSGTOKEN	++ XMSGTOKEN
432	(1B0)	SIGNED	4	XCMXIXRM_XGROUPTOKEN	++ XGROUPTOKEN
436	(1B4)	BITSTRING	1	XCMXIXRM_XMSGFETCH	++ INPUT
		1...		XCMXIXRM_XMSGFETCH_ALL	"B'10000000'" ++ XMSGFETCH.ALL KEYWORD
		.1..		XCMXIXRM_XMSGFETCH_MESSAGES	"B'01000000'" ++ XMSGFETCH.MESSAGES KEYWORD
		..1.		XCMXIXRM_XMSGFETCH_SYSEVENT	"B'00100000'" ++ XMSGFETCH.SYSEVENT KEYWORD
		...1		XCMXIXRM_XMSGFETCH_ACKS	"B'00010000'" ++ XMSGFETCH.ACKS KEYWORD
437	(1B5)	BITSTRING	1	XCMXIXRM_XKEYS	++ FIELD_LABEL
		1...		XCMXIXRM_KEYUSED_MSGFETCH	"B'10000000'" ++ KEYUSED.MSGFETCH KEYWORD
437	(1B5)	X'2E'	0	XCMXIXRML	"*-XCMXIXRM" ++ LENGTH OF PLIST
				IXZXIXRM-1	

Table 576. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
438	(1B6)	ADDRESS	2	(0)	Ensure area fits
$SCAN output work area					
552	(228)	CHARACTER	1024	XCMSCANW	SCAN message work area
1576	(628)	ADDRESS	4	XCMXSJBQ	Address of current SJB queue head
1584	(630)	DBL WORD	8	(0)	Force double-word alignment
1584	(630)	X'4F0'	0	XCMPCEWS	"*-PCEWORK" Length of work area

Table 577. Cross Reference for $XCMWORK

Name	Offset	Hex Tag
M00M1421	0	188
M00M1423	188	
M00M1424	188	
M00M1425	188	
PCE	0	
XCMACKPT	17C	
XCMERRCT	180	
XCMIXEND	228	
XCMIXLST	188	
XCMMBNAM	140	E2E8E2D1
XCMPCEWS	630	4F0
XCMSCANW	228	
XCMXBUFA	168	
XCMXBUFL	170	
XCMXBUFP	16C	
XCMXCECB	150	
XCMXIXAC	188	
XCMXIXAC_KEYUSED_DATA	1B0	80
XCMXIXAC_KEYUSED_DATALEN	1B0	40
XCMXIXAC_KEYUSED_SYSRC	1B0	10
XCMXIXAC_KEYUSED_SYSRSN	1B0	8
XCMXIXAC_KEYUSED_USERRC	1B0	20
XCMXIXAC_XDATA	198	
XCMXIXAC_XDATALEN	19C	
XCMXIXAC_XEYECATCH	189	
XCMXIXAC_XGROUPTOKEN	1A4	
XCMXIXAC_XKEYS	1B0	
XCMXIXAC_XMSGATTR	1B1	
XCMXIXAC_XMSGATTR_EXPRESS	1B1	40
XCMXIXAC_XMSGATTR_J3CONNECT	1B1	80
XCMXIXAC_XMSGTOKEN	190	
XCMXIXAC_XSTB	18F	
XCMXIXAC_XSTB_NO	18F	80
XCMXIXAC_XSTB_YES	18F	40
XCMXIXAC_XSYSRC	1A8	
XCMXIXAC_XSYSRSN	1AC	
XCMXIXAC_XUSERRC	1A0	

Table 577. Cross Reference for $XCMWORK (continued)

Name	Offset	Hex Tag
XCMXIXAC_XVERSION	188	
XCMXIXACL	1B1	2A
XCMXIXMB	188	
XCMXIXMB_XEYECATCH	189	
XCMXIXMB_XGROUPTOKEN	1AC	
XCMXIXMB_XMBOXNAME	190	
XCMXIXMB_XPOSTALET	1A8	
XCMXIXMB_XPOSTDATA	1A4	
XCMXIXMB_XPOSTXIT	1A0	
XCMXIXMB_XRSV0001	18F	
XCMXIXMB_XSYSEVENT_NO	1B0	40
XCMXIXMB_XSYSEVENT_YES	1B0	80
XCMXIXMB_XSYSEVENTS	1B0	
XCMXIXMB_XVERSION	188	
XCMXIXMBL	1B0	29
XCMXIXMD	188	
XCMXIXMD_XEYECATCH	189	
XCMXIXMD_XGROUPTOKEN	1A0	
XCMXIXMD_XMBOXNAME	190	
XCMXIXMD_XSTB	18F	
XCMXIXMD_XSTB_NO	18F	80
XCMXIXMD_XSTB_YES	18F	40
XCMXIXMD_XVERSION	188	
XCMXIXMDL	1A0	1C
XCMXIXRM	188	
XCMXIXRM_KEYUSED_MSGFETCH	1B5	80
XCMXIXRM_XDATA	1A0	
XCMXIXRM_XDATALEN	1A4	
XCMXIXRM_XEYECATCH	189	
XCMXIXRM_XGROUPTOKEN	1B0	
XCMXIXRM_XKEYS	1B5	
XCMXIXRM_XMBOXNAME	190	
XCMXIXRM_XMSGFETCH	1B4	
XCMXIXRM_XMSGFETCH_ACKS	1B4	10
XCMXIXRM_XMSGFETCH_ALL	1B4	80
XCMXIXRM_XMSGFETCH_MESSAGES	1B4	40
XCMXIXRM_XMSGFETCH_SYSEVENT	1B4	20
XCMXIXRM_XMSGTOKEN	1A8	
XCMXIXRM_XRSV0001	18F	
XCMXIXRM_XVERSION	188	
XCMXIXRML	1B5	2E
XCMXSJBQ	628	
XCMXTOKN	174	

Chapter 239. $XECB Information

$XECB Programming Interface Information

$XECB is a programming interface.

$XECB Heading Information

Common Name: JES2 Extended event control block
Macro ID: $XECB
DSECT Name: XECB
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: None
Storage Attributes:
```
Subpool:   Any
Key:       Any system key (0-7)
Residency: Anywhere in the private address space
```

Size: See XECBLEN
Created by: Generally part of other data areas
Pointed to by:
```
$EXTECBQ field of the $HCT  data area
$XECBQ   field of the $HCT  data area
XECBCHNS field of the $XECB data area
XECBPSTC field of the $XECB data area
```
Serialization: The XECBCHNS field may only be changed by the JES2 main task. The XECBPSTC field must be updated via compare and swap logic. Standard ECB serialization techniques must be used to update the XECBECB field. These include owning the local lock to update an initialized ECB (X'80000000' of the XECBECB field) and compare and swap if not.

Function: XECBs are used for 2 purposes depending on the environment. In the JES2 main task, they are used to ensure a PCE is $POSTed when an ECB is posted. This uses the first mapping of the XECB and the $WAIT, $XECBSRV, and MVS post service.
The second use of XECBs can occur in any environment. This function allows for a processing routine to get control when the ECB is posted. In this case, the $XECBSRV service is used to set up the XECB, identify the processing routine and the parameter to pass to the processing routine. The processing routine can get control in task or SRB mode. See $XECBSRV for more information.

$XECB mapping

Table 578. Structure XECB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	XECB	XECB DSECT
0	(0)	SIGNED	4	XECBECB	EXTENDED EVENT CONTROL BLOCK
4	(4)	SIGNED	4	XECBPCE	PCE to dispatch on MVS POST (high bit off)

Table 578. Structure XECB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
8	(8)	BITSTRING	12	XECBCHNS(0)	NEXT 3 FIELDS STAY TOGETHER
8	(8)	SIGNED	4	XECBQNXT	A(NEXT XECB) ON $XECBQ
12	(C)	SIGNED	4	XECBPSTC	POSTED ECB CHAINING FIELD
16	(10)	SIGNED	4	XECBQPRV	A(PREVIOUS XECB) ON $XECBQ
20	(14)	BITSTRING	1	XECBFLG1	General flag byte
		1...		XECB1CNV	"B'10000000'" ECB has been converted
		.1..		XECB1PRI	"B'01000000'" High priority PCE waiting
21	(15)	BITSTRING	3		Reserved
21	(15)	X'18'	0	XECBLEN	"*-XECB" EXTENDED ECB STRUCTURE LENGTH
Extended ECB for non-main task services					
4	(4)	ADDRESS	4	XECBRTN	Processing routine address (high bit on)
8	(8)	DBL WORD	8	XECBPRM0	Register 0 on entry
16	(10)	DBL WORD	8	XECBPRM1	Register 1 on entry
16	(10)	X'18'	0	XECBULEN	"*-XECB" Length of XECB
24	(18)	ADDRESS	2	(0)	Ensure both XECBs
24	(18)	ADDRESS	2	(0)	are the same length

Table 579. Cross Reference for $XECB

Name	Offset	Hex Tag
XECB	0	
XECBCHNS	8	
XECBECB	0	
XECBFLG1	14	
XECBLEN	15	18
XECBPCE	4	
XECBPRM0	8	
XECBPRM1	10	
XECBPSTC	C	
XECBQNXT	8	
XECBQPRV	10	
XECBRTN	4	
XECBULEN	10	18
XECB1CNV	14	80
XECB1PRI	14	40

Chapter 240. $XEQWORK Information

$XEQWORK Programming Interface Information

$XEQWORK is a programming interface.

$XEQWORK Heading Information

Common Name:	JES2 Execution PCE Work Area
Macro ID:	$XEQWORK
DSECT Name:	PCE ($XEQWORK is part of the PCE DSECT)
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4
Storage Attributes:	Subpool: See $PCE Key: See $PCE Residency: See $PCE
Size:	See symbol XEQPCEWS for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by:	See $PCE
Pointed to by:	$EXECPCE field of the $HCT data area See $PCE for other pointer fields that apply to all PCE types.
Serialization:	Normal PCE dispatch serialization
Function:	The fields in this work area are used by a JES2 Execution Processor and by its support routines and exits. $XEQWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $XEQWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEXEQID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

$XEQWORK mapping

Table 580. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	, Continue PCE DSECT
320	(140)	SIGNED	4	XEQOFFST	SJB QUEUE TABLE OFFSET
324	(144)	SIGNED	4	XEQXPARM(0)	EXIT PARM LIST
324	(144)	SIGNED	4	XEQXSJB	EXIT PARM ONE
328	(148)	SIGNED	4	XEQNXTTK	NEXT CKPT TOKEN TO $CHECK
332	(14C)	SIGNED	4	XEQLSTTK	LAST CKPT TOKEN $CHECKED
336	(150)	SIGNED	4	XEQTOPST	CKPT TOKEN TO BE POSTED
340	(154)	SIGNED	4	XEQXECB(0)	HASPXEQ SVJ lock ENQ ECB and jobgroup logging termination
364	(16C)	SIGNED	4	XEQENQST(0)	True start of ENQ list

Table 580. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
	MACRO-DATE = 03/16/15				
364	(16C)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
364	(16C)	ADDRESS	4		PREFIX - ECB ADDRESS
364	(16C)	X'170'	0	XEQENQPL	"*" X02113
368	(170)	ADDRESS	1		PELLAST flag byte. X02113
369	(171)	ADDRESS	1		PELMILEN - RNAME length.
370	(172)	BITSTRING	1		
				PELFLAG - flag byte 2.	
371	(173)	ADDRESS	1		PELRET - return code byte.
372	(174)	ADDRESS	4		QNAME ADDRESS
376	(178)	ADDRESS	4		RNAME ADDRESS
376	(178)	X'16C'	0	XEQENQL	"XEQENQST,*-XEQENQST" ENQ parm length, IPCS use
380	(17C)	SIGNED	4	XEQDEQST(0)	True start of DEQ list
	MACRO-DATE = 03/16/2015				
380	(17C)	SIGNED	4	(0)	ESTABLISH A FULLWORD BOUNDARY
380	(17C)	X'17C'	0	XEQDEQPL	"*" X02113
380	(17C)	ADDRESS	1		PELLAST flag byte. X02113
381	(17D)	ADDRESS	1		PELMILEN - RNAME length.
382	(17E)	BITSTRING	1		
				PELFLAG - flag byte 2.	
383	(17F)	ADDRESS	1		PELRET - return code byte.
384	(180)	ADDRESS	4		QNAME ADDRESS
388	(184)	ADDRESS	4		RNAME ADDRESS
388	(184)	X'17C'	0	XEQDEQL	"XEQDEQST,*-XEQDEQST" DEQ parm length, IPCS use
392	(188)	CHARACTER	108	XEQMSGWA	$WTO work area
500	(1F4)	ADDRESS	4	XEQPARM	NODE TABLE ADDRESS
504	(1F8)	ADDRESS	4		CONTROL BLOCK ADDRESS
508	(1FC)	ADDRESS	4		ADDRESS OF JQE
512	(200)	ADDRESS	1		QUEUE TYPE SPECIFIED
513	(201)	ADDRESS	1		WORK SELECTION TYPE FLAG
514	(202)	ADDRESS	1		RESERVED FOR FUTURE USE
514	(202)	X'1F4'	0	XEQLST	"XEQPARM,*-XEQPARM" QGET PARAMETER LIST STORAGE
515	(203)	CHARACTER	2	XEQJOBSL	FAKE JOB CARD SLASHES
517	(205)	CHARACTER	8	XEQJOBNM	Fake job card name in RJCS, also used as job name work area in HASPXEQ
525	(20D)	CHARACTER	12	XEQJOBFN	FAKE JOB CARD FUNCTION NAME
537	(219)	BITSTRING	1	XEQSJBF1	SJBFLG1 after SJB is freed
538	(21A)	BITSTRING	1	XEQSJBF2	SJBFLG2 after SJB is freed
539	(21B)	BITSTRING	1	XEQFLAG1	Flags
		1...		XEQ1NDUP	"B'10000000'" Skip release of jobs with duplicate jobnames
		.1..		XEQ1SCAN	"B'01000000'" Do scan of inits
		..1.		XEQ1X14	"B'00100000'" Exit 14 enabled
		...1		XEQ1NOPT	"B'00010000'" Don't optimize class list/ service class list

Table 580. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		XEQ1714I	"B'00001000'" 714 message issued at least once
		.... .1..		XEQ1PHDT	"B'00000100'" Dump taken at $PJES2 time for outstanding AS's
		.... ..1.		XEQ1PHDS	"B'00000010'" Conditions ripe to take HASP714 dump
		1		XEQ1PHNR	"B'00000001'" No more room in ASID list supplied to SDUMPX
540	(21C)	BITSTRING	1	XEQSJBFB	SJBFLGB after SJB is freed
541	(21D)	CHARACTER	6	XEQRSV1	Reserved for future use
548	(224)	SIGNED	4	XEQHSBCT	Current count of HASB's
552	(228)	SIGNED	4	XEQHSBCP	Previous count of HASB's
560	(230)	DBL WORD	8	XEQWTTIM	Time of last wait at start of $QGET
568	(238)	BITSTRING	4	XEQLDVID	Last used psuedo-device id
576	(240)	DBL WORD	8	XEQPHWAI	TOD when last exit from $PHASP
584	(248)	CHARACTER	8	XEQJNAME	Jobname from job card
592	(250)	BITSTRING	1	XEQJQEF7	Copy of JQEFLAG7
593	(251)	BITSTRING	1	XEQFLAG2	Flags
		1...		XEQ2WITH	"B'10000000'" Unmatched WITH= jobs
		.1..		XEQ2SVJL	"B'01000000'" SVJ lock is held
594	(252)	BITSTRING	2		Reserved for future use
596	(254)	ADDRESS	4	XEQXWM	Queue head for sevice class optimization elements
600	(258)	SIGNED	4	XEQPTIME	TOD $PJES2 process'g began wait-a-bit loop
604	(25C)	SIGNED	4	XEQDTIME	TOD $PJES2 processing began interval to HASP714 dump
608	(260)	SIGNED	2	XEQASIDL(5)	ASID list for SDUMPX and HASP715
608	(260)	X'5'	0	XEQASDNO	"(*-XEQASIDL)/2" Number of ASIDs allowed
618	(26A)	BITSTRING	2		Reserved for future use
620	(26C)	SIGNED	4	XEQDOMID	DOMID for $HASP714
624	(270)	BITSTRING	12	XEQTQE	XEQ TQE for $STIMER
636	(27C)	SIGNED	1	XEQSJBPR	Priority of job from SJB
637	(27D)	BITSTRING	1	XEQSJFN1	Request type from SJB
638	(27E)	BITSTRING	2		Reserved for future use
640	(280)	SIGNED	4	XEQ715DM	DOMID for $HASP715
644	(284)	CHARACTER	8	XEQJBNML(5)	JOBNAME list for HASP715
644	(284)	X'5'	0	XEQJBNMN	"(*-XEQJBNML)/8" Number of JOBNAMEs allowed
684	(2AC)	SIGNED	4	XEQASDSA	ASDS data space ALET
688	(2B0)	BITSTRING	1	XEQWLMIS	WLM Init ASDS ent stat updt
689	(2B1)	BITSTRING	15	XEQRSV2	Reserved for future use
704	(2C0)	DBL WORD	8	(0)	ALIGN XEQ WORK
704	(2C0)	X'180'	0	XEQPCEWS	"*-PCEWORK" XEQ PCE WORK AREA LENGTH

Table 581. Cross Reference for $XEQWORK

Name	Offset	Hex Tag
PCE	0	

Table 581. Cross Reference for $XEQWORK (continued)

Name	Offset	Hex Tag
XEQASDNO	260	5
XEQASDSA	2AC	
XEQASIDL	260	
XEQDEQL	184	17C
XEQDEQPL	17C	17C
XEQDEQST	17C	
XEQDOMID	26C	
XEQDTIME	25C	
XEQENQL	178	16C
XEQENQPL	16C	170
XEQENQST	16C	
XEQFLAG1	21B	
XEQFLAG2	251	
XEQHSBCP	228	
XEQHSBCT	224	
XEQJBNML	284	
XEQJBNMN	284	5
XEQJNAME	248	
XEQJOBFN	20D	
XEQJOBNM	205	
XEQJOBSL	203	
XEQJQEF7	250	
XEQLDVID	238	
XEQLST	202	1F4
XEQLSTTK	14C	
XEQMSGWA	188	
XEQNXTTK	148	
XEQOFFST	140	
XEQPARM	1F4	
XEQPCEWS	2C0	180
XEQPHWAI	240	
XEQPTIME	258	
XEQRSV1	21D	
XEQRSV2	2B1	
XEQSJBFB	21C	
XEQSJBF1	219	
XEQSJBF2	21A	
XEQSJBPR	27C	
XEQSJFN1	27D	
XEQTOPST	150	
XEQTQE	270	
XEQWLMIS	2B0	
XEQWTTIM	230	
XEQXECB	154	
XEQXPARM	144	
XEQXSJB	144	
XEQXWM	254	
XEQ1NDUP	21B	80
XEQ1NOPT	21B	10

Table 581. Cross Reference for $XEQWORK (continued)

Name	Offset	Hex Tag
XEQ1PHDS	21B	2
XEQ1PHDT	21B	4
XEQ1PHNR	21B	1
XEQ1SCAN	21B	40
XEQ1X14	21B	20
XEQ1714I	21B	8
XEQ2SVJL	251	40
XEQ2WITH	251	80
XEQ715DM	280	

Chapter 241. $XFMWORK Information

$XFMWORK Programming Interface Information

$XFMWORK is a programming interface.

$XFMWORK Heading Information

Common Name:	SPOOL Transfer I/O Manager Work Area
Macro ID:	$XFMWORK
DSECT Name:	PCE ($XFMWORK is part of the PCE DSECT)
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4
Storage Attributes:	Subpool: See $PCE Key: See $PCE Residency: See $PCE
Size:	See symbol XFMLEN for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by:	See $PCE
Pointed to by:	The $SOMPCE field of the $HCT data area See $PCE for other pointer fields that apply to all PCE types.
Serialization:	Normal PCE dispatch serialization
Function:	The fields in this PCE work area area used by the SPOOL offload manager PCE. $XFMWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $XFMWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEXFMID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

$XFMWORK mapping

Table 582. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	HASP SPOOL TRANSFER I/O MANAGER
320	(140)	BITSTRING	12	XFMSCTQE	TQE FOR TERMIN. INTERVAL SCANS
332	(14C)	ADDRESS	4	XFMSCPTR	POINTER TO NEXT SCAN ELEMENT
336	(150)	ADDRESS	4	XFMBUFQ	QUEUE FOR REORDERED COMPLETE BUFFERS
340	(154)	ADDRESS	4	XFMSCDCT	SAVE AREA FOR SUBT SCAN DCT PNTR
344	(158)	DBL WORD	8	XFMCTIME	WORK AREA FOR TERM INTERVL SCAN
352	(160)	BITSTRING	1	XFMMASK	COPY OF LOW ORDER BYTE OF $STIMASK
353	(161)	BITSTRING	1	XFMFLAG1	TIMER ACTIVE FLAG
		1111 1111		XFM1TACT	"X'FF'" TIMER IS ACTIVE

Table 582. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		....		XFM1EXP	"X'00'" TIMER IS EXPIRED
354	(162)	BITSTRING	1	XFMFLAG2	SECOND FLAG BYTE
		1...		XFM2STRT	"B'10000000'" TRANS/RECEIVER BEEN STARTED
355	(163)	CHARACTER	125	XFMMSG	AREA FOR BUILDING MESSAGES
355	(163)	X'A0'	0	XFMLEN	"*-PCEWORK" JOB RECEIVER PCE WORK AREA LENGTH

Table 583. Cross Reference for $XFMWORK

Name	Offset	Hex Tag
PCE	0	
XFMBUFQ	150	
XFMCTIME	158	
XFMFLAG1	161	
XFMFLAG2	162	
XFMLEN	163	A0
XFMMASK	160	
XFMMSG	163	
XFMSCDCT	154	
XFMSCPTR	14C	
XFMSCTQE	140	
XFM1EXP	161	0
XFM1TACT	161	FF
XFM2STRT	162	80

Chapter 242. $XIT Information

$XIT Heading Information

Common Name:	Exit information table
Macro ID:	$XIT
DSECT Name:	XIT
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'XIT ' Offset: -8 (prefix field $CSPID, before all XITs) Length: 4
Storage Attributes:	Subpool: 241 Key: 1 Residency: Virtual and real storage are anywhere, above or below 16M, in common storage.
Size:	See the XITLNGTH equate.
Created by:	A temporary XIT is created early in initialization in JES2 private storage. The permanent XIT is created in common storage by JES2 initialization after exit-related parameters are processed.
Pointed to by:	The first XIT entry (exit 0) is pointed to by the $XITADDR field of the $HCT data area, and by the CCTXITA field in the $HCCT data area.
Serialization:	The fields that define an exit point and its routines are determined during JES2 initialization and should remain read-only afterward. The flags can be changed by the JES2 main task, for example via commands. The use count is managed with compare-and-swap logic.
Function:	The XIT is used as part of the JES2 installation exit facilities. It defines the exit points, points to the exit routines associated with each exit point, and is used for status and control information.

$XIT mapping

Table 584. Structure XIT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	XIT	HASP EXIT INFO TABLE DSECT
0	(0)	BITSTRING	1	XITFLAGS	EXIT FLAGS
		1...		XITENBLD	"B'10000000'" Exit is enabled
		.1..		XITTRACE	"B'01000000'" Exit is tracing
0	(0)	X'C0'	0	XITEBLTR	"XITENBLD+XITTRACE" Enabled and tracing
		..1.		XITENTDS	"B'00100000'" Exit was entered while it was disabled
		...1		XITRFRSH	"B'00010000'" Refresh routine list
		.... 1...		XITBPD	"B'00001000'" Bypass Exit point defined check for Exit point in HASPFSSM

Table 584. Structure XIT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ..1.		XITCMN	"B'00000010'" Exit must be in CSA/LPA
		1		XITDEF	"B'00000001'" Exit is defined
0	(0)	X'81'	0	XITDENBL	"XITDEF+XITENBLD" EXIT IS DEFINED AND ENABLED
1	(1)	ADDRESS	1	XITNUMBR	Exit number
2	(2)	BITSTRING	2		Reserved
4	(4)	ADDRESS	4	XITXRTAD	Address of the first XRT entry for this exit point
8	(8)	CHARACTER	1	XITENVIR	Assembly environment(s) for the exit, see MITENVIR
9	(9)	BITSTRING	2		Reserved for future use
11	(B)	BITSTRING	1	XITFDIAG	Flags for internal testing
		1...		XITFWTO	"B'10000000'" WTO
		.1..		XITFWTOL	"B'01000000'" WTO (long)
		..1.		XITFWTOR	"B'00100000'" WTOR
		...1		XITFWTOS	"B'00010000'" WTOR (special)
		.... 1...		XITFWAIT	"B'00001000'" WTOR (MVS WAIT)
		.... .1..		XITFLOOP	"B'00000100'" LOOP
		.... ..1.		XITFEXIT	"B'00000010'" EXIT
11	(B)	X'C'	0	XITLNGTH	"*-XIT" LENGTH OF DSECT
0	(0)	CHARACTER	12	XITE	XIT entry

Table 585. Cross Reference for $XIT

Name	Offset	Hex Tag
XIT	0	
XITBPD	0	8
XITCMN	0	2
XITDEF	0	1
XITDENBL	0	81
XITE	0	
XITEBLTR	0	C0
XITENBLD	0	80
XITENTDS	0	20
XITENVIR	8	
XITFDIAG	B	
XITFEXIT	B	2
XITFLAGS	0	
XITFLOOP	B	4
XITFWAIT	B	8
XITFWTO	B	80
XITFWTOL	B	40
XITFWTOR	B	20
XITFWTOS	B	10
XITLNGTH	B	C
XITNUMBR	1	
XITRFRSH	0	10
XITTRACE	0	40
XITXRTAD	4	

Chapter 243. $XMAS Information

$XMAS Programming Interface Information

$XMAS is a programming interface.

$XMAS Heading Information

Common Name:	JES2 Cross MAS Coupling Block and XCF MAS Member Status Block
Macro ID:	$XMAS
DSECT Name:	XMA, XMAQENT
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	XMAS for XMA dsect (None for XMAQENT) Offset: XMAID-XMA for XMA dsect (N/A for XMAQENT) Length: L'XMAID for XMA dsect (N/A for XMAQENT)
Storage Attributes:	Subpool: 0 for XMA, 228 for XMAQENT Key: 1 Residency: Virtual and real storage for XMA are anywhere in the JES2 address space. Virtual and real storage for XMAQENT are anywhere in ECSA.
Size:	See XMALEN for XMA dsect See XMAQELEN for XMAQENT dsect
Created by:	JES2 Initialization for XMA (and XRENXMAS recovery routine in HASPXCF). XCFJOIN routine in HASPXCF for XMAQENT.
Pointed to by:	XMA - $XMASADR field of the $HCT data area XMAQENT - CCTXMAQ field of the $HCCT data area
Serialization:	None required
Function:	The JES2 cross MAS coupling block (XMA) is used to maintain the fields used for cross member and cross MAS communication. The XCF MAS member status block (XMAQENT) contains current status information for the member. It is also used to communicate $ESYS requests from the XCF PCE to the WARM start PCE.

$XMAS mapping

Table 586. Structure XMA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	XMA	Cross MAS Coupling DSECT
0	(0)	CHARACTER	4	XMAID	XMAS Identifier
4	(4)	BITSTRING	1	XMAVRSN	XMAS Version
4	(4)	X'2'	0	XMAVNUM	"2" Version Number
5	(5)	BITSTRING	3		Reserved for future use
8	(8)	DBL WORD	8	XMAMEMDT	MEMDATA passed on join Reserved for IBM use
16	(10)	BITSTRING	8		Reserved for future use

Table 586. Structure XMA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
24	(18)	BITSTRING	16	XMAMEMNM	XCF member name consists of node name and SID with blanks removed
40	(28)	SIGNED	4	XMARTN	XCF return code
44	(2C)	SIGNED	4	XMARSN	XCF reason code
48	(30)	CHARACTER	8	XMASERV	JESXCF service name
56	(38)	BITSTRING	1	XMAFLAG1	Footprint flag
		1...		XMA1JOIN	"B'10000000'" Join complete
		.1..		XMA1INIT	"B'01000000'" XCF processor initialized
		...1		XMA1AXMA	"B'00010000'" This is an alternate XMAS
57	(39)	BITSTRING	1	XMAFLAG2	FRR flag
		1...		XMA2FRR	"B'10000000'" Group exit FRR entered once
		.1..		XMA2CDEL	"B'01000000'" Cell to delete in XCFGEX
58	(3A)	BITSTRING	1	XMAMODE	Sysplex mode FLAG
		1		XMAMLOCL	"B'00000001'" Local mode
59	(3B)	BITSTRING	1	XMAFLAG3	Flag is used for footprint
		1...		XMA3INIT	"B'10000000'" In XCFINIT code
		.1..		XMA3SYSG	"B'01000000'" In XCFSGONE routine
		..1.		XMA3MEMS	"B'00100000'" In XCFEMEMS routine
		...1		XMA3USRS	"B'00010000'" In XCFEUSRS routine
		.... 1...		XMA3JOIN	"B'00001000'" In XCFJOIN routine
		.... .1..		XMA3USTA	"B'00000100'" In XCFUSTAT routine
		.... ..1.		XMA3LEAV	"B'00000010'" In XCFLEAVE routine
		1		XMA3QUER	"B'00000001'" In XCFQSTAT routine
60	(3C)	BITSTRING	1	XMAFLAG4	Flag is used for footprint
		1...		XMA4DQ	"B'10000000'" XCFMAIN process requests
		.1..		XMA4MAPE	"B'01000000'" XCFMAPEV maps event to QSE XCFDQ thru XCFDOR labels
		..1.		XMA4PURG	"B'00100000'" XCFPURG delete old members
		...1		XMA4DELT	"B'00010000'" XCFDELET delete old members
		.... 1...		XMA4MQER	"B'00001000'" In XCFMSTAT routine
		.... .1..		XMA4MEMN	"B'00000100'" In XCFMEMN routine
		.... ..1.		XMA4XMQU	"B'00000010'" In XCFXMAQU routine
61	(3D)	BITSTRING	1	XMAFLAG5	Flag for service routines
		1...		XMA5ESYS	"B'10000000'" XCFMAPEV has updated a QSE for automatic ESYS
62	(3E)	BITSTRING	1	XMAFLAG6	Flag marks blocks in error
		1...		XMA6XMAS	"B'10000000'" $XMAS has error fields

Table 586. Structure XMA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
63	(3F)	BITSTRING	1		Reserved for IBM use
64	(40)	SIGNED	4	(0)	
64	(40)	BITSTRING	24	XMAXECB	XECB POSTed on events sent from group exit.
88	(58)	SIGNED	4		Reserved for IBM use
92	(5C)	SIGNED	4		Reserved for IBM use
92	(5C)	X'60'	0	XMAVRALN	"*-XMA" Size of area of XMAS to be included in VRA
96	(60)	SIGNED	4		Reserved for IBM use
100	(64)	BITSTRING	4	XMASYTOK(0)	System id/token for MVS
100	(64)	BITSTRING	1	XMASNUM	System slot number
101	(65)	BITSTRING	3		System number
104	(68)	CHARACTER	8	XMASYSNM	System name except in the event of IXCJOIN failure (XMA1JOIN off) then null
112	(70)	CHARACTER	8	XMAPLXNM	Sysplex name except in the event of IXCJOIN failure (XMA1JOIN off) then null
120	(78)	SIGNED	4	XMAPTIME	Last entry to XCFPURG
124	(7C)	SIGNED	4		Reserved for IBM use
128	(80)	CHARACTER	4	XMASIDNM	SID name work area for messages
132	(84)	SIGNED	4	XMAMADDR	Message address
136	(88)	SIGNED	4	XMAMLEN	Message length
140	(8C)	SIGNED	4	XMAMTOKE(2)	JESXCF Message token
152	(98)	DBL WORD	8	XMAMTOKN	XCF Member token
160	(A0)	BITSTRING	4	XMAMEMUP	MAS member up table
164	(A4)	BITSTRING	4	XMAMEMAT	MAS member active table (XMAMEMUP + hot-startable)
168	(A8)	BITSTRING	4	XMANPMUP	NPM member up table
172	(AC)	BITSTRING	4	XMACDCUP	CDC member up table
176	(B0)	SIGNED	4	XMAAXRQ	Active XRQ being processed
180	(B4)	BITSTRING	184	XMAQDATA	Work area for XMAQENT
364	(16C)	SIGNED	4	XMADIAG	JESXCF Diagnostic area
368	(170)	DBL WORD	8	(0)	
368	(170)	CHARACTER	8	XMAJNNM	Node name use to join XCF (part of XCF member name)
XMABLDM $BLDMSG MF=L List form of $BLDMSG					
376	(178)	SIGNED	4	XMABLDM(0)	Control block ID
380	(17C)	BITSTRING	4		Console ID
384	(180)	ADDRESS	4		Address of the CART
388	(184)	ADDRESS	4		Pointer for JOBID
392	(188)	ADDRESS	4		Control block address
396	(18C)	ADDRESS	4		Display routine address
400	(190)	ADDRESS	4	(6)	6 word work area
424	(1A8)	ADDRESS	4		Caller's R11 value
428	(1AC)	BITSTRING	2		ROUT code for Message
430	(1AE)	BITSTRING	2		Not used
432	(1B0)	CHARACTER	4		Message ID
436	(1B4)	CHARACTER	1		Separator character
437	(1B5)	ADDRESS	1		Flag byte 1
438	(1B6)	ADDRESS	1		'DISPER'
439	(1B7)	ADDRESS	1		Flag byte 2

Table 586. Structure XMA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
440	(1B8)	ADDRESS	1		Flag byte 3
441	(1B9)	CHARACTER	8		Symbolic name of dest.
449	(1C1)	BITSTRING	15		Not used
464	(1D0)	ADDRESS	4	(0)	Ensure multiple of 4
464	(1D0)	ADDRESS	2	(0)	
0	(0)	X'58'	0	XMABLDML	"*-XMABLDM" Size of $BLDMSGL expansion
		The XMAXUS field is used to update the user state field for this member. The field is available with this member's record in XCF. The field is limited to 32 bytes and used on for the IXZXIXUS macro to change the user state field in XCF. It is also used to maintain the SYSPLEXID for the current operating sysplex.			
464	(1D0)	DBL WORD	8	(0)	
464	(1D0)	BITSTRING	1	XMAXUSST	HASPXCF USER STATE FIELD
		End of the XMAXUS field.			
496	(1F0)	SIGNED	4	XMAMEMST	Anchor for answer area obtained to IXCQUERY all members in SYSZJES2 group
500	(1F4)	SIGNED	4	XMAOXMAS	Original XMAS. Invalid XMAS found in recovery
		The following fields are used by MVS macros to return data. Because the sizes of these fields may expand without obvious indications during one assembly, these fields should not be accessed outside of the HASPXCF module. Also, fields other than the MVS fields that are to be accessed outside of this module, should precede this comment.			
504	(1F8)	BITSTRING	16	XMAOTHMN	Work area to build and contain other member names
520	(208)	BITSTRING	8	XMAPLIWK	Sysplex id work area
528	(210)	SIGNED	4	XMAIFALN	Length of answer area
532	(214)	ADDRESS	4	XMAIFAA	IXZXIXIF answer area pointer
536	(218)	DBL WORD	8	(0)	Double word alignment
		IXCQUERY MF=(L,XMAMFLQR) IXCQUERY list area MACDATE -09/24/13-<2>			
0	(0)	X'218'	0	M00M1429	"XMAMFLQR" ++ IXCQUERY NAME
536	(218)	DBL WORD	8	XMAMFLQR(0)	++ IXCQUERY PARM LIST
536	(218)	BITSTRING	1	XMAMFLQR_XVERSION	++ INPUT XVERSION
537	(219)	BITSTRING	1	XMAMFLQR_XREQTYPE	++ XREQTYPE
537	(219)	X'10'	0	XMAMFLQR_XREQTYPE_IMMEDIATE	"16" ++ XREQTYPE.IMMEDIATE KEYWORD
537	(219)	X'5'	0	XMAMFLQR_XREQTYPE_DEFER	"5" ++ XREQTYPE.DEFER KEYWORD
538	(21A)	BITSTRING	1	XMAMFLQR_XREQINFO	++ XREQINFO
538	(21A)	X'80'	0	XMAMFLQR_XREQINFO_GROUP	"128" ++ XREQINFO.GROUP KEYWORD
538	(21A)	X'40'	0	XMAMFLQR_XREQINFO_SYSPLEX	"64" ++ XREQINFO.SYSPLEX KEYWORD
538	(21A)	X'3F'	0	XMAMFLQR_XREQINFO_CDS	"63" ++ XREQINFO.CDS KEYWORD
538	(21A)	X'3E'	0	XMAMFLQR_XREQINFO_CDS_ALLDATA	

Table 586. Structure XMA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"62" ++ XREQINFO.CDS_ALLDATA KEYWORD
538	(21A)	X'20'	0	XMAMFLQR_XREQINFO_CF	"32" ++ XREQINFO.CF KEYWORD
538	(21A)	X'10'	0	XMAMFLQR_XREQINFO_STR	"16" ++ XREQINFO.STR KEYWORD
538	(21A)	X'8'	0	XMAMFLQR_XREQINFO_CF_ALLDATA	"8" ++ XREQINFO.CF_ALLDATA KEYWORD
538	(21A)	X'4'	0	XMAMFLQR_XREQINFO_STR_ALLDATA	"4" ++ XREQINFO.STR_ALLDATA KEYWORD
538	(21A)	X'2'	0	XMAMFLQR_XREQINFO_ARMSTATUS	"2" ++ XREQINFO.ARMSTATUS KEYWORD
538	(21A)	X'1'	0	XMAMFLQR_XREQINFO_ARMS_ALLDATA	"1" ++ XREQINFO.ARMS_ALLDATA KEYWORD
539	(21B)	BITSTRING	1	XMAMFLQR_XQUAALEVEL	++
540	(21C)	ADDRESS	4	XMAMFLQR_XANSAREA_ADDR	++ ADDR
544	(220)	SIGNED	4	XMAMFLQR_XANSAREA_ALET	++ ALET
548	(224)	SIGNED	4	XMAMFLQR_XANSLEN	++
552	(228)	CHARACTER	8	XMAMFLQR_XGRPNAME	++
560	(230)	CHARACTER	16	XMAMFLQR_XMEMNAME	++
560	(230)	X'240'	0	XMAMFLQR_PL_END	"*" ++ END OF BASE PLIST
560	(230)	BITSTRING	8	XMAMFLQR_XMEMTOKEN	++
552	(228)	CHARACTER	8	XMAMFLQR_XCFNAME	++
560	(230)	CHARACTER	16	XMAMFLQR_XSTRNAME	++
552	(228)	CHARACTER	8	XMAMFLQR_XCDSTYPE	++
576	(240)	X'28'	0	XMAMFLQRL	"*-XMAMFLQR" ++ LENGTH OF PLIST
				IXCQUERY-2	
576	(240)	DBL WORD	8	(0)	Double word alignment
				IXZXIXAT MF=(L,XMAMFLAT) IXZXIXAT list area MACDATE -00/01/11-<6>	
0	(0)	X'240'	0	M00M1431	"XMAMFLAT" ++ IXZXIXAT NAME
576	(240)	DBL WORD	8	XMAMFLAT(0)	++ IXZXIXAT PARM LIST
576	(240)	BITSTRING	1	XMAMFLAT_XVERSION	++ INPUT XVERSION
577	(241)	CHARACTER	6	XMAMFLAT_XEYECATCH	++ CONSTANT
583	(247)	CHARACTER	1	XMAMFLAT_XRSV0001	++ RESERVED
584	(248)	CHARACTER	8	XMAMFLAT_XGROUP	++
592	(250)	CHARACTER	16	XMAMFLAT_XMEMBER	++
608	(260)	CHARACTER	8	XMAMFLAT_XRELEASE	++
616	(268)	SIGNED	4	XMAMFLAT_XMAINTLVL	++ CONSTANT
620	(26C)	SIGNED	4	XMAMFLAT_XGROUPTOKEN	++
624	(270)	BITSTRING	1	XMAMFLAT_XFLAG1	++ FIELD_LABEL
		1...		XMAMFLAT_XWHICHJES_JES2	"B'10000000'" ++ XWHICHJES.JES2 KEYWORD
		.1..		XMAMFLAT_XWHICHJES_JES3	"B'01000000'" ++ XWHICHJES.JES3 KEYWORD
		..1.		XMAMFLAT_XWHICHJES_J3FSS	"B'00100000'" ++ XWHICHJES.J3FSS KEYWORD
		...1		XMAMFLAT_XWHICHJES_INIT	"B'00010000'" ++ XWHICHJES.INIT KEYWORD

