



z/OS V2R2 MVS Data Areas Volume 2 (IAX - ISG)

Version 2 Release 2

Before using this information and the product it supports, be sure to read the general information under “Notices” on page 1549.

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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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Chapter 1. IAXCPHA Information

IAXCPHA Heading Information

Common Name: RSM Cell Pool Header Authorized Section
 Macro ID: IAXCPHA
 DSECT Name: CPHA
 Owing Component: REAL STORAGE MANAGER (SC1CR)
 Eye-Catcher ID: CPHA
 Offset: 0
 Length: 4 bytes
 Storage Attributes: Virtual Storage: YES
 Subpool: CPHA for private cell pools - subpool 213 on the
 the tasks that owns the pool.
 Key: 0
 Data Space: NO
 Residency: Above the line for private
 Above the bar for private
 Size: ??? bytes
 Created by: IARCYBLD
 Pointed to by: CPHDCPHA - Connection for the cell pool to use in expand
 and delete processing
 Serialization: CDSG is used to update queue headers.
 Function: The CPHA contains any cell pool information that we don't
 want the user to be able to modify.
 It also contains the anchor to the chain of extents.
 The CPHA contains the IARV64 parameter list used to create
 the initial and subsequent extents.
 The CPHA resides in key 0 storage to prevent the user from
 changing the attributes for a pool extent.

IAXCPHA mapping

Table 1. Structure CPHA

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	304	CPHA	
0	(0)	CHARACTER	4	CPHAID	CPHA control block identifier
4	(4)	CHARACTER	1	CPHASP	Subpool for private CPHA
5	(5)	BITSTRING	1	CPHAFLG1	Flag byte 1
		1...		CPHAF1FIXED	Cells in this pool are page fixed.
		.1..		CPHAF1TRY1MPAGESIZE	Try to get 1M pages for this pool.
		..1.		CPHAF1ST64	This pool services IARST64. Reject IARCP64 DELETE requests which point to this CPHA.
		...1		CPHALOCSYSA	This pool was created with LOCALSYSAREA parm
6	(6)	BITSTRING	1	CPHAKEY	Key of the pool in top 4 bits
7	(7)	CHARACTER	1	CPHARSV1	Reserved

IAXCPHA mapping

Table 1. Structure CPHA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
8	(8)	UNSIGNED	4	CPHAPAGEFIXCAEMASK	CA mask used to determine when to invoke IAXCY to page fix additional areas within the extent. Only applicable to fixed extents
12	(C)	ADDRESS	4	CPHANEXT	Address of the next CPHA. This is only used for private area CPHAs for user key pools. This allows the fork exit to locate CPHAs that need to be propagated to the child and is also used to validate the CPHA on expand. SERIALIZATION: Local Lock
QUADWORDS 2/3					
16	(10)	CHARACTER	24	CPHAUSERDATA	Caller provided test string to make it easy to spot cell pool extents in a dump.
40	(28)	CHARACTER	8	CPHARSV2	Reserved
QUADWORD 4					
48	(30)	CHARACTER	8	CPHAUSERTKN	User token returned by RSM on initial IARV64 GETxx and provided on subsequent requests (unused, remove)
56	(38)	ADDRESS	8	CPHACPHD	Address of CPHD. Used to verify that the user has not modified the CPHD.
QUADWORD 5					
64	(40)	UNSIGNED	4	CPHACELLSZREQ	Cell size requested on the build.
68	(44)	UNSIGNED	4	CPHACELLSIZE	Size of the cells in this pool. This is the size after the build routine has rounded the user's request to the appropriate boundary.
72	(48)	UNSIGNED	4	*	
72	(48)	UNSIGNED	1	CPHANUMCAEPAGESTOFIX	Number of pages mapping the control area to page fix
73	(49)	UNSIGNED	1	CPHANUMCELLPAGESTOFIX	Number of pages mapping cells to page fix
76	(4C)	UNSIGNED	4	CPHACELLSZ	Size of cell area
QUADWORD 6					
80	(50)	CHARACTER	16	CPHARSV3	Reserved
QUADWORD 7 Quadword alignment is required for the following anchors since they are updated with CDSG.					
96	(60)	CHARACTER	16	CPHAEXT	Pointer to the extent chain. Serialization: CDSG with an incremented sequence number.
96	(60)	ADDRESS	8	CPHAEXTANC	Pointer to the last extent to be added to the pool. or zero if the pool has never been expanded.

Table 1. Structure CPHA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
104	(68)	UNSIGNED	8	CPHAEXTSEQ	Sequence number for the CDSG to update.
QUADWORD 8					
112	(70)	CHARACTER	16	CPHARSV4	Reserved
QUADWORD 9					
128	(80)	CHARACTER	176	CPHAV64PL	Parameter list used to get extents with IARV64

Table 2. Structure CPHAB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	176	CPHAB	?IARV64 PARM LIST
0	(0)	UNSIGNED	1	CPHAB_XVERSION	INPUT XVERSION
1	(1)	UNSIGNED	1	CPHAB_XREQUEST	XREQUEST
2	(2)	BITSTRING	1	CPHAB_XFLAGS0	FIELD_LABEL
		1... ..		CPHAB_XMOTKNSOURCE_SYSTEM	BIT
		.1.. ..		CPHAB_XMOTKNCREATOR_SYSTEM	BIT
		..1.		CPHAB_XMATCH_MOTOKEN	BIT
		...1 1111		CPHAB_XFLAGS0_RSVD1	BIT
3	(3)	UNSIGNED	1	CPHAB_XKEY	XKEY
4	(4)	BITSTRING	1	CPHAB_XFLAGS1	FIELD_LABEL
		1... ..		CPHAB_KEYUSED_KEY	BIT
		.1..		CPHAB_KEYUSED_USERTKN	BIT
		..1.		CPHAB_KEYUSED_TTOKEN	BIT
		...1		CPHAB_KEYUSED_CONVERTSTART	BIT
		.... 1...		CPHAB_KEYUSED_GUARDSIZE64	BIT
		.... .1..		CPHAB_KEYUSED_CONVERTSIZE64	BIT
		.... ..1.		CPHAB_KEYUSED_MOTKN	BIT
		.... ...1		CPHAB_KEYUSED_OWNERJOBNAME	BIT
5	(5)	BITSTRING	1	CPHAB_XFLAGS2	FIELD_LABEL
		1... ..		CPHAB_XCOND_YES	BIT
		.1..		CPHAB_XFPROT_NO	BIT
		..1.		CPHAB_XCONTROL_AUTH	BIT
		...1		CPHAB_XGUARDLOC_HIGH	BIT
		.... 1...		CPHAB_XCHANGEACCESS_GLOBAL	BIT
		.... .1..		CPHAB_XPAGEFRAMESIZE_1MEG	BIT
		.... ..1.		CPHAB_XPAGEFRAMESIZE_MAX	BIT
		.... ...1		CPHAB_XPAGEFRAMESIZE_ALL	BIT
6	(6)	BITSTRING	1	CPHAB_XFLAGS3	FIELD_LABEL
		1... ..		CPHAB_XMATCH_USERTOKEN	BIT
		.1..		CPHAB_XAFFINITY_SYSTEM	BIT
		..1.		CPHAB_XUSE2GT032G_YES	BIT
		...1		CPHAB_XOWNER_NO	BIT
		.... 1...		CPHAB_XV64SELECT_NO	BIT
		.... .1..		CPHAB_XSVCDUMPRGN_NO	BIT

IAXCPHA mapping

Table 2. Structure CPHAB (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
		....	..1.		CPHAB_XV64SHARED_NO	BIT
		....	...1		CPHAB_XSVCDUMPRGN_ALL	BIT
7	(7)	BITSTRING		1	CPHAB_XFLAGS4	FIELD_LABEL
		1...	....		CPHAB_XLONG_NO	BIT
		.1..	....		CPHAB_XCLEAR_NO	BIT
		..1.	....		CPHAB_XVIEW_READONLY	BIT
		...1	....		CPHAB_XVIEW_SHAREDWRITE	BIT
		....	1...		CPHAB_XVIEW_HIDDEN	BIT
		....	.1..		CPHAB_XCONVERT_TOGUARD	BIT
		....	..1.		CPHAB_XCONVERT_FROMGUARD	BIT
		....	...1		CPHAB_XKEEPREAL_NO	BIT
8	(8)	UNSIGNED		8	CPHAB_XSEGMENTS	XSEGMENTS
16	(10)	CHARACTER		16	CPHAB_XTTOKEN	XTTOKEN
32	(20)	UNSIGNED		8	CPHAB_XUSERTKN	XUSERTKN
40	(28)	ADDRESS		8	CPHAB_XORIGIN	XORIGIN
48	(30)	ADDRESS		8	CPHAB_XRANGLIST	XRANGLIST
56	(38)	ADDRESS		8	CPHAB_XMEMOBJSTART	XMEMOBJSTART
64	(40)	UNSIGNED		4	CPHAB_XGUARDSIZE	XGUARDSIZE
68	(44)	UNSIGNED		4	CPHAB_XCONVERTSIZE	XCONVERTSIZE
72	(48)	UNSIGNED		4	CPHAB_XALETVALUE	XALETVALUE
76	(4C)	SIGNED		4	CPHAB_XNUMRANGE	XNUMRANGE
80	(50)	ADDRESS		4	CPHAB_XV64LISTPTR	XV64LISTPTR
84	(54)	UNSIGNED		4	CPHAB_XV64LISTLENGTH	XV64LISTLENGTH
88	(58)	UNSIGNED		8	CPHAB_XCONVERTSTART	XCONVERTSTART
96	(60)	UNSIGNED		8	CPHAB_XCONVERTSIZE64	XCONVERTSIZE64
104	(68)	UNSIGNED		8	CPHAB_XGUARDSIZE64	XGUARDSIZE64
112	(70)	CHARACTER		8	CPHAB_XUSERTOKEN	XUSERTOKEN
120	(78)	UNSIGNED		1	CPHAB_XDUMPPRIORITY	XDUMPPRIORITY
121	(79)	BITSTRING		1	CPHAB_XFLAGS5	FIELD_LABEL
		1...	....		CPHAB_XDUMPPROTOCOL_YES	BIT
		.1..	....		CPHAB_XORDER_DUMPPRIORITY	BIT
		..1.	....		CPHAB_XTYPE_PAGEABLE	BIT
		...1	....		CPHAB_XTYPE_DREF	BIT
		....	1...		CPHAB_XOWNERCOM_HOME	BIT
		....	.1..		CPHAB_XOWNERCOM_PRIMARY	BIT
		....	..1.		CPHAB_XOWNERCOM_SYSTEM	BIT
		....	...1		CPHAB_XOWNERCOM_BYASID	BIT
122	(7A)	BITSTRING		1	CPHAB_XFLAGS6	FIELD_LABEL
		1...	....		CPHAB_XV64COMMON_NO	BIT
		.1..	....		CPHAB_XMEMLIMIT_NO	BIT
		..1.	....		CPHAB_XDETACHFIXED_YES	BIT
		...1	....		CPHAB_XD0AUTHCHECKS_YES	BIT
		....	1...		CPHAB_XLOCALSYSAREA_YES	BIT
		....	.1..		CPHAB_XAMOUNTSIZE_4K	BIT
		....	..1.		CPHAB_XAMOUNTSIZE_1MEG	BIT
		....	...1		CPHAB_XMEMLIMIT_COND	BIT
123	(7B)	BITSTRING		1	CPHAB_XFLAGS7	FIELD_LABEL
		1...	....		CPHAB_KEYUSED_DUMP	BIT
		.1..	....		CPHAB_KEYUSED_OPTIONVALUE	BIT
		..1.	....		CPHAB_KEYUSED_SVCDUMPRGN	BIT
		...1	....		CPHAB_XATTRIBUTE_DEFS	BIT
		....	1...		CPHAB_XATTRIBUTE_OWNERGONE	

Table 2. Structure CPHAB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		CPHAB_XATTRIBUTE_NOTOWNERGONE	BIT
		.... ..1.		CPHAB_XTRACKINFO_YES	BIT
		.... ...1		CPHAB_XUNLOCKED_YES	BIT
124	(7C)	UNSIGNED	1	CPHAB_XDUMP	XDUMP
125	(7D)	BITSTRING	1	CPHAB_XFLAGS8	FIELD_LABEL
		1...		CPHAB_XPAGEFRAMESIZE_PAGEABLE1MEG	BIT
		.1..		CPHAB_XPAGEFRAMESIZE_DREF1MEG	BIT
		..11 1111		CPHAB_XFLAGS8_RSVD1	BIT
126	(7E)	UNSIGNED	2	CPHAB_XOWNERASID	XOWNERASID
128	(80)	UNSIGNED	1	CPHAB_XOPTIONVALUE	XOPTIONVALUE
129	(81)	CHARACTER	8	CPHAB_XRSV0001	RESERVED
137	(89)	CHARACTER	8	CPHAB_XOWNERJOBNAME	XOWNERJOBNAME
145	(91)	CHARACTER	7	CPHAB_XRSV0004	RESERVED
152	(98)	ADDRESS	8	CPHAB_XMAPAGETABLE	XMAPAGETABLE
160	(A0)	UNSIGNED	8	CPHAB_XUNITS	XUNITS
168	(A8)	BITSTRING	1	CPHAB_XFLAGS9	FIELD_LABEL
		1...		CPHAB_KEYUSED_UNITS	BIT
		.1..		CPHAB_XUNITSIZE_1M	BIT
		..1.		CPHAB_XUNITSIZE_2G	BIT
		...1		CPHAB_XPAGEFRAMESIZE_1M	BIT
		.... 1...		CPHAB_XPAGEFRAMESIZE_2G	BIT
		.... .1..		CPHAB_XTYPE_FIXED	BIT
		.... ..11		CPHAB_XFLAGS9_RSVD1	BIT
169	(A9)	CHARACTER	7	CPHAB_XRSV0005	RESERVED

Table 3. Structure @NM00002

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
32	(20)	STRUCTURE	8	*	DEFINED
32	(20)	UNSIGNED	8	CPHAB_XOUTMOTKN	XOUTMOTKN

Table 4. Structure @NM00003

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
32	(20)	STRUCTURE	8	*	DEFINED
32	(20)	UNSIGNED	8	CPHAB_XMOTKN	XMOTKN
40	(28)	CHARACTER	0	*	

Table 5. Structure CPHAP

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
128	(80)	STRUCTURE	176	CPHAP	?IARV64 PARM LIST
128	(80)	UNSIGNED	1	CPHAP_XVERSION	INPUT XVERSION
129	(81)	UNSIGNED	1	CPHAP_XREQUEST	XREQUEST
130	(82)	BITSTRING	1	CPHAP_XFLAGS0	FIELD_LABEL

IAXCPHA mapping

Table 5. Structure CPHAP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1... ..		CPHAP_XMOTKNSOURCE_SYSTEM	BIT
		.1.. ..		CPHAP_XMOTKNCREATOR_SYSTEM	BIT
		..1.		CPHAP_XMATCH_MOTOKEN	BIT
		...1 1111		CPHAP_XFLAGS0_RSVD1	BIT
131	(83)	UNSIGNED	1	CPHAP_XKEY	XKEY
132	(84)	BITSTRING	1	CPHAP_XFLAGS1	FIELD_LABEL
		1... ..		CPHAP_KEYUSED_KEY	BIT
		.1.. ..		CPHAP_KEYUSED_USERTKN	BIT
		..1.		CPHAP_KEYUSED_TTOKEN	BIT
		...1		CPHAP_KEYUSED_CONVERTSTART	BIT
		.... 1...		CPHAP_KEYUSED_GUARDSIZE64	BIT
		.... .1..		CPHAP_KEYUSED_CONVERTSIZE64	BIT
		.... ..1.		CPHAP_KEYUSED_MOTKN	BIT
		.... ...1		CPHAP_KEYUSED_OWNERJOBNAME	BIT
133	(85)	BITSTRING	1	CPHAP_XFLAGS2	FIELD_LABEL
		1... ..		CPHAP_XCOND_YES	BIT
		.1.. ..		CPHAP_XFPROT_NO	BIT
		..1.		CPHAP_XCONTROL_AUTH	BIT
		...1		CPHAP_XGUARDLOC_HIGH	BIT
		.... 1...		CPHAP_XCHANGEACCESS_GLOBAL	BIT
		.... .1..		CPHAP_XPAGEFRAMESIZE_1MEG	BIT
		.... ..1.		CPHAP_XPAGEFRAMESIZE_MAX	BIT
		.... ...1		CPHAP_XPAGEFRAMESIZE_ALL	BIT
134	(86)	BITSTRING	1	CPHAP_XFLAGS3	FIELD_LABEL
		1... ..		CPHAP_XMATCH_USERTOKEN	BIT
		.1.. ..		CPHAP_XAFFINITY_SYSTEM	BIT
		..1.		CPHAP_XUSE2GT032G_YES	BIT
		...1		CPHAP_XOWNER_NO	BIT
		.... 1...		CPHAP_XV64SELECT_NO	BIT
		.... .1..		CPHAP_XSVCDUMPRGN_NO	BIT
		.... ..1.		CPHAP_XV64SHARED_NO	BIT
		.... ...1		CPHAP_XSVCDUMPRGN_ALL	BIT
135	(87)	BITSTRING	1	CPHAP_XFLAGS4	FIELD_LABEL
		1... ..		CPHAP_XLONG_NO	BIT
		.1.. ..		CPHAP_XCLEAR_NO	BIT
		..1.		CPHAP_XVIEW_READONLY	BIT
		...1		CPHAP_XVIEW_SHAREDWRITE	BIT
		.... 1...		CPHAP_XVIEW_HIDDEN	BIT
		.... .1..		CPHAP_XCONVERT_TOGUARD	BIT
		.... ..1.		CPHAP_XCONVERT_FROMGUARD	BIT
		.... ...1		CPHAP_XKEEPREAL_NO	BIT
136	(88)	UNSIGNED	8	CPHAP_XSEGMENTS	XSEGMENTS
144	(90)	CHARACTER	16	CPHAP_XTTOKEN	XTTOKEN
160	(A0)	UNSIGNED	8	CPHAP_XUSERTKN	XUSERTKN
168	(A8)	ADDRESS	8	CPHAP_XORIGIN	XORIGIN
176	(B0)	ADDRESS	8	CPHAP_XRANGLIST	XRANGLIST
184	(B8)	ADDRESS	8	CPHAP_XMEMOBJSTART	XMEMOBJSTART

Table 5. Structure CPHAP (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
192	(C0)	UNSIGNED		4	CPHAP_XGUARDSIZE	XGUARDSIZE
196	(C4)	UNSIGNED		4	CPHAP_XCONVERTSIZE	XCONVERTSIZE
200	(C8)	UNSIGNED		4	CPHAP_XALETVALUE	XALETVALUE
204	(CC)	SIGNED		4	CPHAP_XNUMRANGE	XNUMRANGE
208	(D0)	ADDRESS		4	CPHAP_XV64LISTPTR	XV64LISTPTR
212	(D4)	UNSIGNED		4	CPHAP_XV64LISTLENGTH	XV64LISTLENGTH
216	(D8)	UNSIGNED		8	CPHAP_XCONVERTSTART	XCONVERTSTART
224	(E0)	UNSIGNED		8	CPHAP_XCONVERTSIZE64	XCONVERTSIZE64
232	(E8)	UNSIGNED		8	CPHAP_XGUARDSIZE64	XGUARDSIZE64
240	(F0)	CHARACTER		8	CPHAP_XUSERTOKEN	XUSERTOKEN
248	(F8)	UNSIGNED		1	CPHAP_XDUMPPRIORITY	XDUMPPRIORITY
249	(F9)	BITSTRING		1	CPHAP_XFLAGS5	FIELD_LABEL
			1...		CPHAP_XDUMPPROTOCOL_YES	BIT
			.1..		CPHAP_XORDER_DUMPPRIORITY	BIT
			..1.		CPHAP_XTYPE_PAGEABLE	BIT
			...1		CPHAP_XTYPE_DREF	BIT
			.... 1...		CPHAP_XOWNERCOM_HOME	BIT
			.... .1..		CPHAP_XOWNERCOM_PRIMARY	BIT
			.... ..1.		CPHAP_XOWNERCOM_SYSTEM	BIT
			.... ...1		CPHAP_XOWNERCOM_BYASID	BIT
250	(FA)	BITSTRING		1	CPHAP_XFLAGS6	FIELD_LABEL
			1...		CPHAP_XV64COMMON_NO	BIT
			.1..		CPHAP_XMEMLIMIT_NO	BIT
			..1.		CPHAP_XDETACHFIXED_YES	BIT
			...1		CPHAP_XDOAUTHCHECKS_YES	BIT
			.... 1...		CPHAP_XLOCALSYSAREA_YES	BIT
			.... .1..		CPHAP_XAMOUNTSIZE_4K	BIT
			.... ..1.		CPHAP_XAMOUNTSIZE_1MEG	BIT
			.... ...1		CPHAP_XMEMLIMIT_COND	BIT
251	(FB)	BITSTRING		1	CPHAP_XFLAGS7	FIELD_LABEL
			1...		CPHAP_KEYUSED_DUMP	BIT
			.1..		CPHAP_KEYUSED_OPTIONVALUE	BIT
			..1.		CPHAP_KEYUSED_SVCDUMPRGN	BIT
			...1		CPHAP_XATTRIBUTE_DEFS	BIT
			.... 1...		CPHAP_XATTRIBUTE_OWNERGONE	BIT
			.... .1..		CPHAP_XATTRIBUTE_NOTOWNERGONE	BIT
			.... ..1.		CPHAP_XTRACKINFO_YES	BIT
			.... ...1		CPHAP_XUNLOCKED_YES	BIT
252	(FC)	UNSIGNED		1	CPHAP_XDUMP	XDUMP
253	(FD)	BITSTRING		1	CPHAP_XFLAGS8	FIELD_LABEL
			1...		CPHAP_XPAGEFRAMESIZE_PAGEABLE1MEG	BIT
			.1..		CPHAP_XPAGEFRAMESIZE_DREF1MEG	BIT
			..11 1111		CPHAP_XFLAGS8_RSVD1	BIT
254	(FE)	UNSIGNED		2	CPHAP_XOWNERASID	XOWNERASID
256	(100)	UNSIGNED		1	CPHAP_XOPTIONVALUE	XOPTIONVALUE
257	(101)	CHARACTER		8	CPHAP_XRSV0001	RESERVED
265	(109)	CHARACTER		8	CPHAP_XOWNERJOBNAME	XOWNERJOBNAME
273	(111)	CHARACTER		7	CPHAP_XRSV0004	RESERVED

IAXCPHA mapping

Table 5. Structure CPHAP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
280	(118)	ADDRESS	8	CPHAP_XMAPAGETABLE	XMAPAGETABLE
288	(120)	UNSIGNED	8	CPHAP_XUNITS	XUNITS
296	(128)	BITSTRING	1	CPHAP_XFLAGS9	FIELD_LABEL
		1... ..		CPHAP_KEYUSED_UNITS	BIT
		.1.. ..		CPHAP_XUNITSIZE_1M	BIT
		..1. ..		CPHAP_XUNITSIZE_2G	BIT
		...1		CPHAP_XPAGEFRAMESIZE_1M	BIT
		.... 1...		CPHAP_XPAGEFRAMESIZE_2G	BIT
		.... .1..		CPHAP_XTYPE_FIXED	BIT
		.... ..11		CPHAP_XFLAGS9_RSVD1	BIT
297	(129)	CHARACTER	7	CPHAP_XRSV0005	RESERVED

Table 6. Structure @NM00005

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
160	(A0)	STRUCTURE	8	*	DEFINED
160	(A0)	UNSIGNED	8	CPHAP_XOUTMOTKN	XOUTMOTKN

Table 7. Structure @NM00006

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
160	(A0)	STRUCTURE	8	*	DEFINED
160	(A0)	UNSIGNED	8	CPHAP_XMOTKN	XMOTKN
168	(A8)	CHARACTER	0	*	

Table 8. Structure @NM00008

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
144	(90)	STRUCTURE	16	*	
144	(90)	CHARACTER	12	*	
156	(9C)	CHARACTER	4	CPHAPTCBFRONTOKEN	TCB that owns MO

Table 9. Constants for IAXCPHA

Len	Type	Value	Name	Description
1	DECIMAL	1	CPHAB_XREQUEST_GETSTOR	XREQUEST
1	DECIMAL	2	CPHAB_XREQUEST_GETSHARED	XREQUEST
1	DECIMAL	3	CPHAB_XREQUEST_DETACH	XREQUEST
1	DECIMAL	4	CPHAB_XREQUEST_PAGEFIX	XREQUEST
1	DECIMAL	5	CPHAB_XREQUEST_PAGEUNFIX	XREQUEST
1	DECIMAL	6	CPHAB_XREQUEST_PAGEOUT	XREQUEST
1	DECIMAL	7	CPHAB_XREQUEST_DISCARDATA	XREQUEST
1	DECIMAL	8	CPHAB_XREQUEST_PAGEIN	XREQUEST
1	DECIMAL	9	CPHAB_XREQUEST_PROTECT	XREQUEST
1	DECIMAL	10	CPHAB_XREQUEST_SHAREMEMOBJ	XREQUEST
1	DECIMAL	11	CPHAB_XREQUEST_CHANGEACCESS	XREQUEST
1	DECIMAL	12	CPHAB_XREQUEST_UNPROTECT	XREQUEST
1	DECIMAL	13	CPHAB_XREQUEST_CHANGEGUARD	XREQUEST
1	DECIMAL	14	CPHAB_XREQUEST_LIST	XREQUEST

Table 9. Constants for IAXCPHA (continued)

Len	Type	Value	Name	Description
1	DECIMAL	15	CPHAB_XREQUEST_GETCOMMON	XREQUEST
1	DECIMAL	16	CPHAB_XREQUEST_COUNTPAGES	XREQUEST
1	DECIMAL	17	CPHAB_XREQUEST_PCIEFIX	XREQUEST
1	DECIMAL	18	CPHAB_XREQUEST_PCIEUNFIX	XREQUEST
1	DECIMAL	0	CPHAB_XDUMP_NONE	XDUMP
1	DECIMAL	1	CPHAB_XDUMP_NO	XDUMP
1	DECIMAL	2	CPHAB_XDUMP_LIKESQA	XDUMP
1	DECIMAL	3	CPHAB_XDUMP_LIKECSA	XDUMP
1	DECIMAL	32	CPHAB_XDUMP_LIKERGN	XDUMP
1	DECIMAL	33	CPHAB_XDUMP_LIKELSQA	XDUMP
1	DECIMAL	255	CPHAB_XDUMP_ALL	XDUMP Needed for parm length
1	DECIMAL	1	CPHAP_XREQUEST_GETSTOR	XREQUEST
1	DECIMAL	2	CPHAP_XREQUEST_GETSHARED	XREQUEST
1	DECIMAL	3	CPHAP_XREQUEST_DETACH	XREQUEST
1	DECIMAL	4	CPHAP_XREQUEST_PAGEFIX	XREQUEST
1	DECIMAL	5	CPHAP_XREQUEST_PAGEUNFIX	XREQUEST
1	DECIMAL	6	CPHAP_XREQUEST_PAGEOUT	XREQUEST
1	DECIMAL	7	CPHAP_XREQUEST_DISCARDATA	XREQUEST
1	DECIMAL	8	CPHAP_XREQUEST_PAGEIN	XREQUEST
1	DECIMAL	9	CPHAP_XREQUEST_PROTECT	XREQUEST
1	DECIMAL	10	CPHAP_XREQUEST_SHAREMEMOBJ	XREQUEST
1	DECIMAL	11	CPHAP_XREQUEST_CHANGEACCESS	XREQUEST
1	DECIMAL	12	CPHAP_XREQUEST_UNPROTECT	XREQUEST
1	DECIMAL	13	CPHAP_XREQUEST_CHANGEGUARD	XREQUEST
1	DECIMAL	14	CPHAP_XREQUEST_LIST	XREQUEST
1	DECIMAL	15	CPHAP_XREQUEST_GETCOMMON	XREQUEST
1	DECIMAL	16	CPHAP_XREQUEST_COUNTPAGES	XREQUEST
1	DECIMAL	17	CPHAP_XREQUEST_PCIEFIX	XREQUEST
1	DECIMAL	18	CPHAP_XREQUEST_PCIEUNFIX	XREQUEST
1	DECIMAL	0	CPHAP_XDUMP_NONE	XDUMP
1	DECIMAL	1	CPHAP_XDUMP_NO	XDUMP
1	DECIMAL	2	CPHAP_XDUMP_LIKESQA	XDUMP
1	DECIMAL	3	CPHAP_XDUMP_LIKECSA	XDUMP
1	DECIMAL	32	CPHAP_XDUMP_LIKERGN	XDUMP
1	DECIMAL	33	CPHAP_XDUMP_LIKELSQA	XDUMP
1	DECIMAL	255	CPHAP_XDUMP_ALL	XDUMP
CPHA CONSTANTS				
4	CHARACTER	CPHA	CPHAIDEYE	Eyecatcher
4	DECIMAL	203	CPHASUBPOOLPVT	Subpool used for the CPHA when it is a private area pool
4	DECIMAL	245	CPHASUBPOOLCOM	Subpool used for the CPHA when it is a common area pool the same size as the CPHA.
4	DECIMAL	512	CPHAPOOLSIZE	CPHAs are obtained with IARST64 GET as long as the pool being build is not for the same size as the pool used for the CPHA. This avoids recursive gets.
4	DECIMAL	0	CPHAOFFSETCHECK_CPHAEXT	Check for Quadword