Table 586. Structure XMA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		XMAMFLAT_XWHICHJES_COMMON	"B'00001000'" ++ XWHICHJES.COMMON KEYWORD
		.... .1..		XMAMFLAT_XWHICHJES_J3CIFSS	"B'00000100'" ++ XWHICHJES.J3CIFSS KEYWORD
		.... ..1.		XMAMFLAT_XWHICHJES_J2SPOOL	"B'00000010'" ++ XWHICHJES.J2SPOOL KEYWORD
625	(271)	BITSTRING	1	XMAMFLAT_XFLAG2	++ FIELD_LABEL
		1...		XMAMFLAT_XJ3CONNECT_NO	"B'10000000'" ++ XJ3CONNECT.NO KEYWORD
		.1..		XMAMFLAT_XJ3CONNECT_YES	"B'01000000'" ++ XJ3CONNECT.YES KEYWORD
626	(272)	CHARACTER	2	XMAMFLAT_XRSV0002	++ RESERVED
628	(274)	SIGNED	4	XMAMFLAT_XDIAG	++
632	(278)	CHARACTER	8	XMAMFLAT_XLINKPARMS	++ FIELD_LABEL
632	(278)	X'40'	0	XMAMFLATL	"*-XMAMFLAT" ++ LENGTH OF PLIST
				IXZXIXAT-6	
640	(280)	DBL WORD	8	(0)	Double word alignment
IXZXIXDT MF=(L,XMAMFLDT) IXZXIXDT list area MACDATE -00/02/02-<1>					
0	(0)	X'280'	0	M00M1432	"XMAMFLDT" ++ IXZXIXDT NAME
640	(280)	DBL WORD	8	XMAMFLDT(0)	++ IXZXIXDT PARM LIST
640	(280)	BITSTRING	1	XMAMFLDT_XVERSION	++ INPUT XVERSION
641	(281)	CHARACTER	6	XMAMFLDT_XEYECATCH	++ CONSTANT XEYECATCH
647	(287)	CHARACTER	1	XMAMFLDT_XRSV0001	++ RESERVED XRSV0001
648	(288)	ADDRESS	4	XMAMFLDT_XGROUPTOKEN	++ XGROUPTOKEN
652	(28C)	CHARACTER	8	XMAMFLDT_XLINKPARMS	++ FIELD_LABEL XLINKPARMS
652	(28C)	X'14'	0	XMAMFLDTL	"*-XMAMFLDT" ++ LENGTH OF PLIST
				IXZXIXDT-1	
664	(298)	DBL WORD	8	(0)	Double word alignment
IXZXIXMB MF=(L,XMAMFLMB) IXZXIXMB list area MACDATE -93/05/10-<1>					
664	(298)	SIGNED	2	M00M1433(0)	IXZXIXMB-1
664	(298)	DBL WORD	8	XMAMFLMB(0)	++ IXZXIXMB PARM LIST
664	(298)	BITSTRING	1	XMAMFLMB_XVERSION	++ INPUT XVERSION
665	(299)	CHARACTER	6	XMAMFLMB_XEYECATCH	++ CONSTANT XEYECATCH
671	(29F)	CHARACTER	1	XMAMFLMB_XRSV0001	++ RESERVED XRSV0001
672	(2A0)	CHARACTER	16	XMAMFLMB_XMBOXNAME	++ XMBOXNAME
688	(2B0)	ADDRESS	4	XMAMFLMB_XPOSTXIT	++ XPOSTXIT
692	(2B4)	ADDRESS	4	XMAMFLMB_XPOSTDATA	++ XPOSTDATA
696	(2B8)	SIGNED	4	XMAMFLMB_XPOSTALET	++ XPOSTALET
700	(2BC)	SIGNED	4	XMAMFLMB_XGROUPTOKEN	++ XGROUPTOKEN
704	(2C0)	BITSTRING	1	XMAMFLMB_XSYSEVENTS	++ FIELD_LABEL
		1...		XMAMFLMB_XSYSEVENT_YES	"B'10000000'" ++ XSYSEVENT.YES KEYWORD
		.1..		XMAMFLMB_XSYSEVENT_NO	"B'01000000'" ++ XSYSEVENT.NO KEYWORD
704	(2C0)	X'29'	0	XMAMFLMBL	"*-XMAMFLMB" ++ LENGTH OF PLIST
				IXZXIXMB-1	
708	(2C4)	SIGNED	4		Reserved for IBM use

Table 586. Structure XMA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
712	(2C8)	DBL WORD	8	(0)	Double word alignment
		IXZXIXUS MF=(L,XMAMFLUS) IXZXIXUS list area MACDATE -93/05/10-<1>			
712	(2C8)	SIGNED	2	M00M1434(0)	IXZXIXUS-1
712	(2C8)	DBL WORD	8	XMAMFLUS(0)	++ IXZXIXUS PARM LIST
712	(2C8)	BITSTRING	1	XMAMFLUS_XVERSION	++ INPUT XVERSION
713	(2C9)	CHARACTER	6	XMAMFLUS_XEYECATCH	++ CONSTANT XEYECATCH
719	(2CF)	CHARACTER	1	XMAMFLUS_XRSV0001	++ RESERVED XRSV0001
720	(2D0)	CHARACTER	32	XMAMFLUS_XUSTATE	++ XUSTATE
752	(2F0)	SIGNED	4	XMAMFLUS_XGROUPTOKEN	++ XGROUPTOKEN
756	(2F4)	BITSTRING	1	XMAMFLUS_XUPDTYPE	++ INPUT
		1...		XMAMFLUS_XUPDTYPE_REPLACE	"B'10000000'" ++ XUPDTYPE.REPLACE KEYWORD
		.1..		XMAMFLUS_XUPDTYPE_AND	"B'01000000'" ++ XUPDTYPE.AND KEYWORD
		..1.		XMAMFLUS_XUPDTYPE_OR	"B'00100000'" ++ XUPDTYPE.OR KEYWORD
756	(2F4)	X'2D'	0	XMAMFLUSL	"*-XMAMFLUS" ++ LENGTH OF PLIST
				IXZXIXUS-1	
760	(2F8)	SIGNED	4		Reserved for IBM use
768	(300)	DBL WORD	8	(0)	Double word alignment
		IXZXIXIF MF=(L,XMAMFLIF) IXZXIXIF list area MACDATE -11/12/03-<2>			
0	(0)	X'300'	0	M00M1435	"XMAMFLIF" ++ IXZXIXIF NAME
768	(300)	DBL WORD	8	XMAMFLIF(0)	++ IXZXIXIF PARM LIST
768	(300)	BITSTRING	1	XMAMFLIF_XVERSION	++ INPUT XVERSION
769	(301)	CHARACTER	6	XMAMFLIF_XEYECATCH	++ CONSTANT XEYECATCH
775	(307)	CHARACTER	1	XMAMFLIF_XRSV0001	++ RESERVED XRSV0001
776	(308)	SIGNED	4	XMAMFLIF_XGROUPTOKEN	++ XGROUPTOKEN
780	(30C)	CHARACTER	16	XMAMFLIF_XREQMBOX	++ XREQMBOX
796	(31C)	CHARACTER	8	XMAMFLIF_XREQTOKEN	++ XREQTOKEN
804	(324)	ADDRESS	4	XMAMFLIF_XANSAREA	++ XANSAREA
808	(328)	SIGNED	4	XMAMFLIF_XANSLEN	++ XANSLEN
812	(32C)	BITSTRING	1	XMAMFLIF_XINFOLVL	++ INPUT
		1...		XMAMFLIF_XINFOLVL_GROUP	"B'10000000'" ++ XINFOLVL.GROUP KEYWORD
		.1..		XMAMFLIF_XINFOLVL_MEMBER	"B'01000000'" ++ XINFOLVL.MEMBER KEYWORD
813	(32D)	BITSTRING	1	XMAMFLIF_XKEYS	++ FIELD_LABEL
		1...		XMAMFLIF_KEYUSED_REQMBOX	"B'10000000'" ++ KEYUSED.REQMBOX KEYWORD
		.1..		XMAMFLIF_KEYUSED_ANSAREA	"B'01000000'" ++ KEYUSED.ANSAREA KEYWORD
		..1.		XMAMFLIF_KEYUSED_GROUPTOKEN	"B'00100000'" ++ KEYUSED.GROUPTOKEN KEYWORD
		...1		XMAMFLIF_KEYUSED_GROUPNAME	"B'00010000'" ++ KEYUSED.GROUPNAME KEYWORD
814	(32E)	BITSTRING	1	XMAMFLIF_XSTATE	++ INPUT
		1...		XMAMFLIF_XSTATE_ANY	"B'10000000'" ++ XSTATE.ANY KEYWORD

Table 586. Structure XMA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		XMAMFLIF_XSTATE_ACTIVE	"B'01000000'" ++ XSTATE.ACTIVE KEYWORD
815	(32F)	BITSTRING	1	XMAMFLIF_XSYSTEM	++ INPUT
		1...		XMAMFLIF_XSYSTEM_ANY	"B'10000000'" ++ XSYSTEM.ANY KEYWORD
		.1..		XMAMFLIF_XSYSTEM_CURRENT	"B'01000000'" ++ XSYSTEM.CURRENT KEYWORD
816	(330)	BITSTRING	1	XMAMFLIF_XPOLYJES	++ INPUT
		1...		XMAMFLIF_XPOLYJES_YES	"B'10000000'" ++ XPOLYJES.YES KEYWORD
		.1..		XMAMFLIF_XPOLYJES_NO	"B'01000000'" ++ XPOLYJES.NO KEYWORD
817	(331)	BITSTRING	2	XMAMFLIF_XFUNCTION	++ INPUT
817	(331)	BITSTRING	0	XMAMFLIF_XFUNCTION_ARM	"B'1000000000000000'" ++ XFUNCTION.ARM KEYWORD
819	(333)	CHARACTER	8	XMAMFLIF_XGROUPNAME	++ XGROUPNAME
819	(333)	X'3B'	0	XMAMFLIFL	"*-XMAMFLIF" ++ LENGTH OF PLIST
				IXZXIXIF-2	
828	(33C)	SIGNED	4		Reserved for IBM use
832	(340)	DBL WORD	8	(0)	Double word alignment
IXZXIXAC MF=(L,XMAMFLAC) IXZXIXAC list area MACDATE -11/12/03-<1>					
0	(0)	X'340'	0	M00M1436	"XMAMFLAC" ++ IXZXIXAC NAME
832	(340)	DBL WORD	8	XMAMFLAC(0)	++ IXZXIXAC PARM LIST
832	(340)	BITSTRING	1	XMAMFLAC_XVERSION	++ INPUT XVERSION
833	(341)	CHARACTER	6	XMAMFLAC_XEYECATCH	++ CONSTANT XEYECATCH
839	(347)	BITSTRING	1	XMAMFLAC_XSTB	++ INPUT
		1...		XMAMFLAC_XSTB_NO	"B'10000000'" ++ XSTB.NO KEYWORD
		.1..		XMAMFLAC_XSTB_YES	"B'01000000'" ++ XSTB.YES KEYWORD
840	(348)	BITSTRING	8	XMAMFLAC_XMSGTOKEN	++ XMSGTOKEN
848	(350)	ADDRESS	4	XMAMFLAC_XDATA	++ XDATA
852	(354)	SIGNED	4	XMAMFLAC_XDATALEN	++ XDATALEN
856	(358)	SIGNED	4	XMAMFLAC_XUSERRC	++ XUSERRC
860	(35C)	SIGNED	4	XMAMFLAC_XGROUPTOKEN	++ XGROUPTOKEN
864	(360)	SIGNED	4	XMAMFLAC_XSYSRC	++ XSYSRC
868	(364)	SIGNED	4	XMAMFLAC_XSYSRSN	++ XSYSRSN
872	(368)	BITSTRING	1	XMAMFLAC_XKEYS	++ FIELD_LABEL
		1...		XMAMFLAC_KEYUSED_DATA	"B'10000000'" ++ KEYUSED.DATA KEYWORD
		.1..		XMAMFLAC_KEYUSED_DATALEN	"B'01000000'" ++ KEYUSED.DATALEN KEYWORD
		..1.		XMAMFLAC_KEYUSED_USERRC	"B'00100000'" ++ KEYUSED.USERRC KEYWORD
		...1		XMAMFLAC_KEYUSED_SYSRC	"B'00010000'" ++ KEYUSED.SYSRC KEYWORD
		.... 1...		XMAMFLAC_KEYUSED_SYSRSN	"B'00001000'" ++ KEYUSED.SYSRSN KEYWORD
873	(369)	BITSTRING	1	XMAMFLAC_XMSGATTR	++ INPUT
		1...		XMAMFLAC_XMSGATTR_J3CONNECT	"B'10000000'" ++ XMSGATTR.J3CONNECT KEYWORD

Table 586. Structure XMA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		XMAMFLAC_XMSGATTR_EXPRESS	"B'01000000'" ++ XMSGATTR.EXPRESS KEYWORD
873	(369)	X'2A'	0	XMAMFLACL	"*-XMAMFLAC" ++ LENGTH OF PLIST
				IXZXIXAC-1	
880	(370)	DBL WORD	8	(0)	Double word alignment
		IXZXIXRM MF=(L,XMAMFLRM) IXZXIXRM list area MACDATE -93/05/10-<1>			
880	(370)	SIGNED	2	M00M1437(0)	IXZXIXRM-1
880	(370)	DBL WORD	8	XMAMFLRM(0)	++ IXZXIXRM PARM LIST
880	(370)	BITSTRING	1	XMAMFLRM_XVERSION	++ INPUT XVERSION
881	(371)	CHARACTER	6	XMAMFLRM_XEYECATCH	++ CONSTANT XEYECATCH
887	(377)	CHARACTER	1	XMAMFLRM_XRSV0001	++ RESERVED XRSV0001
888	(378)	CHARACTER	16	XMAMFLRM_XMBOXNAME	++ XMBOXNAME
904	(388)	ADDRESS	4	XMAMFLRM_XDATA	++ XDATA
908	(38C)	SIGNED	4	XMAMFLRM_XDATALEN	++ XDATALEN
912	(390)	BITSTRING	8	XMAMFLRM_XMSGTOKEN	++ XMSGTOKEN
920	(398)	SIGNED	4	XMAMFLRM_XGROUPTOKEN	++ XGROUPTOKEN
924	(39C)	BITSTRING	1	XMAMFLRM_XMSGFETCH	++ INPUT
		1...		XMAMFLRM_XMSGFETCH_ALL	"B'10000000'" ++ XMSGFETCH.ALL KEYWORD
		.1..		XMAMFLRM_XMSGFETCH_MESSAGES	"B'01000000'" ++ XMSGFETCH.MESSAGES KEYWORD
		..1.		XMAMFLRM_XMSGFETCH_SYSEVENT	"B'00100000'" ++ XMSGFETCH.SYSEVENT KEYWORD
		...1		XMAMFLRM_XMSGFETCH_ACKS	"B'00010000'" ++ XMSGFETCH.ACKS KEYWORD
925	(39D)	BITSTRING	1	XMAMFLRM_XKEYS	++ FIELD_LABEL
		1...		XMAMFLRM_KEYUSED_MSGFETCH	"B'10000000'" ++ KEYUSED.MSGFETCH KEYWORD
925	(39D)	X'2E'	0	XMAMFLRML	"*-XMAMFLRM" ++ LENGTH OF PLIST
				IXZXIXRM-1	
928	(3A0)	DBL WORD	8	(0)	Double word alignment
		IXZXIXCL MF=(L,XMAMFLCL) IXZXIXCL list area MACDATE -11/12/03-<1>			
0	(0)	X'3A0'	0	M00M1438	"XMAMFLCL" ++ IXZXIXCL NAME
928	(3A0)	DBL WORD	8	XMAMFLCL(0)	++ IXZXIXCL PARM LIST
928	(3A0)	BITSTRING	1	XMAMFLCL_XVERSION	++ INPUT XVERSION
929	(3A1)	CHARACTER	6	XMAMFLCL_XEYECATCH	++ CONSTANT XEYECATCH
935	(3A7)	CHARACTER	1	XMAMFLCL_XRSV0001	++ RESERVED XRSV0001
936	(3A8)	SIGNED	4	XMAMFLCL_XFAILEDSYS	++ XFAILEDSYS
940	(3AC)	SIGNED	4	XMAMFLCL_XGROUPTOKEN	++ XGROUPTOKEN
940	(3AC)	X'10'	0	XMAMFLCLL	"*-XMAMFLCL" ++ LENGTH OF PLIST
				IXZXIXCL-1	
944	(3B0)	DBL WORD	8	(0)	Double word alignment
		IXZXIXMC MF=(L,XMAMFLMC) IXZXIXMC list area MACDATE -93/05/10-<1>			

Table 586. Structure XMA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
944	(3B0)	SIGNED	2	M00M1439(0)	IXZXIXMC-1
944	(3B0)	DBL WORD	8	XMAMFLMC(0)	++ IXZXIXMC PARM LIST
944	(3B0)	BITSTRING	1	XMAMFLMC_XVERSION	++ INPUT XVERSION
945	(3B1)	CHARACTER	6	XMAMFLMC_XEYECATCH	++ CONSTANT XEYECATCH
951	(3B7)	BITSTRING	1	XMAMFLMC_XSTB	++ INPUT
		1...		XMAMFLMC_XSTB_NO	"B'10000000'" ++ XSTB.NO KEYWORD
		.1..		XMAMFLMC_XSTB_YES	"B'01000000'" ++ XSTB.YES KEYWORD
952	(3B8)	CHARACTER	16	XMAMFLMC_XMBOXNAME	++ XMBOXNAME
968	(3C8)	SIGNED	4	XMAMFLMC_XGROUPTOKEN	++ XGROUPTOKEN
968	(3C8)	X'1C'	0	XMAMFLMCL	"*-XMAMFLMC" ++ LENGTH OF PLIST
				IXZXIXMC-1	
End of fields used within MVS macros.					
976	(3D0)	DBL WORD	8	(0)	Ensure double word aligned
976	(3D0)	X'3D0'	0	XMALEN	"*-XMA" Size of XMAS DSECT

Table 587. Structure XMAQENT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	XMAQENT	Define queue status entry
0	(0)	CHARACTER	4	XMAQSID	SID name
4	(4)	CHARACTER	4		Really Reserved for IBM use
The following fields are used to communicate $ESYS requests to HASPWARM.					
8	(8)	BITSTRING	8	XMAQETIM	Time of event (STCK format)
16	(10)	CHARACTER	8	XMAQESYS	MVS System name.
24	(18)	BITSTRING	4	XMAQESYT	System id / token for MVS
28	(1C)	BITSTRING	1	XMAQEFL1	Member action request
		1		XMAQE1JR	"B'00000001'" Job restart required-$ESYS
		.... ..1.		XMAQE1AE	"B'00000010'" AUTOESYS=ON on MASDEF
		.... .1..		XMAQE1VR	"B'00000100'" Verify ARM registrations
		.... 1...		XMAQE1XG	"B'00001000'" Use XCFGRPNM in SYSJ2$XD
29	(1D)	BITSTRING	1		Reserved for future use
30	(1E)	SIGNED	2	XMAQSIZE	Length of XMAQENT
The remaining fields contain member status information.					
32	(20)	DBL WORD	8	XMAQUTIM	Event time causing latest status update (STCK)
40	(28)	DBL WORD	8	XMAQITIM	TOD of last CKPT access for this member
48	(30)	BITSTRING	1	XMAQMEMB	Member number

Table 587. Structure XMAQENT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		XMAQSTAT is the current member status based on QSE and XCF status fields. XMAQSTAT is never set to MEMDORM. MEMDORM must be determined by the user based on the current TOD clock, XMAQITIM and $SYNCTOL. A member is MEMDORM if XMAQSTAT indicates MEMACTIV, but XMAQITIM is more than $SYNCTOL seconds ago. Update XCFDSTAT (in HASPXCF) if XMAQSTAT definition changes.			
49	(31)	BITSTRING	1	XMAQSTAT	Current state of member
		1...		MEMDOWN	"B'10000000'" DOWN filter
		.1..		MEMDEF	"B'01000000'" DEFINED fiter
		..1.		MEMINU	"B'00100000'" INUSE filter
		...1		MEMFAIL	"B'00010000'" FAILED filter
		1111		MEMFILTR	"B'11110000'" Filter mask
		1		MEMUNDEF	"X'01'" Member UNDEFINED
		.... ..1.		MEMUPEND	"X'02'" Member UNDEFINED-PENDING
49	(31)	X'63'	0	MEMACTIV	"MEMDEF+MEMINU+X'03'" Member ACTIVE
49	(31)	X'C4'	0	MEMINACT	"MEMDEF+MEMDOWN+X'04'" Member TERMINATED
49	(31)	X'65'	0	MEMINIT	"MEMDEF+MEMINU+X'05'" Member INITIALIZING
49	(31)	X'66'	0	MEMTERM	"MEMDEF+MEMINU+X'06'" Member TERMINATING
49	(31)	X'D7'	0	MEMJESF	"MEMDEF+MEMDOWN+MEMFAIL+X'07'" Memb JES2-FAILED
49	(31)	X'D8'	0	MEMXCFF	"MEMDEF+MEMDOWN+MEMFAIL+X'08'" Memb JESXCF-FAILED
49	(31)	X'D9'	0	MEMMVSG	"MEMDEF+MEMDOWN+MEMFAIL+X'09'" Memb MVS-GONE
49	(31)	X'6A'	0	MEMDORM	"MEMDEF+MEMINU+X'0A'" Member DORMANT (Never set)
49	(31)	X'CB'	0	MEMDRAIN	"MEMDEF+MEMDOWN+X'0B'" Member DRAINED
49	(31)	X'DC'	0	MEMALICE	"MEMDEF+MEMDOWN+MEMFAIL+X'0C'" Member awaiting ALICE processing
50	(32)	BITSTRING	1	XMAQUFLG	Local copy of XMAUSFLG
51	(33)	BITSTRING	1	XMAQUFL1	Local copy of XMAUSFL1
52	(34)	BITSTRING	1	XMAQNEWS	Latest member state
52	(34)	X'1'	0	XMANSACT	"1" Member is active
52	(34)	X'2'	0	XMANSFLD	"2" JESXCF has terminated
52	(34)	X'3'	0	XMANSGON	"3" MVS is no longer active
52	(34)	X'4'	0	XMANSJES	"4" JES2 ABENDed
53	(35)	BITSTRING	1	XMAQCRF1	CKPT reconfiguration status (see XMAUCRF1 for bit definitions)
54	(36)	BITSTRING	1	XMAQJXF1	JESXCF member status
55	(37)	BITSTRING	1	XMAQEFL2	Status flag byte 2
		1...		XMAQ2PRS	"B'10000000'" MVS Gone status in XMAQNEWS was inferred and cannot be confirmed
56	(38)	SIGNED	4	XMAQHOLD	Hold value
60	(3C)	SIGNED	4	XMAAHOLD	Actual HOLD value
64	(40)	SIGNED	4	XMAADORM	Actual dormancy value

Table 587. Structure XMAQENT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
68	(44)	BITSTRING	4	XMAQXSYS	MAS member supports cross system data rtrvl table
72	(48)	CHARACTER	4	XMAQSNAM	Subsystem name. Shadowed from QSESSNAM
76	(4C)	CHARACTER	4	XMAQVSID	MVS System SMF I. D. Shadow of QSEMVSID
80	(50)	SIGNED	1	XMAQ2PLV	JES2 Product level. Shadow of QSEJ2PLV
81	(51)	SIGNED	1	XMAQ2SLV	Service level. Shadow of QSEJ2SLV
82	(52)	CHARACTER	8	XMAQ2VRN	Shadow of QSEJ2VRN
90	(5A)	BITSTRING	1	XMAQSTYP	Type of last start Shadowed from QSESTYPE
91	(5B)	BITSTRING	1	XMAQSEST	Shadow of QSESTAT
92	(5C)	BITSTRING	1	XMAQSES2	Shadow of QSESTAT2
93	(5D)	SIGNED	1	XMAQ2VR2	JES2 version last active on this member
94	(5E)	CHARACTER	1	XMAQCOM	Command Prefix character Shadow of QSECCHAR
95	(5F)	BITSTRING	1	XMAQRSID	ID of member doing reset (Shadow of QSERSTID)
96	(60)	SIGNED	4	XMAQMIND	Minimum Dormancy (Shadow of QSEMIND)
100	(64)	SIGNED	4	XMAQMAXD	Maximum Dormancy (Shadow QSEMAXD)
104	(68)	SIGNED	4	XMAQSYNC	Current SYNC value (Shadow QSESYNC)
108	(6C)	SIGNED	4	XMAQSTIM	STCK TOD of last start
112	(70)	CHARACTER	8	XMAQXNOD	Node name when XCF member did JESXCF attach
120	(78)	SIGNED	4	XMAQSYSL	Current SYSLOG JQE index
		XMAQPSEQ is the same format as ECVTPSEQ. Byte one is OS type (00 - OS/390 01-z/OS). Bytes 2-4 are VRM - VVRRMM. So for z/OS 1.13 you get 01010D00.			
124	(7C)	SIGNED	4	XMAQPSEQ	z/OS product sequence numb.
128	(80)	CHARACTER	16	XMAQMNAM	XCF member name for normal JESXCF group ($XCFGPNM)
144	(90)	SIGNED	4	XMAQTMOF	UTC offset of this member (shadow of QSEGMTOF)
148	(94)	SIGNED	4	(3)	Reserved
148	(94)	X'A0'	0	XMAQECLR	"*-XMAQENT" Length that can be cleared
160	(A0)	ADDRESS	8	XMAQCDCQ	Pointer to CDCTQS for this member (64-bit address)
168	(A8)	ADDRESS	8	XMAQCNIT	Ptr to NIT array for this member (64-bit addr)
176	(B0)	SIGNED	4	XMAQCNIA	ALET for NIT array
180	(B4)	BITSTRING	1	XMAQCNIV	NIT data version
181	(B5)	BITSTRING	1	XMAQCNIP	Nr of paths in each NIT entry
182	(B6)	BITSTRING	2		Reserved
184	(B8)	DBL WORD	8	(0)	Insure double word aligned
184	(B8)	X'B8'	0	XMAQELEN	"*-XMAQENT" Length of XMAQENT element

Table 588. Structure XMAXUS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	XMAXUS	HASP XCF USER STATE FIELD
0	(0)	BITSTRING	4	XMAJXCF(0)	JESXCF user state information
0	(0)	BITSTRING	1	XMAJXFL1	JESXCF status
		1...		XMAATTCH	"B'10000000'" JES2 is attached to JESXCF
		.1..		XMAAJES2	"B'01000000'" Subsystem is running JES2
		..1.		XMAAJES3	"B'00100000'" Subsystem is running JES3
		...1		XMAACON	"B'00010000'" Subsystem is connected to other members
		.... 1...		XMAAFSS3	"B'00001000'" JES3 FSS subsystem
		.... .1..		XMAACONS	"B'00000100'" Consoles function active
1	(1)	BITSTRING	1		Release level of the JES
2	(2)	CHARACTER	2	XMASSIN1	First 2 chars of SSINAME
4	(4)	BITSTRING	8	XMACOLDT	Cold start date and time ($COLDDTM)
12	(C)	BITSTRING	8	XMAPLXID	First system IPLed in this current IPL of the sysplex (SYSPLEXID in the IXCQUERY)
20	(14)	BITSTRING	1	XMAUSFLG	User state flag
		1...		XMAUINIT	"B'10000000'" JES2 initializing
		.1..		XMAUTERM	"B'01000000'" JES2 terminating
		..1.		XMAUACTN	"B'00100000'" JES2 NPM PCE initialized
		...1		XMAUNUTS	"B'00010000'" JES2 NPM PCE in HASPNUTS
		.... 1...		XMAUXCMA	"B'00001000'" JES2 XCM PCE initialized
		.... .1..		XMAUCDCA	"B'00000100'" JES2 CDC PCE initialized
		.... ..1.		XMAUDLSM	"B'00000010'" JES2 DLS PCE on this mbr is MAS master
21	(15)	BITSTRING	1	XMAUSFL1	Member options flag
		1...		XMA1AON	"B'10000000'" AUTOESYS=ON specified
		.1..		XMA1AOFF	"B'01000000'" AUTOESYS=OFF specified
22	(16)	ADDRESS	1	XMAUSMID	Member number ($SIDBUSY)
23	(17)	BITSTRING	1	XMAUCRF1	CKPT reconfiguration status
		1...		XMAUC1RC	"B'10000000'" - Reconfiguration capable
		.1..		XMAUC1ST	"B'01000000'" - Reconfiguration started
		..1.		XMAUC1MD	"B'00100000'" - This member MUST drive
		...1		XMAUC1CO	"B'00010000'" - Reconfig is committed (First driving member committed)
		.... 1...		XMAUC1DR	"B'00001000'" - This member is driver

Table 588. Structure XMAXUS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		XMAUC1DL	"B'00000100'" - This member has detected a delayed XCF msg, ack, or user state update
		.... ..1.		XMAUC1CF	"B'00000010'" - This member is committed to fail
		1		XMAUC1IO	"B'00000001'" - CKPTn I/O error on member
23	(17)	X'3F'	0	XMAUC1SC	"XMAUC1MD+XMAUC1CO+XMAUC1DR+XMAUC1DL+XMAUC1CF+XMAUC1IO" - Flags to clear when a reconfig starts
23	(17)	X'7F'	0	XMAUC1DC	"XMAUC1SC+XMAUC1ST" - Flags to clear when a reconfig completes
24	(18)	BITSTRING	5	XMAUCRLV	Member's CKPT level number (Low-order 5 bytes)
		The last byte of the user state are shared between JES2, JES3, and JESXCF. There offsets must not change.			
29	(1D)	BITSTRING	1	XMAFEAT(0)	Functions that this JES supports
29	(1D)	BITSTRING	1	XMAFEAT1	Feature byte 1
		1...		XMAARM	"B'10000000'" This JES supports ARM
30	(1E)	BITSTRING	2	XMAJXC2(0)	JESXCF user state information
30	(1E)	CHARACTER	2	XMASSIN2	Last 2 chars of SSINAME
30	(1E)	X'20'	0	XMAUSED	"*-XMAXUS" Amount of user state in use
32	(20)	ADDRESS	2	(0)	Ensure length
32	(20)	ADDRESS	2	(0)	is 32 bytes
32	(20)	X'20'	0	XMAUSLEN	"*-XMAXUS" LENGTH OF XUS USER STATE

Table 589. Cross Reference for $XMAS

Name	Offset	Hex Tag
MEMACTIV	31	63
MEMALICE	31	DC
MEMDEF	31	40
MEMDORM	31	6A
MEMDOWN	31	80
MEMDRAIN	31	CB
MEMFAIL	31	10
MEMFILTR	31	F0
MEMINACT	31	C4
MEMINIT	31	65
MEMINU	31	20
MEMJESF	31	D7
MEMMVSG	31	D9
MEMTERM	31	66
MEMUNDEF	31	1
MEMUPEND	31	2
MEMXCFF	31	D8
M00M1429	0	218

Table 589. Cross Reference for $XMAS (continued)

Name	Offset	Hex Tag
M00M1431	0	240
M00M1432	0	280
M00M1433	298	
M00M1434	2C8	
M00M1435	0	300
M00M1436	0	340
M00M1437	370	
M00M1438	0	3A0
M00M1439	3B0	
XMA	0	
XMAACON	0	10
XMAACONS	0	4
XMAADORM	40	
XMAAFSS3	0	8
XMAAHOLD	3C	
XMAAJES2	0	40
XMAAJES3	0	20
XMAARM	1D	80
XMAATTCH	0	80
XMAAXRQ	B0	
XMABLDM	178	C2D3C440
XMABLDML	0	58
XMACDCUP	AC	
XMACOLDT	4	
XMADIAG	16C	
XMAFEAT	1D	
XMAFEAT1	1D	
XMAFLAG1	38	
XMAFLAG2	39	
XMAFLAG3	3B	
XMAFLAG4	3C	
XMAFLAG5	3D	
XMAFLAG6	3E	
XMAID	0	
XMAIFAA	214	
XMAIFALN	210	
XMAJNNM	170	
XMAJXCF	0	
XMAJXC2	1E	
XMAJXFL1	0	
XMALEN	3D0	3D0
XMAMADDR	84	
XMAMEMAT	A4	
XMAMEMDT	8	
XMAMEMNM	18	
XMAMEMST	1F0	
XMAMEMUP	A0	
XMAMFLAC	340	
XMAMFLAC_KEYUSED_DATA	368	80

Table 589. Cross Reference for $XMAS (continued)

Name	Offset	Hex Tag
XMAMFLAC_KEYUSED_DATALEN	368	40
XMAMFLAC_KEYUSED_SYSRC	368	10
XMAMFLAC_KEYUSED_SYSRSN	368	8
XMAMFLAC_KEYUSED_USERRC	368	20
XMAMFLAC_XDATA	350	
XMAMFLAC_XDATALEN	354	
XMAMFLAC_XEYECATCH	341	
XMAMFLAC_XGROUPTOKEN	35C	
XMAMFLAC_XKEYS	368	
XMAMFLAC_XMSGATTR	369	
XMAMFLAC_XMSGATTR_EXPRESS	369	40
XMAMFLAC_XMSGATTR_J3CONNECT	369	80
XMAMFLAC_XMSGTOKEN	348	
XMAMFLAC_XSTB	347	
XMAMFLAC_XSTB_NO	347	80
XMAMFLAC_XSTB_YES	347	40
XMAMFLAC_XSYSRC	360	
XMAMFLAC_XSYSRSN	364	
XMAMFLAC_XUSERRC	358	
XMAMFLAC_XVERSION	340	
XMAMFLACL	369	2A
XMAMFLAT	240	
XMAMFLAT_XDIAG	274	
XMAMFLAT_XEYECATCH	241	
XMAMFLAT_XFLAG1	270	
XMAMFLAT_XFLAG2	271	
XMAMFLAT_XGROUP	248	
XMAMFLAT_XGROUPTOKEN	26C	
XMAMFLAT_XJ3CONNECT_NO	271	80
XMAMFLAT_XJ3CONNECT_YES	271	40
XMAMFLAT_XLINKPARMS	278	
XMAMFLAT_XMAINTLVL	268	
XMAMFLAT_XMEMBER	250	
XMAMFLAT_XRELEASE	260	
XMAMFLAT_XRSV0001	247	
XMAMFLAT_XRSV0002	272	
XMAMFLAT_XVERSION	240	
XMAMFLAT_XWHICHJES_COMMON	270	8
XMAMFLAT_XWHICHJES_INIT	270	10
XMAMFLAT_XWHICHJES_JES2	270	80
XMAMFLAT_XWHICHJES_JES3	270	40
XMAMFLAT_XWHICHJES_J2SPOOL	270	2
XMAMFLAT_XWHICHJES_J3CIFSS	270	4
XMAMFLAT_XWHICHJES_J3FSS	270	20
XMAMFLATL	278	40
XMAMFLCL	3A0	
XMAMFLCL_XEYECATCH	3A1	
XMAMFLCL_XFAILEDSYS	3A8	
XMAMFLCL_XGROUPTOKEN	3AC	

Table 589. Cross Reference for $XMAS (continued)

Name	Offset	Hex Tag
XMAMFLCL_XRSV0001	3A7	
XMAMFLCL_XVERSION	3A0	
XMAMFLCLL	3AC	10
XMAMFLDT	280	
XMAMFLDT_XEYECATCH	281	
XMAMFLDT_XGROUPTOKEN	288	
XMAMFLDT_XLINKPARMS	28C	
XMAMFLDT_XRSV0001	287	
XMAMFLDT_XVERSION	280	
XMAMFLDTL	28C	14
XMAMFLIF	300	
XMAMFLIF_KEYUSED_ANSAREA	32D	40
XMAMFLIF_KEYUSED_GROUPNAME	32D	10
XMAMFLIF_KEYUSED_GROUPTOKEN	32D	20
XMAMFLIF_KEYUSED_REQMBOX	32D	80
XMAMFLIF_XANSAREA	324	
XMAMFLIF_XANSLEN	328	
XMAMFLIF_XEYECATCH	301	
XMAMFLIF_XFUNCTION	331	
XMAMFLIF_XFUNCTION_ARM	331	8000
XMAMFLIF_XGROUPNAME	333	
XMAMFLIF_XGROUPTOKEN	308	
XMAMFLIF_XINFOLVL	32C	
XMAMFLIF_XINFOLVL_GROUP	32C	80
XMAMFLIF_XINFOLVL_MEMBER	32C	40
XMAMFLIF_XKEYS	32D	
XMAMFLIF_XPOLYJES	330	
XMAMFLIF_XPOLYJES_NO	330	40
XMAMFLIF_XPOLYJES_YES	330	80
XMAMFLIF_XREQMBOX	30C	
XMAMFLIF_XREQTOKEN	31C	
XMAMFLIF_XRSV0001	307	
XMAMFLIF_XSTATE	32E	
XMAMFLIF_XSTATE_ACTIVE	32E	40
XMAMFLIF_XSTATE_ANY	32E	80
XMAMFLIF_XSYSTEM	32F	
XMAMFLIF_XSYSTEM_ANY	32F	80
XMAMFLIF_XSYSTEM_CURRENT	32F	40
XMAMFLIF_XVERSION	300	
XMAMFLIFL	333	3B
XMAMFLMB	298	
XMAMFLMB_XEYECATCH	299	
XMAMFLMB_XGROUPTOKEN	2BC	
XMAMFLMB_XMBOXNAME	2A0	
XMAMFLMB_XPOSTALET	2B8	
XMAMFLMB_XPOSTDATA	2B4	
XMAMFLMB_XPOSTXIT	2B0	
XMAMFLMB_XRSV0001	29F	
XMAMFLMB_XSYSEVENT_NO	2C0	40

Table 589. Cross Reference for $XMAS (continued)

Name	Offset	Hex Tag
XMAMFLMB_XSYSEVENT_YES	2C0	80
XMAMFLMB_XSYSEVENTS	2C0	
XMAMFLMB_XVERSION	298	
XMAMFLMBL	2C0	29
XMAMFLMC	3B0	
XMAMFLMC_XEYECATCH	3B1	
XMAMFLMC_XGROUPTOKEN	3C8	
XMAMFLMC_XMBOXNAME	3B8	
XMAMFLMC_XSTB	3B7	
XMAMFLMC_XSTB_NO	3B7	80
XMAMFLMC_XSTB_YES	3B7	40
XMAMFLMC_XVERSION	3B0	
XMAMFLMCL	3C8	1C
XMAMFLQR	218	
XMAMFLQR_PL_END	230	240
XMAMFLQR_XANSAREA_ADDR	21C	
XMAMFLQR_XANSAREA_ALET	220	
XMAMFLQR_XANSLEN	224	
XMAMFLQR_XCDSTYPE	228	
XMAMFLQR_XCFNAME	228	
XMAMFLQR_XGRPNAME	228	
XMAMFLQR_XMEMNAME	230	
XMAMFLQR_XMEMTOKEN	230	
XMAMFLQR_XQUAALEVEL	21B	
XMAMFLQR_XREQINFO	21A	
XMAMFLQR_XREQINFO_ARMS_ALLDATA	21A	1
XMAMFLQR_XREQINFO_ARMSTATUS	21A	2
XMAMFLQR_XREQINFO_CDS	21A	3F
XMAMFLQR_XREQINFO_CDS_ALLDATA	21A	3E
XMAMFLQR_XREQINFO_CF	21A	20
XMAMFLQR_XREQINFO_CF_ALLDATA	21A	8
XMAMFLQR_XREQINFO_GROUP	21A	80
XMAMFLQR_XREQINFO_STR	21A	10
XMAMFLQR_XREQINFO_STR_ALLDATA	21A	4
XMAMFLQR_XREQINFO_SYSPLEX	21A	40
XMAMFLQR_XREQTYPE	219	
XMAMFLQR_XREQTYPE_DEFER	219	5
XMAMFLQR_XREQTYPE_IMMEDIATE	219	10
XMAMFLQR_XSTRNAME	230	
XMAMFLQR_XVERSION	218	
XMAMFLQRL	240	28
XMAMFLRM	370	
XMAMFLRM_KEYUSED_MSGFETCH	39D	80
XMAMFLRM_XDATA	388	
XMAMFLRM_XDATALEN	38C	
XMAMFLRM_XEYECATCH	371	
XMAMFLRM_XGROUPTOKEN	398	
XMAMFLRM_XKEYS	39D	
XMAMFLRM_XMBOXNAME	378	

Table 589. Cross Reference for $XMAS (continued)

Name	Offset	Hex Tag
XMAMFLRM_XMSGFETCH	39C	
XMAMFLRM_XMSGFETCH_ACKS	39C	10
XMAMFLRM_XMSGFETCH_ALL	39C	80
XMAMFLRM_XMSGFETCH_MESSAGES	39C	40
XMAMFLRM_XMSGFETCH_SYSEVENT	39C	20
XMAMFLRM_XMSGTOKEN	390	
XMAMFLRM_XRSV0001	377	
XMAMFLRM_XVERSION	370	
XMAMFLRML	39D	2E
XMAMFLUS	2C8	
XMAMFLUS_XEYECATCH	2C9	
XMAMFLUS_XGROUPTOKEN	2F0	
XMAMFLUS_XRSV0001	2CF	
XMAMFLUS_XUPDTYPE	2F4	
XMAMFLUS_XUPDTYPE_AND	2F4	40
XMAMFLUS_XUPDTYPE_OR	2F4	20
XMAMFLUS_XUPDTYPE_REPLACE	2F4	80
XMAMFLUS_XUSTATE	2D0	
XMAMFLUS_XVERSION	2C8	
XMAMFLUSL	2F4	2D
XMAMLEN	88	
XMAMLOCL	3A	1
XMAMODE	3A	
XMAMTOKE	8C	
XMAMTOKN	98	
XMANPMUP	A8	
XMANSACT	34	1
XMANSFLD	34	2
XMANSGON	34	3
XMANSJES	34	4
XMAOTHMN	1F8	
XMAOXMAS	1F4	
XMAPLIWK	208	
XMAPLXID	C	
XMAPLXNM	70	
XMAPTIME	78	
XMAQCDCQ	A0	
XMAQCNIA	B0	
XMAQCNIP	B5	
XMAQCNIT	A8	
XMAQCNIV	B4	
XMAQCOM	5E	5B
XMAQCRF1	35	
XMAQDATA	B4	
XMAQECLR	94	A0
XMAQEFL1	1C	
XMAQEFL2	37	
XMAQELEN	B8	B8
XMAQENT	0	

Table 589. Cross Reference for $XMAS (continued)

Name	Offset	Hex Tag
XMAQESYS	10	
XMAQESYT	18	
XMAQETIM	8	
XMAQE1AE	1C	2
XMAQE1JR	1C	1
XMAQE1VR	1C	4
XMAQE1XG	1C	8
XMAQHOLD	38	
XMAQITIM	28	
XMAQJXF1	36	
XMAQMAXD	64	
XMAQMEMB	30	
XMAQMIND	60	
XMAQMNAM	80	
XMAQNEWS	34	
XMAQPSEQ	7C	
XMAQRSID	5F	
XMAQSEST	5B	
XMAQSES2	5C	
XMAQSID	0	
XMAQSIZE	1E	
XMAQSNAM	48	
XMAQSTAT	31	
XMAQSTIM	6C	
XMAQSTYP	5A	
XMAQSYNC	68	
XMAQSYSL	78	
XMAQTMOF	90	
XMAQUFLG	32	
XMAQUFL1	33	
XMAQUTIM	20	
XMAQVSID	4C	
XMAQXNOD	70	
XMAQXSYS	44	
XMAQ2PLV	50	
XMAQ2PRS	37	80
XMAQ2SLV	51	
XMAQ2VRN	52	
XMAQ2VR2	5D	
XMARSN	2C	
XMARTN	28	
XMASERV	30	
XMASIDNM	80	
XMASNUM	64	
XMASSIN1	2	
XMASSIN2	1E	
XMASYSNM	68	
XMASYTOK	64	
XMAUACTN	14	20

Table 589. Cross Reference for $XMAS (continued)

Name	Offset	Hex Tag
XMAUCDCA	14	4
XMAUCRF1	17	
XMAUCRLV	18	
XMAUC1CF	17	2
XMAUC1CO	17	10
XMAUC1DC	17	7F
XMAUC1DL	17	4
XMAUC1DR	17	8
XMAUC1IO	17	1
XMAUC1MD	17	20
XMAUC1RC	17	80
XMAUC1SC	17	3F
XMAUC1ST	17	40
XMAUDLSM	14	2
XMAUINIT	14	80
XMAUNUTS	14	10
XMAUSED	1E	20
XMAUSFLG	14	
XMAUSFL1	15	
XMAUSLEN	20	20
XMAUSMID	16	
XMAUTERM	14	40
XMAUXCMA	14	8
XMAVNUM	4	2
XMAVRALN	5C	60
XMAVRSN	4	
XMAXECB	40	
XMAXUS	0	
XMAXUSST	1D0	
XMA1AOFF	15	40
XMA1AON	15	80
XMA1AXMA	38	10
XMA1INIT	38	40
XMA1JOIN	38	80
XMA2CDEL	39	40
XMA2FRR	39	80
XMA3INIT	3B	80
XMA3JOIN	3B	8
XMA3LEAV	3B	2
XMA3MEMS	3B	20
XMA3QUER	3B	1
XMA3SYSG	3B	40
XMA3USRS	3B	10
XMA3USTA	3B	4
XMA4DELT	3C	10
XMA4DQ	3C	80
XMA4MAPE	3C	40
XMA4MEMN	3C	4
XMA4MQER	3C	8

Table 589. Cross Reference for $XMAS (continued)

Name	Offset	Hex Tag
XMA4PURG	3C	20
XMA4XMQU	3C	2
XMA5ESYS	3D	80
XMA6XMAS	3E	80

Chapter 244. $XPL Information

$XPL Programming Interface Information

$XPL is a programming interface.

$XPL Heading Information

Common Name: Exit parameter list
Macro ID: $XPL
DSECT Name: XPL
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: '$XPL'
Offset: XPLID-XPL
Length: 4
Storage Attributes: Subpool: 1 for exits called from the JES2 main task environment.
230 for exits called from the USER environment.
Refer to "JES2 Customization" to determine the environment for specific exits.
Key: 1
Residency: Virtual and real storage are anywhere in the private storage of the JES2 address space for exits called from the JES2 main task environment. For exits called from the USER environment, virtual and real storage are anywhere in the private storage of the requesting address space. Refer to "JES2 Customization" to determine the environment for specific exits.

Size: See XyyySIZE where yyy is the exit number.
Created by: The XPL is created before the exit is invoked.
Pointed to by: The XPL is generally pointed to by register 1 on entry to an exit routine.
Refer to "JES2 Customization" for exceptions.
Serialization: None required.
Function: This DSECT provides the mapping for all new and changed exit parameter lists.

$XPL mapping

Table 590. Structure XPL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	XPL	
0	(0)	CHARACTER	4	XPLID	Eye catcher
4	(4)	ADDRESS	1	XPLLEVEL	Version number for base section
	1			XPLVERN	"X'1'" Verision number equate for base
5	(5)	ADDRESS	1	XPLXITID	Exit id number
6	(6)	ADDRESS	1	XPLEXLEV	Version number for specific exit (XnnnVERN is the equate)

Table 590. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
01 NOTES: Do not use the XPLIND, XPLCOND, or XPLRESP fields. Refer to them as XnnnIND, XnnnCOND, or XnnnRESP.					
7	(7)	BITSTRING	1	XPLIND	Indicator byte
8	(8)	BITSTRING	1	XPLCOND	Condition byte
		1...		XPLCOB0	"B'10000000'" Bit definitions for
		.1..		XPLCOB1	"B'01000000'" the condition byte. Each
		..1.		XPLCOB2	"B'00100000'" specific exit should
		...1		XPLCOB3	"B'00010000'" define their own meaning
		.... 1...		XPLCOB4	"B'00001000'" to these bits and EQUATE
		.... .1..		XPLCOB5	"B'00000100'" them back to these
		.... ..1.		XPLCOB6	"B'00000010'" bits.
		1		XPLCOB7	"B'00000001'"
9	(9)	BITSTRING	1	XPLRESP	Response byte (Modifiable by Exit routine)
		1...		XPLREB0	"B'10000000'" Bit definitions for
		.1..		XPLREB1	"B'01000000'" the response byte. Each
		..1.		XPLREB2	"B'00100000'" specific exit should
		...1		XPLREB3	"B'00010000'" define their own meaning
		.... 1...		XPLREB4	"B'00001000'" to these bits and EQUATE
		.... .1..		XPLREB5	"B'00000100'" them back to these
		.... ..1.		XPLREB6	"B'00000010'" bits.
		1		XPLREB7	"B'00000001'"
10	(A)	SIGNED	2	XPLSIZE	Size of parameter list including the base section
12	(C)	SIGNED	4		Reserved
12	(C)	X'10'	0	XPLBLEN	"*-XPL" Length of Base exit parameter list
16	(10)	SIGNED	4	XPLPLUS(0)	Start of parm list contents to the exit
Exit 1 XPL values Print/punch separators					
16	(10)	X'1'	0	X001XID	"1" Exit 1 ID
		1		X001VERN	"X'01'" Exit 1 XPL version number
Indicator byte equates					
16	(10)	X'7'	0	X001IND	"XPLIND" Indicator byte
		1...		X001JHDR	"X'80'" Job header call
		.1..		X001JTLR	"X'40'" Job trailer call
		..1.		X001JCNT	"X'20'" Job continuation call
Condition byte equates					

Table 590. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
16	(10)	X'8'	0	X001COND	"XPLCOND" Condition byte
	Response byte equates				
16	(10)	X'9'	0	X001RESP	"XPLRESP" Response byte
16	(10)	X'80'	0	X001DFSP	"XPLREB0" Response bit to surpress the default separator
16	(10)	X'40'	0	X001JNWS	"XPLREB1" Response bit to surpress JESNEWS
16	(10)	X'10'	0	X001PLUS	"XPLPLUS" Exit 1 parameter list
16	(10)	ADDRESS	4	X001DCT	Address of the DCT
20	(14)	ADDRESS	4	X001JCT	Address of the JCT
24	(18)	ADDRESS	4	X001DSCT	Address of DSCT or zeroes
28	(1C)	ADDRESS	4	X001JQE	Address of the JQE
32	(20)	ADDRESS	4	X001JOA	Address of the JOA
36	(24)	SIGNED	4		Reserved for future use
40	(28)	ADDRESS	4	X001PDDB	Address of the first PDDB in the JOE for header call, zero for trailer call
44	(2C)	ADDRESS	4	X001SWBT	Address of the SWBTU pointer list for 1st data set for the current JOE or zero
48	(30)	SIGNED	2	X001NSWB	Number of SWBITs despooled
50	(32)	SIGNED	2	X001RSVD	Reserved for future use
52	(34)	ADDRESS	4	X001HBUF	Address of a HASP buffer for exit use
52	(34)	X'38'	0	X001SIZE	"*-XPL" Size of XPL for Exit 1
52	(34)	X'20'	0	X001WJOE	"X001JOA" Equate for work JOE.
	Exit 2 XPL values JOB JCL statement scan (JES2 main task) The mapping of fields at the start of exits 2, 4, 52 and 54 are the same. Indicator values may vary based on the exit. The mappings of exits 2 and 52 are identical.				
52	(34)	X'2'	0	X002XID	"2" Exit 2 ID
		11		X002VERN	"X'03'" Exit 2 XPL version number
	Indicator byte equates				
52	(34)	X'7'	0	X002IND	"XPLIND" Indicator byte
		.... 1...		X002JOBC	"X'08'" I.JOB card detected
		.... 1..1		X002JOBG	"X'09'" I.JOBGROUP card detected
	Condition byte equates				
52	(34)	X'8'	0	X002COND	"XPLCOND" Condition byte
52	(34)	X'80'	0	X002CONT	"XPLCOB0" I.Card is a continuation
52	(34)	X'10'	0	X002SEC	"XPLCOB3" I.Not first time exit has been passed card
	Response byte equates				
52	(34)	X'9'	0	X002RESP	"XPLRESP" Response byte
52	(34)	X'80'	0	X002XSNC	"XPLREB0" O.Exit supplied next card

Table 590. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
52	(34)	X'40'	0	X002XSEM	"XPLREB1" O.Exit supplied error msg
52	(34)	X'20'	0	X002JCMT	"XPLREB2" O.Skip processing card
52	(34)	X'10'	0	X002KILL	"XPLREB3" O.Kill current job
52	(34)	X'8'	0	X002PURG	"XPLREB4" O.Purge current job
52	(34)	X'4'	0	X002RLOC	"XPLREB5" O.Changed/added cards are not to be sent via NJE (set RJCB3LOC in current RJCB)
52	(34)	X'10'	0	X002PLUS	"XPLPLUS" Exit 2 parameter list
16	(10)	ADDRESS	4	X002CARD	I.Address card image
20	(14)	ADDRESS	4	X002FLGX	I.For compatibility, ptr to FLAGX. Exits should use X002IND, X002COND and X002RESP instead.
24	(18)	ADDRESS	4	X002JXWR	I.Pointer to JCTXWRK
28	(1C)	ADDRESS	4	X002JCT	I.Address of JCT
32	(20)	ADDRESS	4	X002JQE	I.Address of JQE
36	(24)	ADDRESS	4	X002AREA	I.Address of JRW
40	(28)	ADDRESS	4	X002STMT	I.Pointer to stmt buffer
44	(2C)	ADDRESS	4	X002STME	IO.Addr 1 byte past end of statement buffer
48	(30)	CHARACTER	8	X002STML	I.Label on statement (JCL)
56	(38)	CHARACTER	8	X002STMV	I.Statement verb
64	(40)	ADDRESS	4	X002RJCP	O.Chain of RJCBs to queue before current statement
68	(44)	ADDRESS	4	X002RJCA	O.Chain of RJCBs to queue after current statement
72	(48)	ADDRESS	4	X002RJCC	O.Chain of RJCBs to queue after current card
76	(4C)	BITSTRING	1	X002FLG1	Statement flag byte
	Following bits should be the same as RJCB bits				
	.... 1...			X002LOPR	"B'00001000'" I.Last operand is on card
	.... .1..			X002QUOT	"B'00000100'" I.Unfinished quote at end of card
	.... ..1.			X002CCMT	"B'00000010'" I.Card is a cont comment
	1			X002LAST	"B'00000001'" I.Last card in statement
	Field common to exits 2 and 52				
77	(4D)	BITSTRING	1	X002ECLT	IO.Job JECL processing:
	1...			X002J2CL	"B'10000000'" Process JES2 JECL
	.1..			X002J3CL	"B'01000000'" Process JES3 JECL
78	(4E)	BITSTRING	2		Reserved
	End of fields common to exits 2, 4, 52 and 54				
80	(50)	CHARACTER	8	X002OCLS	O.Override job class
88	(58)	CHARACTER	8	X002OJNM	O.Override job name
	Field common to exits 2 and 52				
96	(60)	CHARACTER	32	X002UCOR	IO.User portion of the job correlator
	Fields common to exits 2, 4, 52 and 54				

Table 590. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
128	(80)	CHARACTER	12	X002ST12	I.Statement verb- length 12
128	(80)	X'8C'	0	X002SIZE	"*-XPL" Size of XPL for Exit 2
		Exit 3 XPL values JOB statement accounting field scan (main task)			
128	(80)	X'3'	0	X003XID	"3" Exit 3 ID
		.... ..1.		X003VERN	"X'02'" Exit 3 XPL version number
		Indicator byte equates			
128	(80)	X'7'	0	X003IND	"XPLIND" Indicator byte
		Condition byte equates			
128	(80)	X'8'	0	X003COND	"XPLCOND" Condition byte
		Response byte equates			
128	(80)	X'9'	0	X003RESP	"XPLRESP" Response byte
128	(80)	X'80'	0	X003XSEM	"XPLREB0" O.Exit supplied error msg
128	(80)	X'40'	0	X003SKIP	"XPLREB1" O.Skip default accounting field scan
128	(80)	X'20'	0	X003KILL	"XPLREB2" O.Kill current job
128	(80)	X'10'	0	X003PLUS	"XPLPLUS" Exit 3 parameter list
16	(10)	ADDRESS	4	X003ACCT	I.Addr of accounting field
20	(14)	ADDRESS	4	X003FLGX	I.For compatibility, ptr to FLAGX. Exits should use X003IND, X003COND and X003RESP instead.
24	(18)	ADDRESS	4	X003JXWR	I.Pointer to JCTXWRK
28	(1C)	SIGNED	4	X003ACTL	I.Leng of accounting field
32	(20)	ADDRESS	4	X003JCT	I.Address of JCT
36	(24)	ADDRESS	4	X003JQE	I.Address of JQE
40	(28)	ADDRESS	4	X003AREA	I.Address of JRW
44	(2C)	CHARACTER	8	X003JCLS	IO.Current/updated JOBCLASS
52	(34)	BITSTRING	1	X003ECLT	IO.Job JECL processing:
		1...		X003J2CL	"B'10000000'" Process JES2 JECL
		.1..		X003J3CL	"B'01000000'" Process JES3 JECL
53	(35)	BITSTRING	3		Reserved
53	(35)	X'38'	0	X003SIZE	"*-XPL" Size of XPL for Exit 3
		Exit 4 XPL values JCL and JES2 control statement scan (main task) The mapping of fields at the start of exits 2, 4, 52 and 54 are the same. Indicator values may vary based on the exit. The mappings of exits 4 and 54 are identical.			
53	(35)	X'4'	0	X004XID	"4" Exit 4 ID
		1		X004VERN	"X'01'" Exit 4 XPL version number
		Indicator byte equates			
53	(35)	X'7'	0	X004IND	"XPLIND" Indicator byte
		....		X004JCL	"X'00'" I.JCL card detected
		.... .1..		X004JECL	"X'04'" I.JECL card detected
		Condition byte equates			

Table 590. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
53	(35)	X'8'	0	X004COND	"XPLCOND" Condition byte
53	(35)	X'80'	0	X004CONT	"XPLCOB0" I.Card is a continuation
53	(35)	X'40'	0	X004JOBP	"XPLCOB1" I. JOBPARM card detected
53	(35)	X'20'	0	X004CMND	"XPLCOB2" I. $ command card det
53	(35)	X'10'	0	X004SEC	"XPLCOB3" I.Not first time exit has been passed card
53	(35)	X'1'	0	X004PREJ	"XPLCOB7" I.Card encountered outside a job structure
	Response byte equates				
53	(35)	X'9'	0	X004RESP	"XPLRESP" Response byte
53	(35)	X'80'	0	X004XSNC	"XPLREB0" O.Exit supplied next card
53	(35)	X'40'	0	X004XSEM	"XPLREB1" O.Exit supplied error msg
53	(35)	X'20'	0	X004JCMT	"XPLREB2" O.Skip processing card
53	(35)	X'10'	0	X004KILL	"XPLREB3" O.Kill current job
53	(35)	X'8'	0	X004PURG	"XPLREB4" O.Purge current job
53	(35)	X'4'	0	X004RLOC	"XPLREB5" O.Changed/added cards are not to be sent via NJE (set RJCB3LOC in current RJCB)
53	(35)	X'10'	0	X004PLUS	"XPLPLUS" Exit 4 parameter list
16	(10)	ADDRESS	4	X004CARD	I.Address card image
20	(14)	ADDRESS	4	X004FLGX	I.For compatibility, ptr to FLAGX. Exits should use X004IND, X004COND and X004RESP instead.
24	(18)	ADDRESS	4	X004JXWR	I.Pointer to JCTXWRK
28	(1C)	ADDRESS	4	X004JCT	I.Address of JCT or zero
32	(20)	ADDRESS	4	X004JQE	I.Address of JQE or zero
36	(24)	ADDRESS	4	X004AREA	I.Address of JRW
40	(28)	ADDRESS	4	X004STMT	I.Pointer to stmt buffer
44	(2C)	ADDRESS	4	X004STME	IO.Addr 1 byte past end of statement buffer
48	(30)	CHARACTER	8	X004STML	I.Label on statement (JCL)
56	(38)	CHARACTER	8	X004STMV	I.Statement verb
64	(40)	ADDRESS	4	X004RJCP	O.Chain of RJCBs to queue before current statement
68	(44)	ADDRESS	4	X004RJCA	O.Chain of RJCBs to queue after current statement
72	(48)	ADDRESS	4	X004RJCC	O.Chain of RJCBs to queue after current card
76	(4C)	BITSTRING	1	X004FLG1	Statement flag byte
	Following bits should be the same as RJCB bits				
	.... 1...			X004LOPR	"B'00001000'" I.Last operand is on card
	.... .1..			X004QUOT	"B'00000100'" I.Unfinished quote at end of card
	.... ..1.			X004CCMT	"B'00000010'" I.Card is a cont comment
	1			X004LAST	"B'00000001'" I.Last card in statement

Table 590. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
77	(4D)	BITSTRING	3		Reserved
80	(50)	BITSTRING	12	X004ST12	I.Statement verb - length 12
		End of fields common to exits 2, 4, 52, and 54			
92	(5C)	BITSTRING	48		Reserved
92	(5C)	X'8C'	0	X004SIZE	"*-XPL" Size of XPL for Exit 4
140	(8C)	ADDRESS	2	(0)	Ensure XPL for exits 2
140	(8C)	ADDRESS	2	(0)	and 4 are same size
		Exit 5 has no XPLs 5 - JES2 command preprocessor Exit 6 XPL values JES2 converter exit (subtask) See exit 60 for USER environment converter exit Note that this maps the same as the exit 59 and 60 XPL			
		1		X006VERN	"X'01'" Exit 6 XPL version number
140	(8C)	X'6'	0	X006XID	"6" Exit 6 id
		Indicator byte equates			
140	(8C)	X'7'	0	X006IND	"XPLIND" Indicator byte
140	(8C)	X'0'	0	X006TEXT	"0" Internal text exit
140	(8C)	X'4'	0	X006CEND	"4" End of conversion
		Condition byte equates			
140	(8C)	X'8'	0	X006COND	"XPLCOND" Condition byte
140	(8C)	X'40'	0	X006TSU	"XPLCOB1" TSO user
140	(8C)	X'20'	0	X006STC	"XPLCOB2" Started task
140	(8C)	X'10'	0	X006JOB	"XPLCOB3" Batch job
		Response byte equates			
140	(8C)	X'9'	0	X006RESP	"XPLRESP" Response byte
140	(8C)	X'80'	0	X006HOLD	"XPLREB0" Job should be held
140	(8C)	X'10'	0	X006PLUS	"XPLPLUS" Exit 06 parameter list
16	(10)	ADDRESS	4	X006WORK	16 byte work area address
20	(14)	ADDRESS	4	X006ITXT(0)	Internal text image address (X006IND = X006TEXT)
20	(14)	ADDRESS	4	X006CRET	Address of Converter RC (X006IND = X006CEND)
24	(18)	ADDRESS	4	X006CNVW	JES2 DTE work area address
28	(1C)	ADDRESS	4	X006JCT	JCT address
32	(20)	ADDRESS	4	X006CNMB	Address of message buffer
36	(24)	ADDRESS	4	X006CIW	CIWORK data area address
40	(28)	CHARACTER	8	X006JCLS	Current/updated job class
48	(30)	CHARACTER	16	X006SCHE	and scheduling environ
48	(30)	X'40'	0	X006SIZE	"*-XPL" Length of Exit 06 XPL
		Exit 7 XPL values Control block I/O (JES2)			
		1		X007VERN	"X'01'" Exit 07 XPL version number
48	(30)	X'7'	0	X007XID	"7" Exit 07 id
		Indicator byte equates			

Table 590. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
48	(30)	X'7'	0	X007IND	"XPLIND" Indicator byte equate
		Response byte equates			
48	(30)	X'9'	0	X007RESP	"XPLRESP" Response byte equate
48	(30)	X'80'	0	X007IOER	"XPLREB0" Response bit to indicate I/O error
		Condition byte equates			
48	(30)	X'8'	0	X007COND	"XPLCOND" Condition byte equate
48	(30)	X'40'	0	X007CBWR	"XPLCOB1" Control block is to be written
48	(30)	X'20'	0	X007CBUN	"XPLCOB2" Unknown control block read
48	(30)	X'10'	0	X007CBIN	"XPLCOB3" Invalid control block read
48	(30)	X'10'	0	X007PLUS	"XPLPLUS" Exit 07 parameter list
16	(10)	CHARACTER	4	X007CBID	Control block ID
16	(10)	X'14'	0	X007SIZE	"*-XPL" Length of Exit 07 xpl
		Exit 8 XPL values Control block read/write (user, subtask, and FSS)			
		1		X008VERN	"X'01'" Exit 08 XPL version number
16	(10)	X'8'	0	X008XID	"8" Exit 08 id
		Indicator byte equates			
16	(10)	X'7'	0	X008IND	"XPLIND" Indicator byte equate
		Response byte equates			
16	(10)	X'9'	0	X008RESP	"XPLRESP" Response byte equate
16	(10)	X'80'	0	X008IOER	"XPLREB0" Response bit to indicate I/O error
		Condition byte equates			
16	(10)	X'8'	0	X008COND	"XPLCOND" Condition byte equate
16	(10)	X'40'	0	X008CBWR	"XPLCOB1" Control block is to be written
16	(10)	X'20'	0	X008CBUN	"XPLCOB2" Unknown control block read
16	(10)	X'10'	0	X008CBIN	"XPLCOB3" Invalid control block read
16	(10)	X'8'	0	X008FSSM	"XPLCOB4" CBIO done by FSSM
16	(10)	X'10'	0	X008PLUS	"XPLPLUS" Exit 08 parameter list
16	(10)	CHARACTER	4	X008CBID	Control block ID
16	(10)	X'14'	0	X008SIZE	"*-XPL" Length of Exit 07 xpl
		Exit 9 XPL values Output excession options			
		.... ..1.		X009VERN	"X'02'" Exit 9 XPL version number
16	(10)	X'9'	0	X009XID	"9" Exit 9 id
		Indicator byte equates			
16	(10)	X'7'	0	X009IND	"XPLIND" Indicator byte

Table 590. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		X009USER	"B'00001000'" Invoked from JES2 address space
		.... .1..		X009CNCL	"B'00000100'" CANCEL on JOB JCL keyword
		.... ..1.		X009DUMP	"B'00000010'" DUMP on JOB JCL keyword
		1		X009WARN	"B'00000001'" WARNING on JOB JCL keyword
16	(10)	X'F'	0	X009INDX	"X009USER+X009CNCL+X009DUMP+X009WARN" Valid indicator bits
	Condition byte equates				
16	(10)	X'8'	0	X009COND	"XPLCOND" Condition byte
16	(10)	X'80'	0	X009CEXC	"XPLCOB0" Cards exceeded estimate
16	(10)	X'40'	0	X009LEXC	"XPLCOB1" Lines exceeded estimate
16	(10)	X'20'	0	X009PEXC	"XPLCOB2" Pages exceeded estimate
16	(10)	X'10'	0	X009BEXC	"XPLCOB3" Bytes exceeded estimate
16	(10)	X'F0'	0	X009CONX	"X009CEXC+X009LEXC+X009PEXC+X009BEXC" Valid condition bits
	Response byte equates				
16	(10)	X'9'	0	X009RESP	"XPLRESP" Response byte
16	(10)	X'80'	0	X009XOVR	"XPLREB0" Execution Option Value Returned (bits 6 and 7)
16	(10)	X'40'	0	X009OLIR	"XPLREB1" Output Limit Increment Returned in Parm List
16	(10)	X'20'	0	X009SDEM	"XPLREB2" Suppress Default Error Message
16	(10)	X'10'	0	X009USRB	"XPLREB3" Use Response Bits
16	(10)	X'E0'	0	X009RESX	"X009XOVR+X009OLIR+X009SDEM" Valid response bits
16	(10)	X'2'	0	X009722D	"XPLREB6" ABEND (722) with dump
16	(10)	X'1'	0	X009722N	"XPLREB7" ABEND (722) with no dump
	X009XOVR must be set to 1 for these bits to be used. For a response of WARNING, X009722D and X009722N are left as 0 and X009XOVR must be set to 1.				
16	(10)	X'3'	0	X009RESO	"X009722D+X009722N" Valid options bits
16	(10)	X'10'	0	X009PLUS	"XPLPLUS" Exit 9 parameter list
16	(10)	ADDRESS	4	X009JCT	Address of JCT
	The following line/punch, page and byte counts have a maximum of X'7FFFFFFF'. If the actual value exceeds this maximum, these fields will be truncated at X'7FFFFFFF' and the exact counts should be obtained from corresponding packed decimal format fields below.				
20	(14)	SIGNED	4	X009LVAL	JCTLINES or JCTPUNCH value
24	(18)	SIGNED	4	X009PVAL	JCTPAGES value

Table 590. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
28	(1C)	SIGNED	4	X009BVAL	JCTBYTES value
32	(20)	SIGNED	4	X009RINC	User's increase for records
36	(24)	SIGNED	4	X009PINC	User's increase for pages
40	(28)	SIGNED	4	X009BINC	User's increase for bytes
44	(2C)	SIGNED	4		Reserved for future use
48	(30)	DBL WORD	8	(0)	Force next fields dbleword
48	(30)		8	X009DLIN	Job's exact line/punch cnt in packed decimal format
56	(38)		8	X009DPAG	Job's exact page count in packed decimal format
64	(40)		8	X009DBYT	Job's exact byte count in packed decimal format
72	(48)	DBL WORD	8	(0)	Force length multi-double
72	(48)	X'48'	0	X009SIZE	"*-XPL" Size of XPL for exit 9
		Exit 10-14 have no XPLs 10 - $WTO screen 11 - Spool partitioning allocation ($TRACK) 12 - Spool partitioning allocation ($STRAK) 13 - Retired 14 - Job queue work select - $QGET Exit 15 XPL values Output data set/copy select			
72	(48)	X'F'	0	X015XID	"15" Exit 15 ID
		1		X015VERN	"X'01'" Exit 15 XPL version number
		Indicator byte equates			
72	(48)	X'7'	0	X015IND	"XPLIND" Indicator byte equate
		1...		X015DSEL	"X'80'" Data set selection call
		.1..		X015DSEP	"X'40'" Separator page call
		Condition byte equates			
72	(48)	X'8'	0	X015COND	"XPLCOND" Condition byte
72	(48)	X'80'	0	X015RFSW	"XPLCOB0" Condition bit that specifies the PDDB references the SWBTU
72	(48)	X'40'	0	X015SEPP	"XPLCOB1" Bit is on if SEPDS=YES indicating ds separator pages are requested
		Response byte equates			
72	(48)	X'9'	0	X015RESP	"XPLRESP" Response byte equate
72	(48)	X'80'	0	X015BYPS	"XPLREB0" Response bit to bypass the current PDDB
72	(48)	X'10'	0	X015PLUS	"XPLPLUS" Exit 15 parameter list
16	(10)	ADDRESS	4	X015DCT	Address of the DCT
20	(14)	ADDRESS	4	X015JCT	Address of the JCT
24	(18)	ADDRESS	4	X015DSCT	Address of DSCT or zeroes
28	(1C)	ADDRESS	4	X015JQE	Address of the JQE
32	(20)	ADDRESS	4	X015JOA	Address of the JOA
36	(24)	SIGNED	4		Reserved for future use
40	(28)	ADDRESS	4	X015PDDB	Address of the current PDDB

Table 590. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
44	(2C)	ADDRESS	4	X015SWBT	Address of the SWBTU pointer list for 1st data set for the current JOE or zero
48	(30)	SIGNED	2	X015NSWB	Number of SWBITs despooled
50	(32)	SIGNED	2	X015RSVD	Reserved for future use
52	(34)	ADDRESS	4	X015PRTR	Address of the Print Translate Table
56	(38)	ADDRESS	4	X015CCWT	Address of the CCW Translate Table
60	(3C)	SIGNED	4	X015NCOP	Original number of copies of the data set to be printed
64	(40)	SIGNED	4	X015CPRT	Number of copies currently printed
68	(44)	ADDRESS	4	X015CPGP	Address of the Copy Group
72	(48)	SIGNED	4	X015CGCT	Current Copy Group Count
72	(48)	X'4C'	0	X015SIZE	"*-XPL" Size of XPL for Exit 1
72	(48)	X'20'	0	X015WJOE	"X015JOA" Equate for work JOE.
		Exit 16-19 have no XPLs 16 - Notify 17 - BSC RJE SIGNON/SIGNOFF 18 - SNA RJE LOGON/LOGOFF 19 - Initialization statement Exit 20 XPL values End of input			
72	(48)	X'14'	0	X020XID	"20" Exit 20 ID
		11		X020VERN	"X'03'" Exit 20 XPL version number
		Indicator byte equates			
72	(48)	X'7'	0	X020IND	"XPLIND" Indicator byte equate
		Condition byte equates			
72	(48)	X'8'	0	X020COND	"XPLCOND" Condition byte
72	(48)	X'80'	0	X020GJOB	"XPLCOB0" Condition bit that specifies a normal job
72	(48)	X'40'	0	X020JECL	"XPLCOB1" Condition bit specifies JECL error
72	(48)	X'20'	0	X020BSAF	"XPLCOB2" Condition bit specifies SAF failure
72	(48)	X'10'	0	X020WSEL	"XPLCOB3" Condition bit specifies work selection mismatch
		Response byte equates			
72	(48)	X'9'	0	X020RESP	"XPLRESP" Response byte equate
72	(48)	X'80'	0	X020NORM	"XPLREB0" Response bit to do normal process
72	(48)	X'40'	0	X020OUTP	"XPLREB1" Response bit to terminate job with output
72	(48)	X'20'	0	X020PURG	"XPLREB2" Response bit to terminate by purge
72	(48)	X'10'	0	X020AVF	"XPLREB3" Response bit to indicate exit's job verify failed

Table 590. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
72	(48)	X'10'	0	X020PLUS	"XPLPLUS" Exit 20 parameter list
16	(10)	ADDRESS	4	X020JCT	Address of the JCT
20	(14)	ADDRESS	4	X020JQE	Address of the JQA
24	(18)	ADDRESS	4	X020DCT	Address of the DCT
28	(1C)	ADDRESS	4	X020AREA	Address of JRW
32	(20)	SIGNED	1	X020PRIO	Job priority
33	(21)	BITSTRING	1	X020FLG1	Flags
		1...		X0201ARM	"B'10000000'" SYSAFF set by MVS ARM
		.1..		X0201IND	"B'01000000'" Independent system aff
		..1.		X020LOGJ	"B'00100000'" Associated job is JOBGROUP logging job
34	(22)	SIGNED	2	X020XNOD	Execution node
36	(24)	BITSTRING	4	X020SAF	Full system affinity mask
40	(28)	CHARACTER	16	X020SENV	SCHENV value
56	(38)	CHARACTER	8	X020JCLS	Job class
64	(40)	BITSTRING	1	X020NEXT	Next job phase
65	(41)	BITSTRING	3		Reserved
68	(44)	CHARACTER	32	X020UCOR	User portion job correlator
100	(64)	ADDRESS	4	(0)	Align to word boundary
100	(64)	X'64'	0	X020SIZE	"*-XPL" Size of XPL for Exit 20
		Exit 21 (No XPL for exit) SMF record Exit 22 XPL values Cancel/status			
		1		X022VERN	"X'01'" Exit 22 XPL version number
100	(64)	X'16'	0	X022XID	"22" Exit 22 id
		Indicator byte equates			
100	(64)	X'7'	0	X022IND	"XPLIND" Indicator byte equate
100	(64)	X'0'	0	X022FRST	"0" First call to exit
100	(64)	X'4'	0	X022MURE	"4" Multiple recall
100	(64)	X'8'	0	X022MUST	"8" Multiple status overflow
		Response byte equates			
100	(64)	X'9'	0	X022RESP	"XPLRESP" Response byte equate
100	(64)	X'80'	0	X022IOER	"XPLREB0" Response bit to indicate I/O error
		Condition byte equates			
100	(64)	X'8'	0	X022COND	"XPLCOND" Condition Byte
100	(64)	X'10'	0	X022PLUS	"XPLPLUS" Exit 22 parameter list
16	(10)	ADDRESS	4	X022STAC	Address of STAC
20	(14)	SIGNED	4	X022STAA	ALET of STAC
20	(14)	X'18'	0	X022SIZE	"*-XPL" Size of XPL for Exit 20
		Exit 23 (No XPL for exit) FSS job separator page (JSPA) processing Exit 24 XPL values Post-initialization			
		1		X024VERN	"X'01'" Exit 24 XPL version number

Table 590. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
20	(14)	X'18'	0	X024XID	"24" Exit 24 id
	Indicator Byte Equates				
20	(14)	X'7'	0	X024IND	"XPLIND" Indicator Byte Equate
	Condition Byte Equates				
20	(14)	X'8'	0	X024COND	"XPLCOND" Condition Byte - Start Type
20	(14)	X'80'	0	X024WARM	"$WARM" Single-System Warm Start
20	(14)	X'40'	0	X024HOT	"$HOT" Hot start
20	(14)	X'20'	0	X024QCK	"$QUICK" Quick Start
20	(14)	X'10'	0	X024ALLS	"$CONFIG" All-Systems Warm-Start
20	(14)	X'8'	0	X024ESYS	"$ESYS" $E SYS Restart
20	(14)	X'4'	0	X024COLD	"$COLD" Cold start
20	(14)	X'2'	0	X024IPL	"$MVSIPL" System was IPLed
20	(14)	X'1'	0	X024COFM	"$COLDFMT" Cold start with format
	Response Byte Equates				
20	(14)	X'9'	0	X024RESP	"XPLRESP" Response Byte
20	(14)	X'80'	0	X024RSSI	"XPLREB0" Exit has built an Information string
20	(14)	X'10'	0	X024PLUS	"XPLPLUS" Exit 24 parameter list
16	(10)	ADDRESS	4	X024SSIA	Address of SSI info area
20	(14)	SIGNED	2	X024SSWL	Length of info work area
22	(16)	SIGNED	2	X024SSIL	Size of installation data string
22	(16)	X'18'	0	X024SIZE	"*-XPL" Size of XPL for exit 24
	Exit 25-30 have no XPLs 25 - JCT read 26 - Termination/resource release 27 - PCE attach/detach 28 - Subsystem interface (SSI) job termination 29 - Subsystem interface (SSI) end-of-memory 30 - Subsystem interface (SSI) data set OPEN/restart Exit 31 XPL values Subsystem interface (SSI) allocation				
	1			X031VERN	"X'01'" Exit 31 XPL version number
22	(16)	X'1F'	0	X031XID	"31" Exit 31 id
	Indicator Byte Equates				
22	(16)	X'7'	0	X031IND	"XPLIND" Indicator Byte Equate
	Condition Byte Equates				
22	(16)	X'8'	0	X031COND	"XPLCOND" Condition Byte
22	(16)	X'1'	0	X031ERR	"XPLCOB7" Allocation error
	Response Byte Equates				
22	(16)	X'9'	0	X031RESP	"XPLRESP" Response Byte
22	(16)	X'1'	0	X031FAIL	"XPLREB7" Fail allocation request
22	(16)	X'10'	0	X031PLUS	"XPLPLUS" Exit 31 parameter list
16	(10)	BITSTRING	1	X031DSTY	Dataset type
16	(10)	X'0'	0	X031INTR	"0" Internal reader