IAXCPHA mapping

Table 10. Cross Reference for IAXCPHA

Name	Offset	Hex Tag
CPHA	0	
CPHAB	0	
CPHAB_KEYUSED_CONVERTSIZE64	4	04
CPHAB_KEYUSED_CONVERTSTART	4	10
CPHAB_KEYUSED_DUMP	7B	80
CPHAB_KEYUSED_GUARDSIZE64	4	08
CPHAB_KEYUSED_KEY	4	80
CPHAB_KEYUSED_MOTKN	4	02
CPHAB_KEYUSED_OPTIONVALUE	7B	40
CPHAB_KEYUSED_OWNERJOBNAME	4	01
CPHAB_KEYUSED_SVCDUMPRGN	7B	20
CPHAB_KEYUSED_TTOKEN	4	20
CPHAB_KEYUSED_UNITS	A8	80
CPHAB_KEYUSED_USERTKN	4	40
CPHAB_XAFFINITY_SYSTEM	6	40
CPHAB_XALETVALUE	48	
CPHAB_XAMOUNTSIZE_1MEG	7A	02
CPHAB_XAMOUNTSIZE_4K	7A	04
CPHAB_XATTRIBUTE_DEFS	7B	10
CPHAB_XATTRIBUTE_NOTOWNERGONE	7B	04
CPHAB_XATTRIBUTE_OWNERGONE	7B	08
CPHAB_XCHANGEACCESS_GLOBAL	5	08
CPHAB_XCLEAR_NO	7	40
CPHAB_XCOND_YES	5	80
CPHAB_XCONTROL_AUTH	5	20
CPHAB_XCONVERT_FROMGUARD	7	02
CPHAB_XCONVERT_TOGUARD	7	04
CPHAB_XCONVERTSIZE	44	
CPHAB_XCONVERTSIZE64	60	
CPHAB_XCONVERTSTART	58	
CPHAB_XDETACHFIXED_YES	7A	20
CPHAB_XDMAPAGETABLE	98	
CPHAB_XDOAUTHCHECKS_YES	7A	10
CPHAB_XDUMP	7C	
CPHAB_XDUMPPRIORITY	78	
CPHAB_XDUMPPROTOCOL_YES	79	80
CPHAB_XFLAGS0	2	
CPHAB_XFLAGS0_RSVD1	2	1F
CPHAB_XFLAGS1	4	
CPHAB_XFLAGS2	5	
CPHAB_XFLAGS3	6	
CPHAB_XFLAGS4	7	
CPHAB_XFLAGS5	79	
CPHAB_XFLAGS6	7A	
CPHAB_XFLAGS7	7B	
CPHAB_XFLAGS8	7D	
CPHAB_XFLAGS8_RSVD1	7D	3F
CPHAB_XFLAGS9	A8	
CPHAB_XFLAGS9_RSVD1	A8	03

Table 10. Cross Reference for IAXCPHA (continued)

Name	Offset	Hex Tag
CPHAB_XFPROT_NO	5	40
CPHAB_XGUARDLOC_HIGH	5	10
CPHAB_XGUARDSIZE	40	
CPHAB_XGUARDSIZE64	68	
CPHAB_XKEEPREAL_NO	7	01
CPHAB_XKEY	3	
CPHAB_XLOCALSYSAREA_YES	7A	08
CPHAB_XLONG_NO	7	80
CPHAB_XMATCH_MOTOKEN	2	20
CPHAB_XMATCH_USERTOKEN	6	80
CPHAB_XMEMLIMIT_COND	7A	01
CPHAB_XMEMLIMIT_NO	7A	40
CPHAB_XMEMOBJSTART	38	
CPHAB_XMOTKN	20	
CPHAB_XMOTKNCREATOR_SYSTEM	2	40
CPHAB_XMOTKNSOURCE_SYSTEM	2	80
CPHAB_XNUMRANGE	4C	
CPHAB_XOPTIONVALUE	80	
CPHAB_XORDER_DUMPPRIORITY	79	40
CPHAB_XORIGIN	28	
CPHAB_XOUTMOTKN	20	
CPHAB_XOWNER_NO	6	10
CPHAB_XOWNERASID	7E	
CPHAB_XOWNERCOM_BYASID	79	01
CPHAB_XOWNERCOM_HOME	79	08
CPHAB_XOWNERCOM_PRIMARY	79	04
CPHAB_XOWNERCOM_SYSTEM	79	02
CPHAB_XOWNERJOBNAME	89	
CPHAB_XPAGEFRAMESIZE_ALL	5	01
CPHAB_XPAGEFRAMESIZE_DREF1MEG	7D	40
CPHAB_XPAGEFRAMESIZE_MAX	5	02
CPHAB_XPAGEFRAMESIZE_PAGEABLE1MEG	7D	80
CPHAB_XPAGEFRAMESIZE_1M	A8	10
CPHAB_XPAGEFRAMESIZE_1MEG	5	04
CPHAB_XPAGEFRAMESIZE_2G	A8	08
CPHAB_XRANGLIST	30	
CPHAB_XREQUEST	1	
CPHAB_XRSV0001	81	
CPHAB_XRSV0004	91	
CPHAB_XRSV0005	A9	
CPHAB_XSEGMENTS	8	
CPHAB_XSVCUMPRGN_ALL	6	01
CPHAB_XSVCUMPRGN_NO	6	04
CPHAB_XTRACKINFO_YES	7B	02
CPHAB_XTTOKEN	10	
CPHAB_XTYPE_DREF	79	10
CPHAB_XTYPE_FIXED	A8	04
CPHAB_XTYPE_PAGEABLE	79	20
CPHAB_XUNITS	A0	

IAXCPHA mapping

Table 10. Cross Reference for IAXCPHA (continued)

Name	Offset	Hex Tag
CPHAB_XUNITSIZE_1M	A8	40
CPHAB_XUNITSIZE_2G	A8	20
CPHAB_XUNLOCKED_YES	7B	01
CPHAB_XUSERTKN	20	
CPHAB_XUSERTOKEN	70	
CPHAB_XUSE2GT032G_YES	6	20
CPHAB_XVERSION	0	
CPHAB_XVIEW_HIDDEN	7	08
CPHAB_XVIEW_READONLY	7	20
CPHAB_XVIEW_SHAREDWRITE	7	10
CPHAB_XV64COMMON_NO	7A	80
CPHAB_XV64LISTLENGTH	54	
CPHAB_XV64LISTPTR	50	
CPHAB_XV64SELECT_NO	6	08
CPHAB_XV64SHARED_NO	6	02
CPHACELLSIZE	44	
CPHACELLSZ	4C	
CPHACELLSZREQ	40	
CPHACPHD	38	
CPHAEXT	60	
CPHAEXTANC	60	
CPHAEXTSEQ	68	
CPHAFLG1	5	
CPHAF1FIXED	5	80
CPHAF1ST64	5	20
CPHAF1TRY1IMPAGESIZE	5	40
CPHAID	0	
CPHAKEY	6	
CPHALOCSYSA	5	10
CPHANEXT	C	
CPHANUMCAEPAGESTOFIX	48	
CPHANUMCELLPAGESTOFIX	49	
CPHAP	80	
CPHAP_KEYUSED_CONVERTSIZE64	84	04
CPHAP_KEYUSED_CONVERTSTART	84	10
CPHAP_KEYUSED_DUMP	FB	80
CPHAP_KEYUSED_GUARDSIZE64	84	08
CPHAP_KEYUSED_KEY	84	80
CPHAP_KEYUSED_MOTKN	84	02
CPHAP_KEYUSED_OPTIONVALUE	FB	40
CPHAP_KEYUSED_OWNERJOBNAME	84	01
CPHAP_KEYUSED_SVCDUMPRGN	FB	20
CPHAP_KEYUSED_TTOKEN	84	20
CPHAP_KEYUSED_UNITS	128	80
CPHAP_KEYUSED_USERTKN	84	40
CPHAP_XAFFINITY_SYSTEM	86	40
CPHAP_XALETVALUE	C8	
CPHAP_XAMOUNTSIZE_1MEG	FA	02
CPHAP_XAMOUNTSIZE_4K	FA	04

Table 10. Cross Reference for IAXCPHA (continued)

Name	Offset	Hex Tag
CPHAP_XATTRIBUTE_DEFS	FB	10
CPHAP_XATTRIBUTE_NOTOWNERGONE	FB	04
CPHAP_XATTRIBUTE_OWNERGONE	FB	08
CPHAP_XCHANGEACCESS_GLOBAL	85	08
CPHAP_XCLEAR_NO	87	40
CPHAP_XCOND_YES	85	80
CPHAP_XCONTROL_AUTH	85	20
CPHAP_XCONVERT_FROMGUARD	87	02
CPHAP_XCONVERT_TOGUARD	87	04
CPHAP_XCONVERTSIZE	C4	
CPHAP_XCONVERTSIZE64	E0	
CPHAP_XCONVERTSTART	D8	
CPHAP_XDETACHFIXED_YES	FA	20
CPHAP_XDMAPAGETABLE	118	
CPHAP_XDOAUTHCHECKS_YES	FA	10
CPHAP_XDUMP	FC	
CPHAP_XDUMPPRIORITY	F8	
CPHAP_XDUMPPROTOCOL_YES	F9	80
CPHAP_XFLAGS0	82	
CPHAP_XFLAGS0_RSVD1	82	1F
CPHAP_XFLAGS1	84	
CPHAP_XFLAGS2	85	
CPHAP_XFLAGS3	86	
CPHAP_XFLAGS4	87	
CPHAP_XFLAGS5	F9	
CPHAP_XFLAGS6	FA	
CPHAP_XFLAGS7	FB	
CPHAP_XFLAGS8	FD	
CPHAP_XFLAGS8_RSVD1	FD	3F
CPHAP_XFLAGS9	128	
CPHAP_XFLAGS9_RSVD1	128	03
CPHAP_XFPROT_NO	85	40
CPHAP_XGUARDLOC_HIGH	85	10
CPHAP_XGUARDSIZE	C0	
CPHAP_XGUARDSIZE64	E8	
CPHAP_XKEEPREAL_NO	87	01
CPHAP_XKEY	83	
CPHAP_XLOCALSYSAREA_YES	FA	08
CPHAP_XLONG_NO	87	80
CPHAP_XMATCH_MOTOKEN	82	20
CPHAP_XMATCH_USERTOKEN	86	80
CPHAP_XMEMLIMIT_COND	FA	01
CPHAP_XMEMLIMIT_NO	FA	40
CPHAP_XMEMOBJSTART	B8	
CPHAP_XMOTKN	A0	
CPHAP_XMOTKNCREATOR_SYSTEM	82	40
CPHAP_XMOTKNSOURCE_SYSTEM	82	80
CPHAP_XNUMRANGE	CC	
CPHAP_XOPTIONVALUE	100	

IAXCPHA mapping

Table 10. Cross Reference for IAXCPHA (continued)

Name	Offset	Hex Tag
CPHAP_XORDER_DUMPRIORITY	F9	40
CPHAP_XORIGIN	A8	
CPHAP_XOUTMOTKN	A0	
CPHAP_XOWNER_NO	86	10
CPHAP_XOWNERASID	FE	
CPHAP_XOWNERCOM_BYASID	F9	01
CPHAP_XOWNERCOM_HOME	F9	08
CPHAP_XOWNERCOM_PRIMARY	F9	04
CPHAP_XOWNERCOM_SYSTEM	F9	02
CPHAP_XOWNERJOBNAME	109	
CPHAP_XPAGEFRAMESIZE_ALL	85	01
CPHAP_XPAGEFRAMESIZE_DREF1MEG	FD	40
CPHAP_XPAGEFRAMESIZE_MAX	85	02
CPHAP_XPAGEFRAMESIZE_PAGEABLE1MEG	FD	80
CPHAP_XPAGEFRAMESIZE_1M	128	10
CPHAP_XPAGEFRAMESIZE_1MEG	85	04
CPHAP_XPAGEFRAMESIZE_2G	128	08
CPHAP_XRANGLIST	B0	
CPHAP_XREQUEST	81	
CPHAP_XRSV0001	101	
CPHAP_XRSV0004	111	
CPHAP_XRSV0005	129	
CPHAP_XSEGMENTS	88	
CPHAP_XSVCUMPRGN_ALL	86	01
CPHAP_XSVCUMPRGN_NO	86	04
CPHAP_XTRACKINFO_YES	FB	02
CPHAP_XTTOKEN	90	
CPHAP_XTYPE_DREF	F9	10
CPHAP_XTYPE_FIXED	128	04
CPHAP_XTYPE_PAGEABLE	F9	20
CPHAP_XUNITS	120	
CPHAP_XUNITSIZE_1M	128	40
CPHAP_XUNITSIZE_2G	128	20
CPHAP_XUNLOCKED_YES	FB	01
CPHAP_XUSERTKN	A0	
CPHAP_XUSERTOKEN	F0	
CPHAP_XUSE2GT032G_YES	86	20
CPHAP_XVERSION	80	
CPHAP_XVIEW_HIDDEN	87	08
CPHAP_XVIEW_READONLY	87	20
CPHAP_XVIEW_SHAREDWRITE	87	10
CPHAP_XV64COMMON_NO	FA	80
CPHAP_XV64LISTLENGTH	D4	
CPHAP_XV64LISTPTR	D0	
CPHAP_XV64SELECT_NO	86	08
CPHAP_XV64SHARED_NO	86	02
CPHAPAGEFIXCAEMASK	8	
CPHAPTCBFROMTTOKEN	9C	
CPHARSV1	7	

Table 10. Cross Reference for IAXCPHA (continued)

Name	Offset	Hex Tag
CPHARSV2	28	
CPHARSV3	50	
CPHARSV4	70	
CPHASP	4	
CPHAUSERDATA	10	
CPHAUSERTKN	30	
CPHAV64PL	80	

IAXCPHA mapping

Chapter 2. IAXCPHD Information

IAXCPHD Heading Information

Common Name: RSM Cell Pool Header
 Macro ID: IAXCPHD
 DSECT Name: CPHD
 Owning Component: REAL STORAGE MANAGER (SC1CR)
 Eye-Catcher ID: CPHD
 Offset: 0
 Length: 4 bytes
 Storage Attributes: Virtual Storage: YES
 Subpool: Resides in 64 bit storage with the same attributes
 of the cell pool that it manages.
 Key: Key of the pool
 Data Space: NO
 Residency: Above the bar
 Size: ??? bytes
 Created by: IARCYBLD
 Pointed to by: Cell pool ID returned from IARCP64 BUILD
 CPHACPHD points back to the header.
 Serialization: CDSG is used to update queue headers.
 Function: The CPHD contains a the anchors for a 64 bit cell pool.
 1. Anchor to free chain of cells.
 2. Pointer to the next free cell in the active extent.
 3. Pointer to the CPHA that contains things the user of
 the pools should not be able to modify.

IAXCPHD mapping

Table 11. Structure CPHD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	256	CPHD	Note that the CPHD is always on a page boundary at the start of a meg.
0	(0)	CHARACTER	80	CPHDCOMMON	Data that is common to all extents in the pool
0	(0)	CHARACTER	16	CPHDVERIFYAREA	Area copied with caller's key during IARCP64 DELETE process
0	(0)	CHARACTER	4	CPHDID	Cphd control block identifier
4	(4)	CHARACTER	1	CPHD TYP	EBCDIC character to identify the type of Cphd M for Main extent S for Secondary extent
5	(5)	BITSTRING 1...	1	CPHD FLG1 CPHDTRAILERACTIVE	Flag bits As long as the requested size is at least 4 bytes less than the rounded up cell size, a trailer will be set in the cell on GET and tested on FREE to detect cell overruns.

IAXCPHD mapping

Table 11. Structure CPHD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
	.1..	....		CPHDPRESERVE	Data in cells should not be overlaid with DIAGxx DIRTY processing.
	..1.	....		CPHDST64	Indicates that this Cellpool is part of an IARST64 pool
	...1	....		CPHDCOULDBEDISABLED	This pool is fixed or DREF, so caller can be disabled.
6	(6)	CHARACTER	2	CPHDRSV1	Reserved
8	(8)	ADDRESS	8	CPHDCPHA	Address of the CPHA containing cell pool stuff we don't want the user to be able to alter. Note that after a fork, this pointer in a secondary extent is likely incorrect. We don't use it from extents, so that's OK.
Start Quadword 2					
16	(10)	CHARACTER	64	CPHDRESTOFCOMMON	Area copied with caller's key Control Area space.
16	(10)	UNSIGNED	4	CPHDCAASP	
20	(14)	UNSIGNED	4	CPHDCAESIZE	Size of a single control area element.
24	(18)	ADDRESS	8	CPHDCPHD	Address of main CPHD for the cell pool
Start Quadword 3					
32	(20)	CHARACTER	24	CPHDUSERDATA	Caller provided test string to make it easy to spot cell pool extents in a dump.
56	(38)	UNSIGNED	4	CPHDCELLSIZE	Size of the cells in this pool. This is the size after the build routine has rounded the user's request to the appropriate boundary.
60	(3C)	UNSIGNED	4	CPHDHIIDX	Highest index into control array makes for faster test. This +1 is the number of cells in an extent
Start Quadword 5					
64	(40)	CHARACTER	16	CPHDRSV2	Reserved for common stuff
Start Quadword 6					
80	(50)	CHARACTER	48	CPHDUNIQUE	Data unique to each extent
80	(50)	CHARACTER	16	CPHDUANCHORS	Anchors for this extent.
80	(50)	ADDRESS	8	CPHDCAANC	Address of the control array in the extent.
88	(58)	ADDRESS	8	CPHDCELLANC	Address of the first cell in the extent.
Start Quadword 7					
96	(60)	CHARACTER	16	CPHDUEXTCHAIN	Extent chain.
96	(60)	ADDRESS	8	CPHDURSV1	Reserved for a sequence number if we ever add logic to compress a pool and need to remove CPHDs from the chain with CDSG.

Table 11. Structure CPHD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
104	(68)	ADDRESS	8	CPHDNEXTTEXT	Address of the next extent in the chain. Update with CSG. No seq number needed since nothing is ever removed from the chain
112	(70)	CHARACTER	16	CPHDUOTHER	Other stuff unique to this extent.
112	(70)	BITSTRING 1... ..	1	CPHDUFLG CPHDUIMPAGESIZE	Flag bits This extent was allocated with a 1M page size.
113	(71)	CHARACTER	15	CPHDURSV2	Reserved
Start Quadword 8					
128	(80)	CHARACTER	48	CPHDMAIN	Data used only in main extent
Quadword alignment is required for the following anchors since they are updated with CDSG.					
128	(80)	CHARACTER	16	CPHDFREECH	Anchor for free chain of cells. Serialization: CDSG with an incremented sequence number. MUST BE QUADWORD BOUNDARY
128	(80)	ADDRESS	8	CPHDFREEANC	Pointer to the first free control array element in a LIFO queue. When the queue is empty, this will have a value of CphdEndQ.
136	(88)	UNSIGNED	8	CPHDFREESEQ	Sequence number for the CDSG to update.
Start Quadword 9					
144	(90)	CHARACTER	16	CPHDHWM	Pointer to the High Water Mark in the active extent. Serialization: CDSG with an incremented sequence number. MUST BE QUADWORD BOUNDARY
144	(90)	ADDRESS	8	CPHDHWMANC	Pointer to the control array element that is at the HWM. or zero if the active extent has been consumed and a new extent is needed.
152	(98)	UNSIGNED	8	CPHDHWMSEQ	Sequence number for the CDSG to update.
160	(A0)	CHARACTER	16	CPHDRSV2	Reserved

Table 12. Structure CPHDCAEST64

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	32	CPHDCAEST64	Control array element for IARST64
0	(0)	CHARACTER	16	CPHDCAECP64	Control array element for IARCP64
0	(0)	ADDRESS	8	CPHDCAENEXT	Address of next free cell or other control info.
0	(0)	ADDRESS	8	CPHDCAEREQUESTOR	Return address of the requestor for the cell

IAXCPHD mapping

Table 12. Structure CPHDCAEST64 (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
0	(0)	BITSTRING		7	*	
7	(7)	....	...1		CPHDCAEINUSE	0 - cell is on the free Q 1 - cell is in use
8	(8)	BITSTRING		1	CPHDCAEFLAG1	Flags
		1...	....		CPHDCAEFTRACE	A system trace entry was created on GET and needs to be done on FREE.
9	(9)	BITSTRING		1	CPHDCAERSV	Reserved
10	(A)	SIGNED		2	CPHDCAEOWNERASID	Owner ASID when cell is in a common IARST64 pool
12	(C)	UNSIGNED		4	CPHDCAESIZEREQ	Size of cell requested if at least 4 bytes less than the cell size, we can do a trailer.
16	(10)	CHARACTER		8	CPHDCAESTCK	Timestamp of when the cell was obtained or freed.
24	(18)	CHARACTER		8	CPHDCAERSV2	Reserved

Table 13. Constants for IAXCPHD

Len	Type	Value	Name	Description
CPHD CONSTANTS				
4	CHARACTER	CPHD	CPHDIDEYE	Eyecatcher
1	CHARACTER	M	CPHDTPMAIN	Eyecatcher extension indicates the main CPHD for this pool
1	CHARACTER	S	CPHDTPSEC	Eyecatcher extension indicates a secondary extent for this pool.
8	NUMB HEX	0000000080000000	CPHDENDQ	Value used to indicate an empty queue or end of queue.
2	HEX	0001	CPHDLOWBIT	Mask to set low bit on in control array entry to indicate the cell is in use with the address being the return @ of the requestor.
8	HEX	FFFFFFFFF00000	CPHDMEGMASK	Mask used to round an address to a meg boundary to get to the CPHD for this extent.
1	HEX	4F	CPHDDEFAULTPAD	Default pad character if not set in DGNB
4	CHARACTER	A2C4	CPHDTRAILER	Trailer characters that are placed at the end of a cell to detect overruns.
4	DECIMAL	0	CPHDOFFSETCHECK_CPHDFREECH	Check for Quadword
4	DECIMAL	0	CPHDOFFSETCHECK_CPHDHWM	Check for Quadword

Table 14. Cross Reference for IAXCPHD

Name	Offset	Hex Tag
CPHD	0	
CPHDCAANC	50	
CPHDCAECP64	0	
CPHDCAEFLAG1	8	
CPHDCAEFTRACE	8	80

Table 14. Cross Reference for IAXCPHD (continued)

Name	Offset	Hex Tag
CPHDCAEINUSE	7	01
CPHDCAENEXT	0	
CPHDCAEOWNERASID	A	
CPHDCAEREQUESTOR	0	
CPHDCAERSV	9	
CPHDCAERSV2	18	
CPHDCAESIZE	14	
CPHDCAESIZEREQ	C	
CPHDCAESTCK	10	
CPHDCAEST64	0	
CPHDCASPC	10	
CPHDCELLANC	58	
CPHDCELLSIZE	38	
CPHDCOMMON	0	
CPHDCOULDBEDISABLED	5	10
CPHDCPHA	8	
CPHDCPHD	18	
CPHDFLG1	5	
CPHDFREEANC	80	
CPHDFREECH	80	
CPHDFREESEQ	88	
CPHDHIIDX	3C	
CPHDHWM	90	
CPHDHWMANC	90	
CPHDHWMSEQ	98	
CPHDID	0	
CPHDMAIN	80	
CPHDNEXTTEXT	68	
CPHDPRESERVE	5	40
CPHDRESTOFCOMMON	10	
CPHDRSV1	6	
CPHDRSV2	40	
CPHDRSV2	A0	
CPHDST64	5	20
CPHDTRAILERACTIVE	5	80
CPHDTYP	4	
CPHDUANCHORS	50	
CPHDUEXTCHAIN	60	
CPHDUFLG	70	
CPHDUNIQUE	50	
CPHDUOTHER	70	
CPHDURSV1	60	
CPHDURSV2	71	
CPHDUSERDATA	20	
CPHDUIMPAGESIZE	70	80
CPHDVERIFYAREA	0	

IAXCPHD mapping

Chapter 3. IAXDAB Information

IAXDAB Heading Information

Common Name: DATA SPACE ADDRESS SPACE BLOCK
 Macro ID: IAXDAB
 DSECT Name: DAB
 Owning Component: REAL STORAGE MANAGER (SC1CR)
 Eye-Catcher ID: DAB
 Offset: 0
 Length: 4
 Storage Attributes: Main Storage: YES
 Virtual Storage: YES
 Auxiliary Storage: N/A
 Subpool: 245
 Key: 0
 Data Space: N/A
 Residency: Above 16M
 Size: See Assembler Listing
 Created by: DSPSERV CREATE (WHEN ADDRESS SPACE OWNS NO
 OTHER USER DATA SPACE)
 Pointed to by: RABDAB
 FREQUENCY: ONE DAB PER ADDRESS SPACE OWNING AT LEAST
 ONE DATA SPACE.
 Serialization: ADDRESS SPACE LEVEL LOCK FOR ADDRESS SPACE
 INITIALIZED BY: DSPSERV CREATE
 DESTROYED BY: NEVER
 Function: THE DAB IS AN EXTENSION OF THE RAB AND CONTAINS
 ADDRESS SPACE RELATED INFORMATION ABOUT DATA SPACES.