Table 590. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
16	(10)	X'4'	0	X031JSNW	"4" JESNEWS
16	(10)	X'8'	0	X031SYIN	"8" SYSIN
16	(10)	X'C'	0	X031SYSO	"12" SYSOUT
16	(10)	X'10'	0	X031PSPI	"16" PSO or SAPI
16	(10)	X'14'	0	X031SDSB	"20" SPOOL browse
16	(10)	X'18'	0	X031UNK	"24" Unknown
17	(11)	BITSTRING	3		Reserved
20	(14)	ADDRESS	4	X031SDB	Address of SDB/IRWD or zero
24	(18)	ADDRESS	4	X031SJB	Address of SJB or zero
28	(1C)	ADDRESS	4	X031JFCB	Address of JFCB
32	(20)	ADDRESS	4	X031PDDB	Address of PDDB or zero
36	(24)	ADDRESS	4	X031IOT	Address of IOT or zero
36	(24)	X'28'	0	X031SIZE	"*-XPL" Size of XPL for exit 31
	Mapping for Exit 32 parameter list				
	.... ..1.			X032VERN	"X'02'" Exit 32 XPL version number
36	(24)	X'20'	0	X032XID	"32" Exit 32 id
7	(7)	BITSTRING	3		Not used
7	(7)	X'10'	0	X032PLUS	"XPLPLUS"
	Indicator Byte Equates				
16	(10)	BITSTRING	1	X032IND	Indicator Byte
16	(10)	X'4'	0	X032IRJI	"4" Request Job ID
16	(10)	X'8'	0	X032IRCL	"8" Request Job by class
16	(10)	X'C'	0	X032ITSU	"12" TSU
16	(10)	X'10'	0	X032ISTC	"16" STC
16	(10)	X'14'	0	X032IWLM	"20" WLM (not demand select)
16	(10)	X'18'	0	X032IWLD	"24" WLM demand select
16	(10)	X'1C'	0	X032ICON	"28" Job within concurrent set
	Condition Byte Equates				
17	(11)	BITSTRING	1	X032COND	Condition Byte
17	(11)	X'1'	0	X032CIOE	"XPLCOB7" I/O error during job select (will be terminated or requeued)
	Response Byte Equates				
18	(12)	BITSTRING	1	X032RESP	Response Byte
	EQU B'10000000' Reserved				
18	(12)	X'40'	0	X032RHLD	"XPLREB1" Hold Job (valid only if X032RBEG or X032RVIC on)
18	(12)	X'20'	0	X032RBEG	"XPLREB2" Restart job from first step (valid only if X032RTJB is on)
18	(12)	X'10'	0	X032RVIC	"XPLREB3" Restart job from its eviction point (if any) (valid only if X032RTJB is on)
18	(12)	X'8'	0	X032RTIN	"XPLREB4" Terminate Initiator
18	(12)	X'4'	0	X032RTID	"XPLREB5" Terminate and drain init
18	(12)	X'2'	0	X032RTJB	"XPLREB6" Do not select job

Table 590. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
18	(12)	X'1'	0	X032RNMG	"XPLREB7" Suppress job select msg
19	(13)	BITSTRING	1		Reserved
20	(14)	ADDRESS	4	X032SJB	Address of SJB
24	(18)	ADDRESS	4	X032JCT	Address of JCT (or 0)
24	(18)	X'1C'	0	X032SIZE	"*-XPL" Size of parameter list
		Exit 33-35 have no XPLs 33 - Subsystem interface (SSI) data set CLOSE 34 - Subsystem interface (SSI) data set unallocation 35 - Subsystem interface (SSI) end-of-task Exit 36 XPL values Pre-security authorization call			
		1		X036VERN	"X'01'" Exit 36 XPL version number
24	(18)	X'24'	0	X036XID	"36" Exit 36 id
		Indicator Byte Equates			
24	(18)	X'7'	0	X036IND	"XPLIND" Indicator byte
		Condition Byte Equates			
24	(18)	X'8'	0	X036COND	"XPLCOND" Condition byte
24	(18)	X'80'	0	X036JES2	"XPLCOB0" JES2 exit caller
24	(18)	X'40'	0	X036USER	"XPLCOB1" User exit caller
		Response Byte Equates			
24	(18)	X'9'	0	X036RESP	"XPLRESP" Response byte
24	(18)	X'2'	0	X036NORC	"XPLREB6" Exit-specified return/reason codes to be used
24	(18)	X'1'	0	X036BYPS	"XPLREB7" Bypass SAF call
24	(18)	X'10'	0	X036PLUS	"XPLPLUS" Exit 36 parameter list
16	(10)	ADDRESS	4	X036PARM	RACROUTE parm list WAVRACRP
20	(14)	ADDRESS	4	X036WAVE	Address of $WAVE
24	(18)	CHARACTER	4	X036RCBN	Acronym of function related control block
28	(1C)	ADDRESS	4	X036RCBA	Address of function related control block
32	(20)	SIGNED	4	X036RETC	Exit-supplied return code
36	(24)	SIGNED	4	X036RSNC	Exit-supplied reason code
36	(24)	X'28'	0	X036SIZE	"*-XPL" Size of XPL for exit 36
		Exit 37 XPL values Post-security authorization call			
		1		X037VERN	"X'01'" Exit 37 XPL version number
36	(24)	X'25'	0	X037XID	"37" Exit 37 id
		Indicator Byte Equates			
36	(24)	X'7'	0	X037IND	"XPLIND" Indicator byte
		Condition Byte Equates			
36	(24)	X'8'	0	X037COND	"XPLCOND" Condition byte
36	(24)	X'80'	0	X037JES2	"XPLCOB0" JES2 exit caller
36	(24)	X'40'	0	X037USER	"XPLCOB1" User exit caller
		Response Byte Equates			

Table 590. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
36	(24)	X'9'	0	X037RESP	"XPLRESP" Response byte
36	(24)	X'2'	0	X037NORC	"XPLREB6" Exit-specified return/reason codes to be used
36	(24)	X'10'	0	X037PLUS	"XPLPLUS" Exit 37 parameter list
16	(10)	ADDRESS	4	X037PARM	RACROUTE parm list WAVRACRP
20	(14)	ADDRESS	4	X037WAVE	Address of $WAVE
24	(18)	CHARACTER	4	X037RCBN	Acronym of function related control block
28	(1C)	ADDRESS	4	X037RCBA	Address of function related control block
32	(20)	SIGNED	4	X037RETC	Exit-supplied return code
36	(24)	SIGNED	4	X037RSNC	Exit-supplied reason code
36	(24)	X'28'	0	X037SIZE	"*-XPL" Size of XPL for exit 37
	Exit 38 XPL values TSO/E receive data set disposition				
	1			X038VERN	"X'01'" Exit 38 XPL version number
36	(24)	X'26'	0	X038XID	"38" Exit 38 id
	Indicator Byte Equates				
36	(24)	X'7'	0	X038IND	"XPLIND" Indicator byte
	Condition Byte Equates				
36	(24)	X'8'	0	X038COND	"XPLCOND" Condition byte
	Response Byte Equates				
36	(24)	X'9'	0	X038RESP	"XPLRESP" Response byte
36	(24)	X'80'	0	X038KEEP	"XPLREB0" Keep the JOE
36	(24)	X'10'	0	X038PLUS	"XPLPLUS" Exit 38 parm list additions
16	(10)	ADDRESS	4	X038PSO	Address of PSO
20	(14)	ADDRESS	4	X038JOA	Address of the JOA
20	(14)	X'18'	0	X038SIZE	"*-XPL" Size of XPL for exit 38
20	(14)	X'14'	0	X038JOE	"X038JOA" Equate for work JOE.
	Exit 39 XPL values BSC and SNA NJE SYSOUT reception can never receive				
	1			X039VERN	"X'01'" Exit 39 XPL version number
20	(14)	X'27'	0	X039XID	"39" Exit 39 id
	Indicator Byte Equates				
20	(14)	X'7'	0	X039IND	"XPLIND" Indicator byte
	Condition Byte Equates				
20	(14)	X'8'	0	X039COND	"XPLCOND" Condition byte
	Response Byte Equates				
20	(14)	X'9'	0	X039RESP	"XPLRESP" Response byte
20	(14)	X'80'	0	X039RECV	"XPLREB0" Allow data set receive
20	(14)	X'10'	0	X039PLUS	"XPLPLUS" Exit 39 parm list additions
16	(10)	ADDRESS	4	X039PDDB	PDDB address
20	(14)	ADDRESS	4	X039JCT	JCT address

Table 590. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
24	(18)	ADDRESS	4	X039NDH	Data set header address
28	(1C)	ADDRESS	4	X039AREA	SRW address
28	(1C)	X'20'	0	X039SIZE	"*-XPL" Length of Exit 39 parm list
		Exit 40 XPL values Modifying SYSOUT characteristics			
		1		X040VERN	"X'01'" Exit 40 XPL version number
28	(1C)	X'28'	0	X040XID	"40" Exit 40 id
		Indicator Byte Equates			
28	(1C)	X'7'	0	X040IND	"XPLIND" Indicator byte
		1...		X040SPIN	"X'80'" This is a spin data set
		.1..		X040NSPN	"X'40'" This is a non-spin data set
		..1.		X040UNSP	"X'20'" This is an unspun data set
		Condition Byte Equates			
28	(1C)	X'8'	0	X040COND	"XPLCOND" Condition byte equate
		Response Byte Equates			
28	(1C)	X'9'	0	X040RESP	"XPLRESP" Response byte
28	(1C)	X'80'	0	X040RFNT	"XPLREB0" Force mail message regardless of NJEDEF MAILMSG= value
28	(1C)	X'40'	0	X040RNNT	"XPLREB1" Suppress mail message regardless of NJEDEF MAILMSG= value
28	(1C)	X'10'	0	X040PLUS	"XPLPLUS" Exit 40 parameter list
16	(10)	ADDRESS	4	X040PDDB	Address of PDDB
20	(14)	ADDRESS	4	X040JQE	Address of JQE
24	(18)	ADDRESS	4	X040JCT	Address of JCT
28	(1C)	ADDRESS	4	X040DSCT	Address of DSCT
32	(20)	CHARACTER	20	X040VTXT	Variable text for $HASP548
32	(20)	X'34'	0	X040SIZE	"*-XPL" Length of Exit 40 xpl
		Exit 41 XPL values Modifying output grouping key selection			
		1		X041VERN	"X'01'" Exit 41 XPL version number
32	(20)	X'29'	0	X041XID	"41" Exit 41 id
		Indicator Byte Equates			
32	(20)	X'7'	0	X041IND	"XPLIND" Indicator byte
		Condition Byte Equates			
32	(20)	X'8'	0	X041COND	"XPLCOND" Condition byte
		Response byte equates			
32	(20)	X'9'	0	X041RESP	"XPLRESP" Response byte
32	(20)	X'10'	0	X041PLUS	"XPLPLUS" Exit 41 parameter list

Table 590. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
16	(10)	ADDRESS	4	X041GGKT	Address of grouping keys table (mapped by the SJTRKEYL DSECT in the IEFSJTRP macro)
20	(14)	SIGNED	2	X041DEFN	Number of defined entries
22	(16)	SIGNED	2	X041TOTN	Total number of entries (including reserved entries)
22	(16)	X'18'	0	X041RSVN	"24" Number of entries reserved for additional keys
24	(18)	CHARACTER	8	X041JDVT	JDVT name
24	(18)	X'20'	0	X041SIZE	"*-XPL" Size of XPL for exit 41
		Exit 42 XPL values Modifying a notify user message			
	.... ..1.			X042VERN	"X'02'" Exit 42 XPL version number
24	(18)	X'2A'	0	X042XID	"42" Exit 42 id
		Indicator Byte Equates			
24	(18)	X'7'	0	X042IND	"XPLIND" Indicator byte
	1...			X042UNTK	"B'10000000'" User token ignored for unauthorized caller
		Condition Byte Equates			
24	(18)	X'8'	0	X042COND	"XPLCOND" Condition byte These bit definitions reflect the footprints of $NOUSWRK and should maintain the same order as defined.
24	(18)	X'40'	0	X042EMSG	"XPLCOB1" Error in msg specificatn
24	(18)	X'20'	0	X042NOXT	"XPLCOB2" No extension exists
24	(18)	X'10'	0	X042EXTE	"XPLCOB3" Extension Error
24	(18)	X'8'	0	X042NOAU	"XPLCOB4" No authorization
24	(18)	X'4'	0	X042UERR	"XPLCOB5" Userid not specified
24	(18)	X'2'	0	X042DERR	"XPLCOB6" Destination error
		EQU XPLCOB7 Obsolete (z9) Response Byte Equates			
24	(18)	X'9'	0	X042RESP	"XPLRESP" Response byte
24	(18)	X'80'	0	X042CANC	"XPLREB0" Send/Cancel indicator
24	(18)	X'40'	0	X042SETR	"XPLREB1" Exit specified reason/RC
24	(18)	X'20'	0	X042NOCH	"XPLREB2" Node has been changed
24	(18)	X'10'	0	X042RMCH	"XPLREB3" Remote has been changed
24	(18)	X'8'	0	X042USCH	"XPLREB4" USERID has been changed
24	(18)	X'4'	0	X042MSGC	"XPLREB5" Msg text has been changed
24	(18)	X'2'	0	X042MEMC	"XPLREB6" Member has been changed
24	(18)	X'1'	0	X042MAIN	"XPLREB7" Queue CMB to main task
24	(18)	X'10'	0	X042PLUS	"XPLPLUS" Exit 42 parameter list

Table 590. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Note that the IAZSSNU storage is in the SSI caller's key. To access the storage, key instructions (e.g. MVCK, MVCDK, etc.) should be used with the SSI caller's key provided in X042CKEY when accessing data in the IAZSSNU.			
16	(10)	ADDRESS	4	X042SNUA	Address of SSOB ext SSNU
20	(14)	SIGNED	2	X042NEWN	Current/updated binary node
22	(16)	SIGNED	2	X042NEWR	Current/updated binary remote
24	(18)	SIGNED	2	X042NWML	Current/updated message length
26	(1A)	SIGNED	2	X042REAS	Exit specified reason code
28	(1C)	SIGNED	4	X042RC	Exit specified return code
32	(20)	CHARACTER	8	X042NEWU	Current/updated userid
40	(28)	ADDRESS	4	X042NEWM	Pointer to current/updated message
44	(2C)	BITSTRING	1	X042CKEY	SSI caller's key
45	(2D)	SIGNED	1	X042MEMB	Current/updated member number
46	(2E)	BITSTRING	2		Reserved
46	(2E)	X'30'	0	X042SIZE	"*-XPL" Length of Exit 42 xpl
		Exit 43 XPL values APPC/MVS TP selection/change/termination			
		1		X043VERN	"X'01'" Exit 43 XPL version number
46	(2E)	X'2B'	0	X043XID	"43" Exit 43 id
		Indicator Byte Equates			
46	(2E)	X'7'	0	X043IND	"XPLIND" Indicator byte in parmlist
		1...		X043TPS	"X'80'" This is Transaction Select
		.1..		X043TPT	"X'40'" This is Trans Terminate
		..1.		X043CHG	"X'20'" This is Transaction Change
		Condition Byte Equates			
46	(2E)	X'8'	0	X043COND	"XPLCOND" Condition byte
		Response Byte Equates			
46	(2E)	X'9'	0	X043RESP	"XPLRESP" Response byte
46	(2E)	X'10'	0	X043PLUS	"XPLPLUS" Exit 43 parameter list
16	(10)	ADDRESS	4	X043SJB	Address of SJB
20	(14)	ADDRESS	4	X043JCT	Address of JCT
20	(14)	X'18'	0	X043SIZE	"*-XPL" Length of Exit 43 XPL
		Exit 44 XPL values JES2 converter exit (JES2 main task)			
		11		X044VERN	"X'03'" Exit 44 XPL version number
20	(14)	X'2C'	0	X044XID	"44" Exit 44 id
		Indicator byte equates			
20	(14)	X'7'	0	X044IND	"XPLIND" Indicator byte in parmlist
20	(14)	X'0'	0	X044JCLO	"0" JCL Converted without error

Table 590. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
20	(14)	X'4'	0	X044JCLE	"4" JCL error detected by converter
20	(14)	X'8'	0	X044CPER	"8" System error encountered during conversion - see condition byte for additional information
		Condition byte equates The following flags describe the current error to the exit routine. The job will be processed as indicated for each error condition unless directed otherwise by the exit routine via response byte.			
20	(14)	X'8'	0	X044COND	"XPLCOND" Condition byte
20	(14)	X'80'	0	X044DLGN	"XPLCOB0" Duplicate logon job; job will be queued for OUTPUT
20	(14)	X'40'	0	X044FKOF	"XPLCOB1" 'FAKE-OPEN' failure; job will be queued for OUTPUT
20	(14)	X'20'	0	X044CNWT	"XPLCOB2" Job was not converted - requested resources not available; job will be re-queued for conversion
		Response byte equates The following flags describe the actions exit routine can direct JES2 to take instead of the standard actions as indicated in the condition byte above for individual error conditions.			
20	(14)	X'9'	0	X044RESP	"XPLRESP" Response byte
20	(14)	X'80'	0	X044OUTQ	"XPLREB0" Queue job for output
20	(14)	X'40'	0	X044PURQ	"XPLREB1" Queue job for purge
20	(14)	X'20'	0	X044CNVQ	"XPLREB2" Re-queue job for conversion
20	(14)	X'10'	0	X044PLUS	"XPLPLUS" Exit 44 parameter list
16	(10)	ADDRESS	4	X044JCT	Address of the JCT
20	(14)	ADDRESS	4	X044JQE	Address of the JQE
24	(18)	CHARACTER	8	X044JCLS	Current/updated job class
32	(20)	CHARACTER	16	X044SCHE	and scheduling environ
32	(20)	X'30'	0	X044SIZE	"*-XPL" Size of XPL for Exit 44
		Exit 45 XPL values Pre-SJF service request			
		.... ..1.		X045VERN	"X'02'" Exit 45 XPL version number
32	(20)	X'2D'	0	X045XID	"45" Exit 45 id
		Indicator byte equates			
32	(20)	X'7'	0	X045IND	"XPLIND" Indicator byte
		Condition byte equates			
32	(20)	X'8'	0	X045COND	"XPLCOND" Condition byte These bit definitions reflect the error flags of $SFSWORK and should maintain the same order as defined.
32	(20)	X'80'	0	X045PCED	"XPLCOB0" Service PCE disabled
32	(20)	X'40'	0	X045JESD	"XPLCOB1" JES2 Main Task is down

Table 590. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
32	(20)	X'20'	0	X045NOXT	"XPLCOB2" No extension exists
32	(20)	X'10'	0	X045EXTE	"XPLCOB3" Extension Error
32	(20)	X'8'	0	X045NOAU	"XPLCOB4" Token Extract error
32	(20)	X'4'	0	X045INVF	"XPLCOB5" Function not supported
32	(20)	X'2'	0	X045INVI	"XPLCOB6" Incorrect input to function
	Response byte equates				
32	(20)	X'9'	0	X045RESP	"XPLRESP" Response byte
32	(20)	X'80'	0	X045CANC	"XPLREB0" Send/Cancel indicator
32	(20)	X'40'	0	X045SETR	"XPLREB1" Exit specified reason/RC
32	(20)	X'10'	0	X045PLUS	"XPLPLUS" Exit 45 parameter list
	Note that the IAZSSSF storage is in the SSI caller's key. To access the storage, key instructions (e.g. MVCK, MVCDK, etc.) should be used with the SSI caller's key provided in X045CKEY when accessing data in the IAZSSSF. Many IAZSSSF fields have been copied to X045xxxxx fields located here, which don't require keyed instructions.				
16	(10)	ADDRESS	4	X045SSFA	Address of SSOB ext IAZSSSF
20	(14)	ADDRESS	4	X045SFRB	Address of SFRB
24	(18)	SIGNED	2	X045RSVD	Reserved
26	(1A)	SIGNED	2	X045REAS	Exit specified reason code
28	(1C)	SIGNED	4	X045RC	Exit specified return code
32	(20)	BITSTRING	1	X045CKEY	SSI caller's key
	X045FLG1 flag bit definitions must correspond to the ones in SSSFFLG1 (IAZSSSF) and in SFRFFLG ($SFRB).				
33	(21)	BITSTRING	1	X045FLG1	SSSFFLG1
		1...		X045DEST	"B'10000000'" DEST authorization check
		.1..		X045SECL	"B'01000000'" Seclabel dominance check
		..1.		X045JSSP	"B'00100000'" JESPOOL check (default)
34	(22)	BITSTRING	2		Reserved
36	(24)	CHARACTER	8	X045JBNM	JOBNAME
44	(2C)	CHARACTER	8	X045JBID	JOBID
52	(34)	CHARACTER	8	X045GRPN	Output group name
60	(3C)	SIGNED	2	X045GRP1	Output group - first ID
62	(3E)	SIGNED	2	X045GRP2	Output group - second ID
64	(40)	CHARACTER	8	X045CART	CART for WTO responses
72	(48)	SIGNED	4	X045CNID	Console ID for WTO response
76	(4C)	ADDRESS	4	X045MDAD	Addr of output descriptor modify list in SWBTU format
80	(50)	ADDRESS	4	X045ERAD	Addr of output descriptor erase list in TU format
84	(54)	SIGNED	2	X045MDLN	Len of Modify list (SWBTU)
86	(56)	SIGNED	2	X045ERLN	Len of Erase list (TU)
86	(56)	X'58'	0	X045SIZE	"*-XPL" Length of Exit 45 xpl

Table 590. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Exit 46 XPL values NJE BSC or SNA header transmit			
		.... ..1.		X046VERN	"X'02'" Exit 46 XPL version number
86	(56)	X'2E'	0	X046XID	"46" Exit 46 id
		Indicator byte equates			
86	(56)	X'7'	0	X046IND	"XPLIND" Indicator byte
		1...		X046HDR	"B'10000000'" Job Header call
		.1..		X046TRL	"B'01000000'" Job Trailer call
		..1.		X046DSH	"B'00100000'" Data Set Header call
		...1		X046RCCS	"B'00010000'" RCCS Data Set Header call
		Condition byte equates			
86	(56)	X'8'	0	X046COND	"XPLCOND" Condition byte
86	(56)	X'80'	0	X046R1ST	"XPLCOB0" This RCCS header precedes the first data record
		Response byte equates			
86	(56)	X'9'	0	X046RESP	"XPLRESP" Response byte
86	(56)	X'80'	0	X046TERM	"XPLREB0" Terminate this transmission
86	(56)	X'40'	0	X046BYP	"XPLREB1" Bypass sending Hdr/Trlr
		..11 1111		X046INV	"B'00111111'" Invalid response bit map
86	(56)	X'10'	0	X046PLUS	"XPLPLUS" Exit 46 parameter list
16	(10)	ADDRESS	4	X046HADR	Address of Header/Trailer
20	(14)	ADDRESS	4	X046DCT	Address of DCT
24	(18)	ADDRESS	4	X046JQE	Address of JQE
28	(1C)	ADDRESS	4	X046JCT	Address of JCT
32	(20)	ADDRESS	4	X046PDDB	Address of PDDB (SYSOUT)
36	(24)	ADDRESS	4	X046JOA	Address of JOA (SYSOUT)
40	(28)	ADDRESS	4	X046AREA	Address of NJEWORK area
40	(28)	X'2C'	0	X046SIZE	"*-XPL" Length of Exit 46 XPL
40	(28)	X'24'	0	X046JOE	"X046JOA" Equate for work JOE.
		Exit 47 XPL values NJE BSC or SNA header receive			
		.... ..1.		X047VERN	"X'02'" Exit 47 XPL version number
40	(28)	X'2F'	0	X047XID	"47" Exit 47 id
		Indicator byte equates			
40	(28)	X'7'	0	X047IND	"XPLIND" Indicator byte
		1...		X047HDR	"B'10000000'" Job Header call
		.1..		X047TRL	"B'01000000'" Job Trailer call
		..1.		X047DSH	"B'00100000'" Data Set Header call
		...1		X047RCCS	"B'00010000'" RCCS Data Set Header call

Table 590. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		X047BJQE	"B'00001000'" JQE address in X047JQE is not a real JQE; don't use as input to $DOGJQE
		Condition byte equates			
40	(28)	X'8'	0	X047COND	"XPLCOND" Condition byte
		Response byte equates			
40	(28)	X'9'	0	X047RESP	"XPLRESP" Response byte
40	(28)	X'80'	0	X047TERM	"XPLREB0" Terminate this reception
		.111 1111		X047INV	"B'01111111'" Invalid response bit map
40	(28)	X'10'	0	X047PLUS	"XPLPLUS" Exit 47 parameter list
16	(10)	ADDRESS	4	X047HADR	Address of Header/Trailer
20	(14)	ADDRESS	4	X047JCT	Address of JCT
24	(18)	ADDRESS	4	X047JQE	Address of JQE; see description of related bit X047BJQE in flag X047IND
28	(1C)	ADDRESS	4	X047DCT	Address of DCT
32	(20)	ADDRESS	4	X047PDDB	Address of PDDB slot
36	(24)	ADDRESS	4	X047AREA	Address of NJEWORK area
36	(24)	X'28'	0	X047SIZE	"*-XPL" Length of Exit 47 XPL
		Exit 48 (No XPL for exit) SSI SYSOUT data set unallocation (unauthorized) Exit 49 XPL values Job queue work select - QGOT			
		1		X049VERN	"X'01'" Exit 49 XPL version number
36	(24)	X'31'	0	X049XID	"49" Exit 49 id
		Indicator byte equates			
36	(24)	X'7'	0	X049IND	"XPLIND" Indicator byte
36	(24)	X'0'	0	X049NORM	"0" Normal job selection
36	(24)	X'4'	0	X049SJOB	"4" $S job command issued
36	(24)	X'8'	0	X049SJSE	"8" $S job selection
		Condition byte equates			
36	(24)	X'8'	0	X049COND	"XPLCOND" Condition byte
		Response byte equates			
36	(24)	X'9'	0	X049RESP	"XPLRESP" Response byte
36	(24)	X'80'	0	X049SKIP	"XPLREB0" Skip this JQE
36	(24)	X'40'	0	X049NOPT	"XPLREB1" Disallow initiator job selection optimization
36	(24)	X'20'	0	X049NDUP	"XPLREB2" Bypass duplicate job name check for this job
36	(24)	X'1F'	0	X049INV	"FF-X049SKIP-X049NOPT-X049NDUP" Invalid response bit map
36	(24)	X'10'	0	X049PLUS	"XPLPLUS" Exit 49 parameter list
16	(10)	ADDRESS	4	X049JQE	Address of JQE
20	(14)	ADDRESS	4	X049QGT	Address of $QGET parmlist (zero if $S job)
20	(14)	X'18'	0	X049SIZE	"*-XPL" Length of Exit 49 XPL

Table 590. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Exit 50 XPL values End of input (User env) The mappings of exits 20 and 50 are identical.			
20	(14)	X'32'	0	X050XID	"50" Exit 50 ID
		.... ..1.		X050VERN	"X'02'" Exit 50 XPL version number
		Indicator byte equates			
20	(14)	X'7'	0	X050IND	"XPLIND" Indicator byte equate
		Condition byte equates			
20	(14)	X'8'	0	X050COND	"XPLCOND" Condition byte
20	(14)	X'80'	0	X050GJOB	"XPLCOB0" Condition bit that specifies a normal job
20	(14)	X'40'	0	X050JECL	"XPLCOB1" Condition bit specifies JECL error
20	(14)	X'20'	0	X050BSAF	"XPLCOB2" Condition bit specifies SAF failure
20	(14)	X'10'	0	X050WSEL	"XPLCOB3" Condition bit specifies work selection mismatch
		Response byte equates			
20	(14)	X'9'	0	X050RESP	"XPLRESP" Response byte equate
20	(14)	X'80'	0	X050NORM	"XPLREB0" Response bit to do normal process
20	(14)	X'40'	0	X050OUTP	"XPLREB1" Response bit to terminate job with output
20	(14)	X'20'	0	X050PURG	"XPLREB2" Response bit to terminate by purge
20	(14)	X'10'	0	X050AVF	"XPLREB3" Response bit to indicate exit's job verify failed
20	(14)	X'10'	0	X050PLUS	"XPLPLUS" Exit 50 parameter list
16	(10)	ADDRESS	4	X050JCT	Address of the JCT
20	(14)	ADDRESS	4	X050JQE	Address of the JQA
24	(18)	ADDRESS	4	X050DCT	Always zero
28	(1C)	ADDRESS	4	X050AREA	Address of JRW
32	(20)	SIGNED	1	X050PRIO	Job priority
33	(21)	BITSTRING	1	X050FLG1	Flags
		1...		X0501ARM	"B'10000000'" SYSAFF set by MVS ARM
		.1..		X0501IND	"B'01000000'" Independent system aff
34	(22)	SIGNED	2	X050XNOD	Execution node
36	(24)	BITSTRING	4	X050SAF	Full system affinity mask
40	(28)	CHARACTER	16	X050SENV	SCHENV value
56	(38)	CHARACTER	8	X050JCLS	Job class
64	(40)	BITSTRING	1	X050NEXT	Next job phase
65	(41)	BITSTRING	3		Reserved
68	(44)	CHARACTER	32	X050UCOR	User portion job correlator
100	(64)	ADDRESS	4	(0)	Align to word boundary
100	(64)	X'64'	0	X050SIZE	"*-XPL" Size of XPL for Exit 50

Table 590. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
100	(64)	ADDRESS	2	(0)	Ensure XPL for exits 20
100	(64)	ADDRESS	2	(0)	and 50 are same size
		Exit 51 XPL values Job phase change exit ($QMOD)			
100	(64)	X'33'	0	X051XID	"51" Exit 51 ID
		1		X051VERN	"X'01'" Exit 51 XPL version number
		Indicator byte equates			
100	(64)	X'7'	0	X051IND	"XPLIND" Indicator byte
		Condition byte equates			
100	(64)	X'8'	0	X051COND	"XPLCOND" Condition byte
100	(64)	X'80'	0	X051RBLD	"XPLCOB0" I.Job is on the re-build que and will be purged when no longer busy
100	(64)	X'40'	0	X051NOCH	"XPLCOB1" I.Phase change is not allowed (X051RXEQ and X051RQUE ignored)
		Response byte equates			
100	(64)	X'9'	0	X051RESP	"XPLRESP" Response byte
100	(64)	X'80'	0	X051RXEQ	"XPLREB0" IO.Job is being/should be requeued for execution (only valid if X051OLDQ is X051QXEQ)
		To change the next phase of the job, set X051RQUE on and set the next phase in X051NEWQ. You cannot change phase if X051NOCH is on. The new phase must be a later phase than the current phase (X051OLDQ).			
100	(64)	X'40'	0	X051RQUE	"XPLREB1" O.X051NEWQ has been updated with new phase (X051NEWT no longer matches X051NEWQ)
100	(64)	X'10'	0	X051PLUS	"XPLPLUS" Area 51 parameter list
16	(10)	ADDRESS	4	X051JQA	I.Address of JQA
		Note, the JCT, if passed, will not be written after this call. If updated, the exit must write the JCT and wait for the I/O to complete.			
20	(14)	ADDRESS	4	X051JCT	I.Address of JCT (or zero)
24	(18)	BITSTRING	1	X051OLDQ	I.Current queue job is in
25	(19)	BITSTRING	1	X051OLDT	I.Current JQE type
26	(1A)	BITSTRING	1	X051NEWQ	IO.New que job is moving to
27	(1B)	BITSTRING	1	X051NEWT	I.Proposed new JQE type
		X051JOBC, X051SENV, X051SAF, X0511IND are only meaningfull if NEWQ is X051QCNV, X051QSET, X051QXEQ			
28	(1C)	CHARACTER	8	X051JOBC	IO.JOB class of the job
36	(24)	CHARACTER	16	X051SENV	IO.SCHENV value
52	(34)	BITSTRING	4	X051SAF	IO.Full sysaff mask
56	(38)	BITSTRING	1	X051FLG1	Flags
		.1..		X0511IND	"B'01000000'" IO.Independent system aff
57	(39)	BITSTRING	3		UFO.Reserved

Table 590. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Queue values for X051OLDQ and X051NEWQ (not same as JQETYPE field in JQE).			
57	(39)	X'1'	0	X051QINP	"1" Input queue
57	(39)	X'2'	0	X051QCNV	"2" Conversion queue
57	(39)	X'3'	0	X051QSET	"3" Setup queue
57	(39)	X'4'	0	X051QXEQ	"4" Execution queue
57	(39)	X'5'	0	X051QSPN	"5" Spin queue
57	(39)	X'6'	0	X051QXMT	"6" XMIT queue
57	(39)	X'7'	0	X051QRCV	"7" Receive queue
57	(39)	X'8'	0	X051QOUT	"8" Output queue
57	(39)	X'9'	0	X051QHRD	"9" Hardcopy queue
57	(39)	X'A'	0	X051QPUR	"10" Purge queue
57	(39)	X'A'	0	X051QNUM	"10" Total number of queues
57	(39)	X'3C'	0	X051SIZE	"*-XPL" Size of XPL for Exit 51
		Exit 52 XPL values JOB JCL statement scan (User env) The mapping of fields at the start of exits 2, 4, 52 and 54 are the same. Indicator values may vary based on the exit. The mappings of exits 2 and 52 are identical.			
57	(39)	X'34'	0	X052XID	"52" Exit 52 ID
		11		X052VERN	"X'03'" Exit 52 XPL version number
		Indicator byte equates			
57	(39)	X'7'	0	X052IND	"XPLIND" Indicator byte
57	(39)	X'8'	0	X052JOBC	"X002JOBC" I.JOB card detected
57	(39)	X'9'	0	X052JOBG	"X002JOBG" I.JOBGROUP card detected
		Condition byte equates			
57	(39)	X'8'	0	X052COND	"XPLCOND" Condition byte
57	(39)	X'80'	0	X052CONT	"X002CONT" I.Card is a continuation
57	(39)	X'10'	0	X052SEC	"X002SEC" I.Not first time exit has been passed card
		Response byte equates			
57	(39)	X'9'	0	X052RESP	"XPLRESP" Response byte
57	(39)	X'80'	0	X052XSNC	"X002XSNC" O.Exit supplied next card
57	(39)	X'40'	0	X052XSEM	"X002XSEM" O.Exit supplied error msg
57	(39)	X'20'	0	X052JCMT	"X002JCMT" O.Skip processing card
57	(39)	X'10'	0	X052KILL	"X002KILL" O.Kill current job
57	(39)	X'8'	0	X052PURG	"X002PURG" O.Purge current job
57	(39)	X'4'	0	X052RLOC	"X002RLOC" O.Changed/added cards are not to be sent via NJE (set RJCB3LOC in current RJCB)
57	(39)	X'10'	0	X052PLUS	"XPLPLUS" Exit 52 parameter list
16	(10)	ADDRESS	4	X052CARD	I.Address card image

Table 590. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
20	(14)	ADDRESS	4	X052FLGX	I.For compatibility, ptr to FLAGX. Exits should use X052IND, X052COND and X052RESP instead.
24	(18)	ADDRESS	4	X052JXWR	I.Pointer to JCTXWRK
28	(1C)	ADDRESS	4	X052JCT	I.Address of JCT
32	(20)	ADDRESS	4	X052JQE	I.Address of JQE
36	(24)	ADDRESS	4	X052AREA	I.Address of JRW
40	(28)	ADDRESS	4	X052STMT	I.Pointer to stmt buffer
44	(2C)	ADDRESS	4	X052STME	IO.Addr 1 byte past end of statement buffer
48	(30)	CHARACTER	8	X052STML	I.Label on statement (JCL)
56	(38)	CHARACTER	8	X052STMV	I.Statement verb
64	(40)	ADDRESS	4	X052RJCP	O.Chain of RJCBs to queue before current statement
68	(44)	ADDRESS	4	X052RJCA	O.Chain of RJCBs to queue after current statement
72	(48)	ADDRESS	4	X052RJCC	O.Chain of RJCBs to queue after current card
76	(4C)	BITSTRING	1	X052FLG1	Statement flag byte
	Following bits should be the same as RJCB bits				
76	(4C)	X'8'	0	X052LOPR	"X002LOPR" I.Last operand is on card
76	(4C)	X'4'	0	X052QUOT	"X002QUOT" I.Unfinished quote at end of card
76	(4C)	X'2'	0	X052CCMT	"X002CCMT" I.Card is a cont comment
76	(4C)	X'1'	0	X052LAST	"X002LAST" I.Last card in statement
	Field common to exits 2 and 52				
77	(4D)	BITSTRING	1	X052ECLT	IO.Job JECL processing:
		1...		X052J2CL	"B'10000000'" Process JES2 JECL
		.1..		X052J3CL	"B'01000000'" Process JES3 JECL
78	(4E)	BITSTRING	2		Reserved
	End of fields common to exits 2, 4, 52, and 54				
80	(50)	CHARACTER	8	X052OCLS	O.Override job class
88	(58)	CHARACTER	8	X052OJNM	O.Override job name
	Field common to exits 2 and 52				
96	(60)	CHARACTER	32	X052UCOR	IO.User portion of the job correlator
	Field common to exits 2, 4, 52, and 54				
128	(80)	CHARACTER	12	X052ST12	I.Statement verb- length 12
128	(80)	X'8C'	0	X052SIZE	"*-XPL" Size of XPL for Exit 52
	Exit 53 XPL values JOB statement accounting field scan (User env) The mappings of exits 3 and 53 are identical.				
128	(80)	X'35'	0	X053XID	"53" Exit 53 ID
		.... ..1.		X053VERN	"X'02'" Exit 53 XPL version number

Table 590. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Indicator byte equates			
128	(80)	X'7'	0	X053IND	"XPLIND" Indicator byte
		Condition byte equates			
128	(80)	X'8'	0	X053COND	"XPLCOND" Condition byte
		Response byte equates			
128	(80)	X'9'	0	X053RESP	"XPLRESP" Response byte
128	(80)	X'80'	0	X053XSEM	"X003XSEM" O.Exit supplied error msg
128	(80)	X'40'	0	X053SKIP	"X003SKIP" O.Skip default accounting field scan
128	(80)	X'20'	0	X053KILL	"X003KILL" O.Kill current job
128	(80)	X'10'	0	X053PLUS	"XPLPLUS" Exit 53 parameter list
16	(10)	ADDRESS	4	X053ACCT	I.Addr of accounting field
20	(14)	ADDRESS	4	X053FLGX	I.For compatibility, ptr to FLAGX. Exits should use X053IND, X053COND and X053RESP instead.
24	(18)	ADDRESS	4	X053JXWR	I.Pointer to JCTXWRK
28	(1C)	SIGNED	4	X053ACTL	I.Leng of accounting field
32	(20)	ADDRESS	4	X053JCT	I.Address of JCT
36	(24)	ADDRESS	4	X053JQE	I.Address of JQE
40	(28)	ADDRESS	4	X053AREA	I.Address of JRW
44	(2C)	CHARACTER	8	X053JCLS	IO.Current/updated JOBCLASS
52	(34)	BITSTRING	1	X053ECLT	IO.Job JECL processing:
		1...		X053J2CL	"B'10000000'" Process JES2 JECL
		.1..		X053J3CL	"B'01000000'" Process JES3 JECL
53	(35)	BITSTRING	3		Reserved
53	(35)	X'38'	0	X053SIZE	"*-XPL" Size of XPL for Exit 53
56	(38)	ADDRESS	2	(0)	Ensure XPL for exits 3
56	(38)	ADDRESS	2	(0)	and 53 are same size
		Exit 54 XPL values JCL and JES2 control statement scan (User env) The mapping of fields at the start of exits 2, 4, 52 and 54 are the same. Indicator values may vary based on the exit. The mappings of exits 4 and 54 are identical.			
56	(38)	X'36'	0	X054XID	"54" Exit 54 ID
		1		X054VERN	"X'01'" Exit 54 XPL version number
		Indicator byte equates			
56	(38)	X'7'	0	X054IND	"XPLIND" Indicator byte
56	(38)	X'0'	0	X054JCL	"X004JCL" I.JCL card detected
56	(38)	X'4'	0	X054JECL	"X004JECL" I.JECL card detected
		Condition byte equates			
56	(38)	X'8'	0	X054COND	"XPLCOND" Condition byte
56	(38)	X'80'	0	X054CONT	"X004CONT" I.Card is a continuation
56	(38)	X'40'	0	X054JOBP	"X004JOBP" I. JOBPARM card detected
56	(38)	X'20'	0	X054CMND	"X004CMND" I. $ command card det