IAXDAB mapping

Table 15. Structure DAB

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	120	DAB	
0	(0)	CHARACTER	4	DABID	DAB CONTROL BLOCK ID
4	(4)	ADDRESS	4	DABRAB	ADDRESS OF THE RAB
8	(8)	UNSIGNED	4	DABDSPCT	NUMBER OF USER KEY DATA SPACES CURRENTLY OWNED BY TASKS IN THIS ADDRESS SPACE
12	(C)	CHARACTER	8	DABFIRSTUDDLOCATOR	Ptr and Alet that locates first Udd on the In-Use Queue
12	(C)	ADDRESS	4	DABIUUQF	POINTER TO THE FIRST UDD ON THE IN-USE UDD QUEUE (IUUQ)
16	(10)	UNSIGNED	4	DABIUUAF	ALET OF THE FIRST UDD ON THE IN-USE UDD QUEUE
20	(14)	CHARACTER	8	DABLASTUDDLOCATOR	Ptr and Alet that locates last Udd on the In-Use Queue
20	(14)	ADDRESS	4	DABIUUQL	POINTER TO THE LAST UDD ON THE IN-USE UDD QUEUE
24	(18)	UNSIGNED	4	DABIUUAL	ALET OF THE LAST UDD ON THE IN-USE UDD QUEUE

IAXDAB mapping

Table 15. Structure DAB (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
28	(1C)	ADDRESS		4	*	Reserved
32	(20)	ADDRESS		4	*	Reserved
36	(24)	ADDRESS		4	*	Reserved
40	(28)	ADDRESS		4	*	Reserved
4 DABDDFQF PTR(31), POINTER TO THE FIRST FRAME ON DEFERRED DELETE FRAME QUEUE (DDFQ)						
4 DABDDFQL PTR(31), POINTER TO THE LAST FRAME ON DEFERRED DELETE FRAME QUEUE						
44	(2C)	ADDRESS		4	*	Reserved
48	(30)	ADDRESS		4	*	Reserved
52	(34)	ADDRESS		4	*	Reserved
56	(38)	ADDRESS		4	*	Reserved
60	(3C)	ADDRESS		4	*	Reserved
64	(40)	ADDRESS		4	*	Reserved
68	(44)	ADDRESS		4	DABDSCQF	POINTER TO THE FIRST FCB ON THE DATA SPACE CONTROL QUEUE
72	(48)	ADDRESS		4	DABDSCQL	POINTER TO THE LAST FCB ON THE DATA SPACE CONTROL QUEUE
76	(4C)	ADDRESS		4	DABRVRQF	POINTER TO THE FIRST RVR ON THE USER DATA SPACE RVR QUEUE
80	(50)	ADDRESS		4	DABRVRQL	POINTER TO THE LAST RVR ON THE USER DATA SPACE RVR QUEUE
84	(54)	ADDRESS		4	DABDVCQF	POINTER TO FIRST FCB ON THE DATASPACE VDAC CONTROL QUEUE (DVCQ)
88	(58)	ADDRESS		4	DABDVCQL	POINTER TO LAST FCB ON THE DATASPACE VDAC CONTROL QUEUE (DVCQ)
92	(5C)	SIGNED		4	DABNXGNP	NEXT GENERATED NAME PREFIX
96	(60)	SIGNED		4	DABCNMGN	NUMBER OF CURRENTLY OWNED DATA SPACES WITH GENERATED NAMES FOR THIS ADDRESS SPACE.
100	(64)	ADDRESS		4	*	Reserved
104	(68)	ADDRESS		4	*	Reserved
108	(6C)	BITSTRING		1	DABFLGS1	FLAG BYTE
		1... ..			DABHSPTZ	PDFQ MAY CONTAIN A NON-SHARED HIPERSPACE PAGE TABLE WITH A ZERO FIX COUNT.
		.1..			DABSHARE	SOME UDS AT ONE TIME CONTAINED SHARED PAGES
		..1.			DABMEGAROOED	Some UDS contains shared segments
		...1 1111			*	RESERVED
109	(6D)	CHARACTER		3	*	RESERVED
112	(70)	ADDRESS		8	DABFCUR	PDFQ PREF STEAL CURSOR OR ZERO
120	(78)	CHARACTER		0	*	KEEP DAB A MULTIPLE OF 8 BYTES

Table 16. Cross Reference for IAXDAB

Name	Offset	Hex Tag
DAB	0	
DABCNMGN	60	

Table 16. Cross Reference for IAXDAB (continued)

Name	Offset	Hex Tag
DABDSCQF	44	
DABDSCQL	48	
DABDSPCT	8	
DABDVCQF	54	
DABDVCQL	58	
DABFCUR	70	
DABFIRSTUDDLOCATOR	C	
DABFLGS1	6C	
DABHSP TZ	6C	80
DABID	0	
DABIUUF	10	
DABIUUAL	18	
DABIUUQF	C	
DABIUUQL	14	
DABLASTUDDLOCATOR	14	
DABMEGAROOED	6C	20
DABNXGNP	5C	
DABRAB	4	
DABRVRQF	4C	
DABRVRQL	50	
DABSHARE	6C	40

IAXDAB mapping

Chapter 4. IAXHP1 Information

IAXHP1 Heading Information

Common Name: RSM Heap Pool Level 1 block
 Macro ID: IAXHP1
 DSECT Name: HP1
 Owing Component: REAL STORAGE MANAGER (SC1CR)
 Eye-Catcher ID: HP1
 Offset: 0
 Length: 6 bytes
 Storage Attributes: Virtual Storage: YES
 Subpool: 245, EXTENDED SQA (FIXED COMMON) or Nucleus
 Key: 0
 Data Space: NO
 Residency: MUST be above 16 Megabytes virtual
 Size: ??? bytes
 Created by: IAXMA????
 Pointed to by: ECVTHP1 FIELD OF THE ECVT DATA AREA
 STCBHP1 FIELD OF THE STCB DATA AREA
 Serialization: CSG to set a pointer in the HP1. Loser
 frees the HP2 that it would have pointed to.
 Function: The HP1 contains an array of anchors to Heap Pool 2 blocks.
 Each entry in the HP1 represents a set of storage
 characteristics:
 Fetch protected or Not Fetch protected
 System Key 0-7 for common HP1, Key 0-15 for private HP1
 Type - pagable, DREF, Fixed
 Note that FIXED TYPE is only supported in key 0.

IAXHP1 mapping

Table 17. Structure HP1

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	*	HP1	
0	(0)	CHARACTER	16	HP1_STATIC	Fixed size part of HP1
0	(0)	CHARACTER	6	HP1ID	HP1 Control block identifier
6	(6)	CHARACTER	1	HP1TYP	EBCDIC character to identify the type of hp1 C for Common area HP1, P for Private area HP1
7	(7)	BITSTRING	1	HP1FLGS1	Flag byte 1
8	(8)	UNSIGNED	1	HP1ENTRIES	Number of entries in the HP1HP2 array.
9	(9)	CHARACTER	7	HP1RSV1	Reserved
16	(10)	CHARACTER	*	HP1_VARIABLE	Variable size part of HP1
16	(10)	ADDRESS	8	HP1HP2(*)	Array of pointers to HP2s Serialization: CSG used to set each pointer in Hp1Hp2 HP1 when attribute set is first used.

IAXHP1 mapping

Table 18. Constants for IAXHP1

Len	Type	Value	Name	Description
6	CHARACTER	IAXHP1	HP1IDEYE	Eyecatcher
4	DECIMAL	33	HP1#CATTRHI	Highest index into HP1HP2 for the common HP1.
4	DECIMAL	49	HP1#PATTRHI	Highest index into HP1HP2 the private HP1.
4	DECIMAL	245	HP1#SUBPOOLCOMMON	Subpool for HP1 used for common pools. (SQA)
4	DECIMAL	233	HP1#SUBPOOLPRIVATE	Subpool for HP1 used for private pools. Must be DREF and owned by the task.
1	CHARACTER	C	HP1#TYPECOMMON	Type common
1	CHARACTER	P	HP1#TYPEPRIVATE	Type Private

Chapter 5. IAXHP2 Information

IAXHP2 Heading Information

Common Name: RSM Heap Pool Level 2 block
 Macro ID: IAXHP2
 DSECT Name: HP2
 Owning Component: REAL STORAGE MANAGER (SC1CR)
 Eye-Catcher ID: HP2
 Offset: 0
 Length: 6 bytes
 Storage Attributes: Virtual Storage: YES
 Key: 0
 Data Space: NO
 Residency: Above the bar
 Size: ??? bytes
 Created by: IARCYSTE
 Pointed to by: HP1HP2 field in the IAXHP1 data area
 Serialization: CSG to set a pointer in the HP2. Loser
 frees the HP2 that it would have pointed to.
 Function: The HP2 contains an array of anchors to Heap Pool Header
 blocks.
 Each entry in the HP2 represents a pool of storage cells
 of a fixed size. Range 64 bytes to 128K in multiples of 2.

IAXHP2 mapping

Table 19. Structure HP2

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	120	HP2	
0	(0)	CHARACTER	6	HP2ID	HP2 CONTROL BLOCK IDENTIFIER
6	(6)	BITSTRING	1	HP2FLGS1	FLAG BYTE 1
7	(7)	UNSIGNED	1	HP2ENTRIES	Number of entries in the HP2Ary array.
8	(8)	ADDRESS	8	HP2HP1	Address of HP1 which owns this HP2.
16	(10)	CHARACTER	8	HP2RSV1	Reserved
24	(18)	ADDRESS	8	HP2ARY(12)	Array of pointers to cell pool headers. Serialization: CSG from zero to the cell pool header. Loser of race frees the cell pool header. 1 represents 64 bytes ... 12 represents 128K.

Table 20. Constants for IAXHP2

Len	Type	Value	Name	Description
6	CHARACTER	IAXHP2	HP2IDEYE	Eyecatcher
4	DECIMAL	64	HP2MINSIZE	Smallest cell obtained for requests under 65 bytes

IAXHP2 mapping

Table 20. Constants for IAXHP2 (continued)

Len	Type	Value	Name	Description
4	DECIMAL	245	HP2#SUBPOOLCOMMON	Subpool for HP2 used for common pools. (SQA)
4	DECIMAL	233	HP2#SUBPOOLPRIVATE	Subpool for HP2 used for private pools. Must be DREF and owned by the task.

Chapter 6. IAXPFTE Information

IAXPFTE Heading Information

Common Name: PAGE FRAME TABLE ENTRY
Macro ID: IAXPFTE
DSECT Name: PFTE
Owning Component: Real Storage Manager (SC1CR)
Eye-Catcher ID: None
Storage Attributes: Virtual Storage: Yes
Subpool: N/A (See Residency)
Key: 0
Residency: A dataspace called IARPFT
Size: 64 Bytes
Created by: RSM Initialization

IAXPFTE Heading Information

Pointed to by: PFTFQPTR field of the PFTE Data Area
PFTBQPTR field of the PFTE Data Area
RITPFTE field of the RIT Data Area
RITLPFTE field of the RIT Data Area
RITFPFTE field of the RIT Data Area
RITPAFQF field of the RIT Data Area
RITPAFQL field of the RIT Data Area
RITNAFQF field of the RIT Data Area
RITNAFQL field of the RIT Data Area
RITPBFQF field of the RIT Data Area
RITPBFQL field of the RIT Data Area
RITNBFQF field of the RIT Data Area
RITNBFQL field of the RIT Data Area
RITTFDFQF field of the RIT Data Area
RITTFDFQL field of the RIT Data Area
RITBDFQF field of the RIT Data Area
RITBDFQL field of the RIT Data Area
RITSFQF field of the RIT Data Area
RITSFQL field of the RIT Data Area
RITRSFQF field of the RIT Data Area
RITRSFQL field of the RIT Data Area
RITSBFQF field of the RIT Data Area
RITSBFQL field of the RIT Data Area
RITVRFQF field of the RIT Data Area
RITVRFQL field of the RIT Data Area
RITFVR field of the RIT Data Area
RITLVR field of the RIT Data Area
RITNPFTE field of the RIT Data Area
RITPFTEC field of the RIT Data Area
RITSFFQF field of the RIT Data Area
RITSFFQL field of the RIT Data Area
RITSPFQF field of the RIT Data Area
RITSPFQL field of the RIT Data Area
RITPHFQF field of the RIT Data Area
RITPHFQL field of the RIT Data Area
RITNHFQF field of the RIT Data Area
RITNHFQL field of the RIT Data Area
RITQSFQF field of the RIT Data Area
RITQSFQL field of the RIT Data Area
RITQDFQF field of the RIT Data Area
RITQDFQL field of the RIT Data Area
RITQHFQF field of the RIT Data Area
RITQHFQL field of the RIT Data Area
RIT2GPFTE field of the RIT Data Area
RITPFTEC field of the RIT Data Area
RITPFTAC field of the RIT Data Area
RITGDFQF field of the RIT Data Area
RITGDFQL field of the RIT Data Area
RITQDPrefStealCursor field of the RIT Data Area
RITQDStealCursor field of the RIT Data Area
PCBPFTE field of the PCB Data Area
RABPFQF field of the RAB Data Area
RABPFQL field of the RAB Data Area
RABFFQF field of the RAB Data Area
RABFFQL field of the RAB Data Area
RABDFFQF field of the RAB Data Area
RABDFFQL field of the RAB Data Area

Serialization: Varies
Function: Represents a FRAME to RSM

IAXPFTE mapping

Table 21. Structure PFTE

Offset	Offset		Len	Name(Dim)	Description
Dec	Hex	Type			
0	(0)	STRUCTURE	64	PFTE	
0	(0)	CHARACTER	16	PFTSECTP	PFTE Queue Pointer Section
0	(0)	CHARACTER	16	*	
0	(0)	STRUCTURE	16	PFTEQUEUEANCHOR	Anchor for the Pfte queue - The following methods use this TYPE: PfteM_cChainAdd
		IsA(CONST_TANCHORLINK)			
0	(0)	CHARACTER	16	*	
0	(0)	CHARACTER	16	*	As anchor
0	(0)	ADDRESS	8	FIRST@	
8	(8)	ADDRESS	8	LAST@	
0	(0)	CHARACTER	16	*	As link
0	(0)	ADDRESS	8	NEXT@	
8	(8)	ADDRESS	8	PREV@	
0	(0)	CHARACTER	16	*	
0	(0)	ADDRESS	8	PFTFQPTR	Forward PFTE queue pointer
0	(0)	UNSIGNED	4	*	
4	(4)	ADDRESS	4	PFTFQPTR31	Forward PFTE queue pointer
8	(8)	ADDRESS	8	PFTBQPTR	Backward PFTE queue pointer
8	(8)	UNSIGNED	4	*	
12	(C)	ADDRESS	4	PFTBQPTR31	Backward PFTE queue pointer
16	(10)	CHARACTER	8	PFTSECTA	PFTE Queue Attributes Section
16	(10)	CHARACTER	4	PFTWORD	
16	(10)	CHARACTER	1	PFTQID	
<p>QUEUE ID FOR CURRENT QUEUE UNLESS THE PFTE IS ON AN AVAILABLE FRAME QUEUE----</p> <p>08=>TOP-DOUBLE-FRAME-QUEUE</p> <p>09=>BOTTOM-DOUBLE-FRAME-QUEUE</p> <p>21=>SQA-FRAME-QUEUE</p> <p>22=>RESERVED-SQA-FRAME-QUEUE</p> <p>23=>REAL-STG-BUF-FRAME-QUEUE</p> <p>24=>V=R-WAITING-FRAME-QUEUE</p> <p>25=>General Defer Frame Queue</p> <p>40=>SHARED-PAGE-FIXED-FR-QUEUE</p> <p>41=>SHARED-PAGE-PAGEABLE-FR-QUEUE</p> <p>81=>PAGEABLE-FRAME-QUEUE</p> <p>82=>FIXED-FRAME-QUEUE</p> <p>83=>DEFERRED-FREEMAIN-FR-QUEUE</p> <p>84=>HIGH VIRTUAL FRAME QUEUE</p> <p>85=>LOCAL QUAD FRAME QUEUE</p> <p>86=>PAGE TABLE FRAME QUEUE</p> <p>87=>Local Large Page Frame Queue (which includes fixed large frames for PCIE)</p> <p>88=>Pageable Large Frame Queue</p> <p>89=>2G Page Frame Queue</p> <p>A1=>PAGEABLE-DATA-SPACE-FR-QUE</p> <p>A2=>FIXED-DATA-SPACE-FR-QUEU</p> <p>A3=>DEFERRED-DELETE-FR-QUEUE</p> <p>A4=>Pageable Large Dataspace</p> <p>E0=>PAGEABLE-RDD-FRAME-QUEUE</p> <p>E1=>FIXED-RDD-FRAME-QUEUE</p> <p>E2=>ORPHAN-FRAME-QUEUE</p> <p>F0=>UNQUEUED..DAT-OFF-NUCLEUS</p> <p>F1=>UNQUEUED..READ-ONLY-NUC.</p> <p>F2=>UNQUEUED..READ/WRITE-NUC.</p> <p>F3=>UNQUEUED..RSM DATA FRAME</p> <p>F4=>UNQUEUED..HW-SYSTEM-AREA</p> <p>F5=>UNQUEUED..ABS.-ZERO-FRAME</p> <p>F6=>UNQUEUED..FIXED-LPA/BLDL</p> <p>FD=>A-FLAWED-PFTE</p> <p>FE=>UNQUEUED..UNINITIALIZED</p> <p>FF=>UNQUEUED-PFTE</p>					
17	(11)	UNSIGNED	1	*	
17	(11)	UNSIGNED	1	PFTUIC	NUMBER OF UPDATE INTERVALS DURING WHICH FRAME WAS NOT REFERENCED
		1... ..		PFTOLD	This pfte is old
17	(11)	UNSIGNED	1	PFTOLDQID	Residual PftQid when Pfte is freed to AFQ when RSMAD lock is held shared
18	(12)	BITSTRING	1	PFTFLGS2	FLAG BYTE 2 (ALLOCATION FLAGS)

IAXPFTE mapping

Table 21. Structure PFTE (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
		1...	....		PFTONAFQ	PFTE IS ON AN AFQ
		.1..	....		PFTPERM	FRAME IS BACKING PERMANENT STG
		..1.	....		PFTOFFLN	FRAME IS OFF-LINE
		...1	....		PFTVIODP	This PFTE contains a VIO dataset page
		....	1..		PFTVRWT	FRAME IS WAITING FOR V=R ALLOC.
		....	.1..		PFTVRALC	FRAME IS ALLOCATED TO V=R
		....	..1.		PFTDREF	FRAME IS BACKING A DREF PAGE
		....	...1		PFTDSPPG	FRAME IS BACKING A DATA SPACE PAGE
19	(13)	BITSTRING		1	PFTFLGS3	FLAG BYTE 3 (MISC. FLAGS)
		1...	....		PFTIOCUR	I/O IS CURRENT FOR THIS FRAME
		.1..	....		PFTLARGEPAGEGROUPINDICATOR	
		.1..	....		PFTLARGEPAGEAVAIL	1 = All 256 contiguous Pftes are available to be used as a 1M large frame (This bit is only applicable in the 1st Pfte of the 256 contiguous Pftes)
		.1..	....		PFTLARGEUSEDASPAGEABLE1M	1 = All 256 contiguous Pftes are being used as a 1M pageable large frame even though this frame group is from the LFAREA (This bit is only applicable in the 2nd Pfte of the 256 contiguous Pftes)
		.1..	....		PFT2GPAGEAVAIL	1 = All 524288 contiguous Pftes are available to be used as a 2G page frame (This bit is only applicable in the 1st Pfte of the 524888 contiguous Pftes)
		..1.	....		PFTVIORU	THIS FRAME IS VIO REUSABLE
		...1	....		PFTVRINT	FRAME IS V=R INTERCEPTED
		....	1..		PFTOFINT	FRAME IS OFFLINE INTERCEPTED
		....	.1..		PFTNOREC	INTERCEPTED FRAME SUMMARY BIT- THIS FRAME HAS BEEN INTERCEPTED AND SHOULD NOT BE TAKEN UNLESS IT IS SENT TO AN AVAILABLE FRAME QUEUE. ALSO, THE PAGE ASSOCIATED WITH THE FRAME CANNOT BE REVALIDATED WITH A DIFFERENT FRAME IF A REQUEST FOR THE PAGE IS CURRENTLY ON THE DPQ.
Whenever this bit is set or cleared, needs to set or clear PFTNCONF bit except in reconfig code						
		....	..1.		PFTIOMC	I/O FOR THIS FRAME MUST COMPLETE INTACT. NEITHER THE FRAME NOR THE DATA MAY BE USED UNTIL THE I/O HAS COMPLETED.
		....	...1		PFTNCONF	If on, indicates that somebody other than reconfig set the PFTNOREC bit. This bit should be set or cleared when NOREC bit is set or cleared

Table 21. Structure PFTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
20	(14)	CHARACTER	4	PFTFCWRD	FIX COUNT WORD. SERIALIZED BY COMPARE AND SWAP. NOTE: PFTFXCT MUST ALWAYS BE THE LOW ORDER HALFWORD OF THIS FIELD FOR ?INC/DECFXCT TO WORK.
20	(14)	CHARACTER	1	PFTFREID	ID OF QUEUE TO WHICH THIS PFTE IS TO BE RETURNED WHEN FREED-- 01=>PREFERRED-ABOVE-AFQ 02=>NON-PREFERRED-ABOVE-AFQ 03=>PREFERRED-BELOW-AFQ 04=>NON-PREFERRED-BELOW-AFQ 05=>PREFERRED-HIGH-AFQ 06=>NON-PREFERRED-HIGH-AFQ 07=>NON-PREFERRED-QUAD-AFQ 08=>TOP-DOUBLE-FRAME-QUEUE 09=>BOTTOM-DOUBLE-FRAME-QUEUE 0A=>Large Page Frame Available ID (which includes fixed large frames for PCIE) 0B=>Pageable Large Pref-AFQ 0C=>Pageable Large Non-Pref-AFQ 0D=>2G Page Frame-AFQ FF=>NON-FREEABLE-PFTE
21	(15)	BITSTRING	1	PFTFLGS1	FLAG BYTE 1 (PHYSICAL FLAGS). SINCE PFTFCWRD IS DECLARED ABNL, PL/X WILL GENERATE COMPARE AND SWAP INSTRUCTIONS WHEN UPDATING THESE FLAGS.
		1...		PFTPREF	PFTE IS FOR PREFERRED AREA
		.1..		PFTBELOW	PFTE IS FOR REAL BELOW 16M
		..1.		PFTVR	PFTE IS A V=R CANDIDATE
		...1		PFTLARGEPAGEREFORM	All 256 contiguous PFTEs should be reformed to a 1M large frame. Set before processing any PFTE to ensure serialization with IAXUR
		.... 1...		PFTLARGEPAGE	PFTE is part of a pageable or fixed large frame group, set in each PFTE
		.... .1..		PFTSRBSC	SRB HAS BEEN SCHEDULED TO DO FRAME DEALLOCATION.
		.... ..1.		PFTNOUNC	NO UNCORRECTABLE ERRORS HAVE OCCURRED WITHIN THE FRAME. THIS BIT IS MEANINGFUL ONLY WHEN PFTBADFR=1.
		.... ..1.		PFTIOERR	Indicates I/O error for unvirtualized I/O. Only set if PftBadFr is off
		.... ...1		PFTBADFR	BAD FRAME - DO NOT REALLOCATE
22	(16)	SIGNED	2	PFTFXCT	FIX COUNT FOR THIS FRAME

IAXPFTE mapping

Table 21. Structure PFTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
<p>Note: The fix count for a page table should match the number of pages with associated real (valid or with I/O current). The fix count for a segment table has three cases: 1) For 31-bit: the count is always zero. 2) For 64-bit: the count should match the number of segments with data (both valid and on aux) 3) For data spaces: the count should match the number of 1M pages with data (both valid and on aux) plus the number of page tables with associated real (valid or with I/O current but not including page tables on aux).</p>					
24	(18)	CHARACTER	40	PFTSECTR	PFTE Queue Remaining Section
24	(18)	CHARACTER	4	PFTSER	PFTE SERIALIZATION WORD
24	(18)	BITSTRING	2	PFTSERFL	Flags portion of PftSer
		1... ..		PFTRDS	THIS PFTE IS SERIALIZED BY AN RSMDS LOCK
		.1.. ..		PFTSPAGE	THIS PFTE IS IN USE FOR A SHARED PAGE AND IS SERIALIZED BY THE RSMAD/XM/CM/ST LOCK OF COMMON. PFTSDH CONTAINS THE ADDRESS OF THE SDH FOR THE SHARED PAGE GROUP
		..1.		PFTLSQA	FRAME IS BACKING SQA OR LSQA
		...1		PFTMEGAROOED	Shared meg page
		.... 1...		PFTTERM	This is a PFTE that was put on Common's PFQ by termination
		.... .1..		PFTHVSPAGE	THIS PFTE IS IN USE FOR A HIGH SHARED PAGE.
		.... ..1.		PFTONCPUAFQ	If on, the pfte is on a cpu related AFQ
		.... ...1		PFTPRECLEARED	The pfte represents a frame that has been cleared to binary zeros
25	(19)	BITSTRING	1	PFTRVTEX	THE RVTE INDEX IF PFTRDS=1
26	(1A)	BITSTRING	2	PFTASID	ASID OF CURRENT OR LAST OWNER
28	(1C)	ADDRESS	8	PFTVSA64	VIRTUAL ADDRESS CURRENTLY OR LAST BACKED BY THIS FRAME. For translation tables for virtual pages above 2G, it will contain the lowest vsa that the table provides translation for, see PFTPGTYP for indicator of table type. E.g., a region 1st table will have PFTVSA64 = 0, an R2 table for 0 to 8P-1 will also have PFTVSA64 = 0, etc.
28	(1C)	CHARACTER	8	PFTLPID	LPID for the VIO dataset Page
28	(1C)	UNSIGNED	4	PFTVSAHI	Top half of virtual address. 0 for pages < 2G.
32	(20)	ADDRESS	4	PFTVSA	VIRTUAL ADDRESS CURRENTLY OR LAST BACKED BY THIS FRAME Field maintained for compatibility with prior code supporting virtual < 2G.
32	(20)	ADDRESS	4	PFTLPIDP	Pointer to the LPID for the VIO dataset Page
32	(20)	UNSIGNED	4	PFTVIORA	VIO DATA SET PAGE REUSE ARGUMENT - VALID IF PFTVIORU=1

Table 21. Structure PFTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
32	(20)	ADDRESS	4	PFTSDH	ADDRESS OF SHARED DATA HEADER - VALID IF PFTSPAGE=1
36	(24)	ADDRESS	4	PFTPCB	ADDRESS OF PCB CURRENTLY BEING USED TO DO I/O FOR THIS FRAME (PFTIOCUR=1) OR PCB LAST USED TO DO THE I/O (PFTIOCUR=0)
36	(24)	BITSTRING	4	PFTMEGAR	Megarooed segment info
36	(24)	BITSTRING	1	PFTSEGNO	Segment number of the segment backed by this Megarooed page table.
37	(25)	.... 1...		*	Reserved
37	(25)	BITSTRING	2	PFTUDSNX	UDS index for the UDD that was source for the Megarooed segment mapped by this page table.
40	(28)	CHARACTER	4	*	
40	(28)	CHARACTER	4	PFTPROG	DATA SPACE PROGRAMMING WORD. THIS FIELD IS VALID IF PFTDSPPG IS ON AND THE FRAME IS NOT ON THE DDFQ.
40	(28)	ADDRESS	4	PFTSPE	Address of the SPE for the view which obtained this PFTE. Valid if PFTSPAGE=1
40	(28)	ADDRESS	4	PFTTCB	ADDRESS OF THE OWNING TCB IF THE FRAME IS ON THE DDFQ
40	(28)	ADDRESS	4	PFTPFTE	Address of the PFTE in the VIO Real Cache that may contain another copy of the data in this frame
40	(28)	CHARACTER	4	PFTALSID	When PFTVIODP=1, the LSID for the auxiliary storage copy of the VIO dataset page
40	(28)	CHARACTER	4	PFTSCMBLOCKID	When PfgPgTyp=7 (unvirtualized data), keeps a copy of the SCM blockid used to prime the frame with
44	(2C)	CHARACTER	4	PFTATTCTCSWORD	CS word for updating PftAttCt when RSMCM serialization is held shared
44	(2C)	BITSTRING	1	PFTPGTYP	0 - Virtual Page 1 - VIO Dataset Page 2 - Page Table 3 - Segment Table 4 - Region 3rd Table 5 - Region 2rd Table 6 - Region 1rd Table 7 - Unvirtualized data 8 - Pageable page table 9 - Freemained Page
45	(2D)	BITSTRING	1	PFTFLGS4	FLAG BYTE 4 (MISC. FLAGS)
		1... ..		PFTVRPLT	THIS FRAME IS CURRENTLY POLLUTING THE V=R AREA
		.1.. ..		PFTNOPRF	FRAME SHOULD NOT BE STOLEN BY GETFRAME PREF STEAL
		..1.		PFTOKFORAUX	The dataspace frame can be paged to aux even when the address space is marked as critical
		...1		PFTPCIEF	FRAME is PCIE PAGE FIXED

IAXPFTE mapping

Table 21. Structure PFTE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
46	(2E)	UNSIGNED	2	PFTATTCT	Attachment count for translation tables: segment and page tables. For segment table PFTE, number of valid region 3rd entries pointing to this frame. For page table PFTE, number of valid segment table entries pointing to this frame.
48	(30)	ADDRESS	8	PFTPTEPTR	When PFTPGTYP is a Virtual Page above 2G, this is the real address of the page table entry for the virtual page.
48	(30)	BITSTRING	8	PFTPTEPTR1	Nonzero address bits Always zero in a doubleword aligned PTE address. These bits may be on in a PFTE in a SADMP, so IPCS processing which uses the PTE address must mask them off. Frame has been dumped by SADMP processing Identified as Zero Frame by SADMP processing Reserved
48	(30)	BITSTRING	7	*	
55	(37)	.... .111		PFTSADMPBITS	
		.... .1..		PFTSADMP	
		.... .1.		PFTSADZF	
		.... ...1		*	
56	(38)	ADDRESS	8	PFTQHDRPTR	Address of the queue header which anchors the PFTE queue section for pages above 2G. This field valid for ordinary pages above 2G. It is also valid for dataspace queues.
56	(38)	ADDRESS	8	PFTCPUQPTR	Pointer to the address of the header for the CPU related frame queues
56	(38)	ADDRESS	4	PFTSFTE	SFTE addr for high virtual segment table
60	(3C)	CHARACTER	4	*	Reserved

Table 22. Structure PFTQHEADER

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	16	PFTQHEADER	Arbitrary PFTE queue header
0	(0)	ADDRESS	8	PFTQHEADERFIRST	Address of first pfte on queue
8	(8)	ADDRESS	8	PFTQHEADERLAST	Address of last pfte on queue

Table 23. Constants for IAXPFTE

Len	Type	Value	Name	Description
4	DECIMAL	64	IAX_KPFTESIZE	Size of Pfte
			PFTQ QUEUE IDS	
			When adding a QID, examine IARQL for possible hits	
1	HEX	01	PFTPAFQN	PREFERRED ABOVE AFQ
1	HEX	02	PFTNAFQN	NON-PREFERRED ABOVE AFQ

Table 23. Constants for IAXPFTE (continued)

Len	Type	Value	Name	Description
1	HEX	03	PFTPBFQN	PREFERRED BELOW AFQ
1	HEX	04	PFTNBFQN	NON-PREFERRED BELOW AFQ
1	HEX	05	PFTPHFQN	Preferred High AFQ
1	HEX	06	PFTNHFQN	Non-Preferred High AFQ
1	HEX	07	PFTNQFQN	Non-Preferred Quad AFQ
1	HEX	08	PFTTDFQN	TOP DOUBLE FRAME QUEUE
1	HEX	09	PFTBDFQN	BOTTOM DOUBLE FRAME QUEUE
1	HEX	0A	PFTLPFQN	Large Page available ID - *EXCEPTION*: QID<PFTUNQMK but are unqueued
1	HEX	0B	PFTPPFQN	Pageable Large Pref AFQ
1	HEX	0C	PFTNPFQN	Pageable Large Non-Pref AFQ
1	HEX	0D	PFT2PFQN	2G Page available ID
1	HEX	21	PFTSFQN	SQA FRAME QUEUE
1	HEX	22	PFTRSFQN	RESERVED SQA FRAME QUEUE
1	HEX	23	PFTSBFQN	REAL STG BUFFER FRAME QUEUE
1	HEX	24	PFTVRFQN	V=R WAITING FRAME QUEUE
1	HEX	25	PFTGDFQN	General Defer Frame Queue
1	HEX	26	PFTQSFQN	Single Quad avail q
1	HEX	27	PFTQHFQN	Quad Holding queue
1	HEX	28	PFTLSFQN	Single Large frame available queue
1	HEX	29	PFTPSFQN	Preferred Single Pageable Large frame available queue
1	HEX	2A	PFTNSFQN	Non Preferred Single Pageable Large frame available queue
1	HEX	40	PFTSFFQN	SHARED PAGE FIXED FRAME QUEUE
1	HEX	41	PFTSPFQN	SHARED PAGE PAGEABLE FRAME QUEUE
1	HEX	81	PFTPFQN	PAGEABLE FRAME QUEUE
1	HEX	82	PFTFFQN	FIXED FRAME QUEUE
1	HEX	83	PFTDFFQN	DEFERRED FREEMAIN FRAME Q
1	HEX	84	PFTHVFQN	High Virtual Frame Q (for pages between 2G and 16E-1).
1	HEX	85	PFTLQFQN	Local Quad Frame Q (quad frames for DAT tables describing pages between 2G and 16E-1).
1	HEX	86	PFTPGTQN	Page Table Frame Q (frames for page tables describing pages between 2G and 16E-1).
1	HEX	87	PFTLLFQN	Local large page frame queue ID
1	HEX	88	PFTPLFQN	Pageable large page frame queue ID
1	HEX	89	PFTL2FQN	Local 2G page frame queue ID
1	HEX	A1	PFTPDFQN	PAGEABLE DATA SPACE FQ
1	HEX	A2	PFTDFQN	FIXED DATA SPACE FQ
1	HEX	A3	PFTDDFQN	DEFERED DELETE FRAME Q
1	HEX	A4	PFTPDLQN	Pageable large dataspace frame queue ID
1	HEX	E0	PFTPRFQN	PAGEABLE RDD FRAME Q
1	HEX	E1	PFTFRFQN	FIXED RDD FRAME QUEUE
1	HEX	E2	PFTOFQN	ORPHAN FRAME QUEUE
1	HEX	E8	PFTPF1QN	UNQUEUED - PFT backing PFT CADS dat structure
1	HEX	E9	PFTPF2QN	UNQUEUED - PFT backing PFT CADS

IAXPFTE mapping

Table 23. Constants for IAXPFTE (continued)

Len	Type	Value	Name	Description
1	HEX	EA	PFTREMQN	UNQUEUED - Pft backing the real map TBD: scaffolding
1	HEX	EB	PFTPMSO	UNQUEUED- Frame is in the process of being cleared by an EADM PMSO I/O operation
1	HEX	F0	PFTDONN	UNQUEUED- DAT-OFF NUCLEUS
1	HEX	F1	PFTRONN	UNQUEUED- READ ONLY NUC.
1	HEX	F2	PFTRWNN	UNQUEUED- READ/WRITE NUC.
1	HEX	F3	PFTIPCN	UNQUEUED- RSM IPCS USE ONLY
1	HEX	F4	PFTHSAN	UNQUEUED- HW SYSTEM AREA
1	HEX	F5	PFTAZN	UNQUEUED- ABSOLUTE ZERO FR
1	HEX	F6	PFTFXAN	UNQUEUED- FIXED LPA
1	HEX	FB	PFTRPAN	UNQUEUED- Reserved PFTE Area
1	HEX	FC	PFTSADN	RESERVED FOR STAND ALONE DUMP
1	HEX	FD	PFTFLAWN	UNQUEUED- PFTE WAS FOUND FLAWED DURING RECOVERY
1	HEX	FE	PFTUNIN	UNQUEUED- UNINITIALIZED
1	HEX	FF	PFTUNQDN	UNQUEUED
1	HEX	FF	PFTNOFRN	WHEN IN THE PFTFREID FIELD - THIS PFTE CANNOT BE FREED
1	HEX	07	PFTAQMK	HIGHEST POSSIBLE AVAILABLE FRAME QUEUE ID (not including large AFQs)
1	HEX	20	PFTRITMK	LOWEST POSSIBLE RIT BASED QUEUE ID (EXCLUDING AFQS AND DOUBLE FRAME QUEUES).
1	HEX	2F	PFTGLMK	Highest possible queue id for a PFTE serialized by the RSMGL lock.
1	HEX	80	PFTRABMK	LOWEST POSSIBLE QUEUE ID FOR AN ADDRESS SPACE RELATED QUEUE (RAB, DAB, OR RDD BASED FRAME QUEUE).
1	HEX	A0	PFTDABMK	LOWEST POSSIBLE QUEUE ID FOR A DAB BASED FRAME QUE
1	HEX	E0	PFTRDDML	LOWEST POSSIBLE QUEUE ID FOR AN RDD BASED FRAME QUE
1	HEX	E7	PFTRDDMH	HIGHEST POSSIBLE QUEUE ID FOR AN RDD BASED FRAME QUE
1	HEX	E8	PFTUNQMK	LOWEST ID POSSIBLE FOR AN UNQUEUED PFTE w/ the exception of PFTLQFN
PFTE CONSTANTS				
1	HEX	40	PFTLPGIMASK	Mask used to ensure the Large Page Group indicator bits are left alone
1	HEX	FE	PFTKMUIC	MAXIMUM UIC VALUE
1	HEX	FF	PFTKBUIC	UIC VALUE USED TO INDICATE A BLOCKED PAGE THAT HAS NEVER BEEN REFERENCED
4	DECIMAL	16777218	PFTALET	Alet of the CADS dataspace containing the PFT
8	CHARACTER	IARPFT	PFTCADSNAME	Name of dataspace containing PFT

Table 23. Constants for IAXPFTE (continued)

Len	Type	Value	Name	Description
4	DECIMAL	64	PFT_KNUMPFTESINPAGE	Number of PFTEs that fit in one 4K page
C0D Abend Reason Codes				
1	HEX	001	PFTE_KC0DBADFREEMAINEDFRAME1	

Table 24. Cross Reference for IAXPFTE

Name	Offset	Hex	Tag
FIRST@	0		
LAST@	8		
NEXT@	0		
PFTALSID	28		
PFTASID	1A		
PFTATTCT	2E		
PFTATTCTCSWORD	2C		
PFTBADFR	15	01	
PFTBELOW	15	40	
PFTBQPTR	8		
PFTBQPTR31	C		
PFTCPUQPTR	38		
PFTDREF	12	02	
PFTDSPPG	12	01	
PFTE	0		
PFTEQUEUEANCHOR	0		
PFTFCWRD	14		
PFTFLGS1	15		
PFTFLGS2	12		
PFTFLGS3	13		
PFTFLGS4	2D		
PFTFQPTR	0		
PFTFQPTR31	4		
PFTFREID	14		
PFTFXCT	16		
PFTHVSPAGE	18	04	
PFTIOCUR	13	80	
PFTIOERR	15	02	
PFTIOMC	13	02	
PFTLARGEPAGE	15	08	
PFTLARGEPAGEAVAIL	13	40	
PFTLARGEPAGEGROUPINDICATOR	13	40	
PFTLARGEPAGEREFORM	15	10	
PFTLARGEUSEDASPAGEABLE1M	13	40	
PFTLPID	1C		
PFTLPIDP	20		
PFTLSQA	18	20	
PFTMEGAR	24		
PFTMEGAR00ED	18	10	
PFTNCONF	13	01	
PFTNOPRF	2D	40	

IAXPFTE mapping

Table 24. Cross Reference for IAXPFTE (continued)

Name	Offset	Hex Tag
PFTNOREC	13	04
PFTNOUNC	15	02
PFTOFFLN	12	20
PFTOFINT	13	08
PFTOKFORAUX	2D	20
PFTOLD	11	80
PFTOLDQID	11	
PFTONAFQ	12	80
PFTONCPUAFQ	18	02
PFTPCB	24	
PFTPCIEF	2D	10
PFTPERM	12	40
PFTPFTE	28	
PFTPGTYP	2C	
PFTPRECLEARED	18	01
PFTPREF	15	80
PFTPROG	28	
PFTPTEPTR	30	
PFTPTEPTR1	30	
PFTQHDRPTR	38	
PFTQHEADER	0	
PFTQHEADERFIRST	0	
PFTQHEADERLAST	8	
PFTQID	10	
PFTRDS	18	80
PFTRVTEX	19	
PFTSADMP	37	04
PFTSADMPBITS	37	07
PFTSADZF	37	02
PFTSCMBLOCKID	28	
PFTSDH	20	
PFTSECTA	10	
PFTSECTP	0	
PFTSECTR	18	
PFTSEGNO	24	
PFTSER	18	
PFTSERFL	18	
PFTSFTE	38	
PFTSPAGE	18	40
PFTSPE	28	
PFTSRBSC	15	04
PFTTCB	28	
PFTTERM	18	08
PFTUDSNX	25	
PFTUIC	11	
PFTVIODP	12	10
PFTVIORA	20	
PFTVIORU	13	20
PFTVR	15	20

Table 24. Cross Reference for IAXPFTE (continued)

Name	Offset	Hex Tag
PFTVRALC	12	04
PFTVRINT	13	10
PFTVRPLT	2D	80
PFTVRWT	12	08
PFTVSA	20	
PFTVSAHI	1C	
PFTVSA64	1C	
PFTWORD	10	
PFT2GPAGEAVAIL	13	40
PREV@	8	

IAXPFTE mapping

Chapter 7. IAXPTE Information

IAXPTE Heading Information

Common Name: PAGE TABLE ENTRY
 Macro ID: IAXPTE
 DSECT Name: PTE
 Owning Component: Real Storage Manager (SC1CR)
 Eye-Catcher ID: NONE
 Storage Attributes: Main Storage: YES (for fixed/DREF/High Virtual pages)
 Virtual Storage: YES (for address space pages)
 Auxiliary Storage: YES (for pageable pages)
 Subpool: N/A
 Key: 0
 Data Space: YES (for data space pages)
 Residency: Anywhere
 Size: See Assembler Listing
 Created by: Segment Fault
 Pointed to by: SGT64PTRSA
 Serialization: Varies
 Function: Maps a Page Table Entry

IAXPTE mapping

Table 25. Structure

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

Table 26. Structure PTESTART

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PTESTART	
0	(0)	DBL WORD	8	PTEALL	Page RSA
0	(0)	X'4'	0	PTEALL_BYTES4T07	"PTEALL+4,4" Low order portion of RSA
Definition of flag portion of RSA.					
0	(0)	X'6'	0	PTEALL_FLGS	"PTEALL+6,1" Flag portion of RSA
		.... .1..		PTEINV	"X'04'" Page is invalid
ORG to PTEX for this PTE.					
2048	(800)	BITSTRING	1	PTEXEPAGED	Page location ID and subtype
		.... ...1		PTEXGARD	"X'01'" - first reference and garden variety page
2048	(800)	X'8'	0	PTE_LENE	"8" Length of PTE (BUV)

Table 27. Cross Reference for IAXPTE

Name	Offset	Hex Tag
PTE_LENE	800	8

IAXPTE mapping

Table 27. Cross Reference for IAXPTE (continued)

Name	Offset	Hex Tag
PTEALL	0	
PTEALL_BYTES4T07	0	4
PTEALL_FLGS	0	6
PTEINV	0	4
PTESTART	0	
PTEXEPAGED	800	
PTEXGARD	800	1

Chapter 8. IAXRDD Information

IAXRDD Heading Information

Common Name: RSM DATA SPACE DESCRIPTOR
 Macro ID: IAXRDD
 DSECT Name: RDD
 Owning Component: REAL STORAGE MANAGER (SC1CR)
 Eye-Catcher ID: N/A
 Offset: N/A
 Length: N/A
 Storage Attributes: Main Storage: Yes
 Virtual Storage: Anywhere
 Auxiliary Storage: N/A
 Subpool: 255
 Key: 0
 Data Space: N/A
 Residency: Anywhere
 Size: See Assembler Listing
 Created by: DSPSERV CREATE
 INITIALIZED BY = DSPSERV CREATE
 DESTROYED BY = NEVER
 Pointed to by: RVTRDD
 Serialization: RSMDS LOCK (RSM DATA SPACE LOCK)
 Function: THE RDD CONTAINS THE INFORMATION USED TO MANAGE
 A SINGLE RSM DATA SPACE.
 DESCRIPTION =
 FREQUENCY = ONE RDD PER RSM DATA SPACE (RDS)

IAXRDD mapping

Table 28. Structure RDD

Offset	Offset		Len	Name(Dim)	Description
Dec	Hex	Type			
0	(0)	STRUCTURE	80	RDD	
0	(0)	CHARACTER	4	RDDID	RDD CONTROL BLOCK ID
4	(4)	CHARACTER	1	*	RESERVED FOR INDEX EXPANSION
5	(5)	CHARACTER	1	RDDRVTEX	RVTE INDEX
6	(6)	CHARACTER	2	*	RESERVED FOR FLAGS
8	(8)	ADDRESS	8	RDDSGT	ADDRESS OF THE SGT FOR THIS RSM DATA SPACE (RDS)
8	(8)	CHARACTER	4	*	
12	(C)	ADDRESS	4	RDDSGT31	
16	(10)	ADDRESS	4	RDDASTE	ADDR OF THE ASTE FOR THIS RDS
ENSURE THAT QUEUE HEADERS ARE NOT ON DOUBLEWORD BOUNDARIES					
20	(14)	ADDRESS	4	RDDFAAQF	POINTER TO THE FIRST ASTE ON THE FREE SCOPE ALL ASTE Q (FAAQ)
24	(18)	ADDRESS	4	RDDFAAQL	POINTER TO THE LAST ASTE ON THE FREE SCOPE ALL ASTE Q (FAAQ)
28	(1C)	ADDRESS	4	RDDFSAQF	POINTER TO THE FIRST ASTE ON THE FREE SCOPE SINGLE ASTE Q (FSAQ)

IAXRDD mapping

Table 28. Structure RDD (continued)

Offset				Len	Name(Dim)	Description
Dec	Hex	Type				
32	(20)	ADDRESS		4	RDDFSAQL	POINTER TO THE LAST ASTE ON THE FREE SCOPE SINGLE ASTE Q (FSAQ)
36	(24)	ADDRESS		4	RDDFUQF	POINTER TO THE FIRST UDD ON THE FREE UDD QUEUE (FUQ)
40	(28)	UNSIGNED		4	RDDFUAF	ALET FOR THE FIRST UDD ON THE FREE UDD QUEUE (FUQ)
44	(2C)	ADDRESS		4	RDDFUQL	POINTER TO THE LAST UDD ON THE FREE UDD QUEUE
48	(30)	UNSIGNED		4	RDDFUAL	ALET FOR THE LAST UDD ON THE FREE UDD QUEUE (FUQ)
52	(34)	ADDRESS		8	RDDOFQH	Pointer to the header of Orphan Frame Queue (OFQ)
60	(3C)	ADDRESS		8	RDDPRFQH	Pointer to the header of Pageable RDD Frame Queue (PRFQ)
68	(44)	ADDRESS		8	RDDFRFQH	Pointer to the header of Fixed RDD Frame Queue (FRFQ)
76	(4C)	CHARACTER		4	*	Reserved
80	(50)	CHARACTER		0	RDDUBM	THE UBM (UDD BIT MAP) FOR THIS RDS FOLLOWS THE RDD CONTIGUOUSLY IN VIRTUAL. IT SIZE IS DEPENDENT UPON THE RDS TYPE.

Table 29. Cross Reference for IAXRDD

Name	Offset	Hex Tag
RDD	0	
RDDASTE	10	
RDDFAAQF	14	
RDDFAAQL	18	
RDDFRFQH	44	
RDDFSAQF	1C	
RDDFSAQL	20	
RDDFUAF	28	
RDDFUAL	30	
RDDFUQF	24	
RDDFUQL	2C	
RDDID	0	
RDDOFQH	34	
RDDPRFQH	3C	
RDDRVTEX	5	
RDDSGT	8	
RDDSGT31	C	
RDDUBM	50	

Chapter 9. IAXRDH Information

IAXRDH Heading Information

Common Name: RSM DATA SPACE HEADER
 Macro ID: IAXRDH
 DSECT Name: RDH
 Owning Component: REAL STORAGE MANAGER (SC1CR)
 Eye-Catcher ID: N/A
 Offset: N/A
 Length: N/A
 Storage Attributes: Main Storage: Yes
 Virtual Storage: Yes
 Auxiliary Storage: N/A
 Data Space: N/A
 Residency: Anywhere
 Size: See Assembler Listing
 Created by: RSM RIM IARDMRIM
 INITIALIZED BY = RSM RIM IARDMRIM
 DESTROYED BY = NEVER
 Pointed to by: RITRDD
 Serialization: (RASP) ADDRESS SPACE LEVEL LOCK
 Function: RSM CONTROL BLOCK TO MANAGE GLOBAL DATA SPACE
 PROCESSING.
 DESCRIPTION =
 FREQUENCY = ONE RDH PER RSM ADDRESS SPACE (RASP)

IAXRDH mapping

Table 30. Structure RDH

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	152	RDH	
0	(0)	CHARACTER	4	RDHID	RDH CONTROL BLOCK ID
4	(4)	CHARACTER	4	*	RESERVED FOR FLAGS
8	(8)	ADDRESS	4	RDHRVT	ADDRESS OF THE RVT
12	(C)	ADDRESS	4	RDHRVTE	ADDRESS OF THE NEXT AVAILABLE RVTE
16	(10)	SIGNED	4	RDH1MCT	NUMBER OF 1M USER DATA SPACE SLOTS CURRENTLY AVAILBLE IN ALL EXISTING RSM DATA SPACES.
20	(14)	SIGNED	4	RDHHGCT	NUMBER OF HALF GIG USER DATA SPACE SLOTS CURRENTLY AVAILBLE IN ALL EXISTING RSM DATA SPACES.
24	(18)	SIGNED	4	RDH2GCT	NUMBER OF 2G USER DATA SPACE SLOTS CURRENTLY AVAILBLE IN ALL EXISTING RSM DATA SPACES.
28	(1C)	CHARACTER	4	*	RESERVED
32	(20)	CHARACTER	40	RDHORGNS(0:2)	RSM DATA SPACE VALUES
32	(20)	ADDRESS	4	RDHOSAST	ORIGIN OF THE SCOPE SINGLE ASTE ARRAY

IAXRDH mapping

Table 30. Structure RDH (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
36	(24)	ADDRESS		4	RDHOLSAS	ORIGIN OF THE LAST POSSIBLE SCOPE SINGLE ASTE IN THE ARRAY
40	(28)	ADDRESS		4	RDHOAAST	ORIGIN OF SCOPE ALL ASTE ARRAY
44	(2C)	ADDRESS		4	RDHOLAAS	ORIGIN OF THE LAST POSSIBLE SCOPE ALL ATSE IN THE ARRAY
48	(30)	ADDRESS		4	RDHOSGT	ORIGIN OF UDS SEGMENT TABLES
52	(34)	ADDRESS		4	RDHOPGT	ORIGIN OF UDS PAGE TABLES
56	(38)	UNSIGNED		4	RDHSTINC	NUMBER OF BYTES FROM THE START OF ONE UDS SEGMENT TABLE TO THE THE START OF THE NEXT
60	(3C)	UNSIGNED		4	RDHNOPGT	NUMBER OF PGTS PER UDS
64	(40)	UNSIGNED		4	RDHUBMCT	NUMBER OF APPLICABLE BITS IN THE UBM. THIS IS EQUIVALENT TO THE NUMBER OF FRAMES NEEDED TO BACK THE MAXIMUM NUMBER OF UDDS FOR THIS RDS. (NOTE, APPLICABLE BITS ARE AT THE HIGH ORDER END OF THE UBM)
68	(44)	UNSIGNED		4	RDHLBTCT	NUMBER OF UDDS IN THE FRAME REPRESENTED BY THE LAST APPLICABLE BIT IN THE UBM
152	(98)	CHARACTER		0	*	KEEP RDH A MULTIPLE OF 8 BYTES

Table 31. Cross Reference for IAXRDH

Name	Offset	Hex Tag
RDH	0	
RDHHGCT	14	
RDHID	0	
RDHLBTCT	44	
RDHNOPGT	3C	
RDHOAAST	28	
RDHOLAAS	2C	
RDHOLSAS	24	
RDHOPGT	34	
RDHORGNS	20	
RDHOSAST	20	
RDHOSGT	30	
RDHRVT	8	
RDHRVTE	C	
RDHSTINC	38	
RDHUBMCT	40	
RDH1MCT	10	
RDH2GCT	18	

Chapter 10. IAXRSH Information

IAXRSH Heading Information

Common Name: RSM RECOVERY REFRESH TABLE
 Macro ID: IARRSH
 DSECT Name: RSH
 Owning Component: REAL STORAGE MANAGER (SC1CR)
 Eye-Catcher ID: RSH
 Offset: 0
 Length: 240
 CAUTION = 1. THE OFFSET VALUES TO THE VARIOUS STACK SECTIONS MUST AGREE TO THE CORRESPONDING VALUES SET IN IARMR.
 2. THE DATA SPACE DEFAULT VALUES (DBLDF, DMXEX, AND DMXSZ) MUST AGREE WITH THE CORRESPONDING VALUES SET IN IARMR.