Table 590. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
56	(38)	X'10'	0	X054SEC	"X004SEC" I.Not first time exit has been passed card
56	(38)	X'1'	0	X054PREJ	"X004PREJ" I.Card encountered outside a job structure
	Response byte equates				
56	(38)	X'9'	0	X054RESP	"XPLRESP" Response byte
56	(38)	X'80'	0	X054XSNC	"X004XSNC" O.Exit supplied next card
56	(38)	X'40'	0	X054XSEM	"X004XSEM" O.Exit supplied error msg
56	(38)	X'20'	0	X054JCMT	"X004JCMT" O.Skip processing card
56	(38)	X'10'	0	X054KILL	"X004KILL" O.Kill current job
56	(38)	X'8'	0	X054PURG	"X004PURG" O.Purge current job
56	(38)	X'4'	0	X054RLOC	"X004RLOC" O.Changed/added cards are not to be sent via NJE (set RJCB3LOC in current RJCB)
56	(38)	X'10'	0	X054PLUS	"XPLPLUS" Exit 54 parameter list
16	(10)	ADDRESS	4	X054CARD	I.Address card image
20	(14)	ADDRESS	4	X054FLGX	I.For compatibility, ptr to FLAGX. Exits should use X054IND, X054COND and X054RESP instead.
24	(18)	ADDRESS	4	X054JXWR	I.Pointer to JCTXWRK
28	(1C)	ADDRESS	4	X054JCT	I.Address of JCT or zero
32	(20)	ADDRESS	4	X054JQE	I.Address of JQE or zero
36	(24)	ADDRESS	4	X054AREA	I.Address of JRW
40	(28)	ADDRESS	4	X054STMT	I.Pointer to stmt buffer
44	(2C)	ADDRESS	4	X054STME	IO.Addr 1 byte past end of statement buffer
48	(30)	CHARACTER	8	X054STML	I.Label on statement (JCL)
56	(38)	CHARACTER	8	X054STMV	I.Statement verb
64	(40)	ADDRESS	4	X054RJCP	O.Chain of RJCBs to queue before current statement
68	(44)	ADDRESS	4	X054RJCA	O.Chain of RJCBs to queue after current statement
72	(48)	ADDRESS	4	X054RJCC	O.Chain of RJCBs to queue after current card
76	(4C)	BITSTRING	1	X054FLG1	Statement flag byte
	Following bits should be the same as RJCB bits				
76	(4C)	X'8'	0	X054LOPR	"X004LOPR" I.Last operand is on card
76	(4C)	X'4'	0	X054QUOT	"X004QUOT" I.Unfinished quote at end of card
76	(4C)	X'2'	0	X054CCMT	"X004CCMT" I.Card is a cont comment
76	(4C)	X'1'	0	X054LAST	"X004LAST" I.Last card in statement
77	(4D)	BITSTRING	3		Reserved
	End of fields common to exits 2, 4, 52, and 54				
80	(50)	BITSTRING	8		Reserved
88	(58)	BITSTRING	8		Reserved

Table 590. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
96	(60)	BITSTRING	44		Reserved
96	(60)	X'8C'	0	X054SIZE	"*-XPL" Size of XPL for Exit 54
140	(8C)	ADDRESS	2	(0)	Ensure XPL for exits 52
140	(8C)	ADDRESS	2	(0)	and 54 are same size
140	(8C)	ADDRESS	2	(0)	Ensure XPL for exits 4
140	(8C)	ADDRESS	2	(0)	and 54 are same size
		Exit 55 XPL values NJE/TCP SYSOUT reception can never receive			
		1		X055VERN	"X'01'" Exit 55 XPL version number
140	(8C)	X'37'	0	X055XID	"55" Exit 55 id
		Indicator Byte Equates			
140	(8C)	X'7'	0	X055IND	"XPLIND" Indicator byte
		Condition Byte Equates			
140	(8C)	X'8'	0	X055COND	"XPLCOND" Condition byte
		Response Byte Equates			
140	(8C)	X'9'	0	X055RESP	"XPLRESP" Response byte
140	(8C)	X'80'	0	X055RECV	"XPLREB0" Allow data set receive
140	(8C)	X'10'	0	X055PLUS	"XPLPLUS" Exit 55 parm list additions
16	(10)	ADDRESS	4	X055PDDB	PDDB address
20	(14)	ADDRESS	4	X055JCT	JCT address
24	(18)	ADDRESS	4	X055NDH	Data set header address
28	(1C)	ADDRESS	4	X055AREA	SRW address
28	(1C)	X'20'	0	X055SIZE	"*-XPL" Length of Exit 55 parm list
		Exit 56 XPL values NJE/TCP header transmit			
		1		X056VERN	"X'01'" Exit 56 XPL version number
28	(1C)	X'38'	0	X056XID	"56" Exit 56 id
		Indicator byte equates			
28	(1C)	X'7'	0	X056IND	"XPLIND" Indicator byte
		1...		X056HDR	"B'10000000'" Job Header call
		.1..		X056TRL	"B'01000000'" Job Trailer call
		..1.		X056DSH	"B'00100000'" Data Set Header call
		...1		X056RCCS	"B'00010000'" RCCS Data Set Header call
		Condition byte equates			
28	(1C)	X'8'	0	X056COND	"XPLCOND" Condition byte
28	(1C)	X'80'	0	X056R1ST	"XPLCOB0" This RCCS header precedes the first data record
		Response byte equates			
28	(1C)	X'9'	0	X056RESP	"XPLRESP" Response byte
28	(1C)	X'80'	0	X056TERM	"XPLREB0" Terminate this transmission

Table 590. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
28	(1C)	X'40'	0	X056BYP	"XPLREB1" Bypass sending Hdr/Trlr
		..11 1111		X056INV	"B'00111111'" Invalid response bit map
28	(1C)	X'10'	0	X056PLUS	"XPLPLUS" Exit 56 parameter list
16	(10)	ADDRESS	4	X056HADR	Address of Header/Trailer
20	(14)	ADDRESS	4		Unused (see exit 46)
24	(18)	ADDRESS	4	X056JQE	Address of JQE
28	(1C)	ADDRESS	4	X056JCT	Address of JCT
32	(20)	ADDRESS	4	X056PDDB	Address of PDDB (SYSOUT)
36	(24)	ADDRESS	4	X056JOA	Address of JOA (SYSOUT)
40	(28)	ADDRESS	4	X056AREA	Address of work area
40	(28)	X'2C'	0	X056SIZE	"*-XPL" Length of Exit 56 XPL
40	(28)	X'24'	0	X056JOE	"X056JOA" Equate for work JOE.
Exit 57 XPL values NJE/TCP header receive					
		1		X057VERN	"X'01'" Exit 57 XPL version number
40	(28)	X'39'	0	X057XID	"57" Exit 57 id
Indicator byte equates					
40	(28)	X'7'	0	X057IND	"XPLIND" Indicator byte
		1...		X057HDR	"B'10000000'" Job Header call
		.1..		X057TRL	"B'01000000'" Job Trailer call
		..1.		X057DSH	"B'00100000'" Data Set Header call
		...1		X057RCCS	"B'00010000'" RCCS Data Set Header call
		.... 1...		X057BJQE	"B'00001000'" JQE address in X057JQE is not a real JQE; don't use as input to $DOGJQE
Condition byte equates					
40	(28)	X'8'	0	X057COND	"XPLCOND" Condition byte
Response byte equates					
40	(28)	X'9'	0	X057RESP	"XPLRESP" Response byte
40	(28)	X'80'	0	X057TERM	"XPLREB0" Terminate this reception
		.111 1111		X057INV	"B'01111111'" Invalid response bit map
40	(28)	X'10'	0	X057PLUS	"XPLPLUS" Exit 57 parameter list
16	(10)	ADDRESS	4	X057HADR	Address of Header/Trailer
20	(14)	ADDRESS	4	X057JCT	Address of JCT
24	(18)	ADDRESS	4	X057JQE	Address of JQE; see description of related bit X057BJQE in flag X057IND
28	(1C)	ADDRESS	4		Unused (see exit 47)
32	(20)	ADDRESS	4	X057PDDB	Address of PDDB slot
36	(24)	ADDRESS	4	X057AREA	Address of work area
36	(24)	X'28'	0	X057SIZE	"*-XPL" Length of Exit 57 XPL
Exit 58 XPL values End of step SSI					

Table 590. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1		X058VERN	"X'01'" Exit 58 XPL version number
36	(24)	X'3A'	0	X058XID	"58" Exit 58 id
		Indicator byte equates			
36	(24)	X'7'	0	X058IND	"XPLIND" Indicator byte
		Condition byte equates			
36	(24)	X'8'	0	X058COND	"XPLCOND" Condition byte
36	(24)	X'80'	0	X058STAB	"XPLCOB0" Step ABENDed
		Response byte equates			
36	(24)	X'9'	0	X058RESP	"XPLRESP" Response byte
36	(24)	X'80'	0	X058SRST	"XPLREB0" Restart job after this step
36	(24)	X'40'	0	X058SRSH	"XPLREB1" Hold job after restart
36	(24)	X'10'	0	X058PLUS	"XPLPLUS" Exit 58 parameter list
16	(10)	ADDRESS	4	X058SJB	Address of SJB
20	(14)	ADDRESS	4	X058JCT	Address of JCT
24	(18)	CHARACTER	8	X058PSN	Name on EXEC PGM=
32	(20)	CHARACTER	8	X058PSS	Name on EXEC PROC=
40	(28)	SIGNED	2		Reserved
42	(2A)	SIGNED	2	X058STPC	Step completion code
44	(2C)	SIGNED	4	X058STPA	Step ABEND code
44	(2C)	X'30'	0	X058SIZE	"*-XPL" Length of Exit 58 XPL
		Exit 59 XPL values Post Interpreter exit Note that this maps the same as the exit 6 and 60 XPL.			
		1		X059VERN	"X'01'" Exit 59 XPL version number
44	(2C)	X'3B'	0	X059XID	"59" Exit 59 id
		Indicator byte equates			
44	(2C)	X'7'	0	X059IND	"XPLIND" Indicator byte
		Condition byte equates			
44	(2C)	X'8'	0	X059COND	"XPLCOND" Condition byte
44	(2C)	X'80'	0	X059FAIL	"XPLCOB0" Interpreter failed flag
44	(2C)	X'40'	0	X059TSU	"XPLCOB1" TSO user
44	(2C)	X'20'	0	X059STC	"XPLCOB2" Started task
44	(2C)	X'10'	0	X059JOB	"XPLCOB3" Batch job
		Response byte equates			
44	(2C)	X'9'	0	X059RESP	"XPLRESP" Response byte
44	(2C)	X'80'	0	X059HOLD	"XPLREB0" Job should be held
44	(2C)	X'10'	0	X059PLUS	"XPLPLUS" Exit 59 parameter list
16	(10)	ADDRESS	4	X059WORK	16 byte work area address
20	(14)	ADDRESS	4	X059IRET	Address of interpreter RC
24	(18)	ADDRESS	4	X059CNVW	JES2 DTE work area address
28	(1C)	ADDRESS	4	X059JCT	JCT address
32	(20)	SIGNED	4		Reserved (mapped to exit 6)

Table 590. Structure XPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
36	(24)	ADDRESS	4	X059CIW	CIWORK data area address
40	(28)	CHARACTER	8	X059JCLS	Current/updated job class
48	(30)	CHARACTER	16	X059SCHE	and scheduling environ
48	(30)	X'40'	0	X059SIZE	"*-XPL" Length of Exit 59 XPL
		Exit 60 XPL values JES2 converter exit (user environment) See exit 6 for SUBTASK environment converter exit Note that this maps the same as the exit 6 and 59 XPL			
		1		X060VERN	"X'01'" Exit 60 XPL version number
48	(30)	X'3C'	0	X060XID	"60" Exit 60 id
		Indicator byte equates			
48	(30)	X'7'	0	X060IND	"XPLIND" Indicator byte
48	(30)	X'0'	0	X060TEXT	"0" Internal text exit
48	(30)	X'4'	0	X060CEND	"4" End of conversion
		Condition byte equates			
48	(30)	X'8'	0	X060COND	"XPLCOND" Condition byte
48	(30)	X'40'	0	X060TSU	"XPLCOB1" TSO user
48	(30)	X'20'	0	X060STC	"XPLCOB2" Started task
48	(30)	X'10'	0	X060JOB	"XPLCOB3" Batch job
		Response byte equates			
48	(30)	X'9'	0	X060RESP	"XPLRESP" Response byte
48	(30)	X'80'	0	X060HOLD	"XPLREB0" Job should be held
48	(30)	X'10'	0	X060PLUS	"XPLPLUS" Exit 60 parameter list
16	(10)	ADDRESS	4	X060WORK	16 byte work area address
20	(14)	ADDRESS	4	X060ITXT(0)	Internal text image address (X060IND = X060TEXT)
20	(14)	ADDRESS	4	X060CRET	Address of Converter RC (X060IND = X060CEND)
24	(18)	ADDRESS	4	X060CNVW	JES2 DTE work area address
28	(1C)	ADDRESS	4	X060JCT	JCT address
32	(20)	ADDRESS	4	X060CNMB	Address of message buffer
36	(24)	ADDRESS	4	X060CIW	CIWORK data area address
40	(28)	CHARACTER	8	X060JCLS	Current/updated job class
48	(30)	CHARACTER	16	X060SCHE	and scheduling environ
48	(30)	X'40'	0	X060SIZE	"*-XPL" Length of Exit 60 XPL

Table 591. Cross Reference for $XPL

Name	Offset	Hex Tag
XPL	0	
XPLBLEN	C	10
XPLCOB0	8	80
XPLCOB1	8	40
XPLCOB2	8	20
XPLCOB3	8	10
XPLCOB4	8	8
XPLCOB5	8	4

Table 591. Cross Reference for $XPL (continued)

Name	Offset	Hex Tag
XPLCOB6	8	2
XPLCOB7	8	1
XPLCOND	8	
XPLEXLEV	6	
XPLID	0	5BE7D7D3
XPLIND	7	
XPLLEVEL	4	
XPLPLUS	10	
XPLREB0	9	80
XPLREB1	9	40
XPLREB2	9	20
XPLREB3	9	10
XPLREB4	9	8
XPLREB5	9	4
XPLREB6	9	2
XPLREB7	9	1
XPLRESP	9	
XPLSIZE	A	
XPLVERN	4	1
XPLXITID	5	
X001COND	10	8
X001DCT	10	
X001DFSP	10	80
X001DSCT	18	
X001HBUF	34	
X001IND	10	7
X001JCNT	10	20
X001JCT	14	
X001JHDR	10	80
X001JNWS	10	40
X001JOA	20	
X001JQE	1C	
X001JTLR	10	40
X001NSWB	30	
X001PDDB	28	
X001PLUS	10	10
X001RESP	10	9
X001RSVD	32	
X001SIZE	34	38
X001SWBT	2C	
X001VERN	10	1
X001WJOE	34	20
X001XID	10	1
X002AREA	24	
X002CARD	10	
X002CCMT	4C	2
X002COND	34	8
X002CONT	34	80
X002ECLT	4D	

Table 591. Cross Reference for $XPL (continued)

Name	Offset	Hex Tag
X002FLGX	14	
X002FLG1	4C	
X002IND	34	7
X002JCMT	34	20
X002JCT	1C	
X002JOBC	34	8
X002JOBG	34	9
X002JQE	20	
X002JXWR	18	
X002J2CL	4D	80
X002J3CL	4D	40
X002KILL	34	10
X002LAST	4C	1
X002LOPR	4C	8
X002OCLS	50	
X002OJNM	58	
X002PLUS	34	10
X002PURG	34	8
X002QUOT	4C	4
X002RESP	34	9
X002RJCA	44	
X002RJCC	48	
X002RJCP	40	
X002RLOC	34	4
X002SEC	34	10
X002SIZE	80	8C
X002STME	2C	
X002STML	30	
X002STMT	28	
X002STMV	38	
X002ST12	80	
X002UCOR	60	
X002VERN	34	3
X002XID	34	2
X002XSEM	34	40
X002XSNC	34	80
X003ACCT	10	
X003ACTL	1C	
X003AREA	28	
X003COND	80	8
X003ECLT	34	
X003FLGX	14	
X003IND	80	7
X003JCLS	2C	
X003JCT	20	
X003JQE	24	
X003JXWR	18	
X003J2CL	34	80
X003J3CL	34	40

Table 591. Cross Reference for $XPL (continued)

Name	Offset	Hex Tag
X003KILL	80	20
X003PLUS	80	10
X003RESP	80	9
X003SIZE	35	38
X003SKIP	80	40
X003VERN	80	2
X003XID	80	3
X003XSEM	80	80
X004AREA	24	
X004CARD	10	
X004CCMT	4C	2
X004CMND	35	20
X004COND	35	8
X004CONT	35	80
X004FLGX	14	
X004FLG1	4C	
X004IND	35	7
X004JCL	35	0
X004JCMT	35	20
X004JCT	1C	
X004JECL	35	4
X004JOBP	35	40
X004JQE	20	
X004JXWR	18	
X004KILL	35	10
X004LAST	4C	1
X004LOPR	4C	8
X004PLUS	35	10
X004PREJ	35	1
X004PURG	35	8
X004QUOT	4C	4
X004RESP	35	9
X004RJCA	44	
X004RJCC	48	
X004RJCP	40	
X004RLOC	35	4
X004SEC	35	10
X004SIZE	5C	8C
X004STME	2C	
X004STML	30	
X004STMT	28	
X004STMV	38	
X004ST12	50	
X004VERN	35	1
X004XID	35	4
X004XSEM	35	40
X004XSNC	35	80
X006CEND	8C	4
X006CIW	24	

Table 591. Cross Reference for $XPL (continued)

Name	Offset	Hex Tag
X006CNMB	20	
X006CNVW	18	
X006COND	8C	8
X006CRET	14	
X006HOLD	8C	80
X006IND	8C	7
X006ITXT	14	
X006JCLS	28	
X006JCT	1C	
X006JOB	8C	10
X006PLUS	8C	10
X006RESP	8C	9
X006SCHE	30	
X006SIZE	30	40
X006STC	8C	20
X006TEXT	8C	0
X006TSU	8C	40
X006VERN	8C	1
X006WORK	10	
X006XID	8C	6
X007CBID	10	
X007CBIN	30	10
X007CBUN	30	20
X007CBWR	30	40
X007COND	30	8
X007IND	30	7
X007IOER	30	80
X007PLUS	30	10
X007RESP	30	9
X007SIZE	10	14
X007VERN	30	1
X007XID	30	7
X008CBID	10	
X008CBIN	10	10
X008CBUN	10	20
X008CBWR	10	40
X008COND	10	8
X008FSSM	10	8
X008IND	10	7
X008IOER	10	80
X008PLUS	10	10
X008RESP	10	9
X008SIZE	10	14
X008VERN	10	1
X008XID	10	8
X009BEXC	10	10
X009BINC	28	
X009BVAL	1C	
X009CEXC	10	80

Table 591. Cross Reference for $XPL (continued)

Name	Offset	Hex Tag
X009CNCL	10	4
X009COND	10	8
X009CONX	10	F0
X009DBYT	40	
X009DLIN	30	
X009DPAG	38	
X009DUMP	10	2
X009IND	10	7
X009INDX	10	F
X009JCT	10	
X009LEXC	10	40
X009LVAL	14	
X009OLIR	10	40
X009PEXC	10	20
X009PINC	24	
X009PLUS	10	10
X009PVAL	18	
X009RESO	10	3
X009RESP	10	9
X009RESX	10	E0
X009RINC	20	
X009SDEM	10	20
X009SIZE	48	48
X009USER	10	8
X009USRB	10	10
X009VERN	10	2
X009WARN	10	1
X009XID	10	9
X009XOVR	10	80
X009722D	10	2
X009722N	10	1
X015BYPS	48	80
X015CCWT	38	
X015CGCT	48	
X015COND	48	8
X015CPGP	44	
X015CPRT	40	
X015DCT	10	
X015DSCT	18	
X015DSEL	48	80
X015DSEP	48	40
X015IND	48	7
X015JCT	14	
X015JOA	20	
X015JQE	1C	
X015NCOP	3C	
X015NSWB	30	
X015PDDB	28	
X015PLUS	48	10

Table 591. Cross Reference for $XPL (continued)

Name	Offset	Hex Tag
X015PRTR	34	
X015RESP	48	9
X015RFSW	48	80
X015RSVD	32	
X015SEPP	48	40
X015SIZE	48	4C
X015SWBT	2C	
X015VERN	48	1
X015WJOE	48	20
X015XID	48	F
X020AREA	1C	
X020AVF	48	10
X020BSAF	48	20
X020COND	48	8
X020DCT	18	
X020FLG1	21	
X020GJOB	48	80
X020IND	48	7
X020JCLS	38	
X020JCT	10	
X020JECL	48	40
X020JQE	14	
X020LOGJ	21	20
X020NEXT	40	
X020NORM	48	80
X020OUTP	48	40
X020PLUS	48	10
X020PRIO	20	
X020PURG	48	20
X020RESP	48	9
X020SAF	24	
X020SENV	28	
X020SIZE	64	64
X020UCOR	44	
X020VERN	48	3
X020WSEL	48	10
X020XID	48	14
X020XNOD	22	
X0201ARM	21	80
X0201IND	21	40
X022COND	64	8
X022FRST	64	0
X022IND	64	7
X022IOER	64	80
X022MURE	64	4
X022MUST	64	8
X022PLUS	64	10
X022RESP	64	9
X022SIZE	14	18

Table 591. Cross Reference for $XPL (continued)

Name	Offset	Hex Tag
X022STAA	14	
X022STAC	10	
X022VERN	64	1
X022XID	64	16
X024ALLS	14	10
X024COFM	14	1
X024COLD	14	4
X024COND	14	8
X024ESYS	14	8
X024HOT	14	40
X024IND	14	7
X024IPL	14	2
X024PLUS	14	10
X024QCK	14	20
X024RESP	14	9
X024RSSI	14	80
X024SIZE	16	18
X024SSIA	10	
X024SSIL	16	
X024SSWL	14	
X024VERN	14	1
X024WARM	14	80
X024XID	14	18
X031COND	16	8
X031DSTY	10	
X031ERR	16	1
X031FAIL	16	1
X031IND	16	7
X031INTR	10	0
X031IOT	24	
X031JFCB	1C	
X031JSNW	10	4
X031PDDB	20	
X031PLUS	16	10
X031PSPI	10	10
X031RESP	16	9
X031SDB	14	
X031SDSB	10	14
X031SIZE	24	28
X031SJB	18	
X031SYIN	10	8
X031SYSO	10	C
X031UNK	10	18
X031VERN	16	1
X031XID	16	1F
X032CIOE	11	1
X032COND	11	
X032ICON	10	1C
X032IND	10	

Table 591. Cross Reference for $XPL (continued)

Name	Offset	Hex Tag
X032IRCL	10	8
X032IRJI	10	4
X032ISTC	10	10
X032ITSU	10	C
X032IWLD	10	18
X032IWLM	10	14
X032JCT	18	
X032PLUS	7	10
X032RBEG	12	20
X032RESP	12	
X032RHLD	12	40
X032RNMG	12	1
X032RTID	12	4
X032RTIN	12	8
X032RTJB	12	2
X032RVIC	12	10
X032SIZE	18	1C
X032SJB	14	
X032VERN	24	2
X032XID	24	20
X036BYPS	18	1
X036COND	18	8
X036IND	18	7
X036JES2	18	80
X036NORC	18	2
X036PARM	10	
X036PLUS	18	10
X036RCBA	1C	
X036RCBN	18	
X036RESP	18	9
X036RETC	20	
X036RSNC	24	
X036SIZE	24	28
X036USER	18	40
X036VERN	18	1
X036WAVE	14	
X036XID	18	24
X037COND	24	8
X037IND	24	7
X037JES2	24	80
X037NORC	24	2
X037PARM	10	
X037PLUS	24	10
X037RCBA	1C	
X037RCBN	18	
X037RESP	24	9
X037RETC	20	
X037RSNC	24	
X037SIZE	24	28

Table 591. Cross Reference for $XPL (continued)

Name	Offset	Hex Tag
X037USER	24	40
X037VERN	24	1
X037WAVE	14	
X037XID	24	25
X038COND	24	8
X038IND	24	7
X038JOA	14	
X038JOE	14	14
X038KEEP	24	80
X038PLUS	24	10
X038PSO	10	
X038RESP	24	9
X038SIZE	14	18
X038VERN	24	1
X038XID	24	26
X039AREA	1C	
X039COND	14	8
X039IND	14	7
X039JCT	14	
X039NDH	18	
X039PDDB	10	
X039PLUS	14	10
X039RECV	14	80
X039RESP	14	9
X039SIZE	1C	20
X039VERN	14	1
X039XID	14	27
X040COND	1C	8
X040DSCT	1C	
X040IND	1C	7
X040JCT	18	
X040JQE	14	
X040NSPN	1C	40
X040PDDB	10	
X040PLUS	1C	10
X040RESP	1C	9
X040RFNT	1C	80
X040RNNT	1C	40
X040SIZE	20	34
X040SPIN	1C	80
X040UNSP	1C	20
X040VERN	1C	1
X040VTXT	20	
X040XID	1C	28
X041COND	20	8
X041DEFN	14	
X041GGKT	10	
X041IND	20	7
X041JDVT	18	

Table 591. Cross Reference for $XPL (continued)

Name	Offset	Hex Tag
X041PLUS	20	10
X041RESP	20	9
X041RSVN	16	18
X041SIZE	18	20
X041TOTN	16	
X041VERN	20	1
X041XID	20	29
X042CANC	18	80
X042CKEY	2C	
X042COND	18	8
X042DERR	18	2
X042EMSG	18	40
X042EXTE	18	10
X042IND	18	7
X042MAIN	18	1
X042MEMB	2D	
X042MEMC	18	2
X042MSGC	18	4
X042NEWM	28	
X042NEWN	14	
X042NEWR	16	
X042NEWU	20	
X042NOAU	18	8
X042NOCH	18	20
X042NOXT	18	20
X042NWML	18	
X042PLUS	18	10
X042RC	1C	
X042REAS	1A	
X042RESP	18	9
X042RMCH	18	10
X042SETR	18	40
X042SIZE	2E	30
X042SNUA	10	
X042UERR	18	4
X042UNTK	18	80
X042USCH	18	8
X042VERN	18	2
X042XID	18	2A
X043CHG	2E	20
X043COND	2E	8
X043IND	2E	7
X043JCT	14	
X043PLUS	2E	10
X043RESP	2E	9
X043SIZE	14	18
X043SJB	10	
X043TPS	2E	80
X043TPT	2E	40

Table 591. Cross Reference for $XPL (continued)

Name	Offset	Hex Tag
X043VERN	2E	1
X043XID	2E	2B
X044CNVQ	14	20
X044CNWT	14	20
X044COND	14	8
X044CPER	14	8
X044DLGN	14	80
X044FKOF	14	40
X044IND	14	7
X044JCLE	14	4
X044JCLO	14	0
X044JCLS	18	
X044JCT	10	
X044JQE	14	
X044OUTQ	14	80
X044PLUS	14	10
X044PURQ	14	40
X044RESP	14	9
X044SCHE	20	
X044SIZE	20	30
X044VERN	14	3
X044XID	14	2C
X045CANC	20	80
X045CART	40	
X045CKEY	20	
X045CNID	48	
X045COND	20	8
X045DEST	21	80
X045ERAD	50	
X045ERLN	56	
X045EXTE	20	10
X045FLG1	21	
X045GRPN	34	
X045GRP1	3C	
X045GRP2	3E	
X045IND	20	7
X045INVF	20	4
X045INVI	20	2
X045JBID	2C	
X045JBNM	24	
X045JESD	20	40
X045JSSP	21	20
X045MDAD	4C	
X045MDLN	54	
X045NOAU	20	8
X045NOXT	20	20
X045PCED	20	80
X045PLUS	20	10
X045RC	1C	

Table 591. Cross Reference for $XPL (continued)

Name	Offset	Hex Tag
X045REAS	1A	
X045RESP	20	9
X045RSVD	18	
X045SECL	21	40
X045SETR	20	40
X045SFRB	14	
X045SIZE	56	58
X045SSFA	10	
X045VERN	20	2
X045XID	20	2D
X046AREA	28	
X046BYP	56	40
X046COND	56	8
X046DCT	14	
X046DSH	56	20
X046HADR	10	
X046HDR	56	80
X046IND	56	7
X046INV	56	3F
X046JCT	1C	
X046JOA	24	
X046JOE	28	24
X046JQE	18	
X046PDDB	20	
X046PLUS	56	10
X046RCCS	56	10
X046RESP	56	9
X046R1ST	56	80
X046SIZE	28	2C
X046TERM	56	80
X046TRL	56	40
X046VERN	56	2
X046XID	56	2E
X047AREA	24	
X047BJQE	28	8
X047COND	28	8
X047DCT	1C	
X047DSH	28	20
X047HADR	10	
X047HDR	28	80
X047IND	28	7
X047INV	28	7F
X047JCT	14	
X047JQE	18	
X047PDDB	20	
X047PLUS	28	10
X047RCCS	28	10
X047RESP	28	9
X047SIZE	24	28

Table 591. Cross Reference for $XPL (continued)

Name	Offset	Hex Tag
X047TERM	28	80
X047TRL	28	40
X047VERN	28	2
X047XID	28	2F
X049COND	24	8
X049IND	24	7
X049INV	24	1F
X049JQE	10	
X049NDUP	24	20
X049NOPT	24	40
X049NORM	24	0
X049PLUS	24	10
X049QGT	14	
X049RESP	24	9
X049SIZE	14	18
X049SJOB	24	4
X049SJSE	24	8
X049SKIP	24	80
X049VERN	24	1
X049XID	24	31
X050AREA	1C	
X050AVF	14	10
X050BSAF	14	20
X050COND	14	8
X050DCT	18	
X050FLG1	21	
X050GJOB	14	80
X050IND	14	7
X050JCLS	38	
X050JCT	10	
X050JECL	14	40
X050JQE	14	
X050NEXT	40	
X050NORM	14	80
X050OUTP	14	40
X050PLUS	14	10
X050PRIO	20	
X050PURG	14	20
X050RESP	14	9
X050SAF	24	
X050SENV	28	
X050SIZE	64	64
X050UCOR	44	
X050VERN	14	2
X050WSEL	14	10
X050XID	14	32
X050XNOD	22	
X0501ARM	21	80
X0501IND	21	40

Table 591. Cross Reference for $XPL (continued)

Name	Offset	Hex Tag
X051COND	64	8
X051FLG1	38	
X051IND	64	7
X051JCT	14	
X051JOBC	1C	
X051JQA	10	
X051NEWQ	1A	
X051NEWT	1B	
X051NOCH	64	40
X051OLDQ	18	
X051OLDT	19	
X051PLUS	64	10
X051QCNV	39	2
X051QHRD	39	9
X051QINP	39	1
X051QNUM	39	A
X051QOUT	39	8
X051QPUR	39	A
X051QRCV	39	7
X051QSET	39	3
X051QSPN	39	5
X051QXEQ	39	4
X051QXMT	39	6
X051RBLD	64	80
X051RESP	64	9
X051RQUE	64	40
X051RXEQ	64	80
X051SAF	34	
X051SENV	24	
X051SIZE	39	3C
X051VERN	64	1
X051XID	64	33
X0511IND	38	40
X052AREA	24	
X052CARD	10	
X052CCMT	4C	2
X052COND	39	8
X052CONT	39	80
X052ECLT	4D	
X052FLGX	14	
X052FLG1	4C	
X052IND	39	7
X052JCMT	39	20
X052JCT	1C	
X052JOBC	39	8
X052JOBG	39	9
X052JQE	20	
X052JXWR	18	
X052J2CL	4D	80

Table 591. Cross Reference for $XPL (continued)

Name	Offset	Hex Tag
X052J3CL	4D	40
X052KILL	39	10
X052LAST	4C	1
X052LOPR	4C	8
X052OCLS	50	
X052OJNM	58	
X052PLUS	39	10
X052PURG	39	8
X052QUOT	4C	4
X052RESP	39	9
X052RJCA	44	
X052RJCC	48	
X052RJCP	40	
X052RLOC	39	4
X052SEC	39	10
X052SIZE	80	8C
X052STME	2C	
X052STML	30	
X052STMT	28	
X052STMV	38	
X052ST12	80	
X052UCOR	60	
X052VERN	39	3
X052XID	39	34
X052XSEM	39	40
X052XSNC	39	80
X053ACCT	10	
X053ACTL	1C	
X053AREA	28	
X053COND	80	8
X053ECLT	34	
X053FLGX	14	
X053IND	80	7
X053JCLS	2C	
X053JCT	20	
X053JQE	24	
X053JXWR	18	
X053J2CL	34	80
X053J3CL	34	40
X053KILL	80	20
X053PLUS	80	10
X053RESP	80	9
X053SIZE	35	38
X053SKIP	80	40
X053VERN	80	2
X053XID	80	35
X053XSEM	80	80
X054AREA	24	
X054CARD	10	

Table 591. Cross Reference for $XPL (continued)

Name	Offset	Hex Tag
X054CCMT	4C	2
X054CMND	38	20
X054COND	38	8
X054CONT	38	80
X054FLGX	14	
X054FLG1	4C	
X054IND	38	7
X054JCL	38	0
X054JCMT	38	20
X054JCT	1C	
X054JECL	38	4
X054JOBP	38	40
X054JQE	20	
X054JXWR	18	
X054KILL	38	10
X054LAST	4C	1
X054LOPR	4C	8
X054PLUS	38	10
X054PREJ	38	1
X054PURG	38	8
X054QUOT	4C	4
X054RESP	38	9
X054RJCA	44	
X054RJCC	48	
X054RJCP	40	
X054RLOC	38	4
X054SEC	38	10
X054SIZE	60	8C
X054STME	2C	
X054STML	30	
X054STMT	28	
X054STMV	38	
X054VERN	38	1
X054XID	38	36
X054XSEM	38	40
X054XSNC	38	80
X055AREA	1C	
X055COND	8C	8
X055IND	8C	7
X055JCT	14	
X055NDH	18	
X055PDDB	10	
X055PLUS	8C	10
X055RECV	8C	80
X055RESP	8C	9
X055SIZE	1C	20
X055VERN	8C	1
X055XID	8C	37
X056AREA	28	

Table 591. Cross Reference for $XPL (continued)

Name	Offset	Hex Tag
X056BYP	1C	40
X056COND	1C	8
X056DSH	1C	20
X056HADR	10	
X056HDR	1C	80
X056IND	1C	7
X056INV	1C	3F
X056JCT	1C	
X056JOA	24	
X056JOE	28	24
X056JQE	18	
X056PDDB	20	
X056PLUS	1C	10
X056RCCS	1C	10
X056RESP	1C	9
X056R1ST	1C	80
X056SIZE	28	2C
X056TERM	1C	80
X056TRL	1C	40
X056VERN	1C	1
X056XID	1C	38
X057AREA	24	
X057BJQE	28	8
X057COND	28	8
X057DSH	28	20
X057HADR	10	
X057HDR	28	80
X057IND	28	7
X057INV	28	7F
X057JCT	14	
X057JQE	18	
X057PDDB	20	
X057PLUS	28	10
X057RCCS	28	10
X057RESP	28	9
X057SIZE	24	28
X057TERM	28	80
X057TRL	28	40
X057VERN	28	1
X057XID	28	39
X058COND	24	8
X058IND	24	7
X058JCT	14	
X058PLUS	24	10
X058PSN	18	
X058PSS	20	
X058RESP	24	9
X058SIZE	2C	30
X058SJB	10	

Table 591. Cross Reference for $XPL (continued)

Name	Offset	Hex Tag
X058SRSH	24	40
X058SRST	24	80
X058STAB	24	80
X058STPA	2C	
X058STPC	2A	
X058VERN	24	1
X058XID	24	3A
X059CIW	24	
X059CNVW	18	
X059COND	2C	8
X059FAIL	2C	80
X059HOLD	2C	80
X059IND	2C	7
X059IRET	14	
X059JCLS	28	
X059JCT	1C	
X059JOB	2C	10
X059PLUS	2C	10
X059RESP	2C	9
X059SCHE	30	
X059SIZE	30	40
X059STC	2C	20
X059TSU	2C	40
X059VERN	2C	1
X059WORK	10	
X059XID	2C	3B
X060CEND	30	4
X060CIW	24	
X060CNMB	20	
X060CNVW	18	
X060COND	30	8
X060CRET	14	
X060HOLD	30	80
X060IND	30	7
X060ITXT	14	
X060JCLS	28	
X060JCT	1C	
X060JOB	30	10
X060PLUS	30	10
X060RESP	30	9
X060SCHE	30	
X060SIZE	30	40
X060STC	30	20
X060TEXT	30	0
X060TSU	30	40
X060VERN	30	1
X060WORK	10	
X060XID	30	3C

Chapter 245. $XPWORK Information

$XPWORK Heading Information

Common Name:	HASP Coupling PCE Work Area
Macro ID:	$XPWORK
DSECT Name:	PCE ($XPWORK is part of the PCE DSECT)
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	'PCE ' Offset: PCEEYE-PCE Length: 4
Storage Attributes:	Subpool: See $PCE Key: See $PCE Residency: See $PCE
Size:	See symbol XPWPCEWL for the length of this work area. The overall length of the PCE is stored in field PCELENG.
Created by:	See $PCE
Pointed to by:	The $XCFPCE field of the $HCT data area. See $PCE for other pointer fields that apply to all PCE types.
Serialization:	Normal PCE dispatch serialization
Function:	The fields in this work area are used by a JES2 coupling processor. $XPWORK maps the variable PCE work area that begins at label PCEWORK. The fields defined in $XPWORK are actually part of the PCE DSECT, but only map PCEs with the value PCEXCFID in the second byte of field PCEID. This PCE is not device related. Field PCEDCT is zero.