Storage Attributes: Main Storage: YES
 Virtual Storage: YES
 Auxiliary Storage: N/A
 Subpool: 245, EXTENDED SQA (FIXED COMMON) or Nucleus
 Key: 0
 Data Space: N/A
 Residency: NUCLEUS

Size: See Assembler Listing
 Created by: IAXMP
 Pointed to by: PVTRSH
 Serialization: RSM
 Function: CONTAINS RSM RECOVERY INFORMATION

IAXRSH mapping

Table 32. Structure RSH

Offset	Offset		Len	Name(Dim)	Description
Dec	Hex	Type			
0	(0)	STRUCTURE	284	RSH	
0	(0)	CHARACTER	4	RSHID	RSH CONTROL BLOCK ID
PFT Information					
4	(4)	CHARACTER	4	*	Reserved
8	(8)	ADDRESS	8	RSHPFT	Address of the PFT
16	(10)	ADDRESS	8	RSHLPFTE	Address of last PFTE
24	(18)	ADDRESS	8	RSHNPFTE	Address of the pfte with the highest address which may be permanently resident
32	(20)	ADDRESS	4	RSHPFTCADSASTE@	Virtual address of the aste for the pft cads
36	(24)	BITSTRING	8	RSHPFTCADSASTRTD	Real address of the RTD for the pft cads
44	(2C)	CHARACTER	4	*	Reserved
48	(30)	ADDRESS	8	RSHOFFLINEPFTEREAL@	Address of the frame containing offline pftes

IAXRSH mapping

Table 32. Structure RSH (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
56	(38)	ADDRESS	8	RSHOFFLINEPAGETABLEREAL@	Address of the Offline Page Table
TBD: Do we need to add other new PFT CADS which are added in RIT					
64	(40)	ADDRESS	4	RSHREALSPACEASTE@	Virtual address of the real space aste
Storage ranges					
68	(44)	ADDRESS	4	RSHCSGT	Address of Common SGT
72	(48)	ADDRESS	4	RSHCPGT	Address of Common PGT
76	(4C)	ADDRESS	4	RSHFVR	Address of First V=R
80	(50)	ADDRESS	4	RSHLVR	Address of Last V=R
84	(54)	ADDRESS	4	RSHFPRV	ADDRESS OF FIRST (LOWEST VSA) PRIVATE AREA PAGE POSSIBLE
88	(58)	ADDRESS	4	RSHFCSA	ADDRESS OF FIRST (LOWEST VSA) CSA PAGE POSSIBLE
92	(5C)	ADDRESS	4	RSHLCSA	ADDRESS OF FIRST PAGE AFTER LAST CSA PAGE
96	(60)	ADDRESS	4	RSHFQSA	ADDRESS OF FIRST (LOWEST VSA) PLPA/PLPA DIRECTORY PAGE
100	(64)	ADDRESS	4	RSHLQSA	ADDRESS OF FIRST PAGE AFTER LAST PLPA/PLPA DIR. PAGE
104	(68)	ADDRESS	4	RSHFQSAX	ADDRESS OF FIRST (LOWEST VSA) EXTENDED PLPA/PLPA DIRECTORY PAGE
108	(6C)	ADDRESS	4	RSHLQSAX	ADDRESS OF FIRST PAGE AFTER LAST EXTENDED PLPA/PLPA DIRECTORY PAGE
112	(70)	ADDRESS	4	RSHFCSAX	ADDRESS OF FIRST (LOWEST VSA) EXTENDED CSA PAGE
116	(74)	ADDRESS	4	RSHFPRVX	ADDRESS OF FIRST (LOWEST VSA) EXTENDED PRIVATE AREA PAGE
Storage Interleave Information					
120	(78)	SIGNED	2	RSHSKIP	SKIP FACTOR (HARDWARE STORAGE INTERLEAVE FACTOR). THIS IS EQUAL TO THE NUMBER OF BANDS IN AN AI.
122	(7A)	CHARACTER	2	*	RESERVED
124	(7C)	ADDRESS	4	RSHAIM	ADDRESS OF THE AIM
124	(7C)	ADDRESS	4	RSHFAIME	ADDRESS OF FIRST AIME
128	(80)	ADDRESS	4	RSHLAIME	ADDRESS OF LAST AIME
132	(84)	SIGNED	4	*	Reserved
136	(88)	ADDRESS	4	*	Reserved
136	(88)	ADDRESS	4	*	Reserved
140	(8C)	ADDRESS	4	*	Reserved
144	(90)	ADDRESS	4	*	Reserved
144	(90)	ADDRESS	4	*	Reserved
148	(94)	ADDRESS	4	*	Reserved
152	(98)	ADDRESS	4	*	Reserved
Data Space Information					
156	(9C)	ADDRESS	4	RSHRASCB	ADDRESS OF RASP ASCB
160	(A0)	BITSTRING	4	RSHRAWRD	FULLWORD RASP ASID

Table 32. Structure RSH (continued)

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
160	(A0)	UNSIGNED	2	*	FILLER FOR WORD
162	(A2)	UNSIGNED	2	RSHRASID	ASID OF RASP
164	(A4)	ADDRESS	4	RSHRDH	ADDRESS OF THE RDH
168	(A8)	ADDRESS	4	RSHRVTV	ADDR OF THE 1ST RVTE
172	(AC)	SIGNED	4	RSHDSPOR	VIRTUAL STORAGE ORIGIN FOR USER DATA SPACES
176	(B0)	UNSIGNED	4	RSHDBLDF	SYSTEM DEFAULT FOR DEFAULT NUMBER OF BLOCKS ON DSPSERV CREATE.
180	(B4)	UNSIGNED	4	RSHDMXEX	SYSTEM DEFAULT FOR MAXIMUM NUMBER OF USER KEY DATA SPACES FOR AN ADDRESS SPACE.
184	(B8)	UNSIGNED	4	RSHDMXSZ	SYSTEM DEFAULT FOR MAXIMUM NUMBER OF MEGABYTES OF USER KEY DATA SPACES FOR AN ADDRESS SPACE.
Lengths to Stack Sections					
188	(BC)	SIGNED	4	RSHNMLN	Length to start of NORMAL Stack Section
192	(C0)	SIGNED	4	RSHSPLN	Length to start of SPECIAL Stack Section
196	(C4)	SIGNED	4	RSHRCLN	Length to start of RECOVERY Stack Section
200	(C8)	SIGNED	4	RSHRSLN	Length to start of REAL STG BUFFER Stack Section
204	(CC)	SIGNED	4	RSHRRLN	Length to start of RSB RECOVERY Stack Section
208	(D0)	SIGNED	4	RSHMCLN	Length to start of MACHINE CHECK Stack Section
212	(D4)	SIGNED	4	RSHSSLN	Length to start of SPECIAL SRM Stack Section
216	(D8)	SIGNED	4	RSHDFLN	Length to start of DISABLED FAULT Stack Section
220	(DC)	SIGNED	4	RSHDRLN	Length to start of DISABLED FLT RECOV Stack Sect.
224	(E0)	SIGNED	4	RSHCNLN	Length to start of CONVERT Stack Section
228	(E4)	SIGNED	4	RSHHILN	Length to start of Hiperspace Services stack section
232	(E8)	SIGNED	4	RSHIOLN	Length to start of General I/O Completion stack section
236	(EC)	SIGNED	4	RSHTOTLN	Length of the entire RSM Stack
240	(F0)	UNSIGNED	4	RSH2GBAR	Aritifical High Bar
244	(F4)	UNSIGNED	4	RSHTWICEBAR	Aritifical twice bar
Misc high virtual values					
248	(F8)	CHARACTER	8	RSHLVSHRSTRT	Start of high virtual shared area
256	(100)	CHARACTER	8	RSHLVHPRSTRT	Start of high virtual high private area
264	(108)	CHARACTER	8	RSHHVCOMMONSTRT	Start of high virtual common area
272	(110)	CHARACTER	8	RSHHVCOMMONEND	End of high virtual common area

IAXRSH mapping

Table 32. Structure RSH (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
Length to DSPSERV stack section						
280	(118)	SIGNED		4	RSHDSLN	Length to start of disabled DSPSERV stack section

Table 33. Cross Reference for IAXRSH

Name	Offset	Hex Tag
RSH	0	
RSHAIM	7C	
RSHCNLN	E0	
RSHCPGT	48	
RSHCSGT	44	
RSHDBLDF	B0	
RSHDFLN	D8	
RSHDMXEX	B4	
RSHDMXSZ	B8	
RSHDRLN	DC	
RSHDSLN	118	
RSHDSPOR	AC	
RSHFAIME	7C	
RSHFCSA	58	
RSHFCSAX	70	
RSHFPRV	54	
RSHFPRVX	74	
RSHFQSA	60	
RSHFQSAX	68	
RSHFVR	4C	
RSHHILN	E4	
RSHHVCOMMONEND	110	
RSHHVCOMMONSTRT	108	
RSHID	0	
RSHIOLN	E8	
RSHLAIME	80	
RSHLCSA	5C	
RSHLPFTE	10	
RSHLQSA	64	
RSHLQSAX	6C	
RSHLVHPRSTRT	100	
RSHLVR	50	
RSHLVSHRSTRT	F8	
RSHMCLN	D0	
RSHNMLN	BC	
RSHNPFTE	18	
RSHOFFLINEPAGETABLEREAL@	38	
RSHOFFLINEPFTEREAL@	30	
RSHPFT	8	
RSHPFTCADSASTE@	20	
RSHPFTCADSASTRD	24	

Table 33. Cross Reference for IAXRSH (continued)

Name	Offset	Hex Tag
RSHRASC	9C	
RSHRASID	A2	
RSHRAWRD	A0	
RSHRCLN	C4	
RSHRDH	A4	
RSHREALSPACEASTE@	40	
RSHRRLN	CC	
RSHRSLN	C8	
RSHRVT	A8	
RSHSKIP	78	
RSHSPLN	C0	
RSHSSLN	D4	
RSHTOTLN	EC	
RSHTWICEBAR	F4	
RSH2GBAR	F0	

IAXRSH mapping

Chapter 11. IAXRVTE Information

IAXRVTE Heading Information

Common Name: RSM DATA VECTOR TABLE ENTRY
 Macro ID: IAXRVTE
 DSECT Name: RVTE
 Owning Component: REAL STORAGE MANAGER (SC1CR)
 Eye-Catcher ID: N/A
 Offset: N/A
 Length: N/A
 Storage Attributes: Main Storage: Anywhere
 Virtual Storage: Anywhere
 Auxiliary Storage: YES
 DATASPACE = N/A
 Subpool: 255
 Key: 0
 Residency: LSQA
 Size: See Assembler Listing
 Created by: RSM RIM IARDMRIM
 INITIALIZED BY = DSPSERV CREATE
 DESTROYED BY = NEVER
 Pointed to by: RDHRVTE
 Serialization: (RASP) ADDRESS SPACE LEVEL LOCK
 Function: AN RVTE IS AN ENTRY IN THE RVT AND CONTAINS
 INFORMATION PERTAINING TO A SINGLE RSM DATA SPACE.
 DESCRIPTION =
 FREQUENCY = ONE RVTE PER RSM DATA SPACE (RDS)

IAXRVTE mapping

Table 34. Structure RVTE

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
0	(0)	STRUCTURE		24	RVTE	
0	(0)	UNSIGNED		1	RVTTYPE	RSM DATA SPACE (RDS) TYPE
1	(1)	BITSTRING		1	RVTFLG1	FLAG BYTE
			1... ..		RVTRDLSFL	THIS RDS IS FLAWED (A FLAWED RDS IS EITHER IN THE STATE OF BEING CREATED OR IT IS RETIRED).
			.1.. ..		RVTRDLSFL	THIS BIT INDICATES THE DEGREE OF DAMAGE IN A FLAWED RDS. IF ON, THEN RECOVERY HAS DETECTED MAJOR DAMAGE TO THE RDS CONTROL BLOCK STRUCTURE AND NO PART OF THE RDS IS USABLE.
			..1.		RVTCIP	THIS RDS IS IN THE PROCESS OF BEING CREATED
			...1 1111	*		RESERVED FOR FLAGS
2	(2)	CHARACTER		2	*	RESERVED FOR FLAGS

IAXRVTE mapping

Table 34. Structure RVTE (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
4	(4)	ADDRESS		4	RVTRDD	ADDRESS OF THE RDD FOR THIS RDS (IF EQUAL TO KRVTEAVL, THEN THIS RVTE HAS NEVER BEEN USED AND IS AVAILABLE TO BE ASSIGNED TO A NEW RDS)
8	(8)	UNSIGNED		4	RVTALET	ALET FOR THIS RDS
12	(C)	SIGNED		4	RVTSLOTS	NUMBER OF USER DATA SPACE SLOTS CURRENTLY AVAILABLE IN THIS RDS
16	(10)	SIGNED		4	RVTNXSQN	NEXT USER DATA SPACE SEQUENCE NO. (THIS RDS IS RETIRED IF THE NEXT SEQUENCE NUMBER IS ZERO AND THE RDD ADDRESS IN RVTRDD IS NOT EQUAL TO KRVTEAVL)
20	(14)	CHARACTER		4	*	RESERVED
24	(18)	CHARACTER		0	*	KEEP RVTE A MULTIPLE OF 8 BYTES

Table 35. Constants for IAXRVTE

Len	Type	Value	Name	Description
1	HEX	00	KRDS1M	1M RDS TYPE
1	HEX	01	KRDSHG	HALF GIG RDS TYPE
1	HEX	02	KRDS2G	2G RDS TYPE
CONSTANT FOR RVTRDD FIELD WHEN AN RVTE HAS NEVER BEEN USED				
4	HEX	000CABAF	KRVTEAVL	UNUSED RVTE CONSTANT

Table 36. Cross Reference for IAXRVTE

Name	Offset	Hex Tag
RVTALET	8	
RVTCIP	1	20
RVTE	0	
RVTFLOWD	1	80
RVTFLOW1	1	
RVTNXSQN	10	
RVTRDD	4	
RVTRDSFL	1	40
RVTSLOTS	C	
RVTTYE	0	

Chapter 12. IAXSERVC Information

IAXSERVC Programming Interface Information

IAXSERVC is a programming interface.

IAXSERVC Heading Information

Common Name: RSM Service Return/Reason code constants
Macro ID: IAXSERVC
DSECT Name: None
Owning Component: Real Storage Manager (SCIAR)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: N/A
Key: N/A
Residency: Caller-supplied
Size: N/A
Created by: N/A
Pointed to by: N/A
Serialization: None required
Function: Provide equates for return and reason codes.

IAXSERVC mapping

Table 37. Structure

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

IAXSERVC mapping

Table 37. Structure (continued)

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
		IAXSERVC_1;;			
		START OF SPECIFICATIONS			
		PROPRIETARY STATEMENT			
		01 PROPRIETARY STATEMENT=			
		LICENSED MATERIALS - PROPERTY OF IBM			
		5694-A01 COPYRIGHT IBM CORP. 2008, 2012			
		STATUS= HBB7790			
		END_OF_PROPRIETARY_STATEMENT			
		01 DESCRIPTIVE NAME: RSM Service Return/Reason code constants			
		02 ACRONYM: CONS			
		01 MACRO NAME: IAXSERVC			
		01 EXTERNAL CLASSIFICATION: PI			
		01 END OF EXTERNAL CLASSIFICATION:			
		01 DSECT NAME:			
		None			
		01 COMPONENT: Real Storage Manager (SCIAR)			
		01 EYE-CATCHER: NONE			
		01 STORAGE ATTRIBUTES:			
		02 SUBPOOL: N/A			
		02 KEY: N/A			
		02 RESIDENCY: Caller-supplied			
		01 SIZE: N/A			
		01 CREATED BY:			
		N/A			
		01 POINTED TO BY:			
		N/A			
		01 SERIALIZATION:			
		None required			
		01 FUNCTION:			
		02 Provide equates for return and reason codes.			
		01 METHOD OF ACCESS:			
		02 ASM:			
		IAXSERVC			
		02 PL/X:			
		%INCLUDE SYSLIB(IAXSERVC)			
		01 DELETED BY: N/A			
		01 FREQUENCY: N/A			
		01 DEPENDENCIES: None			
		01 DISTRIBUTION LIBRARY: AMACLIB			
		01 CHANGE ACTIVITY:			
		\$L0=xxxxxx ,HBB7750,070215,PD00XB: IARCP64			
		\$P0=ME19060 ,HBB7780,100521,PD00VE: Add			
		IARST64AbendRsnLocalSysAreaYesUnauth			
		\$01=0A39189 ,HBB7780,120330,PD00CS: IARST64RsnLocking			
		\$L1=ST128K ,JBB778H,110308,PD00A8: 128K Support			
		\$L2=ME23899 ,HBB7790,120403,PD00FX: IARCP64 LocalSysArea			
		END OF SPECIFICATIONS			
		Note carefully that bits 0-15 of the reason code or abend			
		reason code may contain component-diagnostic data and must not			
		be assumed to be 0.			
0	(0)	BITSTRING	0	IARCP64RSNCODEMASK	"X'00FFFF00'" Use this mask to isolate the non component-diagnostic portion of the reason code.
IARCP64 Return and Reason Code definitions					
	....	....		IARCP64RC_OK	"X'00000000'" Meaning: IARCP64 request successful. Action: None required.

Table 37. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		IARCP64RC_WARN	"X'00000004'" Meaning: Warning Action: Refer to the action provided with the specific reason code.
0	(0)	BITSTRING	0	IARCP64RSNGETOUTOFCELLS	"X'00040000'" Meaning: The request to the IARCP64 GET service specified EXPAND=NO and the current extent is out of cells. Action: Either change the request to specify EXPAND=YES or write logic to deal with no cell being available.
		.... 1...		IARCP64RC_FAIL	"X'00000008'" Meaning: Service failed due to running out of resources Action: Refer to the action provided with the specific reason code.
0	(0)	BITSTRING	0	IARCP64RSNMEMLIMITEXHAUSTED	"X'00040100'" Meaning: The request to either the IARCP64 BUILD, IARCP64 GET when the pool is being expanded or the IARST64 GET when a new extent is required was not able to obtain private storage due to the address space MEMLIMIT. Action: Either raise the MEMLIMIT of the address space or determine if private storage is being consumed excessively somewhere. Authorized callers can specify MEMLIMIT=NO on the IARCP64 BUILD to bypass the address space limit checking.
0	(0)	BITSTRING	0	IARCP64RSN64BITCOMMONEXHAUSTED	"X'00040200'" Old name for IARCP64RsnInsuffi cientFreeSpace
0	(0)	BITSTRING	0	IARCP64RSNINSUFFICIENTFREESPACE	"X'00040200'" Meaning: The request to either the IARCP64 BUILD, IARCP64 GET when the pool is being expanded or the IARST64 GET when a new extent is required was not able to obtain storage storage due to there being insufficient free storage to satisfy the request. Action: For common storage, either raise the system limit on common (HVCOMMON) or determine if common storage is being consumed excessively somewhere.

IAXSERVC mapping

Table 37. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	BITSTRING	0	IARCP64RSNMEMLIMITZERO	"X'00040300'" Meaning: The request to IARCP64 BUILD was not able to obtain private storage due to the address space MEMLIMIT being set to zero. Action: Either set the MEMLIMIT of the address space to a non-zero value or if authorized, specify MEMLIMIT=NO on the IARCP64 BUILD call to tell the service to bypass the address space MEMLIMIT.
End of IARCP64 Return and Reason Code definitions					
0	(0)	BITSTRING	0	IARST64RSNCODEMASK	"X'00FFFF00'" Use this mask to isolate the non component-diagnostic portion of the reason code.
IARST64 Return and Reason Code definitions					
		.... ....		IARST64RC_OK	"X'00000000'" Meaning: IARST64 request successful. Action: None required.
		.... 1...		IARST64RC_FAIL	"X'00000008'" Meaning: Service failed due to running out of resources Action: Refer to the action provided with the specific reason code.
0	(0)	BITSTRING	0	IARST64RSNMEMLIMITEXHAUSTED	"X'00040100'" Meaning: The request to the IARST64 GET service was not able to obtain storage due to address space limits. Action: Either raise the MEMLIMIT of the address space or determine if private storage is being consumed excessively somewhere. Authorized callers can specify MEMLIMIT=NO on the IARCP64 BUILD to bypass the address space limit checking.
0	(0)	BITSTRING	0	IARST64RSN64BITCOMMONEXHAUSTED	"X'00040200'" Meaning: The request to the IARST64 GET service was not able to obtain storage due to system limits. Action: For common storage, either raise the system limit on common (HVCOMMON) or determine if common storage is being consumed excessively somewhere.

Table 37. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	BITSTRING	0	IARST64RSNMEMLIMITZERO	"X'00040300'" Meaning: The request to IARST64 GET was not able to obtain private storage due to the address space MEMLIMIT being set to zero. Action: Either set the MEMLIMIT of the address space to a non-zero value or if authorized, specify MEMLIMIT=NO on the IARST64 GET call to tell the service to bypass the address space MEMLIMIT.
0	(0)	BITSTRING	0	IARST64RSNLOCKING	"X'00040400'" Meaning: The request to IARST64 BUILD/GET was unable to obtain common storage because the invoker holds a lock that prevents creation/expansion of the cellpool. This reason code is not part of the programming interface. Action: None
End of IARST64 Return and Reason Code definitions					
0	(0)	BITSTRING	0	IARCP64ABENDRSNCODEMASK	"X'00FFFF00'" Use this mask to isolate the non component-diagnostic portion of the abend reason code.
IARCP64 Abend Reason Code definitions					
0	(0)	BITSTRING	0	IARCP64ABENDRSNCELLADDRLOW	"X'00041000'" Meaning: The cell address passed to the IARCP64 FREE service is within a meg used for storage pools, but the address is less than the address of the 1st usable storage address. Action: Correct the address passed to IARCP64 FREE, making sure it is the same address that was returned from IARCP64 GET.
0	(0)	BITSTRING	0	IARCP64ABENDRSNBUILDMOTHERFROMCMRO	"X'00041200'" Meaning: The OWNINGTASK was specified as the mother task, but the caller is running on the CMRO task. This is not supported. Action: Correct the specification of OWNINGTASK. If you need the storage to survive job step termination, then specify RCT as the owner. If you are unauthorized, use OWNINGTASK set to either CMRO or JOBSTEP.
0	(0)	BITSTRING	0	IARCP64ABENDRSNCELLNOTINEXTENT	

IAXSERVC mapping

Table 37. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	BITSTRING	0	IARCP64ABENDRSNBUILDNOTRCTORCMRO	"X'00041300'" Meaning: The request was to the IARCP64 or IARST64 FREE service and the address of the storage passed in, is not within the bounds of a cell pool. Action: Correct the address passed to IARCP64 FREE or IARST64 FREE, making sure it is the same address that was returned from IARCP64 GET or IARST64 GET.
0	(0)	BITSTRING	0	IARCP64ABENDRSNBUILDCELLSIZEZERO	"X'00041400'" Meaning: The parameter list passed to the IARCP64 BUILD service from an SRB or cross memory environment did not specify RCT or CMRO as the owning task. Action: Fix the OWNINGTASK parameter to specify RCT or CMRO. Alternatively, build the pool from a different environment.
0	(0)	BITSTRING	0	IARCP64ABENDRSNBUILDCELLSIZEZERO	"X'00041500'" Meaning: The parameter list passed to the IARCP64 BUILD service specified the CELLSIZE as zero. Action: Change the cell size to be in the range of 1 to 520,192.
0	(0)	BITSTRING	0	IARCP64ABENDRSNBUILDNOTAUTH	"X'00041600'" Meaning: The parameter list passed to the IARCP64 BUILD service from an unauthorized caller requested an authorized option. System key, common storage, RCT ownership, MEMLIMIT=NO, MOTKN, TYPE=FIXED or DREF. Action: Either correct the environment such that the caller is authorized or change the options on IARCP64 BUILD such that it does not request options requiring authorization.
0	(0)	BITSTRING	0	IARCP64ABENDRSNBUILDCELLSIZEZEROBIG	"X'00041700'" Meaning: The parameter list passed to the IARCP64 BUILD service specified a cell size larger than the maximum size supported. Action: Specify a size between 1 and 520,192. If a larger storage area is needed, consider using IARV64 REQUEST=GETSTOR or GETCOMMON.
0	(0)	BITSTRING	0	IARCP64ABENDRSNBUILDKEYNOT9	

Table 37. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	BITSTRING	0	IARCP64ABENDRSNCELLOVERRUN	"X'00041800'" Meaning: The parameter list passed to the IARCP64 BUILD service from an unauthorized caller, specified a storage key other than 9. Action: Either remove the key specification for an unauthorized caller, specify key 9 or change the program to run in an authorized environment.
0	(0)	BITSTRING	0	IARCP64ABENDRSNCELLLOVERRUN	"X'00041900'" Meaning: The request was to the IARCP64 or IARST64 FREE service and the trailer data at the end of the cell was detected as being overrun. If the overrun is sufficiently large, it will cause damage to the following cell. The caller is abended so they can fix the code to not use more storage than is requested. Action: Determine whether the storage has been overrun or whether the trailer data was overlaid by some other code. Fix the code so it only uses the amount of storage requested. Possibly increase the cell size to meet the program's needs.
0	(0)	BITSTRING	0	IARCP64ABENDRSNCELLNOTINUSE	"X'00041A00'" Meaning: The request was to the IARCP64 or IARST64 FREE service and the address of the storage passed in, is already in the freed state. This will happen when an application frees the storage twice. Action: Determine whether the current application is freeing the storage twice or whether it is using a cell that some other program is freeing twice.
0	(0)	BITSTRING	0	IARCP64ABENDRSNNOTONCELLBOUNDARY	"X'00041B00'" Meaning: The request was to the IARCP64 or IARST64 FREE service and the address of the storage passed in is not on a cell boundary in the cell pool from which the GET request was satisfied. Action: Correct the address passed to IARCP64 FREE, making sure it is the same address that was returned from IARCP64 GET.

IAXSERVC mapping

Table 37. Structure (continued)

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
0	(0)	BITSTRING	0	IARCP64ABENDRSNIARV64ERROR	"X'00041C00'" Meaning: During processing of IARCP64 BUILD or GET, a call to the IARV64 service for GETSTOR, GETCOMMON, PAGEFIX or PROTECT failed. The failing return code from IARV64 was placed in register 2 prior to the abend. The failing reason code from IARV64 was placed in register 3 prior to the abend. Action: Examine the return and reason code as documented under IARV64 to determine if the problem is one that you can resolve.
0	(0)	BITSTRING	0	IARCP64ABENDRSNCELLPOOLHEADERKEYNOT0	"X'00041D00'" Meaning: The cell pool header points to a key 0 control block used to protect cell pool information. The pointer did not point to key 0 storage. This would happen if a caller tried to trick the service into getting storage that the user was not normally allowed to get. Action: Correct the cell pool address passed to IARCP64 GET, making sure it is the same address that was returned from IARCP64 BUILD. Do not modify the cell pool header, other than through IARCP64 services.
0	(0)	BITSTRING	0	IARCP64ABENDRSNHEADERFAILEDVALIDITYCHECK	"X'00041E00'" Meaning: The cell pool header points to a key 0 control block used to protect cell pool information. The pointer did not point to a valid structure used by IARCP64. This would happen if a caller tried to trick the service into getting storage that the user was not normally allowed to get. Action: Correct the cell pool address passed to IARCP64 GET, making sure it is the same address that was returned from IARCP64 BUILD.
0	(0)	BITSTRING	0	IARCP64ABENDRSNHEADERDAMAGED	

Table 37. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	BITSTRING	0	IARCP64ABENDRSNCPHANTOQUEUED	"X'00041F00'" Meaning: The cell pool header authorized area was damaged. This could be caused by a storage overlay or by a user deleting a cell pool while other work units are trying to obtain a cell from the pool. Action: Make sure the application does not request cells during or after the cell pool is deleted.
0	(0)	BITSTRING	0	IARCP64ABENDRSNBUILDVERSIONHIGH	"X'00042000'" Meaning: The cell pool header authorized area was not queued to the owning task as expected. This could happen due to storage overlays, or possibly the user doing IARCP64 DELETE while the pool was still in use. Action: Make sure the application does not request cells during or after the cell pool is deleted. If the problem persists, collect a dump and contact IBM service.
0	(0)	BITSTRING	0	IARCP64ABENDRSNBUILDBADPARMLIST	"X'00042100'" Meaning: The parameter list passed to the IARCP64 BUILD service has a version level higher than the current implementation can support. Action: Correct the invocation of IARCP64 such that you don't specify a level or use parameters that are not supported on the release of the operating system on which it is intended to run.
0	(0)	BITSTRING	0	IARCP64ABENDRSNBUILDNOOWNER	"X'00042200'" Meaning: The parameter list passed to IARCP64 BUILD is not addressable in the caller's key or is not valid storage. Action: Correct the calling program to place the parameter list in storage addressable in the primary address space.

IAXSERVC mapping

Table 37. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	BITSTRING	0	IARCP64ABENDRSNDELETENOTCHAINED	"X'00042300'" Meaning: The parameter list passed to the IARCP64 BUILD service for a common cell pool does not have an owner option specified. Action: Add the OWNER keyword to the invocation of IARCP64 BUILD when building a cell pool in common.
0	(0)	BITSTRING	0	IARCP64ABENDRSNPOOLNOTINCALLERKEY	"X'00042400'" Meaning: A request was made to the IARCP64 DELETE service for a user key cell pool. The control information for this cell pool was missing from the system queue used to maintain it. This can only happen if the caller has 2 tasks racing to delete the same cell pool. Action: Fix the application cleanup logic so that the cell pool is only deleted once.
0	(0)	BITSTRING	0	IARCP64ABENDRSNPOOLNOTINCALLERKEY	"X'00042500'" Meaning: The request to IARCP64 GET or DELETE was against a pool that was not in the key of the caller. Action: You must be in a key that has the ability to modify the pool storage for the request to be processed.
0	(0)	BITSTRING	0	IARCP64ABENDRSNPRIMARYEXTENTOVERLAID	"X'00042600'" Meaning: The request to IARST64 or IARCP64 GET was against a storage pool where the primary extent control information has been overlaid. Action: Collect a dump and report the problem to IBM.
0	(0)	BITSTRING	0	IARCP64ABENDRSNSECONDARYEXTENTOVERLAID	"X'00042700'" Meaning: The request to IARST64 or IARCP64 GET was against a storage pool where the secondary extent control information has been overlaid. Action: Collect a dump and report the problem to IBM.
0	(0)	BITSTRING	0	IARCP64ABENDRSNUNEXPECTEDERROR	

Table 37. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	BITSTRING	0	IARCP64ABENDRSNVALIDATIONERROR	"X'00042800'" Meaning: During processing of IARCP64 BUILD, DELETE or the cell pool expansion on a GET, an unexpected abend occurred. An SDUMP should have been generated. Action: Collect the dump and report the problem to IBM.
0	(0)	BITSTRING	0	IARCP64ABENDRSNCELLLT4GIG	"X'00052A00'" Meaning: The call to the IARCP64 GET service detected a validation error when locating the storage pool to be used. Possible cause is storage overlay of the storage pool control block in the caller's key. Action: Collect a dump and report the problem to IBM. "X'00052C00'" Meaning: The call to the IARCP64 or IARST64 FREE service was passed a cell address less than 4 Gig, so it can't possibly be a valid cell address in a 64 bit cell pool. Action: Only pass a storage address that was obtained with IARCP64 or IARST64 GET.
End of IARCP64 Abend Reason Code definitions					
0	(0)	BITSTRING	0	IARST64ABENDRSNCODEMASK	"X'00FFFF00'" Use this mask to isolate the non component-diagnostic portion of the abend reason code.
IARST64 Abend Reason Code definitions					
0	(0)	BITSTRING	0	IARST64ABENDRSNCELLADDRLOW	"X'00041000'" Meaning: The storage address passed to the IARST64 FREE service is within a meg used for storage pools, but the address is less than the address of the 1st usable storage address. Action: Correct the address passed to IARST64 FREE, making sure it is the same address that was returned from IARST64 GET.
0	(0)	BITSTRING	0	IARST64ABENDRSNKEYGT7COMMON	

IAXSERVC mapping

Table 37. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	BITSTRING	0	IARST64ABENDRSNGETMOTHERFROMCMRO	"X'00051100'" Meaning: The request to IARST64 GET was for common storage, but the requested or caller key was greater than key 7. You cannot allocate common storage in key 8 or above. Action: Correct the key passed to IARST64 GET or change your request to get private storage.
0	(0)	BITSTRING	0	IARST64ABENDRSNCELLNOTINEXTENT	"X'00051200'" Meaning: The request was to the IARST64 GET service and specified OWNINGTASK(MOTHER), but the caller is running on the CMRO task. You can't request the mother task be the storage owner from the CMRO task. Action: Either specify CMRO as the owner or specify RCT if you want the storage to persist across termination of the CMRO.
0	(0)	BITSTRING	0	IARST64ABENDRSNGETNOTRCTORCMRO	"X'00041300'" Meaning: The request was to the IARCP64 or IARST64 FREE service and the address of the storage passed in, is not within the bounds of a cell pool. Action: The address passed to IARST64 REQUEST=FREE must be the same as the address obtained from IARST64 REQUEST=GET.
0	(0)	BITSTRING	0	IARST64ABENDRSNGETCELLSIZEZERO	"X'00051400'" Meaning: The request was to the IARST64 GET service for private storage and the caller was running in cross memory mode or SRB mode. In these environments the OWNINGTASK parameter must be set to RCT or CMRO. Neither of these was specified, so the request is failed. Action: Specify the OWNINGTASK parameter as RCT or CMRO.
0	(0)	BITSTRING	0	IARST64ABENDRSNGETCELLSIZEZERO	"X'00051500'" Meaning: The request was to the IARST64 GET service and specified a length of zero. Action: Specify a length between 1 and 128K.

Table 37. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	BITSTRING	0	IARST64ABENDRSNGETNOTAUTH	"X'00051600'" Meaning: The request was to the IARST64 GET service and specified a parameter that requires the caller to be running in key 0-7. The caller is not authorized to use authorized options of COMMON, DREF, FIXED, OWNINGTASK(RCT), CALLERKEY(NO) and Key00ToF0 set to a system key. Action: Either run the code in key 0-7 or do not use authorized options.
0	(0)	BITSTRING	0	IARST64ABENDRSNGETCELLSIZETOOBIG	"X'00051700'" Meaning: The request was to the IARST64 GET service and specified a length greater than 128K. Action: Specify a size between 1 and 128K. If larger storage is needed, consider using IARCP64 or IARV64 GETSTOR or GETCOMMON.
0	(0)	BITSTRING	0	IARST64ABENDRSNGETKEYNOT9	"X'00051800'" Meaning: The request was to the IARST64 GET service and specified a CALLERKEY(NO) and a value for Key00ToF0 that was not key 9 and the caller is not authorized. Action: The only key that an unauthorized user can specify is key 9. Either request key 9 or change the specification to CALLERKEY(YES).
0	(0)	BITSTRING	0	IARST64ABENDRSNCELLVERRUN	"X'00041900'" Meaning: The request was to the IARCP64 or IARST64 FREE service and the trailer data at the end of the cell was detected as being overrun. If the overrun is sufficiently large, it will cause damage to the following cell. The caller is abended so they can fix the code to not use more storage than is requested. Action: Determine whether the storage has been overrun or whether the trailer data was overlaid by some other code. Fix the code so it only uses the amount of storage requested.
0	(0)	BITSTRING	0	IARST64ABENDRSNCELLNOTINUSE	

IAXSERVC mapping

Table 37. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	BITSTRING	0	IARST64ABENDRSNOTONCELLBOUNDARY	"X'00041A00'" Meaning: The request was to the IARCP64 or IARST64 FREE service and the address of the storage passed in, is already in the freed state. This will happen when an application frees the storage twice. Action: Determine whether the current application is freeing the storage twice or whether it is using a cell that some other storage is freeing twice.
0	(0)	BITSTRING	0	IARST64ABENDRSNIARV64ERROR	"X'00041B00'" Meaning: The request was to the IARCP64 or IARST64 FREE service and the address of the storage passed in is not on a cell boundary in the cell pool from which the GET request was satisfied. Action: When freeing storage with IARST64 REQUEST=FREE, make sure to specify the address that was returned by IARST64 REQUEST=GET.
0	(0)	BITSTRING	0	IARST64ABENDRSNCPHANOTQUEUE	"X'00041C00'" Meaning: During processing of IARST64 GET, a call to the IARV64 service for GETSTOR, GETCOMMON, PAGEFIX or PROTECT failed. The failing return code from IARV64 was placed in register 2 prior to the abend. The failing reason code from IARV64 was placed in register 3 prior to the abend. Action: Examine the return and reason code as documented under IARV64 to determine if the problem is one that you can resolve.
0	(0)	BITSTRING	0	IARST64ABENDRSNPOOLNOTINCALLERKEY	"X'00042000'" Meaning: The cell pool header authorized area was not queued to the owning task as expected. This could happen due to storage overlays or the caller bypassing the IARST64 macro and PCing directly to the service with incorrect input parameters. Action: Make sure the application is using the IARST64 macro to request storage. If the problem persists, collect a dump and contact IBM service.

Table 37. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	BITSTRING	0	IARST64ABENDRSNPRIMARYEXTENTOVERLAID	"X'00042500'" Meaning: The request to IARST64 GET was against a storage pool that was not in the key of the caller. Normally this will abend with an 0C4, but if the pool is out of cells and is in storage that is not fetch protected, the pool expand routine verifies that the caller is allowed to modify this storage pool. Action: You must be in a key that has the ability to modify the pool storage for the request to be processed.
0	(0)	BITSTRING	0	IARST64ABENDRSNSECONDARYEXTENTOVERLAID	"X'00042600'" Meaning: The request to IARST64 or IARCP64 GET was against a storage pool where the primary extent control information has been overlaid. Action: Collect a dump and report the problem to IBM.
0	(0)	BITSTRING	0	IARST64ABENDRSNUNEXPECTEDERROR	"X'00042700'" Meaning: The request to IARST64 or IARCP64 GET was against a storage pool where the secondary extent control information has been overlaid. Action: Collect a dump and report the problem to IBM.
0	(0)	BITSTRING	0	IARST64ABENDRSNGETSIZETOOBIG	"X'00042800'" Meaning: During processing of IARST64 GET an unexpected abend occurred. An SDUMP should have been generated. Action: Collect the dump and report the problem to IBM.
0	(0)	BITSTRING	0	IARST64ABENDRSNINVALIDATIONERROR	"X'00052900'" Meaning: The call to the IARST64 GET service specified a cell size larger than the maximum size supported. Action: Specify a size between 1 and 128K. If a larger storage area is needed, consider using IARCP64 or IARV64 REQUEST=GETSTOR or GETCOMMON.

IAXSERVC mapping

Table 37. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	BITSTRING	0	IARST64ABENDRSNMEMLIMITNOUNAUTH	"X'00052A00'" Meaning: The call to the IARST64 GET service detected a validation error when locating the storage pool to be used. Possible cause is storage overlay of the storage pool control block in the caller's key. Action: Collect a dump and report the problem to IBM.
0	(0)	BITSTRING	0	IARST64ABENDRSNCELLLT4GIG	"X'00052B00'" Meaning: The call to the IARST64 GET service requested MEMLIMIT=NO, but is running unauthorized (key 8-15 and problem program state). Action: Either specify MEMLIMIT=YES or call from an authorized environment.
0	(0)	BITSTRING	0	IARST64ABENDRSNCELLT4GIG	"X'00052C00'" Meaning: The call to the IARCP64 or IARST64 FREE service was passed a cell address less than 4 Gig, so it can't possibly be a valid cell address in a 64 bit cell pool. Action: Only pass a storage address that was obtained with IARCP64 or IARST64 GET.
0	(0)	BITSTRING	0	IARST64ABENDRSNLOCALSYSAREAYESUNAUTH	"X'00052D00'"

Table 38. Cross Reference for IAXSERVC

Name	Offset	Hex Tag
IARCP64ABENDRSNBUILDBADPARMLIST	0	42200
IARCP64ABENDRSNBUILDCELLSIZETOOBIG	0	41700
IARCP64ABENDRSNBUILDCELLSIZEZERO	0	41500
IARCP64ABENDRSNBUILDKEYNOT9	0	41800
IARCP64ABENDRSNBUILDMOTHERFROMCMRO	0	41200
IARCP64ABENDRSNBUILDNOOWNER	0	42300
IARCP64ABENDRSNBUILDNOTAUTH	0	41600
IARCP64ABENDRSNBUILDNOTRCTORCMRO	0	41400
IARCP64ABENDRSNBUILDVERSIONHIGH	0	42100
IARCP64ABENDRSNCELLADDRLOW	0	41000
IARCP64ABENDRSNCELLLT4GIG	0	52C00
IARCP64ABENDRSNCELLNOTINEXTENT	0	41300
IARCP64ABENDRSNCELLNOTINUSE	0	41A00
IARCP64ABENDRSNCELLLOVERRUN	0	41900
IARCP64ABENDRSNCELLPOOLHEADERKEYNOT0	0	41D00
IARCP64ABENDRSNCODEMASK	0	FFFF00
IARCP64ABENDRSNCPHANNOTQUEUED	0	42000
IARCP64ABENDRSNDELETENOTCHAINED	0	42400
IARCP64ABENDRSNHEADERDAMAGED	0	41F00

Table 38. Cross Reference for IAXSERVC (continued)

Name	Offset	Hex Tag
IARCP64ABENDRSNHEADERFAILEDVALIDITYCHECK	0	41E00
IARCP64ABENDRSNIARV64ERROR	0	41C00
IARCP64ABENDRSNNOTONCELLBOUNDARY	0	41B00
IARCP64ABENDRSNPPOOLNOTINCALLERKEY	0	42500
IARCP64ABENDRSNPRIMARYEXTENTOVERLAID	0	42600
IARCP64ABENDRSNSECONDARYEXTENTOVERLAID	0	42700
IARCP64ABENDRSNUNEXPECTEDERROR	0	42800
IARCP64ABENDRSNVALIDATIONERROR	0	52A00
IARCP64RC_FAIL	0	8
IARCP64RC_OK	0	0
IARCP64RC_WARN	0	4
IARCP64RSNCODEMASK	0	FFFF00
IARCP64RSNGETOUTOFCELLS	0	40000
IARCP64RSNINSUFFICIENTFREESPACE	0	40200
IARCP64RSNMEMLIMITEXHAUSTED	0	40100
IARCP64RSNMEMLIMITZERO	0	40300
IARCP64RSN64BITCOMMONEXHAUSTED	0	40200
IARST64ABENDRSNCELLADDRLOW	0	41000
IARST64ABENDRSNCELLLT4GIG	0	52C00
IARST64ABENDRSNCELLNOTINEXTENT	0	41300
IARST64ABENDRSNCELLNOTINUSE	0	41A00
IARST64ABENDRSNCELLLOVERRUN	0	41900
IARST64ABENDRSNCODEMASK	0	FFFF00
IARST64ABENDRSNCPHANNOTQUEUE	0	42000
IARST64ABENDRSNGETCELLSIZETOOBIG	0	51700
IARST64ABENDRSNGETCELLSIZEZERO	0	51500
IARST64ABENDRSNGETKEYNOT9	0	51800
IARST64ABENDRSNGETMOTHERFROMCMRO	0	51200
IARST64ABENDRSNGETNOTAUTH	0	51600
IARST64ABENDRSNGETNOTRCTORCMRO	0	51400
IARST64ABENDRSNGETSIZETOOBIG	0	52900
IARST64ABENDRSNIARV64ERROR	0	41C00
IARST64ABENDRSNKEYGT7COMMON	0	51100
IARST64ABENDRSNLOCALSYSAREAYESUNAUTH	0	52D00
IARST64ABENDRSNMEMLIMITNOUNAUTH	0	52B00
IARST64ABENDRSNNOTONCELLBOUNDARY	0	41B00
IARST64ABENDRSNPPOOLNOTINCALLERKEY	0	42500
IARST64ABENDRSNPRIMARYEXTENTOVERLAID	0	42600
IARST64ABENDRSNSECONDARYEXTENTOVERLAID	0	42700
IARST64ABENDRSNUNEXPECTEDERROR	0	42800
IARST64ABENDRSNVALIDATIONERROR	0	52A00
IARST64RC_FAIL	0	8
IARST64RC_OK	0	0
IARST64RSNCODEMASK	0	FFFF00
IARST64RSNLOCKING	0	40400
IARST64RSNMEMLIMITEXHAUSTED	0	40100
IARST64RSNMEMLIMITZERO	0	40300
IARST64RSN64BITCOMMONEXHAUSTED	0	40200

IAXSERVC mapping

Chapter 13. IAXSPE Information

IAXSPE Heading Information

Common Name: Shared page element
 Macro ID: IARSPE
 DSECT Name: SPE
 Owing Component: Real Storage Manager (SC1CR)
 Eye-Catcher ID: None
 Storage Attributes: Virtual Storage: Yes
 Subpool: 245
 Key: 0
 Residency: ESQA
 Size: See Assembler Listing
 Created by: IARVSERV SHARE service
 Pointed to by:
 Serialization: RSMAD or RSMCM or RSMGL lock.
 Function: Provide information on a virtual view of the data
 which is part of a shared data group.

IAXSPE mapping

Table 39. Structure SPE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	40	SPE	
0	(0)	CHARACTER	40	SPEALL	
0	(0)	ADDRESS	4	SPEFQPTR	forward pointer
4	(4)	ADDRESS	4	SPEBQPTR	backward pointer
8	(8)	ADDRESS	4	SPERSPEQ	related SPE queue
		1...		SPEFREE	SPE is on a free queue
12	(C)	ADDRESS	4	SPESDH	SDH address for shared page group
		1...		SPEIGNOR	This SPE may be ignored when invalidating this shared page group
16	(10)	ADDRESS	4	SPEVSA	page address
16	(10)	CHARACTER	3	*	
		1...		SPEDSPPG	Page is a dataspace page
16	(10)	BITSTRING	2	*	Actual contents of VSA.
18	(12)	.... 1111		SPEFLGS3	flags
		.... 1...		SPEANY64	May be fixed anywhere above or below 2 GIG
		.... .1..		SPEUNAU	View was created by an unauthorized user. At Unshare time if this bit is on, the unauthorized view count should be decremented (RABTUSV)
		.... ..1.		SPEEXPI	This view is explicitly protected via pgser-protect service
		.... ...1		SPEMREC	Method specific recording bit

IAXSPE mapping

Table 39. Structure SPE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ...1		SPEFIXHI	Method left the page table fix count high
		.... ...1		SPELOCKD	Method locked this view
19	(13)	CHARACTER	1	SPEFLGS2	flags
		1...		SPEGONE	Page no longer exists
		.1...		SPEVALID	This page is valid in central storage
		..1.		SPEIOCUR	Paging I/O in progress for this page
		...1		SPEDEGSX	The page represented by this SPE has undergone a status change which affects its membership in the current group.
		.... 1...		SPEANYWH	Page may be fixed anywhere
		.... .1..		SPESSA	Page is Subspace Assigned
		.... ..1.		SPE DREF	Page is DREF. XPTDRCT contains the actual count.
		.... ...1		SPEFIXED	Page is fixed. XPTFXCT contains the actual count (when SPEGONE=0) or SPEFIXCT contains the actual count (when SPEGONE=1).
20	(14)	UNSIGNED	4	SPEPWORD	programming word for page (valid only for dataspace pages, SPEDSPPG=1)
20	(14)	ADDRESS	4	SPESPGTR	real address of the subspace page table for this page (valid only if page is valid in central storage and subspace assigned, SPEVALID=1, SPEIGNOR=0, and SPESSA=1)
Note - the real address of subspace page tables is less than 2Gig b/c it resides in LSQA					
24	(18)	ADDRESS	4	SPERAB	address of the RAB for space owning this page. Valid only when SPEIOCUR=0. When SPEIOCUR=1, get RAB from SPEPCB->PCBPBAB
24	(18)	ADDRESS	4	SPEPCB	PCB address for view-related I/O. Valid only when SPEIOCUR=1.
28	(1C)	ADDRESS	8	SPEPGTR	Real address of the page table for this page. Valid only if page is valid in central storage or has paging I/O in progress, SPEVALID=1 or SPEIOCUR=1.
36	(24)	CHARACTER	4	*	
36	(24)	SIGNED	2	SPEFIXCT	Fix count for this view
38	(26)	BITSTRING	1	SPEFLGS1	Flags
		1...		SPEOPAGE	View contains original page (source from first share)
		.11.		SPEVIEW	Shared page view
		...1		*	Reserved (available, use last)
		.... 1...		SPELSQA	Copy of PFTLSQA if view is for SQA or LSQA

Table 39. Structure SPE (continued)

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
40	(28)	CHARACTER	0	*	reserved

Table 40. Constants for IAXSPE

Len	Type	Value	Name	Description
SPE constants				
0	BIT	01	SPEVIEW_COW	Copy-on-write view
0	BIT	00	SPEVIEW_SW	Shared/write view
0	BIT	10	SPEVIEW_RO	Read-only view
0	BIT	11	SPEVIEW_TW	Target-write view
4	DECIMAL	40	SPELEN	Length of the SPE
4	HEX	7FFFFFF8	SPESDH_REFMASK	Mask to extract SDH address. Eg: SDHPTR=(SPESDH&SPESDH_REFMASK)
4	HEX	80000007	SPESDH_SETMASK	Mask to set SDH address. Eg: SPESDH=(SPESDH&SPESDH_SETMASK) | (SDHPTR&SPESDH_REFMASK)
4	HEX	7FFFF000	SPEVSA_REFMASK	Mask to extract VSA value. Eg: VSA=(SPEVSA&SPEVSA_REFMASK)
4	HEX	80000FFF	SPEVSA_SETMASK	Mask to extract VSA value. Eg: SPEVSA=(SPEVSA&SPEVSA_SETMASK) | (VSA&SPEVSA_REFMASK)

Table 41. Cross Reference for IAXSPE

Name	Offset	Hex Tag
SPE	0	
SPEALL	0	
SPEANYWH	13	08
SPEANY64	12	08
SPEBQPTR	4	
SPEDGSX	13	10
SPEDREF	13	02
SPEDSPPG	10	80
SPEEXPI	12	02
SPEFIXCT	24	
SPEFIXED	13	01
SPEFIXHI	12	01
SPEFLGS1	26	
SPEFLGS2	13	
SPEFLGS3	12	0F
SPEFQPTR	0	
SPEFREE	8	80
SPEGONE	13	80
SPEIGNOR	C	80
SPEIOCUR	13	20
SPELOCKD	12	01
SPELSQA	26	08
SPEMREC	12	01
SPEOPAGE	26	80
SPEPCB	18	

IAXSPE mapping

Table 41. Cross Reference for IAXSPE (continued)

Name	Offset	Hex Tag
SPEPGTR	1C	
SPEWORD	14	
SPERAB	18	
SPERSPEQ	8	
SPESDH	C	
SPESPGTR	14	
SPESSA	13	04
SPEUNAU	12	04
SPEVALID	13	40
SPEVIEW	26	60
SPEVSA	10	

Chapter 14. IAXUDD Information

IAXUDD Heading Information

Common Name: USER DATA SPACE DESCRIPTOR
 Macro ID: IARUDD
 DSECT Name: UDD ACRONYM: UDD
 Owing Component: REAL STORAGE MANAGER (SC1CR)
 Eye-Catcher ID: NONE
 Storage Attributes: Virtual Storage: YES
 Auxiliary Storage: N/A
 Subpool: RESIDES IN RSM MANAGED DATA SPACE
 Key: 0
 Data Space: YES
 Residency: Anywhere below 2 Gig
 Size: See Assembler Listing
 Created by: DSPSERV CREATE
 Pointed to by: UDDPTR, UDDFQPTR, UDDBQPTR, DABIUUQF,
 DABIUUQL
 Serialization: ADDRESS SPACE LEVEL LOCK FOR IUUQ
 RSMDS LOCK FOR THE FUQ
 Function: THE UDD CONTAINS THE INFORMATION USED TO MANAGE
 A SINGLE USER DATA SPACE.

IAXUDD mapping

Table 42. Structure UDD

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	128	UDD	
0	(0)	CHARACTER	128	UDDALL	
0	(0)	CHARACTER	8	UDDNEXTLOCATOR	Ptr and Alet to next Udd
0	(0)	ADDRESS	4	UDDFQPTR	FORWARD UDD QUEUE POINTER
4	(4)	UNSIGNED	4	UDDFALET	FORWARD UDD QUEUE ALET
8	(8)	CHARACTER	8	UDDPREVLOCATOR	Ptr and Alet to prev Udd
8	(8)	ADDRESS	4	UDDBQPTR	BACKWARD UDD QUEUE POINTER
12	(C)	UNSIGNED	4	UDDBALET	BACKWARD UDD QUEUE ALET
16	(10)	CHARACTER	4	UDDFLAGS	UDD FLAGS
16	(10)	CHARACTER	1	UDDSKEY	STORAGE PROTECT KEY
		1111 1...		UDDSKEY5	STORAGE KEY 5 BITS
		1111		UDDKEY	KEY FOR THE DATA SPACE PAGES
		.... 1...		UDDFPROT	PAGES ARE FETCH PROTECTED
		.... .111		*	RESERVED
17	(11)	BITSTRING	1	UDDFLGS1	FLAG BYTE 1
		1...		UDDSALL	SCOPE ALL USER DATA SPACE
		.1..		UDDSSGL	SCOPE SINGLE USER DATA SPACE OR A HIPERSPACE
		..1.		UDDDREF	DREF USER DATA SPACE
		...1		UDDHIPER	UDD IS FOR A HIPERSPACE
		.... 1...		UDDSCRLL	SCROLL TYPE HIPERSPACE
		.... .1..		UDDCACHE	CACHE TYPE HIPERSPACE

IAXUDD mapping

Table 42. Structure UDD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ..1.		UDDCSTNO	CASTOUT(NO)
		.... ...1		UDDSCOM	SCOPE COMMON USER DATA SP.
18	(12)	BITSTRING	1	UDDFLGS2	FLAG BYTE 2
		1...		UDDSHARD	SHARED HIPERSPACE
		.1..		UDDSHARE	PORTION OF UDD MAY HAVE ONCE CONTAINED SHARED VIRTUAL
		..1.		UDDUSER	THIS DATA SPACE HAS USER KEY LIMITS (SMF COUNTS) APPLIED TO IT.
		...1		UDDMEGAROOED	Data space contains a megarooed segment
		.... 1...		UDDHIGH	MAY BE BACKED ABOVE/BELOW 2 GIG WHEN IOON
		.... .1..		UDDCRITICALPAGING	Indicates that dataspace can contain critical data. On-Dataspace is considered to have critical data, when the address space is marked as critical paging. Off-Pages should be paged out to aux
		.... ..1.		UDDSCMEVAC	This UDD has not yet been processed for storage evacuation
		.... ...1		UDDLARGEPAGE	This data space is preferentially backed with large (1M) pages
19	(13)	BITSTRING	1	UDDFLGS3	FLAG BYTE 3
		1...		UDD_HIDEZERO	Data space hides page 0
		.111 1111		*	Reserved
20	(14)	CHARACTER	8	UDDDSPNM	NAME OF THE USER DATA SPACE
28	(1C)	UNSIGNED	4	UDDSQN	USER DATA SPACE SEQUENCE NO.
32	(20)	ADDRESS	4	UDDRDD	ADDRESS OF THE RDD
36	(24)	ADDRESS	4	UDDASTE	ADDRESS OF THE ASTE
40	(28)	ADDRESS	4	UDDTCB	ADDRESS OF THE OWNING TCB
44	(2C)	SIGNED	4	UDDMXVSA	MAXIMUM VIRTUAL STORAGE ADDRESS ALLOWED FOR THIS DATA SPACE AT ITS CURRENT SIZE.
44	(2C)	UNSIGNED	4	UDDVSA32	UNSIGNED VERSION OF UDDMXVSA
48	(30)	ADDRESS	4	UDDRRVRQ	ADDRRSS OF 1ST RVR ON RELATED CHAIN
52	(34)	SIGNED	4	UDDMAXSZ	MAXIMUM SIZE POSSIBLE FOR THIS DATA SPACE (IN UNITS OF BLOCKS). THE CURRENT SIZE OF THE DATA SPACE CAN NEVER BE EXTENDED BEYOND THIS AMOUNT.
56	(38)	CHARACTER	4	UDDSHCTL	SHARE CONTROL COUNTS
56	(38)	UNSIGNED	2	UDDUPDCT	CURRENT NUMBER OF UPDATERS FOR THIS DATA SPACE AS REQUESTED THROUGH THE VDAC CONTROL FUNCTION
58	(3A)	UNSIGNED	2	UDDRDC	CURRENT NUMBER OF READERS FOR THIS DATA SPACE AS REQUESTED THROUGH THE VDAC CONTROL FUNCTION
60	(3C)	BITSTRING	4	UDDAALET	ALET OF ASTE FOR A CADS

Table 42. Structure UDD (continued)