$XPWORK mapping

Table 592. Structure PCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PCE	HASP COUPLING PROCESSOR
320	(140)	SIGNED	4		Reserved
324	(144)	BITSTRING	1		Reserved
325	(145)	BITSTRING	1	XPWFLAG2	Recovery processing flag
		1...		XPW2ACTV	"B'10000000'" PCE active
		.1..		XPW2RCVY	"B'01000000'" Recovery active
		..1.		XPW2REC1	"B'00100000'" Once through recovery
326	(146)	BITSTRING	2		Reserved for IBM use
328	(148)	ADDRESS	4	XPWNFRQH	Head/Tail of notification
332	(14C)	ADDRESS	4	XPWNFRQT	exit requests
336	(150)	ADDRESS	4	XPWNFXIT	Notification exit chain
340	(154)	BITSTRING	12	XPWSTQE	$STIMER queue element
352	(160)	SIGNED	4		Reserved for IBM use
356	(164)	SIGNED	4		Reserved for IBM use

Table 592. Structure PCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
360	(168)	SIGNED	4		Reserved for IBM use
360	(168)	X'2C'	0	XPWPCEWL	"*-PCEWORK" LENGTH OF PCE WORK AREA

Table 593. Structure XNFELEM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	XNFELEM	
0	(0)	CHARACTER	4	XNFEYE	Eyecatcher
4	(4)	SIGNED	4	XNFSPLEN	Length and subpool id
4	(4)	X'4'	0	XNFSUBP	"XNFSPLEN,1" Subpool number
4	(4)	X'5'	0	XNFLEN	"XNFSPLEN+1,3" Length
8	(8)	ADDRESS	4	XNFRQNXT	$FIFOENQ chaining
12	(C)	ADDRESS	4	XNFRQPRV	pointers
12	(C)	X'8'	0	XNFXITNX	"XNFRQNXT,L'XNFRQNXT" Exit chaining pointer
16	(10)	BITSTRING	4	XNFRQECB	Request ECB (internal)
20	(14)	BITSTRING	1	XNFRQTYP	Request type (see $MSTNTFY parameter list)
21	(15)	BITSTRING	1	XNFFLAG	Options
		1...		XNFFSUBT	"B'10000000'" Subtask environ caller
		.1..		XNFFJES2	"B'01000000'" JES2 main task caller
22	(16)	BITSTRING	2		Reserved
24	(18)	ADDRESS	4	XNFECBAD	ECB address (caller's ECB)
28	(1C)	ADDRESS	4	XNFPGMAD	EXITPGM address
32	(20)	ADDRESS	4	XNFPRM	EXITPRM
36	(24)	SIGNED	4	XNFXITID	Notification EXITID
40	(28)	DBL WORD	8	(0)	Align to doubleword
40	(28)	X'28'	0	XNFELMLN	"*-XNFELEM" Length of element

Table 594. Cross Reference for $XPWORK

Name	Offset	Hex Tag
PCE	0	
XNFECBAD	18	
XNFELEM	0	
XNFELMLN	28	28
XNFEYE	0	
XNFFJES2	15	40
XNFFLAG	15	
XNFFSUBT	15	80
XNFLEN	4	5
XNFPGMAD	1C	
XNFPRM	20	
XNFRQECB	10	
XNFRQNXT	8	
XNFRQPRV	C	
XNFRQTYP	14	

Table 594. Cross Reference for $XPWORK (continued)

Name	Offset	Hex Tag
XNFSPLEN	4	
XNFSUBP	4	4
XNFXITID	24	
XNFXITNX	C	8
XPWFLAG2	145	
XPWNFRQH	148	
XPWNFRQT	14C	
XPWNFXIT	150	
XPWPCEWL	168	2C
XPWSTQE	154	
XPW2ACTV	145	80
XPW2RCVY	145	40
XPW2REC1	145	20

Chapter 246. $XREQ Information

$XREQ Heading Information

Common Name:	XCF Information Request Message
Macro ID:	$XREQ
DSECT Name:	XREQ
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	XREQ Offset: XREQID-XREQ Length: L'XREQID
Storage Attributes:	Subpool: 0 Key: 1 Residency: Virtual and real storage are above 16M, in the private storage of the JES2 address space.
Size:	See XREQLEN
Created by:	HASPXCF
Pointed to by:	XCMXBUFA field of the $XCMWORK data area XCMACKPT field of the $XCMWORK data area Expanded in line in HASPIRDA
Serialization:	Normal PCE dispatch serialization
Function:	The XREQ DSECT maps requests and responses sent between members of a MAS. The intent is that the information requested is easily obtainable without a $WAIT. XREQ reqests are sent via JESXCF to the default mailbox. These reqests are processed by the JES2 XCF PCE. All data needed to respond to the request must be available without a $WAIT (since the XCF PCE should never $WAIT). The mapping consistes of a fixed length base section which describes the request/response. This is followed by a variable length data area which qualifies the request or contains the response.

$XREQ mapping

Table 595. Structure XREQ

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	XREQ	Start of message header
0	(0)	CHARACTER	4	XREQID	Buffer identifier
4	(4)	ADDRESS	1	XREQVER	Version number
4	(4)	X'1'	0	XREQVERN	"1" Current version
5	(5)	CHARACTER	1	XREQTYPE	Message type
5	(5)	X'D9'	0	XREQMSG	"C'R'" Request message type
5	(5)	X'C1'	0	XREQRESP	"C'A'" Response message type
6	(6)	ADDRESS	1	XREQINFO	Info requested (max 254)
		Main JES2 XCF intermember command request types Mailbox: SYSJESXCF$CMD Address space name: JES2 JESXCF group: $XCFGPNM			

Table 595. Structure XREQ (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
6	(6)	X'1'	0	XREQSCAN	"1" Process $SCAN request
6	(6)	X'2'	0	XREQSTAT	"2" Update status request
6	(6)	X'3'	0	XREQJOE	"3" Update JWEL/TJEV status
6	(6)	X'4'	0	XREQPJOE	"4" Post JOE without clearing JWELs
6	(6)	X'5'	0	XREQPXEQ	"5" $POSTXEQ
6	(6)	X'6'	0	XREQRLOG	"6" $RBLDLOG SYSLOG chain rebuild
6	(6)	X'7'	0	XREQSPIN	"7" SPIN-ANY support
6	(6)	X'8'	0	XREQJQSP	"8" JQA spinnable update
6	(6)	X'9'	0	XREQDCLS	"9" Process JOBCLASS or JOBCLASS GROUP delete
6	(6)	X'A'	0	XREQJMOD	"10" Process Job Modify SSI rq
6	(6)	X'B'	0	XREQCKTR	"11" CKPT tuning request
6	(6)	X'C'	0	XREQDLS	"12" Deadline scheduling request (DLS)
6	(6)	X'D'	0	XREQTMOF	"13" Time offset change event
6	(6)	X'E'	0	XREQZGL	"14" Jobgroup logging request
		Spool migration request types Mailbox: SYSJES2MIGR$ASST Address space name: JES2 JESXCF group: SYSMGnnn			
6	(6)	X'1'	0	XREQPHA1	"1" Start phase 1
6	(6)	X'2'	0	XREQPHA2	"2" Start phase 2
6	(6)	X'3'	0	XREQCNCL	"3" Cancel migration
6	(6)	X'4'	0	XREQSTAU	"4" Migration status
6	(6)	X'5'	0	XREQEND	"5" Successful migration end
		Spool migration request types Mailbox: SYSJES2RN$<volser> Address space name: JES2 JESXCF group: SYSMGnnn SPOOL migration mailbox: Runtime sends "IO permission" requests to migrator via this mailbox. Created by migrator subtask. One per migration.			
6	(6)	X'1'	0	XREQIOPE	"1" IO permission message
		Multi-system data retrieval request types Mailbox: SYSJES$XSYSBUF Address space name: JES2 AUX subtask JESXCF group: SYSJ2$XD			
6	(6)	X'1'	0	XREQXBUF	"1" Retrieve instorage HDB (use PROTSRB service)
6	(6)	X'2'	0	XREQITDT	"2" Retrieve initiator data (initiator SSI)
6	(6)	X'3'	0	XREQMGSW	"3" Migrator switch (spool migration)
		Jobgroup logging message request Mailbox: SYSJES$JOBGRPLOG Address space name: JES2AUX JESXCF group: SYSJ2$XD			
6	(6)	X'4'	0	XREQZGM	"4" Jobgroup message request
7	(7)	BITSTRING	1		Reserved

Table 595. Structure XREQ (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
8	(8)	ADDRESS	4	XREQTOKN	Token passed from reqest to response
12	(C)	ADDRESS	4	XREQFRC	Function return code
16	(10)	SIGNED	4	(2)	Reserved
24	(18)	SIGNED	4	XREQDATO	Offset to data (XREQDATA)
28	(1C)	SIGNED	4	XREQLEN	Data length (no prefix)
32	(20)	BITSTRING	80		Reserved for future use
112	(70)	DBL WORD	8	(0)	Alignment
112	(70)	X'70'	0	XREQBASE	"*-XREQ" Length of base section
		Data area. The contents of the data area depends on the information requested (XREQINFO).			
112	(70)	DBL WORD	8	XREQDATA(0)	Start of data area
		Issue $SCAN request (XREQINFO = 1) This request passes as input a series of SCAN processable statements seperated by a X'15'. The first blank delimited word in the request is an action type (this determines the values used for SCAN= and CALLER= for the $SCAN REQUEST). This is processed on the receiving side by calling $SCAN for each X'15' delimited statement. A caller ID of IRPL is used and the output of the $SCAN call is returned to the caller. For each high level SCANTAB processed, a logical line of output is returned. Each logical line will be seperated by a X'15'. The logical line is valid input to a $SCAN set call. If there is an error on the $SCAN call, the HASP003 message is returned (with the message id). Valid action types are: $D - Display command $DSHORT - Short display command $T - Set command $S - Start command $P - Purge command $E - Reset command $ADD - Add command $DEL - Delete command Example: Sending buffer (? = X'15' in example) $D CKPTDEF MODE ?$D SPOOLDEF VOLUME Response CKPTDEF MODE=DUAL ?SPOOLDEF VOLUME=SPOL1 ?				
112	(70)	SIGNED	4	(2)	Reserved
120	(78)	CHARACTER	1	XRESCAST(0)	SCAN input for INIT STMT
112	(70)	SIGNED	4	XRESCARC	Highest RC from $SCAN
116	(74)	BITSTRING	1	XRESFLA1	Flag1
117	(75)	BITSTRING	3		Reserved
120	(78)	CHARACTER	1	XRESCADA(0)	Start of returned data
		Update status request (XREQINFO = 2) This request passes updated status information to all members. There is no response data.			
112	(70)	SIGNED	4	(2)	Reserved
120	(78)	CHARACTER	8	XRESTNAM	JES2 member name
128	(80)	DBL WORD	8	XRESTTIM	Time of last CKPT access
136	(88)	SIGNED	4	XREAHOLD	Actual HOLD value

Table 595. Structure XREQ (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
140	(8C)	SIGNED	4	XREADORM	Actual dormancy value
144	(90)	SIGNED	4	XRESCKLV	Last change CKPT level
148	(94)	SIGNED	2	XRESTGSZ	Current TG size
150	(96)	BITSTRING	1	XRESFLG1	Flags:
		1...		XRES1FW	"B'10000000'" Final write
		.1..		XRES1TCM	"B'01000000'" Ckpt tuning changes made
		..1.		XRES1EX1	"B'00100000'" CKPT1 has been extended
		...1		XRES1EX2	"B'00010000'" CKPT2 has been extended
151	(97)	BITSTRING	1		Reserved
152	(98)	CHARACTER	44	XRESDSM	Current SPOOL DSN mask
196	(C4)	SIGNED	4	XREZPSEQ	z/OS product sequence numb.
200	(C8)	SIGNED	4	XRESPAIN	Member pain value
204	(CC)	SIGNED	4	XRESPNRT	Member pain rate
208	(D0)	SIGNED	4	XRESOHV	CKPT access overhead (in microsecs)
212	(D4)	SIGNED	4	XRESQSMX	Time between getting CKPT and last $WAIT by PCE with $QSUSE (in microsecs)
216	(D8)	SIGNED	4	XRESHOLD	Configured HOLD
220	(DC)	SIGNED	4	XRESLDRM	Configured min DORMANCY
224	(E0)	SIGNED	4	XRESHDRM	Configured max DORMANCY
228	(E4)	SIGNED	2	XRESCTSN	Ckpt tuning cycle number
230	(E6)	BITSTRING	2		Reserved
230	(E6)	X'78'	0	XRESCTDL	"*-XREQDATA" Len with CKPT tuning data
230	(E6)	X'E8'	0	XRESTLEN	"*-XREQ" Total length of request
		Update JWEL/TJEV status (XREQINFO = 3) Post JOE without clearing JWELs (XREQINFO = 4) or Post JOE with clearing JWELs or synchronize JOECRTME and $JWECRTM This request passes a JOE offset and JOE creation time. For XREQINFO = 3, this is used to manage the removal of JWELs and TJEVs. There is no response data. For XREQINFO = 4, this is used to $#POST a JOE without removing the JWELs. There is no response data.			
112	(70)	SIGNED	4	(2)	Reserved
120	(78)	ADDRESS	4	XREJOEOF	JOE offset
124	(7C)	SIGNED	4	XREJOECR	JOE creation time
128	(80)	SIGNED	4	XREJOEPR	Prior 'creation' time
132	(84)	BITSTRING	1	XREJFLG1	Flags
		1...		XREJ1PST	"B'10000000'" $#POST needed
		11..		XREJ1KPJ	"B'11000000'" $#POST and keep JWELs
		..1.		XREJ1CRT	"B'00100000'" Ensure JOECRTME=$JWECRTM
133	(85)	BITSTRING	3		Reserved for future use
133	(85)	X'88'	0	XREJOELN	"*-XREQ" Total length of request

Table 595. Structure XREQ (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
133	(85)	X'22'	0	XREJOELW	"(*-XREQ+3)/4" Total length in words
		Perform $POSTXEQ. (XREQINFO = 5) Perform $POSTXEQ. There is no response data.			
112	(70)	SIGNED	4	(2)	Reserved
112	(70)	X'78'	0	XREXEQLN	"*-XREQ" Total length of request
112	(70)	X'1E'	0	XREXEQLW	"(*-XREQ+3)/4" Total length in words
		Rebuild SYSLOG chain. (XREQINFO = 6) Call the HASPJQS routine $RBLDLOG to rebuild the chain of SYSLOG job JQEs. There is no response data. Passed data is the MVS system name of the member that needs its SYSLOG chain rebuilt, and an indicator whether to check the chain before doing the rebuild.			
112	(70)	SIGNED	4	(2)	Reserved
120	(78)	CHARACTER	8	XRERLMVS	MVS system name w/bad SYSLOG chain
128	(80)	SIGNED	4	XRERLCHN	Check syslog chain ind
128	(80)	X'84'	0	XRERBLLN	"*-XREQ" Total length of request
128	(80)	X'21'	0	XRERBLLW	"(*-XREQ+3)/4" Total length in words
		SPIN-ANY support (XREQINFO = 7) Perform a surrogate WTO with a HASP138 message that in turn precipitates code in the WTO SSI that performs $SPIN operations.			
112	(70)	SIGNED	4	(2)	Reserved
120	(78)	CHARACTER	1	XREPDATA(0)	Start of SPIN data
120	(78)	SIGNED	4	XREPJOBN	Job number
124	(7C)	SIGNED	2	XREP138	Length of text
126	(7E)	CHARACTER	100	XREPMSG	HASP138 text
126	(7E)	X'6A'	0	XREPDATL	"*-XREPDATA" Lenth of SPIN data
126	(7E)	X'E2'	0	XREPBLLN	"*-XREQ" Total length of request
126	(7E)	X'39'	0	XREPBLLW	"(*-XREQ+3)/4" Total length in words
		JQA set spinnable (XREQINFO = 8) Update JQA by turning on JQA1SPIN flag.			
112	(70)	SIGNED	4	(2)	Reserved
120	(78)	SIGNED	4	XSPNJOBN	Job number
120	(78)	X'7C'	0	XSPNBLLN	"*-XREQ" Total length of request
120	(78)	X'1F'	0	XSPNBLLW	"(*-XREQ+3)/4" Total length in words
		Delete JOBCLASS or CLASS Group (XREQINFO = 9) Update JQA by turning on JQA1SPIN flag.			
112	(70)	SIGNED	4	(2)	Reserved
120	(78)	CHARACTER	8	XCLSNAME	Class or group name
128	(80)	BITSTRING	1	XCLSTYPE	Type of item being deleted
128	(80)	X'1'	0	XCLSTCLS	"1" JOBCLASS
128	(80)	X'2'	0	XCLSTGRP	"2" JOBCLASS GROUP
129	(81)	BITSTRING	3		Reserved
129	(81)	X'84'	0	XCLSBLLN	"*-XREQ" Total length of request

Table 595. Structure XREQ (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
129	(81)	X'21'	0	XCLSBLLW	"(*-XREQ+3)/4" Total length in words
		Process Job Modify SSI Request (XREQINFO = 10) Call the appropriate routine to perform the Job Modify SSI request. The response data should indicate the success or failure of the function. Valid action types are: $T - Set command $S - Start command $P - Purge command $E - Restart command			
112	(70)	SIGNED	4	(2)	Reserved
120	(78)	CHARACTER	1	XREJDATA(0)	Start of MODJOB req data
120	(78)	ADDRESS	4	XREJMDJQ	Address of associated JQRB
124	(7C)	SIGNED	4	XREJMDJA	ALET of associated JQRB
128	(80)	BITSTRING	1	XREJMDTY	Type of request passed. See field SSJMTYPE in macro IZASSJM for definitions
129	(81)	BITSTRING	1	XREJMDF1	Flags
		1...		XREJMD1S	"B'10000000'" SYNC request in JQRB
		.1..		XREJMD1X	"B'01000000'" Request sent cross member
		..11		XREJMD1R	"B'00110000'" Reserved
		.... 1...		XREJCONC	"B'00001000'" $DCONSET versus $DMNDJOB
130	(82)	BITSTRING	2		Reserved for future use
132	(84)	CHARACTER	64	XREJMDJC	Job correlator, target job
196	(C4)	BITSTRING	1	XREJMDMN	Member number where to send message
197	(C5)	BITSTRING	3		Reserved for future use
200	(C8)	ADDRESS	4	XREJRMGA	Buffer addr response msg
204	(CC)	SIGNED	4	XREJRMGL	Buffer addr length rsp msg
204	(CC)	X'58'	0	XREJMDBL	"*-XREJDATA" Base length of request data
208	(D0)	CHARACTER	1	XREJMDTA(0)	Start of associated data
112	(70)	SIGNED	4	(2)	Reserved
120	(78)	ADDRESS	4	XREJMRJQ	Address of associated JQRB
124	(7C)	SIGNED	4	XREJMRJA	ALET of associated JQRB
128	(80)	BITSTRING	1	XREJMRTY	Type of request passed. See field SSJMTYPE in macro IZASSJM for definitions
129	(81)	BITSTRING	1	XREJMRF1	Flags
		1...		XREJMR1S	"B'10000000'" SYNC request in JQRB
		.1..		XREJMR1X	"B'01000000'" Request sent cross member
		..1.		XREJMR1U	"B'00100000'" Service got update JQA
		...1		XREJMR1R	"B'00010000'" Service got read JQA
130	(82)	BITSTRING	2		Reserved for future use
132	(84)	CHARACTER	64	XREJMRJC	Job correlator, target job
196	(C4)	BITSTRING	1	XREJMRMN	Member number where message sent

Table 595. Structure XREQ (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
197	(C5)	BITSTRING	3		Reserved for future use
200	(C8)	ADDRESS	4	XREJRAMG	Buffer addr response msg
204	(CC)	SIGNED	4	XREJRAML	Buffer addr length rsp msg
208	(D0)	SIGNED	4	XREJMRRC	RC from MODJOB function
212	(D4)	SIGNED	4	XREJMRIC	Internal code from service
216	(D8)	SIGNED	4		Reserved
216	(D8)	X'DC'	0	XREJMDRL	"*-XREQ" Total length of response
		CKPT tuning request (XREQINFO = 11) Process CKPT tuning request from another member			
112	(70)	SIGNED	4	(2)	Reserved
120	(78)	DBL WORD	8	XRECTIME	Message timestamp
128	(80)	BITSTRING	1	XRECREQ	Type of request:
128	(80)	X'1'	0	XRECSTRT	"1" - START CKPT tuning
128	(80)	X'2'	0	XRECSTOP	"2" - STOP CKPT tuning
128	(80)	X'3'	0	XRECOPT	"3" - OPTIMIZE
129	(81)	BITSTRING	1		Reserved
130	(82)	SIGNED	2	XRECSEQN	Ckpt tuning cycle number
132	(84)	SIGNED	4	XRECBCL	Length of basic cycle
136	(88)	SIGNED	4	XRECFHLD	"fair-share" HOLD value
140	(8C)	SIGNED	4	(4)	Reserved
		Tuning data for all members. Entries in this array are mapped by XRECMBRE.			
156	(9C)	SIGNED	2	XRECMDEN	Number of entries in array
158	(9E)	SIGNED	2	XRECMDEL	Length of entry in array
160	(A0)	BITSTRING	1	XRECMBRD	Member data
160	(A0)	X'220'	0	XRECSIZE	"*-XREQ" Total length of request
		Deadline scheduling request (XREQINFO = 12) Register job for deadline scheduling processing			
112	(70)	SIGNED	4	(2)	Reserved
120	(78)	SIGNED	4	XDLSJBX	JQE index
124	(7C)	SIGNED	4	XDLSJBKY	Job key
128	(80)	BITSTRING	1	XDLSFUNC	Function requested:
128	(80)	X'1'	0	XDLSADDH	"1" add HOLDUNTL job
129	(81)	BITSTRING	1	XDLSFLG1	Flags:
		1...		XDLS1UTC	"B'10000000'" Time is UTC
130	(82)	BITSTRING	6	XDLSTIME	Job event timestamp in ETOD format
136	(88)	BITSTRING	1	XDLSMBR	Job input member id
137	(89)	BITSTRING	15		Reserved
137	(89)	X'98'	0	XDLSSIZE	"*-XREQ" Total length of request
		Time offset change event (XREQINFO = 13) Report local time offset change on a member			
112	(70)	SIGNED	4	(2)	Reserved
120	(78)	DBL WORD	8	XTMOTIME	Message timestamp
128	(80)	SIGNED	4	XTMOFFST	New time offset
132	(84)	BITSTRING	1	XTMOMBR	Reporting member id
133	(85)	BITSTRING	3		Reserved
133	(85)	X'88'	0	XTMOSIZE	"*-XREQ" Total length of request

Table 595. Structure XREQ (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		End of definitions for Mailbox name SYSJESXCF$CMD Perform PROTSRB. Mailbox name = SYSJES$XSYSBUF This request will pass as input the PROTSRB parm list and return as output a data buffer.			
112	(70)	SIGNED	4	(2)	Reserved
120	(78)	SIGNED	4	XRESRBP(0)	-+ PROTSRB parm list
120	(78)	ADDRESS	4	XREGTBF	| Protected buffer address
124	(7C)	BITSTRING	8	XRESPAD	SPIOSPAD | Spool address to be found
132	(84)	BITSTRING	4	XREJKEY	SPIOJKEY | Job key
136	(88)	SIGNED	4	XREDSKY	SPIODSKY | Dataset key
140	(8C)	SIGNED	2	XREASID	SPIOASID | ASID where job is running
142	(8E)	BITSTRING	1	XREMEMBN	| Member number
143	(8F)	BITSTRING	1	XREQFLG1	| Flag byte
		SBWA2SPB EQU B'10000000' | Spool browse and job log SBWA2JLG EQU B'01000000' | data set flags SBWA2ARQ EQU B'00100000' | and ASINFO data requested/ SBWA2ART EQU B'00010000' | returned flags as defined -+ in $SBWA and SIWSRBP			
143	(8F)	X'18'	0	XSRBREQL	"*-XRESRBP" Length of SRB request
143	(8F)	X'90'	0	XREXBFLN	"*-XREQ" Total length of request
112	(70)	SIGNED	4		Reserved
116	(74)	SIGNED	4	XREXDLEN	Data length
120	(78)	BITSTRING	1	XREXDATA(0)	Start of returned data
		Request initiator data (XREQINFO = XREQITDT) Mailbox name = SYSJES$XSYSBUF This request will pass as input appropriate filters and flags and get back initiator data.			
112	(70)	BITSTRING	1	XREIPRCF	Processing flags (copy of ITWPROCF in HASCSIJP)
113	(71)	BITSTRING	1	XREIFLG1	Init SSI filters (see JPITFLG1 in IAZJPITD)
114	(72)	BITSTRING	1	XREISTAT	Init Status Filter (see JPITSTAT in IAZJPITD)
115	(73)	BITSTRING	1	XREIFLGR	Request restart flags (see ITWFLGR in $ITWORK)
116	(74)	SIGNED	4	XREIREST	Request restart counter
120	(78)	CHARACTER	8	XREICLAS	Service/Job Class Name (see JPITSCLS in IAZJPITD)
128	(80)	CHARACTER	1	XREISTKN	Caller security token
128	(80)	X'D0'	0	XREIBFLN	"*-XREQ" Total length of request
112	(70)	BITSTRING	4	XREROINJ	Offset to 1st JES2 init (zero if none returned)
116	(74)	BITSTRING	4	XREROINW	Offset to 1st WLM init (zero if none returned)
120	(78)	BITSTRING	2	XRERDVER	Version of data
122	(7A)	BITSTRING	1	XRERFLGR	Response restart flags (see ITWFLGR in $ITWORK)
123	(7B)	BITSTRING	1		Reserved

Table 595. Structure XREQ (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
124	(7C)	SIGNED	4	XRERREST	Response restart counter
128	(80)	SIGNED	4	XRERDATA(0)	Start of returned data
		Migrator switch (XREQINFO = XREQMGSW) Mailbox name = SYSJES$XSYSBUF This request will update migrator member id in the specified CSA DAS and reroute all I/O permission messages to new migrator. This request is used by spool migration recovery. (Note that this request is sent as a COMM message and does not have any response.)			
112	(70)	SIGNED	4	XREWDASI	CSA DAS index
116	(74)	SIGNED	4	XREWMGID	New migrator id
120	(78)	SIGNED	4	(2)	Reserved
120	(78)	X'80'	0	XREWBFLN	"*-XREQ" Total length of request
		Request message: Start phase 1 (XREQINFO = XREQPHA1) Start phase 2 (XREQINFO = XREQPHA2) Cancel migration (XREQINFO = XREQCNCL) End migration (XREQINFO = XREQEND) Mailbox name = SYSJES2MIGR$ASST This request will pass as input source VOLSER and DASEXTNO identifying migration on which to perform the above operations. Spool assistants are required to send response for all of these messages on mailbox MG$<VOLSER>.			
112	(70)	SIGNED	4		Reserved
116	(74)	SIGNED	4	XRESTRT	Start target TG bit in support of transposer - only in start phase 1 msg
120	(78)	SIGNED	4	XRETLBM	Relative track at which the track level bitmap (TLBM) starts on TARG DS. Value of 0 denotes no TLBM. Only in start phase 1 msg.
124	(7C)	CHARACTER	6	XREVOLSR	Source DAS VOLSER ID
130	(82)	BITSTRING	1	XREEXTNO	Source DAS DASEXTNO
131	(83)	ADDRESS	1	XRMIGTR	SYSID of migrator system where response (ACK) must be sent to
132	(84)	BITSTRING	1		Reserved for future use
132	(84)	X'85'	0	XREPHLEN	"*-XREQ" Total length of request
		Request message Migration status (XREQINFO = XREQSTAU) Mailbox name = SYSJES2MIGR$ASST This request it broadcast to all spool assistants conveying migration information. Spool assistants need not send a response ACK message.			
112	(70)	SIGNED	4		Reserved for future use
116	(74)	BITSTRING	4	XRMEMACK	Copy of migrator ACK list for start phase 1, start phase 2, end migration and cancel.
120	(78)	BITSTRING	1	XREPERCE	Percent complete
121	(79)	CHARACTER	6	XRERVSER	Source DAS VOLSER ID
127	(7F)	BITSTRING	1	XRERXTNO	Source DAS DASEXTNO
128	(80)	SIGNED	4	XRETLBMR	Number of records in TLBM

Table 595. Structure XREQ (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
132	(84)	BITSTRING	1	XRTLBM	TLBM flags
		1...		XRTLBMWR	"B'10000000'" TLBM has been written to target dataset
133	(85)	BITSTRING	1	XRERSFLG	Status Flag
		1...		XRERNCAN	"B'10000000'" Migration not cancellable
134	(86)	BITSTRING	1	XRMIGTSK	Migrator subtask state
135	(87)	BITSTRING	1		Reserved for future use
135	(87)	X'88'	0	XRERLEN	"*-XREQ" Total length of request
		Response message. Phase 1 start complete (XREQINFO = XREQPHA1) for this MAS member. Phase 2 start complete (XREQINFO = XREQPHA2) for this MAS member. Cancel migration complete (XREQINFO = XREQCNCL) for this MAS member. End migration complete (XREQINFO = XREQEND) for this MAS member. Mailbox name = SYSJES2MG$VOLSER This is notification of operation completion on a per member basis. Migration spool assistant subtask sends this message.			
112	(70)	BITSTRING	3	XREMEMBR	MAS member affinity token
115	(73)	BITSTRING	1		Reserved for future use
116	(74)	SIGNED	4	(2)	Reserved
116	(74)	X'7C'	0	XREMELEN	"*-XREQ" Total length of request
		IO permission request (XREQINFO = XREQIOPE) Mailbox name = SYSJES2RN$VOLSER Send 'IO permission" request via runtime.			
112	(70)	SIGNED	4	XRETTRAC	Source DAS track
116	(74)	BITSTRING	1	XRETIOTY	IO type
		1		XRETREAD	"X'01'" Read
		.... ..1.		XRETWRIT	"X'02'" Write
117	(75)	BITSTRING	3		Reserved for future use
120	(78)	DBL WORD	8	XRETCHAN(0)	Request chain
120	(78)	ADDRESS	4	XRETCHFW	off $DTEMIGR
124	(7C)	ADDRESS	4	XRETCHBK	(managed by $FIFOENQ)
128	(80)	ADDRESS	4	XRETCHN2	Request chain off MGDBUF
136	(88)	DBL WORD	8	XRETTOKN	JESXCF message token
144	(90)	SIGNED	4	(2)	Reserved
144	(90)	X'98'	0	XRETTLEN	"*-XREQ" Length of the request
152	(98)	SIGNED	4	XRETDATA(0)	Start of returned data
		IO permission response (XREQINFO = XREQIOPE) Mailbox name = SYSJES2RN$VOLSER "IO permission" request response from migrator.			
112	(70)	BITSTRING	1	XREFLAG	Flags
		1...		XREOVRMP	"B'10000000'" Override source DAS mapped value.
		.1..		XREBTOFF	"B'01000000'" Turn off associated track level bitmap - bit
113	(71)	BITSTRING	3		Reserved for future use
116	(74)	SIGNED	4	(2)	Reserved

Table 595. Structure XREQ (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
116	(74)	X'7C'	0	XREQIOLN	"*-XREQ" Total length of request
	Jobgroup logging request (XREQINFO = XREQZGL)				
112	(70)	SIGNED	4	(2)	Reserved
120	(78)	BITSTRING	1	XZGLFUNC	Function requested:
120	(78)	X'1'	0	XZGLTOVR	"1" logging takeover
121	(79)	BITSTRING	1	XZGLMBR	Requesting member
	Array of JQE entries for the jobs affected by the request. Entries are mapped by XZGLENT DSECT. For XZGLSTRT request, XZGLARRN = 0 means that request applies to all jobgroup logging JQEs owned by the requesting member.				
122	(7A)	BITSTRING	2	XZGLARRO	Offset to the 1st element
124	(7C)	BITSTRING	2	XZGLARRN	Number of entries
126	(7E)	BITSTRING	2	XZGLARRL	Length of the entry
128	(80)	BITSTRING	1	XZGLFLG1	Flags:
		1...		XZGL1STQ	"B'10000000'" scan SETUP queue
		.1..		XZGL1OUQ	"B'01000000'" scan OUTPUT queue
		..1.		XZGL1PGQ	"B'00100000'" scan PURGE queue
		...1		XZGL1POU	"B'00010000'" POST OUTPUT processor
		.... 1...		XZGL1PPG	"B'00001000'" POST PURGE processor
129	(81)	BITSTRING	7		Reserved
129	(81)	X'88'	0	XZGLSIZE	"*-XREQ" Length of fixed part of the message request
	Jobgroup message request (XREQINFO = XREQZGM)				
112	(70)	SIGNED	4	(2)	Reserved
120	(78)	BITSTRING	1	XZGMFUNC	Function requested:
120	(78)	X'1'	0	XZGLPREQ	"1" pacing request (flush JESXCF data path)
120	(78)	X'2'	0	XZGLPRSP	"2" pacing response
120	(78)	X'3'	0	XZGLLMSG	"3" message to log (payload of this message is part of ZGLMSG in $ZGL starting at ZGMIDX)
121	(79)	BITSTRING	1	XZGMSMBR	Sending member
122	(7A)	BITSTRING	1	XZGMTMBR	Target member
123	(7B)	BITSTRING	5		Reserved
128	(80)	DBL WORD	8	XZGMTIME	Message timestamp (STCK)
128	(80)	X'88'	0	XZGMPSIZ	"*-XREQ" Length of a pacing message
128	(80)	X'88'	0	XZGMSIZE	"*-XREQ" Length of fixed part of the message request

Table 596. Structure XRECMBRE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	XRECMBRE	, Member entry
0	(0)	SIGNED	4	XRECMHLD	New value for HOLD
4	(4)	SIGNED	4	XRECMLDR	New value for min DORMANCY
8	(8)	SIGNED	4	XRECMHDR	New value for max DORMANCY

Table 596. Structure XRECMBRE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
8	(8)	X'C'	0	XRECMESZ	"*-XRECMBRE" Size of member entry

Table 597. Structure XZGLENT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	XZGLENT	, JQE entry
0	(0)	SIGNED	4	XZGLEJBX	JQE index of a logging job
4	(4)	SIGNED	4	XZGLEJKY	Job key of a logging job
8	(8)	CHARACTER	8	XZGLEJNM	Jobgroup name
8	(8)	X'10'	0	XZGLENSZ	"*-XZGLENT" Size of member entry

Table 598. Cross Reference for $XREQ

Name	Offset	Hex Tag
XCLSBLLN	81	84
XCLSBLLW	81	21
XCLSNAME	78	
XCLSTCLS	80	1
XCLSTGRP	80	2
XCLSTYPE	80	
XDLSADDH	80	1
XDLSFLG1	81	
XDLSFUNC	80	
XDLSJBKY	7C	
XDLSJBX	78	
XDLSMBR	88	
XDLSSIZE	89	98
XDLSTIME	82	
XDLS1UTC	81	80
XREADORM	8C	
XREAHOLD	88	
XREASID	8C	
XREBTOFF	70	40
XRECBCL	84	
XRECFHLD	88	
XRECMBRD	A0	
XRECMBRE	0	
XRECMDEL	9E	
XRECMDEN	9C	
XRECMESZ	8	C
XRECMHDR	8	
XRECMHLD	0	
XRECMLDR	4	
XRECOPT	80	3
XRECREQ	80	
XRECSEQN	82	
XRECSIZE	A0	220

Table 598. Cross Reference for $XREQ (continued)

Name	Offset	Hex Tag
XRECSTOP	80	2
XRECSTRT	80	1
XRECTIME	78	
XREDSKY	88	
XREEXTNO	82	
XREFLAG	70	
XREGTBF	78	
XREIBFLN	80	D0
XREICLAS	78	
XREIFLGR	73	
XREIFLG1	71	
XREIPRCF	70	
XREIREST	74	
XREISTAT	72	
XREISTKN	80	
XREJCONC	81	8
XREJDATA	78	
XREJFLG1	84	
XREJKEY	84	
XREJMDBL	CC	58
XREJMDF1	81	
XREJMDJA	7C	
XREJMDJC	84	
XREJMDJQ	78	
XREJMDMN	C4	
XREJMDRL	D8	DC
XREJMDTA	D0	
XREJMDTY	80	
XREJMD1R	81	30
XREJMD1S	81	80
XREJMD1X	81	40
XREJMRF1	81	
XREJMRIC	D4	
XREJMRJA	7C	
XREJMRJC	84	
XREJMRJQ	78	
XREJMRMN	C4	
XREJMRRC	D0	
XREJMRTY	80	
XREJMR1R	81	10
XREJMR1S	81	80
XREJMR1U	81	20
XREJMR1X	81	40
XREJOECR	7C	
XREJOELN	85	88
XREJOELW	85	22
XREJOEOF	78	
XREJOEPR	80	
XREJRAMG	C8	

Table 598. Cross Reference for $XREQ (continued)

Name	Offset	Hex Tag
XREJRAML	CC	
XREJRMGA	C8	
XREJRMGL	CC	
XREJ1CRT	84	20
XREJ1KPJ	84	C0
XREJ1PST	84	80
XREMELEN	74	7C
XREMEMBN	8E	
XREMEMBR	70	
XREOVRMP	70	80
XREPBLLN	7E	E2
XREPBLLW	7E	39
XREPDATA	78	
XREPDATL	7E	6A
XREPERCE	78	
XREPHLEN	84	85
XREPJOBN	78	
XREPMSG	7E	
XREP138	7C	
XREQ	0	
XREQBASE	70	70
XREQCKTR	6	B
XREQCNCL	6	3
XREQDATA	70	
XREQDATO	18	
XREQDCLS	6	9
XREQDLS	6	C
XREQEND	6	5
XREQFLG1	8F	
XREQFRC	C	
XREQID	0	E7D9C5D8
XREQINFO	6	
XREQIOLN	74	7C
XREQIOPE	6	1
XREQITDT	6	2
XREQJMOD	6	A
XREQJOE	6	3
XREQJQSP	6	8
XREQLEN	1C	
XREQMGSW	6	3
XREQMSG	5	D9
XREQPHA1	6	1
XREQPHA2	6	2
XREQPJOE	6	4
XREQPXEQ	6	5
XREQRESP	5	C1
XREQRLOG	6	6
XREQSCAN	6	1
XREQSPIN	6	7

Table 598. Cross Reference for $XREQ (continued)

Name	Offset	Hex Tag
XREQSTAT	6	2
XREQSTAU	6	4
XREQTMOF	6	D
XREQTOKN	8	
XREQTYPE	5	
XREQVER	4	
XREQVERN	4	1
XREQXBUF	6	1
XREQZGL	6	E
XREQZGM	6	4
XRERBLLN	80	84
XRERBLLW	80	21
XRERDATA	80	
XRERDVER	78	
XRERFLGR	7A	
XRERLCHN	80	
XRERLEN	87	88
XRERLMVS	78	
XRERNCAN	85	80
XREROINJ	70	
XREROINW	74	
XRERREST	7C	
XRERSFLG	85	
XRERVSER	79	
XRERXTNO	7F	
XRESCADA	78	
XRESCARC	70	
XRESCAST	78	
XRESCKLV	90	
XRESCTDL	E6	78
XRESCTSN	E4	
XRESDSM	98	
XRESFLA1	74	
XRESFLG1	96	
XRESHDRM	E0	
XRESHOLD	D8	
XRESLDRM	DC	
XRESOHV	D0	
XRESPAD	7C	
XRESPAIN	C8	
XRESPNRT	CC	
XRESQSMX	D4	
XRESRBP	78	
XRESTGSZ	94	
XRESTLEN	E6	E8
XRESTNAM	78	
XRESTRT	74	
XRESTTIM	80	
XRES1EX1	96	20

Table 598. Cross Reference for $XREQ (continued)

Name	Offset	Hex Tag
XRES1EX2	96	10
XRES1FW	96	80
XRES1TCM	96	40
XRETCHAN	78	
XRETCHBK	7C	
XRETCHFW	78	
XRETCHN2	80	
XRETDATA	98	
XRETIOTY	74	
XRETLBM	78	
XRETLBMR	80	
XRETREAD	74	1
XRETTLEN	90	98
XRETTOKN	88	
XRETTRAC	70	
XRETWRIT	74	2
XREVOLSR	7C	
XREWBFLN	78	80
XREWDASI	70	
XREWMGID	74	
XREXBFLN	8F	90
XREXDATA	78	
XREXDLEN	74	
XREXEQLN	70	78
XREXEQLW	70	1E
XREZPSEQ	C4	
XRMEMACK	74	
XRMIGTR	83	
XRMIGTSK	86	0
XRTLBM	84	
XRTLBMWR	84	80
XSPNBLLN	78	7C
XSPNBLLW	78	1F
XSPNJOBN	78	
XSRBREQL	8F	18
XTMOFFST	80	
XTMOMBR	84	
XTMOSIZE	85	88
XTMOTIME	78	
XZGLARRL	7E	
XZGLARRN	7C	
XZGLARRO	7A	
XZGLEJBX	0	
XZGLEJKY	4	
XZGLEJNM	8	
XZGLENSZ	8	10
XZGLENT	0	
XZGLFLG1	80	
XZGLFUNC	78	

Table 598. Cross Reference for $XREQ (continued)

Name	Offset	Hex Tag
XZGLLMSG	78	3
XZGLMBR	79	
XZGLPREQ	78	1
XZGLPRSP	78	2
XZGLSIZE	81	88
XZGLTOVR	78	1
XZGL1OUQ	80	40
XZGL1PGQ	80	20
XZGL1POU	80	10
XZGL1PPG	80	8
XZGL1STQ	80	80
XZGMFUNC	78	
XZGMPSIZ	80	88
XZGMSIZE	80	88
XZGMSMBR	79	
XZGMTIME	80	
XZGMTMBR	7A	

Chapter 247. $XRQ Information

$XRQ Programming Interface Information

$XRQ is a programming interface.

$XRQ Heading Information

Common Name: JES2 XCF request block
Macro ID: $XRQ
DSECT Name: XRQ
Owning Component: JES2 (SC1BH)
Eye-Catcher ID: XRQ
Offset: XRQID-XRQ
Length: L'XRQID
Storage Attributes: Subpool: 17
Key: 1
Residency: Virtual - Anywhere
Real - Anywhere

Size: See XRQSIZE
Created by: JES2 XCF exits.
Pointed to by: XMAAXRQ of $XMAS
Serialization: None required
Function: The JES2 XCF request block is used to convey the status reflected by the XCF exits to the JES2 XCF processor. The entry is freed in the JES2 XCF PCE under the JES2 main task.

$XRQ mapping

Table 599. Structure XRQ

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	XRQ	XCF request block DSECT
0	(0)	CHARACTER	4	XRQID	XRQ Identifier
4	(4)	BITSTRING	1	XRQVRSN	XRQ Version
4	(4)	X'2'	0	XRQVNUM	"2" Version Number
5	(5)	BITSTRING	3		Reserved for IBM use
8	(8)	BITSTRING	1	XRQTYPE	Request type
		1...		XRQTYSG	"B'10000000'" System gone
		.1..		XRQTYMEM	"B'01000000'" Member status change
		..1.		XRQTYUSR	"B'00100000'" User state change
9	(9)	BITSTRING	1	XRQJXCF	JESXCF flag byte
		1...		XRQDOWN	"B'10000000'" Member has gone down
		.1..		XRQUP	"B'01000000'" Member has joined the MAS
10	(A)	BITSTRING	1	XRQMEMB	Associated member number (zero for group events)
11	(B)	BITSTRING	1		Reserved for IBM use

Table 599. Structure XRQ (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
12	(C)	CHARACTER	4	XRQSID	Associated member name
16	(10)	SIGNED	4	XRQNEXT	Next request
20	(14)	SIGNED	4		Reserved for IBM use
24	(18)	BITSTRING	220	XRQGEPL	GEPL supplied with event mapped by IXCYGEPL
244	(F4)	SIGNED	4	(0)	Full word alignment
244	(F4)	BITSTRING	32	XRQGEPUS	User state field for GEPL
276	(114)	SIGNED	4		Reserved for IBM use
280	(118)	SIGNED	4		Reserved for IBM use
280	(118)	X'11C'	0	XRQSIZE	"*-XRQ" Size of XRQ DSECT

Table 600. Cross Reference for $XRQ

Name	Offset	Hex Tag
XRQ	0	
XRQDOWN	9	80
XRQGEPL	18	
XRQGEPUS	F4	
XRQID	0	
XRQJXCF	9	
XRQMEMB	A	
XRQNEXT	10	
XRQSID	C	
XRQSIZE	118	11C
XRQTYMEM	8	40
XRQTYPE	8	
XRQTYSG	8	80
XRQTYUSR	8	20
XRQUP	9	40
XRQVNUM	4	2
XRQVRSN	4	

Chapter 248. $ZJC Information

$ZJC Programming Interface Information

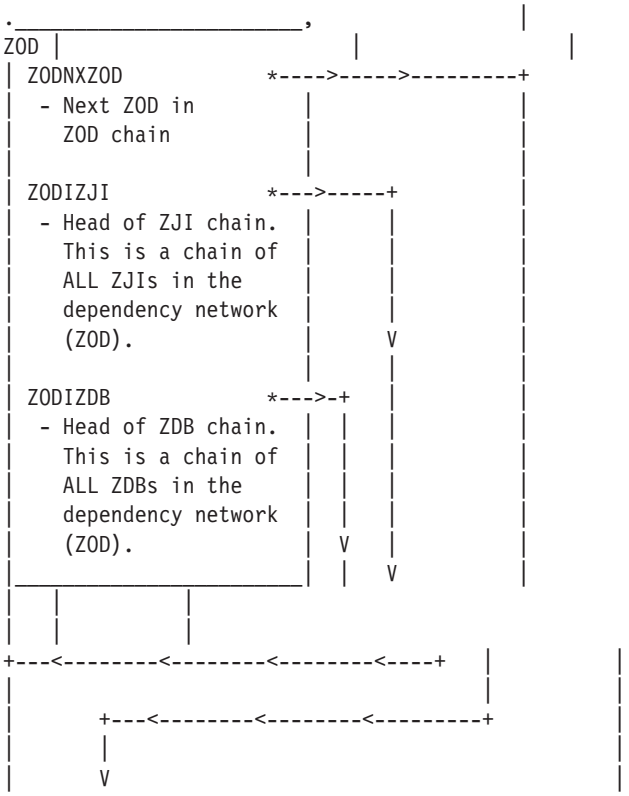
$ZJC is a programming interface.

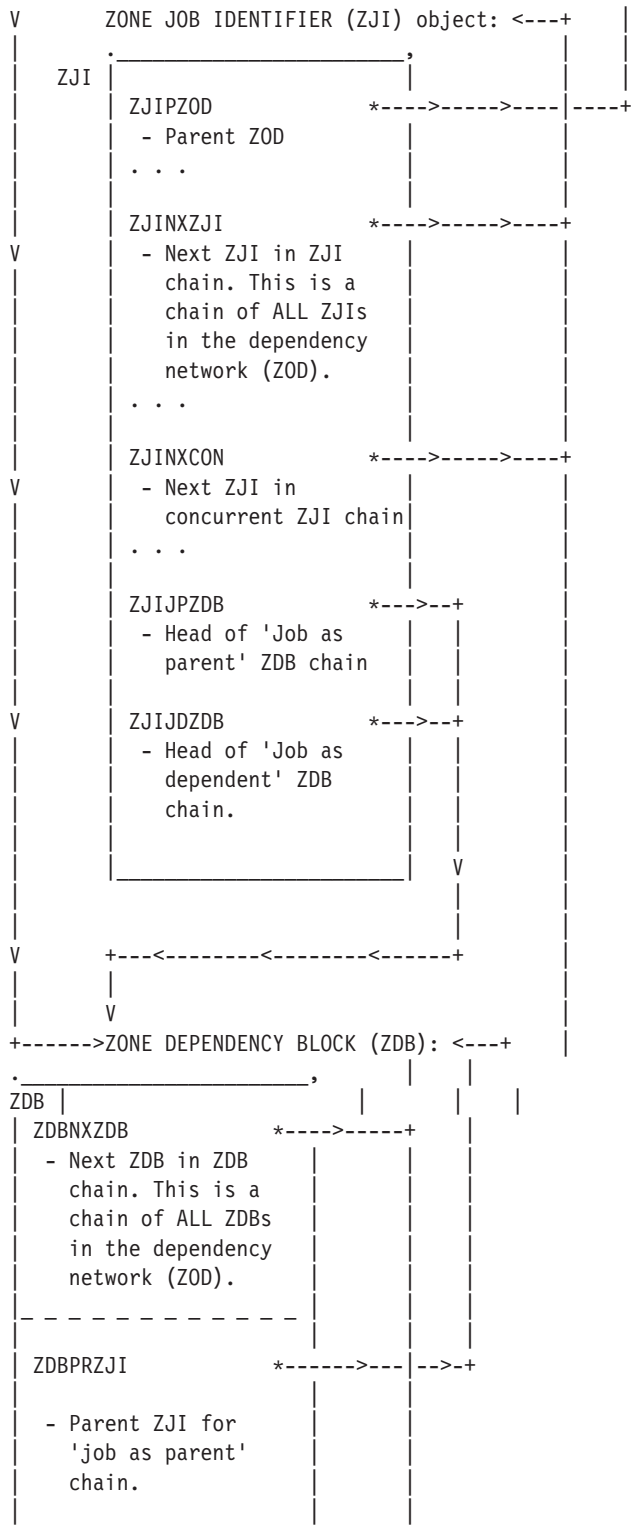
$ZJC Heading Information

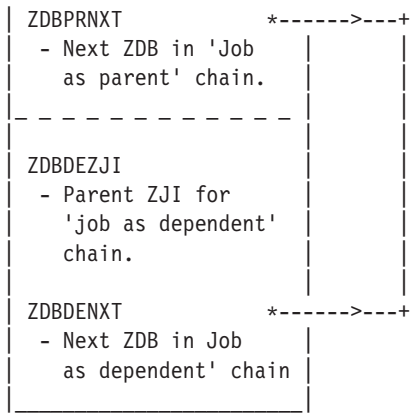
Common Name:	Zone Job Container and related structures.
Macro ID:	$ZJC
DSECT Name:	ZJC
Owning Component:	JES2 (SC1BH)
Eye-Catcher ID:	The pool (CTENT) of ZJCs is preceded by an eyecatcher '**ZJC POOL**' in the header of the pool. Offset: HDPID-HDP Length: 13
Storage Attributes:	Subpool: 0 for the JES2 main copy; dataspace for the checkpoint version copy. Key: 1 Residency: The ZJC is a checkpoint resident control block. Virtual storage is anywhere (below or above 16M) in the JES2 address space for the JES2 main copy.
Size:	The current size of a ZJC as of the most recent version is ZJCSIZE. However, the size of a ZJC in the checkpoint is the $ZJCLEN field in $HCT. Always use $ZJCLEN for any calculations!
Created by:	Storage is obtained by HASPIRDA for the JES2 private version and by HASPCKVR for the data space versions. < $$$ FILL IN LATER $$$ >
Pointed to by:	< $$$ FILL IN LATER $$$ >
Serialization:	< $$$ FILL IN MORE LATER $$$ >

$ZJC Heading Information

Function: The Zone Job Container (ZJC) is the base object in the ZJC CTENT. Inside of each ZJC can be a Zone Object Definition (ZOD), a Zone Job Identifier (ZJI), or a Zone Job Dependency Block (ZDB).
< $$$ FILL IN MORE LATER $$$ >
The ZJCs are checkpointed control blocks. There are at least two copies of each ZJC in storage (the actual and I/O copies of the ckpt, in subpool 0). There also may be 1 or more versions in the ckpt versions dataspace.
The following diagram define the linkages between the various objects.
- A chain of Zone Object Definition (ZOD) objects. Each Zone Object Definition (ZOD) is the base object that describes a job zone.
- Zone Job Identifier (ZJI) objects are chained off each Zone Object Definition (ZOD) object. Each ZJI describes a job within the job zone.
- Finally, Zone Dependency Blocks (ZDBs) are chained off of each Zone Job Identifier (ZJI). Each ZDB describes a dependency between two jobs in the zone.
- NOTE: All 'pointers' in the diagrams below are really ZJC CTENT indexes.




ZONE JOB IDENTIFIER (ZJI) object:
ZJI
ZJIPZOD
- Parent ZOD
ZJINXZJI
- Next ZJI in ZJI chain. This is a chain of ALL ZJIs in the dependency network (ZOD).
ZJINXCON
- Next ZJI in concurrent ZJI chain
ZJIJPZDB
- Head of 'Job as parent' ZDB chain
ZJIJDZDB
- Head of 'Job as dependent' ZDB chain.
ZONE DEPENDENCY BLOCK (ZDB):
ZDB
ZDBNXZDB
- Next ZDB in ZDB chain. This is a chain of ALL ZDBs in the dependency network (ZOD).
ZDBPRZJI
- Parent ZJI for 'job as parent' chain.



$ZJC mapping

Table 601. Structure ZJC

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ZJC	Zone Job Container DSECT.
0	(0)	X'1'	0	ZJCVRSN	"1" ZJC control block version
0	(0)	SIGNED	4	ZJCNFREI	Index of next ZJC on free chain (head of free chain is $ZJCFREI in $HCT).
4	(4)	SIGNED	4	ZJCINDEX	Index of this ZJC in the ZJC CTENT.
		Embedded object types :			
8	(8)	BITSTRING	1	ZJCTYPE	Embedded object type.
		....		ZJCT_FRE	"X'00'" The ZJC is unallocated and is on the free chain.
		1		ZJCT_ZOD	"X'01'" ZJC contains a Zone Object Definition (ZOD).
		.... ..1.		ZJCT_ZJI	"X'02'" ZJC contains a Zone Job Identifier (ZJI).
		11		ZJCT_ZDB	"X'03'" ZJC contains a Zone Dependency Block (ZDB).
9	(9)	BITSTRING	3	ZJCRSVD1	Reserved
		Beginning of embedded object. The object can be determined from ZJCTYPE (see above). NOTE: - The current maximum size of an embedded object is defined by $ZJCOBJM.			
9	(9)	X'94'	0	$ZJCOBJM	"148" Max embedded object size
12	(C)	CHARACTER	1	ZJCOBJCT	Start of embedded object
12	(C)	X'A0'	0	ZJCSIZE	"*-ZJC" Size of the Zone Job Containter (ZJC) object.

Table 602. Structure ZJC

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ZJC	, ORG to the ZJC embedded
12	(C)	SIGNED	4	ZOD(0)	Zone Object Definition.

Table 602. Structure ZJC (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Linkage Pointers/Indexes : NOTE: - When the dependency network is being built, the pointers are used. The network is then instantiated in the checkpoint and the pointers are changed to indexes. - ZODIZJI is a single chain through ALL ZJI objects. Subsequent objects are chained via the ZJINXZJI field. - ZODIZDB is a single chain through ALL ZDB objects. Subsequent objects are chained via the ZJINXZJI field.			
16	(10)	ADDRESS	8	ZODNXZOD	Ptr/Index of next Zone Object Definition (ZOD).
24	(18)	ADDRESS	8	ZODIZJI	Ptr/Index of first object in Zone Job Identifier (ZJI) chain. Subsequent ZJIs are chained via the ZJINXZJI field.
32	(20)	ADDRESS	8	ZODIZDB	Ptr/Index of first object in Zone Dependency Block (ZDB) chain. Subsequent ZDBs are chained via the ZDBNXZDB field.
		ZJI counts - used in some cases to avoid a scan of ZODIZJI chain.			
40	(28)	SIGNED	2	ZODNZJI	Number of ZJIs in ZODIZJI chain (set when built).
42	(2A)	SIGNED	2	ZODNRZJI	Number of ZJIs in ZODIZJI that are associated with a job (maintained at runtime).
44	(2C)	SIGNED	2	ZODNCZJI	Number of ZJIs in ZODIZJI that are COMPLETE or FLUSHED (maintained at runtime).
46	(2E)	SIGNED	2	ZODNPURG	Number of ZJIs in ZODIZJI that are PURGED or FLUSHED (maintained at runtime).
		Timestamp - Set when we checkpoint the ZOD. NOTE: - Occupies the same 8 bytes as ZODBLDWK. This is OK because the ZODTSMP is only used in checkpointed ZODs and ZODBLDWK is only used for in-memory (build time) ZODs.			
48	(30)	DBL WORD	8	ZODTSMP	USED AT RUNTIME : Time when the job zone became 'active' (checkpointed).
		Pointer to ZOD build-time work area used to track Jobsets, unresolved dependencies, unresolved concurrent dependencies, etc... NOTE: - Occupies the same 8 bytes as ZODTSMP. This is OK because the ZODTSMP is only used in checkpointed ZODs and ZODBLDWK is only used for in-memory (build time) ZODs. - See structure JDBLDWRK in HASCJZDN to see what this pointer addresses.			
48	(30)	X'30'	0	ZODBLDWK	"ZODTSMP,8,C'D'" USED AT BUILD TIME: Pointer to temporary ZOD build-time work area.

Table 602. Structure ZJC (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Zone Object identification :			
56	(38)	CHARACTER	8	ZODNAME	Job Zone name.
64	(40)	SIGNED	4	ZODLJNUM	Job number and job key of
68	(44)	BITSTRING	4	ZODLJKEY	associated log job JQE.
		Job Zone Error expression : - When one of the jobs in the Job Zone results in an error, the ERROR= expression in ZODERREX is evaluated with the job's error information to determine if the job zone should stopped, suspended, or flushed. A boolean result is produced. - If boolean result is TRUE, the ONERROR= action (ZODONERR) is taken (see below). ZODERRA is set to the ZODONERR value. - If boolean result is FALSE, no action is taken.			
72	(48)	BITSTRING	64	ZODERREX	ERROR= RPN (Reverse Polish Notation) list Evaluated when one of the jobs in the network is in error.
136	(88)	BITSTRING	1	ZODERREL	ERROR= actual size of RPN (Reverse polish notstion) list
137	(89)	BITSTRING	1	ZODONERR	ONERROR= value. This is set to one of the ZODERRA values (STOP, SUSPEND, or FLUSH) when the ZOD is built.
137	(89)	X'40'	0	ZODERMAX	"64" ERROR= RPN list max size.
		Job Zone error action : - ZODERRA is set to the value of the ZODONERR ONERROR= value (STOP/SUSPEND/FLUSH) when : o The evaluation of the ZODERREX ERROR= expression is TRUE (see ZODERREX description above). o The result of a dependency ZDBWHENT WHEN= expression is FAIL (see ZDBWHENT description below). - The action taken in each case is : o If ZODERRA = ZODENOER (NOT IN ERROR): - The ZOD does not currently have an error condition. The network is running normally. o If ZODERRA = ZODESTOP (STOP) : - The ZOD is to be stopped. No new jobs in the network are allowed to run. Currently active jobs in the network are allowed to complete. o If ZODERRA = ZODESUSP (SUSPEND) : - The ZOD is to be suspended. New jobs that have their dependencies satisfied are allowed to continue. Jobs determined to be in error are considered to have NOT run. Thesee jobs can be resubmitted, and the errorstate is cleared if they run successfully. o If ZODERRA = ZODEFLSH (FLUSH) : - The ZOD is to be flushed. Currently executing jobs are cancelled, and no new jobs are started. Once there are no longer any jobs running, the network is marked complete.			
138	(8A)	BITSTRING	1	ZODERRA	ZOD error action.

Table 602. Structure ZJC (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		....		ZODENOER	"X'00'" Error Action = NOT IN ERROR
		1		ZODESTOP	"X'01'" Error Action = STOP
		.... ..1.		ZODESUSP	"X'02'" Error Action = SUSPEND
		11		ZODEFLSH	"X'03'" Error Action = FLUSH
		Zone Object Status :			
139	(8B)	BITSTRING	1	ZODSTAT	Status of the Job Zone
		....		ZOD_PEND	"X'00'" Job Zone Stat = PENDING
		1		ZOD_ACTI	"X'01'" Job Zone Stat = ACTIVE,INIT
		.... ..1.		ZOD_ACT	"X'02'" Job Zone Stat = ACTIVE
		11		ZOD_SUSI	"X'03'" Job Zone Stat = SUSPENDING
		.... .1..		ZOD_SUSD	"X'04'" Job Zone Stat = SUSPENDED
		.... .1.1		ZOD_HELD	"X'05'" Job Zone Stat = HELD
		.... .11.		ZOD_FLSH	"X'06'" Job Zone Stat = FLUSHING
		.... .111		ZOD_CANI	"X'07'" Job Zone Stat = CANCELLING
		.... 1...		ZOD_COMP	"X'08'" Job Zone Stat = COMPLETE
		1111 1111		ZOD_NOTF	"X'FF'" Job Zone Stat = ZOD_NOT_FND
		Indicators :			
140	(8C)	BITSTRING	1	ZODJQEF3	JQEFLAG3 (job type) of associated logging job.
		ZJI 'in error' list head and count :			
144	(90)	SIGNED	4	ZODERZJI	Ptr/Index of first ZJI that that is curently 'in error'. Subsequent ZJIs are chained via the ZJIERZJI field. (maintained at runtime)
148	(94)	SIGNED	2	ZODNUMER	Number of ZJIs in the ZODERZJI chain. (maintained at runtime)
150	(96)	BITSTRING	1	ZODRSVD	Reserved area (length of rest of ZJC object area)
150	(96)	X'A'	0	ZODRSVSZ	"*-ZODRSVD" Size of ZODRSVD.
150	(96)	X'A0'	0	ZODSIZE	"*-ZJC" Size of entire Zone Object Definition (ZOD) object - including ZJC header.

Table 603. Structure ZJC

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ZJC	, ORG to the ZJC embedded
12	(C)	SIGNED	4	ZJI(0)	Job Zone Identifier object.
		Linkage Pointers/Indexes : NOTE: - When the dependency network is being built, the pointers are used. The network is then instantiated in the checkpoint and the pointers are changed to indexes.			

Table 603. Structure ZJC (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
16	(10)	ADDRESS	8	ZJINXZJI	Ptr/Index of next ZJI in list of ALL ZJI objects. The chain head is field ZODIZJI in the ZOD object
24	(18)	ADDRESS	8	ZJIPZOD	Ptr/Index of the 'parent' Zone Job Definition (ZOD) object.
32	(20)	ADDRESS	8	ZJIJPZDB	Ptr/Index of first Zone Dependency Block (ZDB) in 'Job as Parent' chain.
40	(28)	ADDRESS	8	ZJIJDZDB	Ptr/Index of first Zone Dependency Block (ZDB) in 'Job as Dependent' chain.
48	(30)	ADDRESS	8	ZJINXCON	Ptr/Index of next concurrent Zone Job Identifier (ZJI) object.
	Build only Linkage Pointers/Indexes :				
56	(38)	ADDRESS	8	ZJINJSET	Ptr/Index of next Zone Job Identifier (ZJI) object. in a JOBSET chain.
	Associated job information :				
64	(40)	CHARACTER	8	ZJIJNAME	Job name.
72	(48)	SIGNED	4	ZJIJBNUM	Job number (JQEJBNUM) of associated job (zero if no JQE is registered to this ZJI yet).
76	(4C)	BITSTRING	4	ZJIJBKEY	Job key (JQEJBKEY) of associated job (zero if no JQE is registered to this ZJI yet).
	Associated jobset information (if any) :				
80	(50)	CHARACTER	8	ZJIJSNAM	Associated jobset name, if any (zero if none)
	Indicators :				
88	(58)	BITSTRING	1	ZJIFLAG1	General Indicators :
		1...		ZJI1ELIG	"B'10000000'" Job Eligibility Indicator : 0 = Job not eligible to be selected. 1 = Job eligible to be selected.
		.1..		ZJI1FACT	"B'01000000'" Flush Action Indicator : 0 = ALLFLUSH 1 = ANYFLUSH
		..1.		ZJI1PURG	"B'00100000'" Purge indicaor : 0 = The ZJI has not been purged. 1 = The ZJI has been purged.
		...1		ZJI1RESU	"B'00010000'" Resubmit indicator : 0 = The associated job is not a resubmit. 1 = The associated job is a resubmit
		.... 1...		ZJI1JREG	"B'00001000'" Register indicator : 0 = JQE was never registered 1 = JQE was at some time registered

Table 603. Structure ZJC (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		ZJI1STRT	"B'00000100'" Warm start indicator : Only pertinent during warm start. 0 = Corresponding job within concurrent set found not re-startable 1 = Corresponding job within concurrent set found to be re-startable
		.... ..1.		ZJI1DEFE	"B'00000010'" Warm start indicator : Only pertinent during warm start. 0 = Warm start has not been deffered for this warm start. 1 = Warm start has been deferred for warm start
89	(59)	BITSTRING	1	ZJIJQEF3	JQEFLAG3 (job type) of associated job. Only valid when a JQE has been registered to this ZJI (ZJIJBNUM is not zero).
		Job completion status :			
90	(5A)	BITSTRING	1	ZJISTAT	Zone Job Identifier status
		....		ZJI_PEND	"X'00'" ZJI Status = PENDING
		1		ZJI_ACTI	"X'01'" ZJI Status = ACTIVE
		.... ..1.		ZJI_COMP	"X'02'" ZJI Status = COMPLETE
		11		ZJI_FLSH	"X'03'" ZJI Status = FLUSHED
		.... .1..		ZJI_INER	"X'04'" ZJI Status = IN_ERROR
		Next in ZJI 'in error' list :			
92	(5C)	SIGNED	4	ZJIERZJI	Ptr/Index of next ZJI that is currently 'in error'. The chain head is field ZODERZJI in the ZOD object.
		Logging job info. Note that this info also exists in the ZOD (ZODLJNUM/ZODLJKEY) but is also put here for convenience.			
96	(60)	SIGNED	4	ZJILJNUM	Job number and job key of
100	(64)	BITSTRING	4	ZJILJKEY	associated log job JQE.

Table 603. Structure ZJC (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		'Concurrent Set Master Job' processing fields : THE FOLLOWING FIELDS ARE ONLY RELEVANT IF THIS ZJI IS THE 'MASTER ZJI' IN A CONCURRENT SET (THAT IS, THE ZJI2JGCM BIT IS SET). o ZJIMCJTS - 'Master Concurrent Job' Timestamp : - Set when WLM tells us that a 'concurrent set' of jobs CANNOT be processed. When this happens the 'master ZJI' will have this timestamp set and the corresponding JQE will reside on the $SETUP queue. In effect, the entire set will 'wait' until the MISC PCE, as part of it's normal processing, makes the decision whether or not to retry. It does this by simply comparing this value to the current time to see if a pre-determined interval has been exceeded. If so, WLM is queried again to see what (if any) member the set can execute on. o ZJIMCMID - 'concurrent set' job execution member. - The member that WLM informed us where all jobs in the 'concurrent set' can execute. A $SJ request was sent to this member and has not yet been service. MISC performs recovery processing should this member go down. A ZERO if not assigned yet or no qualified member currently exists. o ZJI2JGCM - 'concurrent set' master job indicator. - If ON, this ZJI is a nformed us where all jobs in the 'concurrent set' can execute. Will be o ZJI2JWLM - Concurrent job was sent to WLM. - If ON, this job associated with this ZJI (which is part of a 'concurrent set'), has a WLM initiator requested (via IWMBREQ), to be selected by job id. o ZJIJSRET - Concurrent Set selection failure return code (ZERO IF NONE). - If set, selection processing rejected the set			
		and this return code denotes why. Used by internal processing to generate messages, etc.. o ZJIJSRET - Concurrent Set selection failure return code (ZERO IF NONE).			
104	(68)	DBL WORD	8	ZJIMCJTS	USED AT RUNTIME : Time when the 'master concurrent job' was placed back on $SETUP.
112	(70)	BITSTRING	1	ZJIMCMID	USED AT RUNTIME : WLM-assigned member where the 'concurrent set' can execute. A $SJ has been sent to this member - MISC performs recovery processing.
113	(71)	BITSTRING	1	ZJIFLAG2	Concurrent Set Indicators :
		1...		ZJI2JGCM	"B'10000000'" Concurrent set Master ZJI : 1 = The ZJI is the master ZJI in a concurrent set of jobs (the set is defined by the ZJINXCON chain).

Table 603. Structure ZJC (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		ZJI2JWLM	"B'01000000'" Concurrent job sent to WLM: 1 = The associated job was sent to WLM via a IWMBREQ (select by job ID) request.
		..1.		ZJI2JCAN	"B'00100000'" Concurrent job set cancel: 1 = The associated job was scheduled to be cancelled as part of a concurrent set cancel
		...1		ZJI2POST	"B'00010000'" Corresponding job is in post execution
114	(72)	BITSTRING	1	ZJIJSRET	Saved 'return code' that denotes why this job set cannot execute (ZERO IF NONE). Used by internal processing to generate messages. See routine JDNPCON in HASCJZDN and relevant SCONSE__ codes in $ZJC.
		'Concurrent Set Job' processing fields : THE FOLLOWING FIELDS ARE ONLY RELEVANT IF THIS ZJI IS A JOB IN A CONCURRENT SET (THAT IS, THE ZJINXCON CHAIN IS SET). o ZJISTOK/ZJIWSCN - Service class name and token. - Set when a job in a concurrent set is initially registered. We initially 'force' the service class of ALL jobs in the set to the class of the first job to be registered. As a side effect, we also save the service class/token here in the ZJI.			
115	(73)	BITSTRING	1	ZJISYSID	System ID of where associated concurrent WLM initiators were scheduled via $DCONSET and IWMBREQ.
116	(74)	BITSTRING	4	ZJISTOK	Service class token
120	(78)	CHARACTER	8	ZJIWSCN	Service class Queue Name
		JQXMAXRC value the last time an associated job 'completed'. - NOTES : - Could also be a default MAXRC value if the job was flushed and never ran.			
128	(80)	BITSTRING	4	ZJIMAXRC	MAXRC of associated job 'completed' job (or default MAXRC if the job was flushed).
132	(84)	SIGNED	4	ZJIMASZJ	Ptr/Index of Master ZJI if this ZJI contained within a concurrent set.
136	(88)	BITSTRING	1	ZJIRSVD	Reserved area (length of rest of ZJC object area)
136	(88)	X'18'	0	ZJIRSVSZ	"*-ZJIRSVD" Size of ZJIRSVD.
136	(88)	X'A0'	0	ZJISIZE	"*-ZJC" Size of entire Zone Job Identifier (ZJI) object - including ZJC header.

$ZJC mapping

Table 604. Structure ZJC

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ZJC	, ORG to the ZJC embedded
12	(C)	SIGNED	4	ZDB(0)	Zone Dep Block object.
		Dependency Status. The dependency can have two states : - PENDING - The parent job has not run or flushed. - COMPLETE- The parent job has been run or flushed.			
12	(C)	BITSTRING	1	ZDBSTAT	Zone Dep Block status.
		....		ZDB_PEND	"X'00'" ZDB Status = PENDING
		1		ZDB_COMP	"X'01'" ZDB Status = COMPLETE
		Dependent Job end action : - ZDBDEPEA is set to SATISFY/FLUSH/FAIL as the result of evaluating WHEN=/ENDACTION=/OTHERWISE= (see ZDBWHENT and description below) : o If ZDBDEPEA = ZDBDSAT (SATISFY) : - The dependency is satisfied. The dependent job can run. o If ZDBDEPEA = ZDBDFLSH (FLUSH) : - The dependent job should be flushed. o If ZDBDEPEA = ZDBDFAIL (FAIL) : - The entire execution zone is marked in error and the appropriate execution zone error action is taken (see ZODTEROP).			
13	(D)	BITSTRING	1	ZDBDEPEA	Dependency complete action.
		....		ZDBDSAT	"X'00'" Complete Action = SATISFY
		1		ZDBDFLSH	"X'01'" Complete Action = FLUSH
		.... ..1.		ZDBDFAIL	"X'02'" Complete Action = FAIL
14	(E)	BITSTRING	2	ZDBRSVD1	Reserved
		Linkage indexes : NOTE: - When the dependency network is being built, the pointers are used. The network is then instantiated in the checkpoint and the pointers are changed to indexes.			
16	(10)	ADDRESS	8	ZDBNXZDB	Ptr/Index of next ZDB in list of ALL ZDB objects. The chain head is field ZODIZDB in the ZOD object
		Linkage indexes and info for parent job : NOTE: - When the dependency network is being built, the pointers are used. The network is then instantiated in the checkpoint and the pointers are changed to indexes.			
24	(18)	CHARACTER	8	ZDBPRNAM	Parent job name.
32	(20)	ADDRESS	8	ZDBPRZJI	Ptr/Index of parent Zone Job Identifier (ZJI) for 'job as parent' chain.
40	(28)	ADDRESS	8	ZDBPRNXT	Ptr/Index of next Zone Dependency Block (ZDB) in 'Job as Parent' chain (could be zero).

Table 604. Structure ZJC (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		Linkage indexes and info for dependent job : NOTE: - When the dependency network is being built, the pointers are used. The network is then instantiated in the checkpoint and the pointers are changed to indexes.			
48	(30)	CHARACTER	8	ZDBDENAM	Dependent job name.
56	(38)	ADDRESS	8	ZDBDEZJI	Ptr/Index of dependent Zone Job Identifier (ZJI) for 'job as dependent' chain.
64	(40)	ADDRESS	8	ZDBDENXT	Ptr/Index of next Zone Dependency Block (ZDB) in 'Job as dependent' chain (could be zero).
		WHEN= parent end job boolean expression : - Once the dependency is marked complete (that is, the parent job has been run/flushed and ZDBSTAT is set to ZDB_COMP), the WHEN= expression is evaluated with the parent job's return code and/or ABEND code to determine a boolean result. - If boolean result is TRUE, the ENDACTION= action (ZDBENDA) is taken (see below). ZDBDEPEA is set to the ZDBENDA value. - If boolean result is FALSE, the OTHERWISE= action (ZDBOTHA) is taken (see below). ZDBDEPEA is set to the ZDBOTHA value.			
72	(48)	BITSTRING	64	ZDBWHENT	WHEN= text string - Evaluated when the parent job completes.
136	(88)	BITSTRING	1	ZDBWHENL	WHEN= actual size of RPN (Reverse polish notstion) list.
137	(89)	BITSTRING	1	ZDBENDA	ENDACTION= value. This is set to one of the ZDBDEPEA values (SATISFY, FLUSH, or FAIL) when the dependency is built. Default is SATSIFY
138	(8A)	BITSTRING	1	ZDBOTHA	OTHERWISE= value. This is set to one of the ZDBDEPEA values (SATISFY, FLUSH, or FAIL) when the dependency is built. Default is FLUSH.
138	(8A)	X'40'	0	ZDBWHMAX	"64" WHEN= RPN list max size.
		Logging job info. Note that this info also exists in the ZOD (ZODLJNUM/ZODLJKEY) but is also put here for convenience.			
140	(8C)	SIGNED	4	ZDBLJNUM	Job number and job key of
144	(90)	BITSTRING	4	ZDBLJKEY	associated log job JQE.
148	(94)	BITSTRING	1	ZDBRSVD	Reserved area (length of rest of ZJC object area)
148	(94)	X'C'	0	ZDBRSVSZ	"*-ZDBRSVD" Size of ZDBRSVD.
148	(94)	X'A0'	0	ZDBSIZE	"*-ZJC" Size of entire Zone Dependency) Block (ZDB) object - including ZJC header.

Table 605. Structure JDBLDWRK

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDBLDWRK	, ZOD build work area.
0	(0)	ADDRESS	8	JDWURCON	Ptr to first dependency (ZDB) in the unresolved concurrent dependency list.
8	(8)	ADDRESS	8	JDWURDEP	Ptr to first dependency (ZDB) in the unresolved dependency list.
16	(10)	ADDRESS	8	JDWCIFST	Ptr to first parent/child pair in the circular dependency resolution array.
24	(18)	ADDRESS	8	JDWCILST	Ptr to last parent/child pair in the circular dependency resolution
32	(20)	SIGNED	4	JDWCIRNM	Number of entries in circular dependency resolution array.
36	(24)	BITSTRING	1	JDWFLAG1	Flag bits.
		1...		JDF1JMAX	"B'10000000'" The nubmer of jobs in this ZOD exceeded the defined maximum ($ZODJNUM).
		.1..		JDF1CMAX	"B'01000000'" At least one concurrent set of jobs in this ZOD exceeded the defined maximum ($CONJNUM).
40	(28)	DBL WORD	8	(0)	Force double word alignment
40	(28)	BITSTRING	0	JDWJBSET(0)	Job set array. An array of JDJSETEL elements (see below).
1576	(628)	BITSTRING	0	JDWUNRER(0)	Unresolved dependency error array. An array of JDWERROR elements (see below).
1832	(728)	BITSTRING	0	JDWDUPER(0)	Duplicate dependency error array. An array of JDWERROR elements (see below).
2088	(828)	BITSTRING	0	JDWCIRER(0)	Circular dependency error array. An array of JDWERROR elements (see below).
2344	(928)	SIGNED	8	JDWSAVR1(16)	64 bit GPR save area 1
2472	(9A8)	SIGNED	8	JDWSAVR2(16)	64 bit GPR save area 2
2600	(A28)	BITSTRING	1	JDWWHEN	WHEN= work area
2600	(A28)	X'BAF'	0	JDWLEN	"*-JDBLDWRK" Length ZOD build work area.

Table 606. Structure JDJSETEL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDJSETEL	, Job Set work element
0	(0)	CHARACTER	8	JDJSNAME	Job Set Name
8	(8)	BITSTRING	1	JDJSSTAT	Job Set Status :
		....		JDJS_INT	"X'00'" Job set not created yet.
		1		JDJS_CRE	"X'01'" Job Set is created
		.... ..1.		JDJS_END	"X'02'" Job Set is complete.
9	(9)	BITSTRING	7		Reserved

Table 606. Structure JDJSETEL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
16	(10)	ADDRESS	8	JDJSZJIP	Pointer to first job (ZJI) in the job list for this Job Set. The ZJIs in this chain use field ZJINJSET.
16	(10)	X'18'	0	JDJSETLN	"*-JDJSETEL" Length of JDJSETEL element.
16	(10)	X'40'	0	JDJSNUME	"64" Number of JDJSETEL elements in JDWJBSET jobset array.

Table 607. Structure JDWERROR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDWERROR	, Job Set work element
0	(0)	CHARACTER	8	JDERPARN	Parent job name
8	(8)	CHARACTER	8	JDERDEPN	Dependent job name
8	(8)	X'10'	0	JDWERRLN	"*-JDWERROR" Length of JDWERROR element.
8	(8)	X'10'	0	JDERUNRN	"16" Number of JDWERROR elements in JDWUNRER error array.
8	(8)	X'10'	0	JDERDUPN	"16" Number of JDWERROR elements in JDWDUPER error array.
8	(8)	X'10'	0	JDERCIRN	"16" Number of JDWERROR elements in JDWCIRER error array.

Table 608. Structure JDWHENWK

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDWHENWK	, When work area
		Following ptrs related to WHEN= ERROR= processing. Operation stack and RPN -> Reverse polish notation list. Also addr of last byte in WHEN= ERROR string. Note: in comments WHEN also denotes ERROR.			
0	(0)	ADDRESS	8	JDCURPTR	Ptr to current WHEN=/ERROR= char being processed
8	(8)	ADDRESS	8	JDSTKTOP	Pointer to stack top
16	(10)	ADDRESS	8	JDSTKSTR	Ptr to start of operator stack
24	(18)	ADDRESS	8	JDSTKEND	Ptr to last enrty possible in operator stack
32	(20)	ADDRESS	8	JDRPNFST	Ptr to start of when=/ERROR RPN list being built
40	(28)	ADDRESS	8	JDRPNNXT	Ptr to next byte to populate in RPN list
48	(30)	ADDRESS	8	JDRPLAST	Ptr to last byte in RPN list
56	(38)	ADDRESS	8	JDWHFRST	Ptr to first character in WHEN= or ERROR= string
64	(40)	ADDRESS	8	JDWHLAST	Ptr to last byte in WHEN= or ERROR= string
72	(48)	DBL WORD	8	JRWDBONE	Dword work area 1 PACK etc.
80	(50)	DBL WORD	8	JRWDBTWO	Dword work area 2
88	(58)	BITSTRING	1	JRWFLAG1	Flag 1

Table 608. Structure JDWHENWK (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		JRONLYOP	"B'10000000'" Since last '(' only operators encountered. Anything - other than an operator will negate this condition. Used to catch (!)!RUN - we must avoid pushing (!) to RPN list prematurely.
89	(59)	BITSTRING	7		Reserved
96	(60)	BITSTRING	16	JDPARSE	Structure used to parse WHEN= and ERROR=
112	(70)	BITSTRING	16	JDWELEME	Work area used to build RPN list
128	(80)	CHARACTER	64	JDRPNLST	Built RPN list - eventually stored in checkpoint
192	(C0)	SIGNED	4	JDRPNSIZ	Number of bytes in built RPN list
196	(C4)	BITSTRING	1	JLASTPRO	Last processed (Successfully)
196	(C4)	X'1'	0	JLOGICAL	"x'01'" Logical operator
196	(C4)	X'2'	0	JDIGIT	"x'02'" Digit
196	(C4)	X'3'	0	JJCLVAR	"x'03'" JCLVAR
196	(C4)	X'4'	0	JABENCOD	"x'04'" ABENDCC code
196	(C4)	X'5'	0	JLEFTPAR	"x'05'" Left paren
196	(C4)	X'6'	0	JRIGHPAR	"x'06'" Right paren
196	(C4)	X'7'	0	JUNDEFIN	"x'07'" Undefined
197	(C5)	BITSTRING	1	JWHSTK	Operator stack
197	(C5)	X'C0'	0	JWSTKLEN	"(96*JOSTELLN)" Stack length
389	(185)	BITSTRING	1	JWORKSTK	Work stack entry
389	(185)	X'187'	0	JDWHLEN	"*-JDWHENWK" Length of WHEN=/ERROR= work area
WLM constants					
389	(185)	X'1E'	0	JDWLMTIM	"30" Number of seconds concurrent-set sits on SETUP queue before being re-evaluated from a WLM perspective.