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
64	(40)	BITSTRING	1	UDDQFLGS	UDD QUEUE FLAGS
		1... ..		UDDPDFQP	PDFQ WAS PROCESSED BY UIC UPDATE
		.1.. ..		UDDFDFQP	FDFQ WAS PROCESSED BY UIC UPDATE
		..1.		UDDREPAIR	DATASPACE FRAME Q HAS BEEN REPAIRED FOR THIS UDD BY THE DATASPACE FRAME Q REPAIR SRB (IARRUSRB)
		...1 1111		*	RESERVED
65	(41)	CHARACTER	3	*	RESERVED
68	(44)	ADDRESS	8	UDDPDFQH	Pointer to the header of the pageable data space frame queue (PDFQ)
76	(4C)	CHARACTER	4	*	Unused
80	(50)	UNSIGNED	1	UDDMXUIC	Max UIC for the PDFQ
81	(51)	CHARACTER	3	*	Reserved
84	(54)	ADDRESS	8	UDDFDFQH	Pointer to the header of the FIXED DATA SPACE FRAME QUEUE (FDFQ)
92	(5C)	UNSIGNED	4	*	Reserved
96	(60)	UNSIGNED	8	UDDBBRSEQ#	Sequence number to indicate when this UDD can be reused. See Rit_NextBBSeq#. While this field is actually on a double word boundary it was decided to use Bdy(WORD) to fix the warnings generated because there are many parts that code 'LIKE(UDD) Bdy(WORD)' when it should be Bdy(DWORD)
104	(68)	ADDRESS	8	UDDPDLQH	Pageable large page data space frame queue (PDLQ)
112	(70)	CHARACTER	16	*	Reserved
128	(80)	CHARACTER	0	*	RESERVED - KEEP THE LENGTH OF A UDD AT 128 BYTES

Table 43. Constants for IAXUDD

Len	Type	Value	Name	Description
1	HEX	01	UDDFUQN	FREE UDD QUEUE (ON RDD)
1	HEX	02	UDDIUUQN	IN-USE UDD QUEUE (ON DAB)
1	HEX	03	UDDDIUQN	DELETE INTERNAL UDD QUEUE
UDD MASKS				
4	HEX	00800000	UDDKSALL	MASK FOR THE SCOPE(ALL) UDS BIT
4	HEX	00400000	UDDKSSGL	MASK FOR THE SCOPE(SINGLE) UDS BIT
4	HEX	00200000	UDDKDREF	MASK FOR THE DREF UDS BIT
4	HEX	00100000	UDDKHIPR	MASK FOR THE HIPERSPACE BIT
4	HEX	00080000	UDDKSCRL	MASK FOR THE SCROLL HIPERSPACE BIT
4	HEX	00040000	UDDKCACH	MASK FOR THE CACHE HIPERSPACE BIT
4	HEX	00010000	UDDKSCOM	MASK FOR THE COMMON BIT

IAXUDD mapping

Table 43. Constants for IAXUDD (continued)

Len	Type	Value	Name	Description
4	HEX	00088000	UDDKSHSH	MASK USED TO DETECT A SHARED SCROLL TYPE HIPERSPACE
4	HEX	0000007F	UDDBDYMASK	Used for testing whether UCB is on the correct boundary

Table 44. Cross Reference for IAXUDD

Name	Offset	Hex Tag
UDD	0	
UDD_HIDEZERO	13	80
UDDAALET	3C	
UDDALL	0	
UDDASTE	24	
UDDBALET	C	
UDDBBRSEQ#	60	
UDDBQPTR	8	
UDDCACHE	11	04
UDDCRITICALPAGING	12	04
UDDCSTNO	11	02
UDDDREF	11	20
UDDDSPNM	14	
UDDFALET	4	
UDDFDFQH	54	
UDDFDFQP	40	40
UDDFLAGS	10	
UDDFLGS1	11	
UDDFLGS2	12	
UDDFLGS3	13	
UDDFPROT	10	08
UDDFQPTR	0	
UDDHIGH	12	08
UDDHIPER	11	10
UDDKEY	10	F0
UDDLARGEPAGE	12	01
UDDMAXSZ	34	
UDDMEGAROOED	12	10
UDDMXUIC	50	
UDDMXVSA	2C	
UDDNEXTLOCATOR	0	
UDDPDFQH	44	
UDDPDFQP	40	80
UDDPDLQH	68	
UDDPREVLOCATOR	8	
UDDQFLGS	40	
UDDRDCT	3A	
UDDRDD	20	
UDDREPAIR	40	20
UDDRRVRQ	30	
UDDSALL	11	80
UDDSCMEVAC	12	02

Table 44. Cross Reference for IAXUDD (continued)

Name	Offset	Hex Tag
UDDSCOM	11	01
UDDSCRLL	11	08
UDDSHARD	12	80
UDDSHARE	12	40
UDDSHCTL	38	
UDDKEY	10	
UDDKEY5	10	F8
UDDSQN	1C	
UDDSSGL	11	40
UDDTCB	28	
UDDUPDCT	38	
UDDUSER	12	20
UDDVSA32	2C	

IAXUDD mapping

Chapter 15. IAXV64C Information

IAXV64C Programming Interface Information

IAXV64C is a programming interface.

IAXV64C Heading Information

Common Name: IARV64 Service Return/Reason code constants
Macro ID: IAXV64C
DSECT Name: None
Owning Component: Real Storage Manager (SCIAR)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: N/A
Key: N/A
Residency: Caller-supplied
Size: N/A
Created by: N/A
Pointed to by: N/A
Serialization: None required
Function: Provide equates for return and reason codes.

IAXV64C mapping

Table 45. Structure

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

IAXV64C mapping

Table 45. Structure (continued)

Offset Dec	Offset Hex Type	Len	Name(Dim)	Description
	IAXV64C 1;; START OF SPECIFICATIONS PROPRIETARY STATEMENT 01 PROPRIETARY STATEMENT= LICENSED MATERIALS - PROPERTY OF IBM 5694-A01 COPYRIGHT IBM CORP. 2008 STATUS= HBB7750 END_OF_PROPRIETARY_STATEMENT 01 DESCRIPTIVE NAME: IARV64 Service Return/Reason code constants 02 ACRONYM: CONS 01 MACRO NAME: IAXV64C 01 EXTERNAL CLASSIFICATION: PI 01 END OF EXTERNAL CLASSIFICATION: 01 DSECT NAME: None 01 COMPONENT: Real Storage Manager (SCIAR) 01 EYE-CATCHER: NONE 01 STORAGE ATTRIBUTES: 02 SUBPOOL: N/A 02 KEY: N/A 02 RESIDENCY: Caller-supplied 01 SIZE: N/A 01 CREATED BY: N/A 01 POINTED TO BY: N/A 01 SERIALIZATION: None required 01 FUNCTION: 02 Provide equates for return and reason codes. 01 METHOD OF ACCESS: 02 ASM: IAXV64C 02 PL/X: %INCLUDE SYSLIB(IAXV64C) 01 DELETED BY: N/A 01 FREQUENCY: N/A 01 DEPENDENCIES: None 01 DISTRIBUTION LIBRARY: AMACLIB 01 CHANGE ACTIVITY: \$L0=HVCCOMMON ,HBB7750,070815,PD00HL: 64-Bit Common \$P1=ME11763 ,HBB7750,080103,PD00KC: Propcheck updates END OF SPECIFICATIONS Note carefully that bits 0-15 of the reason code or abend reason code may contain component-diagnostic data and must not be assumed to be 0.			
0	(0) BITSTRING	0	IARV64RSNCODEMASK	"X'00FFFF00'" Use this mask to isolate the non component-diagnostic portion of the reason code.
IARV64 Return and Reason Code definitions for GETCOMMON				
	.... ....		IARV64RC_OK	"X'00000000'" Meaning: IARV64 request successful. Action: None required.
	.... .1..		IARV64RC_WARN	"X'00000004'" Meaning: Warning Action: Refer to the action provided with the specific reason code.

Table 45. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		IARVP64RC_FAIL	"X'00000008'" Meaning: Service failed due to running out of resources Action: Refer to the action provided with the specific reason code.
0	(0)	BITSTRING	0	IARV64RSN64BITMEMLIMITEXHAUSTED	"X'00001600'" Meaning: For 64-Bit private storage the address space MEMLIMIT was exceeded. Action: Either raise the MEMLIMIT of the address space or determine if private storage is being consumed excessively somewhere.
0	(0)	BITSTRING	0	IARV64RSN64BITCOMMONEXHAUSTED	"X'00001700'" Meaning: Insufficient free space to satisfy the IARV64 request Action: For common storage, either raise the system limit on common (HVCOMMON) or determine if common storage is being consumed excessively somewhere.
0	(0)	BITSTRING	0	IARV64RSN64BITMEMLIMITZERO	"X'00002100'" Meaning: For 64-Bit private storage the address space MEMLIMIT was set to zero. Action: If you want to allocate 64-bit private virtual storage in this address space set the MEMLIMIT to something other than zero.
0	(0)	BITSTRING	0	IARVP64DRSNNOLARGEFRAMEAREA	"X'00002200'" Meaning: For a IARV64 GETCOMMON PAGEFRAMESIZE=1MEG request there is no Large Frame Area on this system. Action: Reissue the request specifying PAGEFRAMESIZE=4k Or specifying PAGEFRAMESIZE=MAX on the GETCOMMON request such that your request will be backed by 4K page frames if you are running on a machine that does not have a Large Frame Area.
0	(0)	BITSTRING	0	IARV64RSNNOLARGEFRAMES	"X'00005D00'" Meaning: For an IARV64 GETCOMMON PAGEFRAMESIZE=1MEG request there were no more large page frames to satisfy the request. Action: Reissue the request specifying PAGEFRAMESIZE=4k Or specifying PAGEFRAMESIZE=MAX on the GETCOMMON requests such that your request will be backed by 4K page frames.

IAXV64C mapping

Table 45. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
End of IARV64 Return and Reason Code definitions					
0	(0)	BITSTRING	0	IARV64ABENDRSNCODEMASK	"X'00FFFF00'" Use this mask to isolate the non component-diagnostic portion of the abend reason code.
IARVP64 Abend Reason Code definitions					
0	(0)	BITSTRING	0	IARV64ABENDRSNNOSEGSEXCEEDSMAX	"X'00001500'" Meaning: The number of segments specified on an iARV64 GETCOMMON request exceeds the maximum number of segments allowed. Action: Ensure you request specifies a number of segments for GETCOMMON that does not exceed the maximum size of the HVCOMMON area.
0	(0)	BITSTRING	0	IARV64ABENDRSN64BITMEMLIMITEXHAUSTED	"X'00001600'" Meaning: For 64-Bit private storage the address space MEMLIMIT was exceeded. Action: Either raise the MEMLIMIT of the address space or determine if private storage is being consumed excessively somewhere.
0	(0)	BITSTRING	0	IARV64ABENDRSN64BITCOMMONEXHAUSTED	"X'00001700'" Meaning: Insufficient free space to satisfy the IARV64 request Action: For common storage, either raise the system limit on common (HVCOMMON) or determine if common storage is being consumed excessively somewhere.
0	(0)	BITSTRING	0	IARVP64ABENDRSNCALLERNOTAUTH	"X'00001900'" Meaning: Caller is not authorized to perform the request. Action: Caller needs to be in supervisor state or key 0-7 for an IARV64 GETCOMMON request.
0	(0)	BITSTRING	0	IARV64ABENDRSN64BITMEMLIMITZERO	"X'00002100'" Meaning: For 64-Bit private storage the address space MEMLIMIT was set to zero. Action: If you want to allocate 64-bit private virtual storage in this address space set the MEMLIMIT to something other than zero.
0	(0)	BITSTRING	0	IARVP64ABENDRSNNOLARGEFRAMEAREA	

Table 45. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	BITSTRING	0	IARCP64ABENDRSNKEYSPECIFIEDNOTVALID	"X'00002200'" Meaning: For a IARV64 GETCOMMON PAGEFRAMESIZE=1MEG request there is no Large Frame Area on this system. Action: Reissue the request specifying PAGEFRAMESIZE=4k Or specifying PAGEFRAMESIZE=MAX on the GETCOMMON request such that your request will be backed by 4K page frames if you are running on a machine that does not have a Large Frame Area. "X'00003700'"
Meaning: The parameter list passed to the IARV64 GETCOMMON service specified a KEY value that is not valid. Action: Change the value specified for the KEY parameter to be in the range of 1-7.					
0	(0)	BITSTRING	0	IARV64ABENDRSNMOTKNNOTVALID	"X'00003800'" Meaning: For a IARV64 GETCOMMON request the MOTKN provided is not a valid previously system generated token. Action: Ensure the MOTKN is valid and is one previously returned to you by a IARV64 GETCOMMON request.
0	(0)	BITSTRING	0	IARVP64ABENDRSNLARGEEDATNOTINSTALLED	"X'00005400'" Meaning: For a IARV64 GETCOMMON PAGEFRAMESIZE=1MEG request the required eDAT Architecture Facility is not installed on this machine. Action: Reissue the request specifying PAGEFRAMESIZE=4k Or specifying PAGEFRAMESIZE=MAX on the GETCOMMON requests such that your request will be backed by 4K page frames if you are running on a machine that does not have the eDAT Architecture Facility installed.
0	(0)	BITSTRING	0	IARV64ABENDRSNZEROSEGSSPECIFIED	"X'00005900'" Meaning: The parameter list passed to the IARV64 GETCOMMON service specified zero segments on the SEGMENTS keyword. Action: Change the number of segments to be greater than zero.
0	(0)	BITSTRING	0	IARV64ABENDRSNNOLARGEFRAMES	

IAXV64C mapping

Table 45. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"X'00005D00'" Meaning: For an IARV64 GETCOMMON PAGEFRAMESIZE=1MEG request there were no more large page frames to satisfy the request. Action: Reissue the request specifying PAGEFRAMESIZE=4k Or specifying PAGEFRAMESIZE=MAX on the GETCOMMON requests such that your request will be backed by 4K page frames.

Table 46. Cross Reference for IAXV64C

Name	Offset	Hex	Tag
IARCP64ABENDRSNKEYSPECIFIEDNOTVALID	0		3700
IARVP64ABENDRSNCALLERNOTAUTH	0		1900
IARVP64ABENDRSNLARGEPAGEEDATNOTINSTALLED	0		5400
IARVP64ABENDRSNNOLARGEFRAMEAREA	0		2200
IARVP64DRSNOLARGEFRAMEAREA	0		2200
IARVP64RC_FAIL	0		8
IARV64ABENDRSNCODEMASK	0	FFFF00	
IARV64ABENDRSNMOTKNNOTVALID	0		3800
IARV64ABENDRSNNOLARGEFRAMES	0		5D00
IARV64ABENDRSNNOSEGSEXCEEDSMAX	0		1500
IARV64ABENDRSNZEROSEGSSPECIFIED	0		5900
IARV64ABENDRSN64BITCOMMONEXHAUSTED	0		1700
IARV64ABENDRSN64BITMEMLIMITEXHAUSTED	0		1600
IARV64ABENDRSN64BITMEMLIMITZERO	0		2100
IARV64RC_OK	0		0
IARV64RC_WARN	0		4
IARV64RSNCODEMASK	0	FFFF00	
IARV64RSNNOLARGEFRAMES	0		5D00
IARV64RSN64BITCOMMONEXHAUSTED	0		1700
IARV64RSN64BITMEMLIMITEXHAUSTED	0		1600
IARV64RSN64BITMEMLIMITZERO	0		2100

Chapter 16. IAXV64WA Information

IAXV64WA Programming Interface Information

ONLY the following fields are part of the programming interface information:

- V64WACountData
- V64WADiagData
- V64WAENTRY
- V64WAHEADERPUBLIC

IAXV64WA Heading Information

Common Name: IARV64 REQUEST=LIST work area
Macro ID: IAXV64WA
DSECT Name: V64AWorkArea
Owning Component: Real Storage Manager (SC1CR)
Eye-Catcher ID: NONE
Storage Attributes: Key: Caller-supplied
Residency: Caller-Supplied
Size: Variable
V64WAHEADER -- X'0028' bytes
V64WAENTRY -- X'0014' bytes
V64WADiagData- X'002C' bytes
V64WACountData - x'0018' bytes
Created by: Caller
Pointed to by: IARV64 REQUEST=LIST parameter list
Serialization: None required
Function: The returned output consists of a header mapped by V64WAHEADER followed by entries mapped by V64WAENTRY. The number of entries is indicated by field V64WANUMDATAAREAS.

IAXV64WA mapping

Table 47. Structure V64WAHEADER

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	V64WAHEADER	Work area header for the call to IARV64 Request=List
0	(0)	CHARACTER	32	V64WAHEADERPRIVATE	Internal work area
32	(20)	CHARACTER	8	V64WAHEADERPUBLIC	Public area
32	(20)	SIGNED	4	V64WARETURNCODE	Return code from IARV64 Request=list. See Equates beginning "V64WARC_"
36	(24)	SIGNED	4	V64WANUMDATAAREAS	Number of memory object storage range list entries that follow
36	(24)	X'28'	0	V64WAHEADER_LEN	"*-V64WAHEADER"

IAXV64WA mapping

Table 48. Structure V64WAENTRY

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	V64WAENTRY	Map for each memory object range list entry
0	(0)	BITSTRING 1111	1	V64WAFLAG V64WAKEY	Memory object flag byte "X'F0'" Storage key for the memory object containing this range
		.... 1..		V64WAFPROT	"X'08'" 1 = memory object is fetch-protected 0 = memory object is not fetch protected
		.... .1..		V64WASHARED	"X'04'" 1 = memory object is a shared memory object 0 = non-shared (private) memory object
		.... ..1.		V64WANONDEFAULTGUARDAREA	"X'02'" 1 = memory object has at least one guard area that is not the default
		.... ...1		V64WADEFAULTGUARDAREA	"X'01'" 1 = memory object has a default guard area defined (guard area at beginning or end of the memory object based on GUARDLOC)
1	(1)	BITSTRING 1...	1	V64WAFLAG1 V64WASYSAFF	Memory object flag byte "X'80'" 1 = the system affinity for this memory object is still attached
		.1..		V64WAGUARD	"X'40'" 1 = the memory object is completely guarded
		..1.		V64WALARGEPAGE	"X'20'" 1 = the memory object is backed by large page frame
		...1		V64WAUTOKENNOTMATCH	"X'10'" Used for DUMPPROTOCOL only
		.... 1..		V64WACOMMON	"X'08'" 1 = memory object is a 64bit common memory object 0 = Non-64BIT common memory object
		.... .1..		V64DIAGDATA	"X'04'" 1 = Momb diagnostic data present 0 = Momb diagnostic data not present
2	(2)	BITSTRING	1		Reserved - must be zeroes
3	(3)	ADDRESS	1	V64WADUMPPRIORITY	Value from 1 to 99 inclusive
4	(4)	CHARACTER	8	V64WASTART64	Starting address of this storage range (Assumed to be on a segment boundary)
12	(C)	CHARACTER	8	V64WAEND64	End address of this storage range
12	(C)	X'14'	0	V64WAENTRY_LEN	"*-V64WAENTRY"

Table 49. Structure V64WADIAGDATA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	V64WADIAGDATA	Map for MOMB diagnostic information
0	(0)	CHARACTER	8	V64WACREATETIME	Time memory object was created

Table 49. Structure V64WADIAGDATA (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
8	(8)	CHARACTER		2	V64WACALLERASID	Asid of program that issued create req
10	(A)	CHARACTER		2	V64WACALLERHOMEASID	Home asid at create time
12	(C)	CHARACTER		2	V64WACALLERPRIMARYASID	Primary asid at create time
14	(E)	CHARACTER		2	V64WACALLEROWNERASID	Owner asid at create time
16	(10)	CHARACTER		4	V64WACALLER	Address of program that issued create
20	(14)	CHARACTER		8	V64WAJOBNAME	Owner Job name
28	(1C)	CHARACTER		8	V64WAJOBID	Owner Job ID
36	(24)	CHARACTER		4	V64WAUNOWNEDDATE	Date owner terminated 0YYYYDDD Julian date
40	(28)	CHARACTER		4	V64WAUNOWNEDTIME	Time owner terminated HHMMSSth
40	(28)	X'2C'		0	V64WADIAG_LEN	"*-V64WADiagData"

Table 50. Structure V64WACOUNTDATA

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
0	(0)	STRUCTURE		0	V64WACOUNTDATA	Map for COUNTPAGES output area
0	(0)	DBL WORD		8	V64WAONAUX	Number of 4K pages with a copy on AUX
8	(8)	DBL WORD		8	V64WAINREAL	Number of 4K pages with a copy in REAL
16	(10)	DBL WORD		8	V64WABOTH	Number of 4K pages with a copy in REAL and on AUX
16	(10)	X'18'		0	V64WACOUNT_LEN	"*-V64WACountData"
16	(10)	X'0'		0	V64WARC_OK	"0" Successful completion
16	(10)	X'2'		0	V64WARC_CHANGED	"2" Successful completion but structure changed
16	(10)	X'4'		0	V64WARC_PARTIAL	"4" Partially successful completion. More information remains to be returned in the work area
16	(10)	X'6'		0	V64WARC_PARTIALCHANGED	"6" Partially successful completion. More information remains to be returned in the work area. The structure has changed.
16	(10)	X'8'		0	V64WARC_NOTFOUND	"8" No memory object was found
16	(10)	X'10'		0	V64WARC_SUBSPACEMODE	"16" Request rejected. Request was issued in subspace mode.

Table 51. Cross Reference for IAXV64WA

Name	Offset	Hex Tag
V64DIAGDATA	1	4
V64WABOTH	10	
V64WACALLER	10	
V64WACALLERASID	8	
V64WACALLERHOMEASID	A	
V64WACALLEROWNERASID	E	
V64WACALLERPRIMARYASID	C	
V64WACOMMON	1	8

IAXV64WA mapping

Table 51. Cross Reference for IAXV64WA (continued)

Name	Offset	Hex Tag
V64WACOUNT_LEN	10	18
V64WACOUNTDATA	0	
V64WACREATETIME	0	
V64WADEFAULTGUARDAREA	0	1
V64WADIAG_LEN	28	2C
V64WADIAGDATA	0	
V64WADUMPPRIORITY	3	
V64WAEND64	C	
V64WAENTRY	0	
V64WAENTRY_LEN	C	14
V64WAFLAG	0	
V64WAFLAG1	1	
V64WAFPROT	0	8
V64WAGUARD	1	40
V64WAHEADER	0	
V64WAHEADER_LEN	24	28
V64WAHEADERPRIVATE	0	
V64WAHEADERPUBLIC	20	
V64WAINREAL	8	
V64WAJOBID	1C	
V64WAJOBNAME	14	
V64WAKEY	0	F0
V64WALARGEPAGE	1	20
V64WANONDEFAULTGUARDAREA	0	2
V64WANUMDATAAREAS	24	
V64WAONAUX	0	
V64WARC_CHANGED	10	2
V64WARC_NOTFOUND	10	8
V64WARC_OK	10	0
V64WARC_PARTIAL	10	4
V64WARC_PARTIALCHANGED	10	6
V64WARC_SUBSPACEMODE	10	10
V64WARETURNCODE	20	
V64WASHARED	0	4
V64WASTART64	4	
V64WASYSAFF	1	80
V64WAUNOWNEDDATE	24	
V64WAUNOWNEDTIME	28	
V64WAUTOKENNOTMATCH	1	10

Chapter 17. IAZASINF Information

IAZASINF Programming Interface Information

IAZASINF is a programming interface.

IAZASINF Heading Information

Common Name: Active Step information mapping
Macro ID: IAZASINF
DSECT Name: ASINF
Owning Component: JES Common (SC141)
Eye-Catcher ID: ASIN
Offset: 0
Length: 4
Storage Attributes: Subpool: caller
Key: Any
Residency: Any
Size: See ASINSIZE equate
Created by: Caller of JES access method GET service
Pointed to by: RPLERMSA in the IFGRPL mapping macro
Serialization: None required
Function: This DSECT maps the information returned on the JES access method GET interface for the active job step. The caller provides the address of the area in RPLERMSA and the length of the area in RPLEMLEN. JES will then fill in this area on a successful GET (RC=0) via SRB of the unwritten buffer from the target address space.
In order for JES to set the output area, the caller must set the eyecatcher in the first 4 bytes of the area passed.

IAZASINF mapping

Table 52. Structure ASINF

Offset	Offset		Len	Name(Dim)	Description
Dec	Hex	Type			
0	(0)	STRUCTURE	0	ASINF	
0	(0)	CHARACTER	4	ASINEYE	Eyecatcher (set by caller)
4	(4)	SIGNED	2	ASINLEN	Length of area filled in
6	(6)	BITSTRING	1	ASINVER	Version of data
6	(6)	X'1'	0	ASINVER1	"1" Version 1 of IAZASINF
6	(6)	X'1'	0	ASINVERC	"ASINVER1" Current version of data
7	(7)	BITSTRING	1	ASINFLG1	Flag byte
Active Job Step information					
8	(8)	SIGNED	1	ASINSTPN	Step number
9	(9)	BITSTRING	3		Reserved
12	(C)	CHARACTER	8	ASINSTEP	Step name
20	(14)	CHARACTER	8	ASINPROC	Procedure name

IAZASINF mapping

Table 52. Structure ASINF (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
28	(1C)	CHARACTER		8	ASINPGMN	Program name
36	(24)	BITSTRING		20		Reserved
36	(24)	X'38'		0	ASINSIZ1	"*-ASINF" Version 1 size of area
36	(24)	X'38'		0	ASINSIZE	"*-ASINF" Size of area

Table 53. Cross Reference for IAZASINF

Name	Offset	Hex Tag
ASINEYE	0	C1E2C9D5
ASINF	0	
ASINFLG1	7	
ASINLEN	4	
ASINPGMN	1C	
ASINPROC	14	
ASINSIZE	24	38
ASINSIZ1	24	38
ASINSTEP	C	
ASINSTPN	8	
ASINVER	6	
ASINVERC	6	1
ASINVER1	6	1

Chapter 18. IAZBTOKP Information

IAZBTOKP Programming Interface Information

IAZBTOKP is a programming interface.

IAZBTOKP Heading Information

Common Name: JES spool data set browse token (common mapping)
Macro ID: IAZBTOKP
DSECT Name: IAZBTOKP or BTOK
Owning Component: JES Common (SC141)
Eye-Catcher ID: BTOK
Offset: BTOKID-BTOK
Length: L'BTOKID
Storage Attributes: Subpool: Caller
Key: Any
Residency: Virtual and real storage are anywhere.
Size: See BTOKSIZE
Created by: Caller of dynamic allocation
Sysout API Put/Get SSI
Pointed to by: SSALBTKN in the dynamic allocation SSOB extension
SSS2BTOK in the Sysout API SSOB extension
Serialization: None required
Function: This macro maps the spool data set browse token that is passed via a dynamic allocation text unit on spool data set browse allocation requests. The information in this token is utilized by the job entry subsystem to allocate spool data sets in read only (browse) mode so they may be opened and read using standard MVS data management services for access to spool data. The information is also used to link Sysout API control information to the data set being allocated. When used in this fashion, the IAZBTOKP area is constructed entirely by the Sysout API and a pointer to this area is passed back to the Sysout API PUT/GET function caller in the SSS2BTOK field.