Table 609. Structure JPARSEST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JPARSEST	, Parsing structure
0	(0)	CHARACTER	8	JDJCLVAR	BDY(DWORD) JCLVAR parse buffer
8	(8)	BITSTRING	1	JDWCUTYP	JCLVAR type
8	(8)	X'0'	0	JDNOJCLV	"x'00'" No JCLVAR active
8	(8)	X'4'	0	JCRC	"x'04'" RC
8	(8)	X'8'	0	JCRUN	"x'08'" RUN
8	(8)	X'C'	0	JCABENCC	"x'0C'" ABENDCC
8	(8)	X'10'	0	JCABEND	"x'10'" ABEND
9	(9)	BITSTRING	1	JDWOPRTY	Operator last encountered See equates below - range NOTOPER to OROPER
		....		JDWNOOPR	"X'00'" No operator active
10	(A)	BITSTRING	1	JDVARSTS	JCLVAR status
10	(A)	X'0'	0	JDNOCOMP	"x'00'" JCLVAR not complete

Table 609. Structure JPARSEST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
10	(A)	X'1'	0	JDVCOMPL	"x'01'" JCLVAR is valid and complete
11	(B)	CHARACTER	3	JDWOPER	Operator parse buffer
14	(E)	BITSTRING	2		QWORD alignment
14	(E)	X'10'	0	JPARSLNG	"*-JDJCLVAR" Parse structure length

Table 610. Structure JDPERTSK

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDPERTSK	, Operation stack element
0	(0)	BITSTRING	1	JDPTYPE	Operation type - see above
1	(1)	BITSTRING	1	JOPPREC	Operator precedence
1	(1)	X'2'	0	JOSTELLN	"*-JDPERTSK" Length of stack element

Table 611. Structure JRPNELEM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JRPNELEM	, RPN list element
0	(0)	BITSTRING	1	JDELEMID	RPN element identifier
		.... .1..		JDWRC	"X'04'" RC JCLVAR
		.... 1...		JDWRUN	"X'08'" RUN JCLVAR
		.... 11..		JDABENCC	"X'0C'" ABENDCC JCLVAR
		...1		JDWABEND	"X'10'" ABEND JCLVAR
		...1 .1..		JDSYSID	"X'14'" Sys abend code for ABENDCC
		...1 1...		JDUSRID	"X'18'" USER abend code - ABENDCC
		...1 11..		JDNUMID	"X'1C'" Integer for RC
		..1.		NOTOPER	"X'20'" ¬
		..1. .1..		GTOPER	"X'24'" >
		..1. 1...		LTOPER	"X'28'" <
		..1. 11..		NGTOPER	"X'2C'" ¬>
		..11		NLTOPER	"X'30'" ¬<
		..11 .1..		EQOPER	"X'34'" =
		..11 1...		NEQOPER	"X'38'" ¬=
		..11 11..		GTEOPER	"X'3C'" >=
		.1..		LTEOPER	"X'40'" <=
		.1.. .1..		ANDOPER	"X'44'" & and
		.1.. 1...		OROPER	"X'48'" | or
		.1.. 11..		LEFTPAR	"X'4C'" Left paren - not in RPN list - but could be in operation stack when building RPN. Also used for RPN -> INFIX notation
		.1.1		RIGHPAR	"X'50'" Right paren - not in RPN. Used for RPN -> INFIX notation.
		....		HEXZERO	"X'00'" Used only for processing INFIX stack elements
		.111		JENDMARK	"X'70'" End of list marker

Table 611. Structure JRPNELEM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'1'	0	JENDLLEN	"*-JDELEMID" Length of end list elem
0	(0)	X'1'	0	JDJCLLEN	"*-JDELEMID" Lengh of JCLVAR element
0	(0)	X'1'	0	JOPELLEN	"*-JDELEMID" Length of operator list element
1	(1)	BITSTRING	2	JADDINFO	Addtional data for element IDs - JDSYSID, JDUSRID and JDNUMID
1	(1)	BITSTRING	1	JDSYSCOD	Actual system abend code
1	(1)	X'3'	0	JDSYSLEN	"*-JDELEMID" Length of system abend elem
1	(1)	BITSTRING	1	JDUSRCOD	User abend code
1	(1)	X'3'	0	JDUSRLEN	"*-JDELEMID" Length of user abend elem
1	(1)	BITSTRING	1	JDNUMVAL	Integer for RC=
1	(1)	X'3'	0	JDNUMLEN	"*-JDELEMID" Length of integer elem
1	(1)	X'4'	0	JXMAXRL	"4" Maximun number of digits for RC= integer

Table 612. Structure JRMAXRC

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JRMAXRC	, MAXRC dsect
0	(0)	BITSTRING	4	JDMAXRC(0)	Maximum Job Return Code
0	(0)	BITSTRING	1	JDMXIND	Job completion indicator
1	(1)	BITSTRING	3	JDMAXCC	Completion code
1	(1)	X'4'	0	JDMAXLN	"*-JRMAXRC" Length of MAXRC
		Character type returned via TRT in support of WHEN= and ERROR=. See WHENTRAN translate table in HASCJZDN.			
1	(1)	X'0'	0	INVALID	"0" Invalid character
1	(1)	X'1'	0	DIGIT	"1" 0-9
1	(1)	X'2'	0	LETTER	"2" Upper case alphabetic character: A .. Z
1	(1)	X'3'	0	OPERATOR	"3" Operator character: ¬, <, >, =, &, |
1	(1)	X'4'	0	LFTPA	"4" Left paren
1	(1)	X'5'	0	RGHPA	"5" Right paren

Table 613. Structure JDINWRKA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDINWRKA	, INFIX work area
0	(0)	ADDRESS	8	JDINBUF@	Ptr to caller buffer
8	(8)	ADDRESS	8	JDISKSTR	Ptr to start of stack
16	(10)	ADDRESS	8	JDISTEND	Addr of last possible elem
24	(18)	ADDRESS	8	JDISTFND	Addr of last stack element found
32	(20)	ADDRESS	8	JDISTTOP	Ptr to stack top
40	(28)	ADDRESS	8	JDPOPELM	Ptr to POP'ed stack element

Table 613. Structure JDINWRKA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
48	(30)	ADDRESS	8	JDPUSHEL	Ptr to element to push
56	(38)	ADDRESS	8	JDELEME@	Input element - ELEPREND
64	(40)	DBL WORD	8	JRWRDWRD	Double word - work area #1
72	(48)	BITSTRING	16	JRWORK16	Double word - work area #2
88	(58)	CHARACTER	128	JDWKENT1	Work stack entry #1
216	(D8)	CHARACTER	128	JDWKENT2	Work stack entry #2
344	(158)	SIGNED	4	JDLOWPRE	Lowest operator precedence found in supplied stack element. (1,2,3) with 3 the highest
348	(15C)	SIGNED	4	JDELMBYT	Number of bytes (of tokens) within element passed to subroutine ELEPREND
352	(160)	SIGNED	4	JDEL1LEN	Length of element #1
356	(164)	SIGNED	4	JDEL2LEN	Length of element #2
360	(168)	BITSTRING	1	JDNFLAG1	Flag1
		1...		JDPAREN	"B'10000000'" Parenthesis is required
		.1..		JDFNDAND	"B'01000000'" Routi ELEPREND found AND(&)
		..1.		JDFNDOR	"B'00100000'" Routi ELEPREND found OR(|)
361	(169)	BITSTRING	1	JDINSTK	INFIX stack
361	(169)	X'3000'	0	JDSTLEN	"(96*JDSTELLN)"
361	(169)	X'80'	0	JDELMLEN	"128" Length of stack element
361	(169)	X'3169'	0	JDIWRLEN	"*-JDINWRKA" INFIX work area length

Table 614. Structure JDINSTKE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDINSTKE	, INFIX stack element defined
0	(0)	CHARACTER	1	JDINENT	Actual element
0	(0)	X'80'	0	JDSTELLN	"*-JDINSTKE" Length of stack element

Table 615. Structure JDCIRENT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDCIRENT	, Circular dependency array element
0	(0)	CHARACTER	8	JDCIRPAR	Parent JOB name
8	(8)	CHARACTER	8	JDCIRDEP	Dependent JOB name
0	(0)	CHARACTER	16	JDCIRZAP	to allow zapping both
16	(10)	BITSTRING	1	JDCFLAG1	Circular FLAG1
		1...		JDCNOMSG	"B'10000000'" This dependency - even though left in circular dependency array - must not generate a message.
16	(10)	X'11'	0	JDCIRLEN	"*-JDCIRENT" Bytes in array entry

Table 615. Structure JDCIRENT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
16	(10)	X'1388'	0	JDCARRYN	"5000" Number of initial elements within circular dependency detection array
16	(10)	X'14C08'	0	JDARRYLN	"(JDCARRYN*JDCIRLEN)" Number of bytes within initial circular depend detection array

Table 616. Structure JDPCDATA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDPCDATA	, Affinity - WLM job tokens
0	(0)	BITSTRING	4	JDPCCAFF	Composite affinity mask for ALL jobs in the concurrent set. If ZERO, no members exist that can run ALL of the jobs.
4	(4)	SIGNED	4	JDPCRTCD	RETURN CODE : If non-zero, denotes why this job set cannot execute. See routine JDNPCON in HASCJZDN, and relevant SCONSE__ codes in $ZJC.
8	(8)	SIGNED	4	JDPCJBTK	Total number of WLM job tokens (JDPCWLMT) in the token array (starting at JDPCTOKA).
12	(C)	SIGNED	4	JDPCTLEN	Total size of the structure (for $FREMAIN).
16	(10)	SIGNED	4	JDPCCURT	SHOULD NOT BE USED. The current number of WLM job tokens. Used while building this structure.
20	(14)	SIGNED	2	JDPCTOKA(0)	Start of the 'WLM job token' (JDPCWLMT) array. There are JDPCJBTK elements in the array.
20	(14)	X'14'	0	JDPCFLEN	"*-JDPCDATA" Length of fixed portion of structure (what follows is the JDPCTOKA 'WLM job token' array).

Table 617. Structure JDPCWLMT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDPCWLMT	, WLM job token
0	(0)	SIGNED	4	JDPCJNUM	JQE Job Number (JQEJBNUM)
4	(4)	BITSTRING	4	JDPCJKEY	JQE Job ID (JQEJBKEY)
4	(4)	X'8'	0	JDPCWLEN	"*-JDPCWLMT" Length of WLM job token

Table 618. Structure MZODHDR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MZODHDR	, MZOD header data
0	(0)	CHARACTER	4	MZDEYEC	Eyecatcher for MZOD
4	(4)	CHARACTER	8	MZDZODNM	Job group name

Table 618. Structure MZODHDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
12	(C)	CHARACTER	11	MZDZODST(0)	Job group status fields
12	(C)	BITSTRING	1	MZDSTAT	Job group status
13	(D)	BITSTRING	1	MZDFLAG1	MZOD Flag byte
		1...		MZD1MAXO	"B'10000000'" MZOD storage full cond
		.1..		MZD1ERIN	"B'01000000'" ERROR= is INFIX format
14	(E)	BITSTRING	1		Reserved
15	(F)	CHARACTER	8	MZDSTABN	STABNAME from scantab entry requesting MZOD data
23	(17)	BITSTRING	1	MZDZODOE	Job group ONERROR ind
24	(18)	BITSTRING	0	MZDERREX(0)	ERROR= expression text - Evaluated when one of the jobs in the network is in error.
24	(18)	SIGNED	4	MZDERRLN	ERROR= buffer length
28	(1C)	BITSTRING	0	MZDERRBF(0)	ERROR= buffer
28	(1C)	ADDRESS	4	MZDERRBA	ERROR= address of INFIX notation storage
32	(20)	ADDRESS	4	MZDIFCHN	Address of INFIX notation storage block chain
36	(24)	ADDRESS	4	MZDSCWA	Address of SCWA, if any
Parameter list for DISGETIF routine					
40	(28)	BITSTRING	16	MZDIFPAR(0)	PRINT_RPN parameter list
40	(28)	ADDRESS	4	MZDIFRPN	Address of input RPN
44	(2C)	SIGNED	4	MZDIFRPL	Length of input RPN
48	(30)	ADDRESS	4	MZDIFBUF	Address of output INFIX notation buffer
52	(34)	SIGNED	4	MZDIFBFL	Length of output INFIX notation buffer
56	(38)	BITSTRING	1		Reserved for ERROR=
50 characters is the max size hex conv SCAN can do					
72	(48)	SIGNED	4	MZDERREL	ERROR= text actual size in MZDERREX.
76	(4C)	BITSTRING	4		Reserved
80	(50)	SIGNED	2	MZDZODEN(0)	Start of job info entries
80	(50)	X'50'	0	MZODHDRL	"*-MZODHDR" Length of MZOD header data

Table 619. Structure MZODJOB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MZODJOB	, MZOD network job data
0	(0)	BITSTRING	1	MZDJOBTY	Job info record type
		1...		MZODJOBN	"B'10000000'" Network job record type
		.1..		MZODJOBC	"B'01000000'" Concurrent job record typ
		..1.		MZODJOBP	"B'00100000'" Parent job record type
		...1		MZODJOBE	"B'00010000'" Dependent job record type through job entries

Table 619. Structure MZODJOB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		MZODJOBD	"B'00001000'" Dependent job record type through dependency ent
		.... .1..		MZODJOBI	"B'00000100'" Job in error record type
		....		MZODDUPE	"B'00000000'" Duplicate entry - no dsp
1	(1)	BITSTRING	1	MZDENDAC	End action
2	(2)	BITSTRING	1	MZDOTHWS	Otherwise action
3	(3)	BITSTRING	1	MZDWHNLN	WHEN= text length
4	(4)	CHARACTER	8	MZDJOBNM	Network job name
12	(C)	CHARACTER	8	MZDJOBID	Network job ID (or NONE)
20	(14)	CHARACTER	8	MZDJOBST(0)	Network job status
20	(14)	BITSTRING	1	MZDJBST1	Status Indicator Flag 1
		1...		MZDJBNRG	"B'10000000'" Job not registered yet
		.1..		MZDJBACT	"B'01000000'" ACTIVE, executing
		..1.		MZDJBRDY	"B'00100000'" QUEUED, ready to run
		...1		MZDJBNEL	"B'00010000'" NOT ELIG to run
		.... 1...		MZDJBDEP	"B'00001000'" PEND DEP on other jobs
		.... .1..		MZDJBHLD	"B'00000100'" HELD in some manner
		.... ..1.		MZDJBDLY	"B'00000010'" DELAYED in some manner
		1		MZDJBCLS	"B'00000001'" CLASSHLD
21	(15)	BITSTRING	1	MZDJBST2	Status Indicator Flag 2
		1...		MZDJBJQE	"B'10000000'" No JQE found
22	(16)	BITSTRING	1	MZDJBQUE	Job's JQETYPE
23	(17)	BITSTRING	1	MZDJBFG1	Job's Flag 1
24	(18)	BITSTRING	1	MZDJBSTC	Job's Completion Status (ZJISTAT) or Dependent Job Action (ZDBDEPEA)
25	(19)	BITSTRING	1	MZDJBSTD	Job's Dependency Status
26	(1A)	BITSTRING	1	MZDENTF1	MZOD Entry Flag 1
		1...		MZD1WHIN	"B'10000000'" WHEN= is INFIX format
27	(1B)	BITSTRING	1	MZDJBSTR	Reserved
28	(1C)	CHARACTER	8	MZDJOBAN	Associated job name. Can be Concurrent job name, or Child job name, or Parent job name, depending on record type
36	(24)	BITSTRING	0	MZDWHNEX(0)	WHEN= expression text - Evaluated when the parent job completes.
36	(24)	SIGNED	4	MZDWHNLE	WHEN= buffer length
40	(28)	ADDRESS	4	MZDWHNBA	WHEN= address of INFIX notation storage
40	(28)	X'2C'	0	MZODJOBL	"*-MZODJOB" Length of MZOD network job data

Table 619. Structure MZODJOB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
40	(28)	X'5CE'	0	MZODJOBM	"((((65535-8-8)-MZODHDRL)/ MZODJOBL)-1)" Maximum number of MZOD entries. x'FFFF'-8 for temp cb hdr minus 8 more for rounding minus MZOD header divided by MZOD entry len minus 1 entry fudge
40	(28)	X'FFB8'	0	MZODFULL	"MZODHDRL+(MZODJOBL*MZODJOBM)" Size of full MZOD
40	(28)	X'FFF7'	0	MZODSIZE	"(65535-8)" Size of temp CB allocated by SCAN

Table 620. Structure MZDERROR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MZDERROR	, MZOD ERROR entry
0	(0)	BITSTRING	1	MZDERRTX	ERROR= expression text - Evaluated when one of the jobs in the network is in error.

Table 621. Structure MZDWHEN

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MZDWHEN	, MZOD WHEN entry
0	(0)	BITSTRING	1	MZDWHNTX	WHEN= expression text - Evaluated when one of the jobs in the network is in error.

Table 622. Structure MZDINFIX

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MZDINFIX	, MZOD INFIX storage block
0	(0)	CHARACTER	4	MZDINEYE	Eyecatcher for MZOD INFIX
4	(4)	SIGNED	4	MZDINLEN	Size of MZIF block
8	(8)	ADDRESS	4	MZDINNXT	Address of next MZIF block
12	(C)	ADDRESS	4	MZDINOFF	Offset in this MZIF to free storage
16	(10)	SIGNED	4	MZDINREM	Size of remaining free storage in this MZIF blk
20	(14)	BITSTRING	12		Reserved
20	(14)	X'20'	0	MZDINHLN	"*-MZDINFIX" Length of MZIF header data
32	(20)	SIGNED	4	MZDINDTA(0)	Start of INFIX notation data

Table 623. Structure CONC1201

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CONC1201	, HASP1201 parms

Table 623. Structure CONC1201 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	CHARACTER	8	CONCNAM	Job name associated with concurrent set
8	(8)	CHARACTER	8	CONCGRP	Associated job group
16	(10)	BITSTRING	1	CONTYPE	Message type to cut
		1...		CONEXEC	"B'10000000'" Concurrent set queued for execution
		.1..		CONDELAY	"B'01000000'" Concurrent set delayed for user correctable reason
		..1.		CONERROR	"B'00100000'" Concurrent set delayed due to APARable situation
17	(11)	BITSTRING	1	CONREASO	Reason for delay
17	(11)	X'12'	0	CONLENGT	"*-CONC1201" Length of CONC1201
		Return codes for selection/non-selection of a a concurrent set of jobs for execution. See routine $DCONSET in HASPXEQ. For any ID marked INTERNAL ERROR - a DISTERR has been cut and the corresponsing message will denote internal error.			
17	(11)	X'0'	0	SCONSE00	"0" Success no wait
17	(11)	X'1'	0	SCONSE01	"1" WITH= selection failed for a job in the set
17	(11)	X'2'	0	SCONSE02	"2" INTERNAL ERROR: Input master JQA is not valid
17	(11)	X'3'	0	SCONSE03	"3" All jobs not within same service class
17	(11)	X'4'	0	SCONSE04	"4" INTERNAL ERROR: Job key of ZJI in set does not match corresponding JQA
17	(11)	X'5'	0	SCONSE05	"5" INTERNAL ERROR: JQA or CAT could not be created for a job in the set
17	(11)	X'6'	0	SCONSE06	"6" INTERNAL ERROR: Job within set is not a batch job
17	(11)	X'7'	0	SCONSE07	"7" INTERNAL ERROR: Job within set is held for ARM
17	(11)	X'8'	0	SCONSE08	"8" Job in set is held
17	(11)	X'9'	0	SCONSE09	"9" Job within set is marked BUSY
17	(11)	X'A'	0	SCONSE10	"10" INTERNAL ERROR: Non-master job in the set not on the $SETUP queue
17	(11)	X'B'	0	SCONSE11	"11" No active members available to select
17	(11)	X'C'	0	SCONSE12	"12" A job in the set is marked as 'not eligible to be selected' (the job group is most likely 'stopped').
17	(11)	X'D'	0	SCONSE13	"13" Reserved for future use.
17	(11)	X'E'	0	SCONSE14	"14" Reserved for future use.
17	(11)	X'F'	0	SCONSE15	"15" Set cannot run due to job affinity (JQESAF)
17	(11)	X'10'	0	SCONSE16	"16" Set cannot run due to SECLABEL affinity (JQASCLAF)

Table 623. Structure CONC1201 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
17	(11)	X'11'	0	SCONSE17	"17" Set cannot run due to scheduling environ affinity (JQASCHAF)
17	(11)	X'12'	0	SCONSE18	"18" Set cannot run due to spools used mask (JQASUMSK)
17	(11)	X'13'	0	SCONSE19	"19" One of the jobs is locked
17	(11)	X'14'	0	SCONSE20	"20" No members available to select work based on associated job class member affinity
17	(11)	X'15'	0	SCONSE21	"21" No members available to select work based on associated job class MAX job limits
17	(11)	X'16'	0	SCONSE22	"22" Reserved for future use.
17	(11)	X'17'	0	SCONSE23	"23" INTERNAL ERROR: Input Master does not have a ZJI index
17	(11)	X'18'	0	SCONSE24	"24" Member(s) not selectable due to $P or non-boss status
17	(11)	X'19'	0	SCONSE25	"25" INTERNAL ERROR: Could not obtain a WSC
17	(11)	X'1A'	0	SCONSE26	"26" Minimum BCP level not avail
17	(11)	X'1B'	0	SCONSE27	"27" INTERNAL ERROR: IWMBLOC parameter error
17	(11)	X'1C'	0	SCONSE28	"28" INTERNAL ERROR: IWMBLOC environmental error
17	(11)	X'1D'	0	SCONSE29	"29" INTERNAL ERROR: IWMBLOC unexpected WLM response
17	(11)	X'1E'	0	SCONSE30	"30" No capacity to run at this time
17	(11)	X'1F'	0	SCONSE31	"31" INTERNAL ERROR: IWMBREQ parameter error
17	(11)	X'20'	0	SCONSE32	"32" INTERNAL ERROR: IWMBREQ unexpected WLM response
17	(11)	X'21'	0	SCONSE33	"33" A ZJI in the set is not ACTIVE (it is FLUSHED or IN_ERROR).
17	(11)	X'22'	0	SCONSE34	"34" Initiators all ready started - NOOP $DCONSET - no HASP1201 message
17	(11)	X'23'	0	SCONSE35	"35" INTERNAL ERROR: bad return code from PROCESS_CONCUR_JOBS
17	(11)	X'24'	0	SCONSE36	"36" No BOSS member up to handle concurrent set
17	(11)	X'25'	0	SCONSE37	"37" $DCONSET request sent to another member
17	(11)	X'26'	0	SCONSE38	"38" All jobs in set are independent mode but no independent members available.
17	(11)	X'27'	0	SCONSE39	"39" Set contains jobs running independent and non- independent mode.
17	(11)	X'28'	0	SCONSE40	"40" All jobs in set are non-independent mode but no non-independent members available

Table 623. Structure CONC1201 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
17	(11)	X'48'	0	SCONSE72	"72" $DCONSET request sent to another member

Table 624. Structure GRP1210

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	GRP1210	, HASP1210 parms
0	(0)	CHARACTER	8	GRPGROUP	Associated job group name
8	(8)	ADDRESS	4	GRPJQE@	Address of a JQE related to job group. May be logging job.
12	(C)	BITSTRING	1	GRPREASO	Reason for error
12	(C)	X'D'	0	GRPLENGT	"*-GRP1210" Length of GRP1210

Table 625. Structure ZJCCNT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ZJCCNT	, ZJC count array
0	(0)	CHARACTER	8	ZJCCNM1	ZJC type 1 (free)
8	(8)	SIGNED	4	ZJCCNR1	Number of ZJCs of this type
8	(8)	X'C'	0	ZJCCLEN	"*-ZJCCNT" Size of one entry
12	(C)	CHARACTER	8	ZJCCNM2	ZJC type 2 (ZOD)
20	(14)	SIGNED	4	ZJCCNR2	Number of ZJCs of this type
24	(18)	CHARACTER	8	ZJCCNM3	ZJC type 3 (ZJI)
32	(20)	SIGNED	4	ZJCCNR3	Number of ZJCs of this type
36	(24)	CHARACTER	8	ZJCCNM4	ZJC type 4 (ZDB)
44	(2C)	SIGNED	4	ZJCCNR4	Number of ZJCs of this type
48	(30)	CHARACTER	8	ZJCCNM5	ZJC type 5 (invalid)
56	(38)	SIGNED	4	ZJCCNR5	Number of ZJCs of this type
56	(38)	X'3C'	0	ZJCCARSZ	"*-ZJCCNT" Size of a full array

Table 626. Cross Reference for $ZJC

Name	Offset	Hex Tag
$ZJCOBJM	9	94
ANDOPER	0	44
CONCGRP	8	
CONCNAM	0	
CONC1201	0	
CONDELAY	10	40
CONERROR	10	20
CONEXEC	10	80
CONLENGT	11	12
CONREASO	11	
CONTYPE	10	
DIGIT	1	1
EQOPER	0	34
GRPGROUP	0	
GRPJQE@	8	
GRPLENGT	C	D

Table 626. Cross Reference for $ZJC (continued)

Name	Offset	Hex Tag
GRPREASO	C	
GRP1210	0	
GTEOPER	0	3C
GTOPER	0	24
HEXZERO	0	0
INVALID	1	0
JABENCOD	C4	4
JADDINFO	1	
JCABENCC	8	C
JCABEND	8	10
JCRC	8	4
JCRUN	8	8
JDABENCC	0	C
JDARRYLN	10	14C08
JDBLDWRK	0	
JDCARRYN	10	1388
JDCFLAG1	10	
JDCIRDEP	8	
JDCIRENT	0	
JDCIRLEN	10	11
JDCIRPAR	0	
JDCIRZAP	0	
JDCNOMSG	10	80
JDCURPTR	0	
JDELEME@	38	
JDELEMID	0	
JDELMBYT	15C	
JDELMLEN	169	80
JDEL1LEN	160	
JDEL2LEN	164	
JDERCIRN	8	10
JDERDEPN	8	
JDERDUPN	8	10
JDERPARN	0	
JDERUNRN	8	10
JDFNDAND	168	40
JDFNDOR	168	20
JDF1CMAX	24	40
JDF1JMAX	24	80
JDIGIT	C4	2
JDINBUF@	0	
JDINENT	0	
JDINSTK	169	
JDINSTKE	0	
JDINWRKA	0	
JDISKSTR	8	
JDISTEND	10	
JDISTFND	18	
JDISTTOP	20	

Table 626. Cross Reference for $ZJC (continued)

Name	Offset	Hex Tag
JDIWRLEN	169	3169
JDJCLLEN	0	1
JDJCLVAR	0	
JDJS_CRE	8	1
JDJS_END	8	2
JDJS_INT	8	0
JDJSETEL	0	
JDJSETLN	10	18
JDJSNAME	0	
JDJSNUME	10	40
JDJSSTAT	8	
JDJSZJIP	10	
JDLOWPRE	158	
JDMAXCC	1	
JDMAXLN	1	4
JDMAXRC	0	
JDMXIND	0	
JDNFLAG1	168	
JDNOCOMP	A	0
JDNOJCLV	8	0
JDNUMID	0	1C
JDNUMLEN	1	3
JDNUMVAL	1	
JDPAREN	168	80
JDPARSE	60	
JDPCCAFF	0	
JDPCCURT	10	
JDPCDATA	0	
JDPCFLEN	14	14
JDPCJBTK	8	
JDPCJKEY	4	
JDPCJNUM	0	
JDPCRTCD	4	
JDPCTLEN	C	
JDPCTOKA	14	
JDPCWLEN	4	8
JDPCWLMT	0	
JDPERTSK	0	
JDPOPELM	28	
JDPTYPE	0	
JDPUSHEL	30	
JDRPLAST	30	
JDRPNFST	20	
JDRPNLST	80	
JDRPNNXT	28	
JDRPNSIZ	C0	
JDSTELLN	0	80
JDSTKEND	18	
JDSTKSTR	10	

Table 626. Cross Reference for $ZJC (continued)

Name	Offset	Hex Tag
JDSTKTOP	8	
JDSTLEN	169	3000
JDSYSCOD	1	
JDSYSID	0	14
JDSYSLEN	1	3
JDUSRCOD	1	
JDUSRID	0	18
JDUSRLEN	1	3
JDVARSTS	A	
JDVCOMPL	A	1
JDWABEND	0	10
JDWCIFST	10	
JDWCILST	18	
JDWCIRER	828	
JDWCIRNM	20	
JDWCUTYP	8	
JDWDUPER	728	
JDWELEME	70	
JDWERRLN	8	10
JDWERROR	0	
JDWFLAG1	24	
JDWHENWK	0	
JDWHFRST	38	
JDWHLAST	40	
JDWHLEN	185	187
JDWJBSET	28	
JDWKENT1	58	
JDWKENT2	D8	
JDWLEN	A28	BAF
JDWLMTIM	185	1E
JDWNOOPR	9	0
JDWOPER	B	
JDWOPRTY	9	
JDWRC	0	4
JDWRUN	0	8
JDWSAVR1	928	
JDWSAVR2	9A8	
JDWUNRER	628	
JDWURCON	0	
JDWURDEP	8	
JDWWHEN	A28	
JENDLLEN	0	1
JENDMARK	0	70
JJCLVAR	C4	3
JLASTPRO	C4	
JLEFTPAR	C4	5
JLOGICAL	C4	1
JOPELLEN	0	1
JOPPREC	1	

Table 626. Cross Reference for $ZJC (continued)

Name	Offset	Hex Tag
JOSTELLN	1	2
JPARSEST	0	
JPARSLNG	E	10
JRIGHPAR	C4	6
JRMAXRC	0	
JRONLYOP	58	80
JRPNELEM	0	
JRWDBONE	48	
JRWDBTWO	50	
JRWFLAG1	58	
JRWORK16	48	
JRWRDWRD	40	
JUNDEFIN	C4	7
JWHSTK	C5	
JWORKSTK	185	
JWSTKLEN	C5	C0
JXMAXRL	1	4
LEFTPAR	0	4C
LETTER	1	2
LFTPA	1	4
LTEOPER	0	40
LTOPER	0	28
MZDENDAC	1	
MZDENTF1	1A	
MZDERRBA	1C	
MZDERRBF	1C	
MZDERREL	48	
MZDERREX	18	
MZDERRLN	18	
MZDERROR	0	
MZDERRTX	0	
MZDEYEC	0	
MZDFLAG1	D	
MZDIFBFL	34	
MZDIFBUF	30	
MZDIFCHN	20	
MZDIFPAR	28	
MZDIFRPL	2C	
MZDIFRPN	28	
MZDINDTA	20	
MZDINEYE	0	
MZDINFIX	0	
MZDINHLN	14	20
MZDINLEN	4	
MZDINNXT	8	
MZDINOFF	C	
MZDINREM	10	
MZDJBACT	14	40
MZDJBCLS	14	1

Table 626. Cross Reference for $ZJC (continued)

Name	Offset	Hex Tag
MZDJBDEP	14	8
MZDJBDLY	14	2
MZDJBFG1	17	
MZDJBHLD	14	4
MZDJBJQE	15	80
MZDJBNEL	14	10
MZDJBNRG	14	80
MZDJBQUE	16	
MZDJBRDY	14	20
MZDJBSTC	18	
MZDJBSTD	19	
MZDJBSTR	1B	
MZDJBST1	14	
MZDJBST2	15	
MZDJOBAN	1C	
MZDJOBID	C	
MZDJOBNM	4	
MZDJOBST	14	
MZDJOBTY	0	
MZDOTHWS	2	
MZDSCWA	24	
MZDSTABN	F	
MZDSTAT	C	
MZDWHEN	0	
MZDWHNBA	28	
MZDWHNEX	24	
MZDWHNLE	24	
MZDWHNLN	3	
MZDWHNTX	0	
MZDZODEN	50	
MZDZODNM	4	
MZDZODOE	17	
MZDZODST	C	
MZD1ERIN	D	40
MZD1MAXO	D	80
MZD1WHIN	1A	80
MZODDUPE	0	0
MZODFULL	28	FFB8
MZODHDR	0	
MZODHDRL	50	50
MZODJOB	0	
MZODJOBC	0	40
MZODJOBD	0	8
MZODJOBE	0	10
MZODJOBI	0	4
MZODJOBL	28	2C
MZODJOBM	28	5CE
MZODJOBN	0	80
MZODJOBP	0	20

Table 626. Cross Reference for $ZJC (continued)

Name	Offset	Hex Tag
MZODSIZE	28	FFF7
NEQOPER	0	38
NGTOPER	0	2C
NLTOPER	0	30
NOTOPER	0	20
OPERATOR	1	3
OROPER	0	48
RGHPA	1	5
RIGHPAR	0	50
SCONSE00	11	0
SCONSE01	11	1
SCONSE02	11	2
SCONSE03	11	3
SCONSE04	11	4
SCONSE05	11	5
SCONSE06	11	6
SCONSE07	11	7
SCONSE08	11	8
SCONSE09	11	9
SCONSE10	11	A
SCONSE11	11	B
SCONSE12	11	C
SCONSE13	11	D
SCONSE14	11	E
SCONSE15	11	F
SCONSE16	11	10
SCONSE17	11	11
SCONSE18	11	12
SCONSE19	11	13
SCONSE20	11	14
SCONSE21	11	15
SCONSE22	11	16
SCONSE23	11	17
SCONSE24	11	18
SCONSE25	11	19
SCONSE26	11	1A
SCONSE27	11	1B
SCONSE28	11	1C
SCONSE29	11	1D
SCONSE30	11	1E
SCONSE31	11	1F
SCONSE32	11	20
SCONSE33	11	21
SCONSE34	11	22
SCONSE35	11	23
SCONSE36	11	24
SCONSE37	11	25
SCONSE38	11	26
SCONSE39	11	27

Table 626. Cross Reference for $ZJC (continued)

Name	Offset	Hex Tag
SCONSE40	11	28
SCONSE72	11	48
ZDB	C	
ZDB_COMP	C	1
ZDB_PEND	C	0
ZDBDENAM	30	
ZDBDENXT	40	
ZDBDEPEA	D	
ZDBDEZJI	38	
ZDBDFAIL	D	2
ZDBDFLSH	D	1
ZDBDSAT	D	0
ZDBENDA	89	
ZDBLJKEY	90	
ZDBLJNUM	8C	
ZDBNXZDB	10	
ZDBOTHA	8A	
ZDBPRNAM	18	
ZDBPRNXT	28	
ZDBPRZJI	20	
ZDBRSVD	94	
ZDBRSVD1	E	
ZDBRSVSZ	94	C
ZDBSIZE	94	A0
ZDBSTAT	C	
ZDBWHENL	88	
ZDBWHENT	48	
ZDBWHMAX	8A	40
ZJC	0	
ZJC	0	
ZJC	0	
ZJC	0	
ZJCCARSZ	38	3C
ZJCCLEN	8	C
ZJCCNM1	0	
ZJCCNM2	C	
ZJCCNM3	18	
ZJCCNM4	24	
ZJCCNM5	30	
ZJCCNR1	8	
ZJCCNR2	14	
ZJCCNR3	20	
ZJCCNR4	2C	
ZJCCNR5	38	
ZJCCNT	0	
ZJCINDEX	4	
ZJCNFREI	0	
ZJCOBJCT	C	
ZJCRSVD1	9	

Table 626. Cross Reference for $ZJC (continued)

Name	Offset	Hex Tag
ZJCSIZE	C	A0
ZJCT_FRE	8	0
ZJCT_ZDB	8	3
ZJCT_ZJI	8	2
ZJCT_ZOD	8	1
ZJCTYPE	8	
ZJCVRSN	0	1
ZJI	C	
ZJI_ACTI	5A	1
ZJI_COMP	5A	2
ZJI_FLSH	5A	3
ZJI_INER	5A	4
ZJI_PEND	5A	0
ZJIERZJI	5C	
ZJIFLAG1	58	
ZJIFLAG2	71	
ZJIJBKEY	4C	
ZJIJBNUM	48	
ZJIJDZDB	28	
ZJIJNAME	40	
ZJIJPZDB	20	
ZJIJQEF3	59	
ZJIJSNAM	50	
ZJIJSRET	72	
ZJILJKEY	64	
ZJILJNUM	60	
ZJIMASZJ	84	
ZJIMAXRC	80	
ZJIMCJTS	68	0
ZJIMCMID	70	
ZJINJSET	38	
ZJINXCON	30	
ZJINXZJI	10	
ZJIPZOD	18	
ZJIRSVD	88	
ZJIRSVSZ	88	18
ZJISIZE	88	A0
ZJISTAT	5A	
ZJISTOK	74	
ZJISYSID	73	
ZJIWSCN	78	
ZJI1DEFE	58	2
ZJI1ELIG	58	80
ZJI1FACT	58	40
ZJI1JREG	58	8
ZJI1PURG	58	20
ZJI1RESU	58	10
ZJI1STRT	58	4
ZJI2JCAN	71	20

Table 626. Cross Reference for $ZJC (continued)

Name	Offset	Hex Tag
ZJI2JGCM	71	80
ZJI2JWLM	71	40
ZJI2POST	71	10
ZOD	C	
ZOD_ACT	8B	2
ZOD_ACTI	8B	1
ZOD_CANI	8B	7
ZOD_COMP	8B	8
ZOD_FLSH	8B	6
ZOD_HELD	8B	5
ZOD_NOTF	8B	FF
ZOD_PEND	8B	0
ZOD_SUSD	8B	4
ZOD_SUSI	8B	3
ZODBLDWK	30	30
ZODEFLSH	8A	3
ZODENOER	8A	0
ZODERMAX	89	40
ZODERRA	8A	
ZODERREL	88	
ZODERREX	48	
ZODERZJI	90	
ZODESTOP	8A	1
ZODESUSP	8A	2
ZODIZDB	20	
ZODIZJI	18	
ZODJQEF3	8C	
ZODLJKEY	44	
ZODLJNUM	40	
ZODNAME	38	
ZODNCZJI	2C	
ZODNPURG	2E	
ZODNRZJI	2A	
ZODNUMER	94	
ZODNXZOD	10	
ZODNZJI	28	
ZODONERR	89	
ZODRSVD	96	
ZODRSVSZ	96	A
ZODSIZE	96	A0
ZODSTAT	8B	
ZODTSMP	30	0

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Product Number: 5650-ZOS

Printed in USA

GA32-0997-01