IAZBTOKP mapping

Table 54. Structure IAZBTOKP

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IAZBTOKP	
0	(0)	X'0'	0	BTOK	"IAZBTOKP" ALTERNATE DSECT NAME
0	(0)	BITSTRING	2	BTOKPL1	ID LENGTH
2	(2)	CHARACTER	4	BTOKID	ID FIELD
6	(6)	BITSTRING	2	BTOKPL2	VERSION LENGTH
8	(8)	BITSTRING	2	BTOKVER(0)	SERVICE VERSION NUMBER
8	(8)	BITSTRING	1	BTOKTYPE	Control block type
8	(8)	X'0'	0	BTOKBRWS	"0" Block created for browse

IAZBTOKP mapping

Table 54. Structure IAZBTOKP (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
EQU 1 Reserved - do not ever use						
8	(8)	X'2'		0	BTOKSAPI	"2" Block created by Sysout API
8	(8)	X'3'		0	BTOKSTKN	"3" SPOOL data set or client token allocation
9	(9)	BITSTRING		1	BTOKVERS	Version
9	(9)	X'3'		0	BTOKVRNM	"3" Version OS/390 Release 10
10	(A)	BITSTRING		2	BTOKPL3	Spool token length
BTOKIOTP points to one of the following data areas based on the value of BTOKTYPE: BTOKTYPE Contents of BTOKIOTP BTOKBRWS SPOOL address of IOT containing Pddb for data set to be allocated (JES2) BTOKSAPI SAPI token (entire IAZBTOKP returned from SAPI SSI BTOKSTKN SPOOL token. This can be either a client token (returned from dynamic allocation using key DALRTCTK) or a data set token (returned by SAPI in field SSS2DSTR)						
12	(C)	BITSTRING		4	BTOKIOTP	IOT MTR (or zero)
12	(C)	X'C'		0	BTOKSAPT	"BTOKIOTP,L'BTOKIOTP,T'BTOKIOTP SAPI token @R10LSDB"
12	(C)	X'C'		0	BTOKSPLT	"BTOKIOTP,L'BTOKIOTP,T'BTOKIOTP Client/DS token @R10LSDB"
16	(10)	BITSTRING		2	BTOKPL4	JOB KEY LENGTH
18	(12)	BITSTRING		4	BTOKJKEY	JOB KEY IN HEX
22	(16)	BITSTRING		2	BTOKPL5	ASID LENGTH
24	(18)	BITSTRING		2	BTOKASID	ASID IN HEX
26	(1A)	BITSTRING		2	BTOKPL6	NETWORK RECEIVER USERID LENGTH
28	(1C)	CHARACTER		8	BTOKRCID	NETWORK RECEIVER USERID
36	(24)	BITSTRING		2	BTOKPL7	LOG STRING PARAMETER LENGTH
38	(26)	CHARACTER		255	BTOKLOGS(0)	LOG STRING PARAMETER
38	(26)	BITSTRING		1	BTOKLSDL	LOG STRING DATA LENGTH (0-254 BYTES)
39	(27)	CHARACTER		254	BTOKLSDA	LOG STRING DATA
39	(27)	X'125'		0	BTOKEND	"*" END OF BTOK
39	(27)	X'125'		0	BTOKSIZE	"*-BTOK" SIZE OF BTOK

Table 55. Cross Reference for IAZBTOKP

Name	Offset	Hex Tag
BTOK	0	0
BTOKASID	18	
BTOKBRWS	8	0
BTOKEND	27	125
BTOKID	2	
BTOKIOTP	C	
BTOKJKEY	12	
BTOKLOGS	26	
BTOKLSDA	27	
BTOKLSDL	26	
BTOKPL1	0	

Table 55. Cross Reference for IAZBTOKP (continued)

Name	Offset	Hex Tag
BTOKPL2	6	
BTOKPL3	A	
BTOKPL4	10	
BTOKPL5	16	
BTOKPL6	1A	
BTOKPL7	24	
BTOKRCID	1C	
BTOKSAPI	8	2
BTOKSAPT	C	C
BTOKSIZE	27	125
BTOKSPLT	C	C
BTOKSTKN	8	3
BTOKTYPE	8	
BTOKVER	8	
BTOKVERS	9	
BTOKVRNM	9	3
IAZBTOKP	0	

IAZBTOKP mapping

Chapter 19. IAZCHK Information

IAZCHK Programming Interface Information

IAZCHK is a programming interface.

IAZCHK Heading Information

Common Name: JES FSI checkpoint record area
Macro ID: IAZCHK
DSECT Name: IAZCHK or CHK
Owning Component: JES Common (SC141)
Eye-Catcher ID: 'CHK '
Offset: CHKID-CHK
Length: L'CHKID
Storage Attributes: Subpool: Caller
Key: Any
Residency: Virtual and real storage are anywhere.
Size: See CHKLEN
Created by: Caller of FSIREQ service
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
Serialization: None required
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.

IAZCHK mapping

Table 56. Structure IAZCHK

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IAZCHK	
0	(0)	X'0'	0	CHK	"IAZCHK,0,C'J'" Alternate DSECT name
0	(0)	CHARACTER	4	CHKID	CHKPT RECORD AREA ID
4	(4)	SIGNED	2	CHKLNGTH	CHKPT LENGTH
6	(6)	SIGNED	2		RESERVED
8	(8)	CHARACTER	64	CHKJESWK	TO BE FILLED IN BY JES
72	(48)	CHARACTER	8	CHKRBA	JES EQUIVALENT OF A RBA
80	(50)	SIGNED	4	CHKDEV	DEVICE TYPE
84	(54)	SIGNED	4	CHKMOD	MODEL NUMBER
88	(58)	SIGNED	4	CHKCOPY	COPY COUNT
92	(5C)	SIGNED	4	CHKTRNC	TRANSMISSION COUNT
96	(60)	SIGNED	4	CHKREC	LOGICAL RECORD COUNT(FROM SPOOL)
100	(64)	SIGNED	4	CHKPAGE	PHYSICAL SHEET COUNT

IAZCHK mapping

Table 56. Structure IAZCHK (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
104	(68)	CHARACTER		8	CHKPROD	PRODUCT THAT CREATED CKPT REC
112	(70)	SIGNED		4	CHKVER	VERSION OF PRODUCT
116	(74)	SIGNED		4	CHKRELS	RELEASE OF PRODUCT
120	(78)	SIGNED		4	CHKMODF	MODIFICATION LEVEL OF PRODUCT
124	(7C)	SIGNED		4	CHKSERV	SERVICE LEVEL OF PRODUCT
124	(7C)	X'80'		0	CHKLEN	"*-CHK"

Table 57. Cross Reference for IAZCHK

Name	Offset	Hex Tag
CHK	0	0
CHKCOPY	58	
CHKDEV	50	
CHKID	0	
CHKJESWK	8	
CHKLEN	7C	80
CHKLNTH	4	
CHKMOD	54	
CHKMODF	78	
CHKPAGE	64	
CHKPROD	68	
CHKRBA	48	
CHKREC	60	
CHKRELS	74	
CHKSERV	7C	
CHKTRNC	5C	
CHKVER	70	
IAZCHK	0	

Chapter 20. IAZCMTCB Information

IAZCMTCB Heading Information

Common Name: IAZNJTCP Main task control block
 Macro ID: IAZCMTCB
 DSECT Name: MTCB
 Owing Component: JES Common (SC141)
 Eye-Catcher ID: MTCB
 Offset: 0
 Length: 6
 Storage Attributes: Subpool: 0
 Key: 0
 Residency: Any
 Virtual storage below 2G, real storage anywhere,
 in the private storage of the IAZNJTCP address space.
 Size: See MTCBLEN
 Created by: IAZNJTCP address space initialization
 Pointed to by: mtcbptr field of the IAZNJTCP local data area
 Serialization: None required
 Function: IAZCMTCB is the main task control block for NJETCP
 server address space.

IAZCMTCB mapping

Table 58. Structure MTCB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MTCB	
0	(0)	CHARACTER	6	MTCB_ID	Eye catcher
0	(0)	X'1'	0	MTCB_VONE	"1" Version 1
0	(0)	X'1'	0	MTCB_CVER	"mtcb_vone" Current version
6	(6)	ADDRESS	1	MTCB_VERSION	Version of mapping
7	(7)	BITSTRING	1	MTCBFLG1	Flag byte 1
		1...		STOSHORT	"B'10000000'" Storage shortage situation
		.1..		ACPTRTRY	"B'01000000'" Retry the accept call
		..1.		SRVRINIT	"B'00100000'" Server is initialized
		...1		DIAGMODE	"B'00010000'" Server is in diag mode. All the sockets created for the server from this point will get tracing enabled by default
		.... 1...		FLSCKCHK	"B'00001000'" Main task came out of wait to check for any failed sockets
		.... .1..		MFLG1RV2	"B'00000100'" Reserved for IBM
		.... ..1.		MFLG1RV3	"B'00000010'" Reserved for IBM
		.... ...1		MFLG1RV4	"B'00000001'" Reserved for IBM

IAZCMTCB mapping

Table 58. Structure MTCB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
8	(8)	CHARACTER	1	MTCB_SRVFAMILY	This field is filled when the server obtains an IPV6 or IPV4 socket. When server obtains a IPV6 socket, it means IPV6 is enabled on the local node's TCP/IP stack. This is used by IAZNJSTK's get_rmt_IPad() to make decisions on how to issue getaddrinfo() call to resolve IP name into IP addresses for outbound work
9	(9)	CHARACTER	1	MTCB_BNDFAMILY	The address family of the IP address that the server was able to successfully bind to. This field is used for obtaining a client id for the server main task
10	(A)	CHARACTER	255	MTCB_HOST_NAME	The name of the host processor that the program is running on
265	(109)	BITSTRING	1	MTCBFLG2	Flag byte two
Values for field "mtcbflg2"					
		1... ..		JESTRACE	"B'10000000'" JES trace enabled
		.1.. ..		INTTRACE	"B'01000000'" Internal trace enabled
		..1.		VRBTRACE	"B'00100000'" Verbose trace enabled
		...1		MFLG2RV1	"B'00010000'" Reserved for IBM
		.... 1..		MFLG2RV2	"B'00001000'" Reserved for IBM
		.... .1..		MFLG2RV3	"B'00000100'" Reserved for IBM
		.... ..1.		MFLG2RV4	"B'00000010'" Reserved for IBM
		.... ...1		MFLG2RV5	"B'00000001'" Reserved for IBM
268	(10C)	ADDRESS	4	MTCB_SOCKCHNH	Socket chain header
272	(110)	ADDRESS	4	MTCB_SOCKCHNT	Socket chain trailer
276	(114)	ADDRESS	4	MTCB_RESPTTR	Pointer to a linked list of one or more addrinfo structures returned by getaddrinfo()
280	(118)	SIGNED	4	MTCB_SRVSOCK	Server socket for the NJETCP server
284	(11C)	SIGNED	4	MTCB_ACCEPT_ECB	ECB to be posted on BPX1AIO() call
288	(120)	SIGNED	4	MTCB_STSK_INIT_ECB	ECB to be posted when subtask inits
292	(124)	SIGNED	4	MTCB_CLNSOCK_ECB	This ecb is posted when the socket chain is to be cleaned up.
296	(128)	SIGNED	2	MTCB_SRVPORT	Server Port
300	(12C)	SIGNED	4	MTCB_SOCK_COUNT	Sockets count
304	(130)	SIGNED	4	MTCB_MAX_SOCKETS	Max socket number
		1... ..		MTCBENDL	"B'10000000'" End of ECBLIST indic.
304	(130)	X'134'	0	MTCBLEN	"*-MTCB" End of ECBLIST indic.

Table 59. Cross Reference for IAZCMTCB

Name	Offset	Hex Tag
ACPTRTRY	7	40
DIAGMODE	7	10
FLSCKCHK	7	8
INTTRACE	109	40
JESTRACE	109	80
MFLG1RV2	7	4
MFLG1RV3	7	2
MFLG1RV4	7	1
MFLG2RV1	109	10
MFLG2RV2	109	8
MFLG2RV3	109	4
MFLG2RV4	109	2
MFLG2RV5	109	1
MTCB	0	
MTCB_ACCEPT_ECB	11C	
MTCB_BNDFAMILY	9	
MTCB_CLNSOCK_ECB	124	
MTCB_CVER	0	1
MTCB_HOST_NAME	A	40404040
MTCB_ID	0	D4E3C3C2
MTCB_MAX_SOCKETS	130	
MTCB_RESPTR	114	
MTCB_SOCK_COUNT	12C	
MTCB_SOCKCHNH	10C	
MTCB_SOCKCHNT	110	
MTCB_SRVFAMILY	8	
MTCB_SRVPORT	128	
MTCB_SRVSOCK	118	
MTCB_STSK_INIT_ECB	120	
MTCB_VERSION	6	
MTCB_VONE	0	1
MTCBENDL	130	80
MTCBFLG1	7	
MTCBFLG2	109	
MTCBLEN	130	134
SRVRINIT	7	20
STOSHORT	7	80
VRBTRACE	109	20

IAZCMTCB mapping

Chapter 21. IAZCSOCK Information

IAZCSOCK Heading Information

Common Name: IAZ Socket chain element
 Macro ID: IAZCSOCK
 DSECT Name: SOCK
 Owing Component: JES Common (SC141)
 Eye-Catcher ID: INSOCK/OUTSOCK
 Offset: 0
 Length: 8
 Storage Attributes: Subpool: 0
 Key: 0
 Residency: Any
 Virtual storage below 2G, real storage anywhere,
 in the private storage of the IAZNJTCP address space.
 Size: See SOCKLEN
 Created by: IAZNJSTK initialization processing
 Pointed to by: SOCK_CHN field of the IAZNJSTK local data area
 Serialization: None required
 Function: Socket chain structure representing a NETSRV socket.

IAZCSOCK mapping

Table 60. Structure SOCK

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SOCK	
0	(0)	CHARACTER	8	SOCK_EYE	Eye catcher
8	(8)	ADDRESS	4	SOCK_NEXT	Ptr to NEXT element
12	(C)	ADDRESS	4	SOCK_PREV	Ptr to PREV element
16	(10)	ADDRESS	4	SOCK_MTCBP	Pointer to the IAZCMTCB data area
20	(14)	ADDRESS	4	SOCK_MTSTP	Pointer to the IAZCMTST data area for this connection
24	(18)	ADDRESS	4	SOCK_NRQP	Pointer to the dequeued NRQ
28	(1C)	ADDRESS	4	SOCK_NMSP	Pointer to the dequeued NMS
32	(20)	SIGNED	4	SOCK_BUFSZ	Negotiated buffer size for the socket
36	(24)	ADDRESS	4	SOCK_DBC_XMTR(8)	8 DBC ptrs for each of the 8 transmitters
68	(44)	ADDRESS	4	SOCK_DBC_RCVR(8)	8 DBC ptrs for each of the 8 receivers
100	(64)	CHARACTER	128	SOCK_XMTR_DBCST(8)	DBC status flags for transmitters
228	(E4)	CHARACTER	128	SOCK_RCVR_DBCST(8)	DBC status flags for receivers
356	(164)	CHARACTER	1	SOCK_ALLSTRM_DBCST(8)	DBC status flags for unassigned subdevices

IAZCSOCK mapping

Table 60. Structure SOCK (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description

=====					
IMPORTANT					

TCPSBCT and T CPRBCT are fields defined in IAZCDEFS. If they are changed in IAZCDEFS, they have to be changed here.					

=====					
356	(164)	X'8'	0	TCPSBCT	"8"
356	(164)	X'8'	0	T CPRBCT	"8"
484	(1E4)	ADDRESS	4	SOCK_XRB_SEND_PTRS(0)	
Pointers to XRBSTR structures used to C					
516	(204)	ADDRESS	4	SOCK_XRB_RECV_PTRS(0)	
Pointers to XRBSTR structures used to C					
548	(224)	ADDRESS	4	SOCK_COMP_WAREA_PT	A pointer to the work buffer used by compression routine
552	(228)	ADDRESS	4	SOCK_DCMP_WAREA_PT	Pointer to the work buffer used by decompression routine
556	(22C)	ADDRESS	4	SOCK_SPLT_WAREA_PT	POINTER TO THE WORK buffer used by spltdrec routine
560	(230)	SIGNED	4	SOCK_TCP_RETCD	TCP/IP error code used by IAZNJTCP and IAZNJSTK
564	(234)	CHARACTER	1	SOCK_CURRCB	RCB of data for which a check would be made to see if there is any transmission buffer that is currently being filled up
565	(235)	CHARACTER	14	SOCK_JFCSMSK	FCS mask to be sent during transmitter sends
579	(243)	CHARACTER	14	SOCK_SFCSMSK	FCS MASK OF ALL THE receivers on the local node
593	(251)	CHARACTER	16	SOCK_SRVIPAD	128-BIT IP address of this server
609	(261)	CHARACTER	16	SOCK_RMTIPAD	128-BIT IP address of remote peer
625	(271)	CHARACTER	255	SOCK_RMT_HOSTNM	Host name of the remote peer
880	(370)	CHARACTER	8	SOCK_RMTNDNM	Node name of remote peer - populated from open record for inbound requests AND FROM IAZYTNRQ FOR OUTBOUND REQUESTS
888	(378)	SIGNED	2	SOCK_SRVPORT	Port number of this server
890	(37A)	SIGNED	2	SOCK_RMTPORT	Port number of the remote peer
892	(37C)	CHARACTER	40	SOCKNLDV(0)	
892	(37C)	SIGNED	4	_SOCKNJT	JTNUM (Outbound SYSIN STREAMS)
896	(380)	SIGNED	4	_SOCKNJR	JRNUM (Inbound SYSIN streams)
900	(384)	SIGNED	4	_SOCKNST	STNUM (Outbound SYSOUT streams)
904	(388)	SIGNED	4	_SOCKNSR	SRNUM (Inbound SYSOUT streams)
908	(38C)	CHARACTER	8	_XMTRMSK	RCB mask of the transmitters for the socket
916	(394)	CHARACTER	8	_RCVRMSK	RCB mask of the receivers for the socket
924	(39C)	CHARACTER	8	_ALLSTRMSK	RCB mask for all the possible streams for the socket
932	(3A4)	BITSTRING	1	SOCK_FLG1	FLAG BYTE ONE

Table 60. Structure SOCK (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
Values for field "SOCK_FLG1"					
		1...		SOCK_F1_CONNECT_ISSUED	"B'10000000'" connect() has been issued but connect() did not return
		.1..		SOCK_F1_CONNECTED	"B'01000000'" Connect successful with remote peer
		..1.		SOCK_F1_DUP_CONNECT	"B'00100000'" Duplicate socket chain element
		...1		SOCK_F1_RESERVED_10	"B'00010000'" Reserved for IBM
		.... 1...		SOCK_F1_DUP_ERROR	"B'00001000'" Duplicate already set
		.... .1..		SOCK_F1_DIAG_ACTIVE	"B'00000100'" Socket is in diag mode - Tracing is active.
		.... ..1.		SOCK_F1_SEND_INIT	"B'00000010'" Send initiated on socket
		.... ...1		SOCK_F1_RECV_INIT	"B'00000001'" Recv initiated on socket
933	(3A5)	BITSTRING	1	SOCK_FLG2	Flag byte
Values for field "SOCK_FLG2"					
		1...		SOCK_F2_ALLWMRCB	"B'10000000'" Multiple RCBs are allowed in the transmission buffer
		.1..		SOCK_F2_NJE_SIGNED_ON	"B'01000000'" The socket has signed-on NJE wise
		..1.		SOCK_F2_JES_TRACE	"B'00100000'" JES event and record trace active for conn.
		...1		SOCK_F2_INT_TRACE	"B'00010000'" IAZ internal trace - trace data supplied to JES in IAZHTTRC format
		.... 1...		SOCK_F2_VRB_TRACE	"B'00001000'" Verbose trace -controls message verbosity
		.... .1..		SOCK_F2_RC_TO_SEND	"B'00000100'" Indicate RC has to be sent on an unsupported stream
		.... ..1.		SOCK_F2_1ST_BUFFER_SENT	"B'00000010'" Indicate the first buffer is sent on socket
		.... ...1		SOCK_F2_ALLWMHDRS	"B'00000001'" NRQIPACK is set in "I" rcd to allow multiple NJE headers in a single buffer
934	(3A6)	BITSTRING	1	SOCK_FLG3	Flag byte
		1...		SOCK_F3_STOP_CONN	"B'10000000'" Stop connection request Received for the connection
		.1..		SOCK_F3_NO_RIPI	"B'01000000'" NCCIRIF set during NJE signon
		..1.		SOCK_F3_SP_SEND_INI	"B'00100000'" Send initiated in special control record buffer
		...1		SOCK_F3_NO_XRB_SEND_AVAIL	"B'00010000'" No XRB send buffers available
		.... 1...		SOCK_F3_RES_FLG3_08	"B'00001000'" Reserved for IBM
		.... .1..		SOCK_F3_RES_FLG3_04	"B'00000100'" Reserved for IBM
		.... ..1.		SOCK_F3_RES_FLG3_02	"B'00000010'" Reserved for IBM
		.... ...1		SOCK_F3_RES_FLG3_01	"B'00000001'" Reserved for IBM

IAZCSOCK mapping

Table 60. Structure SOCK (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
935	(3A7)	CHARACTER		1	SOCK_FAMILY	DOMAIN NAME OF THE REMOTE PEER
936	(3A8)	SIGNED		4	SOCK_ID	Socket ID
936	(3A8)	X'3AC'		0	SOCKLEN	"*-SOCK"

DBCST structure (C structure is in IAZCMSTR)

Table 61. Cross Reference for IAZCSOCK

Name	Offset	Hex	Tag
_ALLSTRMSK	39C		
_RCVRMSK	394		
_SOCKNJR	380		
_SOCKNJT	37C		
_SOCKNSR	388		
_SOCKNST	384		
_XMTRMSK	38C		
SOCK	0		
SOCK_ALLSTRM_DBCST	164		
SOCK_BUFSZ	20		
SOCK_COMP_WAREA_PT	224		
SOCK_CURRCB	234		
SOCK_DBC_RCVR	44		
SOCK_DBC_XMTR	24		
SOCK_DCOMP_WAREA_PT	228		
SOCK_EYE	0		
SOCK_FAMILY	3A7		
SOCK_FLG1	3A4		
SOCK_FLG2	3A5		
SOCK_FLG3	3A6		
SOCK_F1_CONNECT_ISSUED	3A4		80
SOCK_F1_CONNECTED	3A4		40
SOCK_F1_DIAG_ACTIVE	3A4		4
SOCK_F1_DUP_CONNECT	3A4		20
SOCK_F1_DUP_ERROR	3A4		8
SOCK_F1_RECV_INIT	3A4		1
SOCK_F1_RESERVED_10	3A4		10
SOCK_F1_SEND_INIT	3A4		2
SOCK_F2_ALLWMHDRS	3A5		1
SOCK_F2_ALLWMRCB	3A5		80
SOCK_F2_INT_TRACE	3A5		10
SOCK_F2_JES_TRACE	3A5		20
SOCK_F2_NJE_SIGNED_ON	3A5		40
SOCK_F2_RC_TO_SEND	3A5		4
SOCK_F2_VRB_TRACE	3A5		8
SOCK_F2_1ST_BUFFER_SENT	3A5		2
SOCK_F3_NO_RIPI	3A6		40
SOCK_F3_NO_XRB_SEND_AVAIL	3A6		10
SOCK_F3_RES_FLG3_01	3A6		1
SOCK_F3_RES_FLG3_02	3A6		2

Table 61. Cross Reference for IAZCSOCK (continued)

Name	Offset	Hex Tag
SOCK_F3_RES_FLG3_04	3A6	4
SOCK_F3_RES_FLG3_08	3A6	8
SOCK_F3_SP_SEND_INI	3A6	20
SOCK_F3_STOP_CONN	3A6	80
SOCK_ID	3A8	
SOCK_JFCSMSK	235	
SOCK_MTCBP	10	
SOCK_MTSTP	14	
SOCK_NEXT	8	
SOCK_NMSP	1C	
SOCK_NRQP	18	
SOCK_PREV	C	
SOCK_RCVR_DBCST	E4	
SOCK_RMT_HOSTNM	271	
SOCK_RMTIPAD	261	
SOCK_RMTNDNM	370	
SOCK_RMTPORT	37A	
SOCK_SFCSMSK	243	
SOCK_SPLT_WAREA_PT	22C	
SOCK_SRVIPAD	251	
SOCK_SRVPORT	378	
SOCK_TCP_RETCDE	230	
SOCK_XMTR_DBCST	64	
SOCK_XRB_RECV_PTRS	204	
SOCK_XRB_SEND_PTRS	1E4	
SOCKLEN	3A8	3AC
SOCKNLDV	37C	
TCPRBCT	164	8
TCPSBCT	164	8

IAZCSOCK mapping

Chapter 22. IAZCTKN Information

IAZCTKN Programming Interface Information

ONLY the following field is part of the programming interface information:

- CTKNSORT

IAZCTKN Heading Information

Common Name: Allocation Client Token
Macro ID: IAZCTKN
DSECT Name: CTOKEN
Owning Component: JES Common (SC141)
Eye-Catcher ID: None
Storage Attributes: Subpool: any
Key: Key of SSI caller
Residency: Any
Size: See CTKNSIZE equate
Created by: JES2 and JES3
Pointed to by: The DALRTCTK text unit provided by the SVC 99 caller
Serialization: None required
Function: Defines the client token used for allocations originated by a server on behalf of a client and used later by the server to interface with JES.

IAZCTKN mapping

Table 62. Structure CTOKEN

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CTOKEN	
All fields except for CTKNJESD are common between JES2 and JES3.					
0	(0)	SIGNED	1	CTKNJESI	Identifies which JES built the CTOKEN
0	(0)	X'2'	0	CTKNJES2	"2" Identifier for JES2
0	(0)	X'3'	0	CTKNJES3	"3" Identifier for JES3
1	(1)	SIGNED	1	CTKNPLVL	Product level of CTOKEN creator
2	(2)	SIGNED	1	CTKNLVL	Service level of CTOKEN creator
3	(3)	BITSTRING	1		Reserved alignment byte
4	(4)	SIGNED	4	CTKNSORT	Sort key
8	(8)	SIGNED	4	(0)	Full word alignment
8	(8)	BITSTRING	8	CTKNBMAP	Bit map for supported bytes in the JES dependent area
16	(10)	CHARACTER	64	CTKNJESD	JES dependent section
16	(10)	X'50'	0	CTOKEND	"*" End of CTOKEN
16	(10)	X'50'	0	CTKNSIZE	"CTOKEND-CTOKEN" Size of CTOKEN

IAZCTKN mapping

Table 63. Cross Reference for IAZCTKN

Name	Offset	Hex Tag
CTKNBMAP	8	
CTKNJESD	10	
CTKNJESI	0	
CTKNJES2	0	2
CTKNJES3	0	3
CTKNPLVL	1	
CTKN SIZE	10	50
CTKN SLVL	2	
CTKN SORT	4	
CTOKEN	0	
CTOKEN D	10	50

Chapter 23. IAZCVDEV Information

IAZCVDEV Programming Interface Information

IAZCVDEV is a programming interface.

IAZCVDEV Heading Information

Common Name: JES2 Parameter List for Device Name
 Macro ID: IAZCVDEV
 DSECT Name: CVDEV
 Owning Component: JES Common (SC141)
 Eye-Catcher ID: CVDV
 Offset: CVDVSSID
 Length: L'CVDVSSID
 Storage Attributes: Subpool: caller
 Key: Any
 Residency: Virtual = any
 real = any
 Size: See CVDVSIZE
 Created by: caller of SSI function 'SSOBSSJI' = 71
 Pointed to by: SSJIUSER in the SSOB extension
 Serialization: None
 Function: This macro provides the mapping of the parameter list used by authorized programs to request the device name conversion from binary to EBCDIC.

IAZCVDEV mapping

Table 64. Structure CVDEV

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CVDEV	
0	(0)	CHARACTER	4	CVDVSSID	I.Eye catcher
4	(4)	ADDRESS	2	CVDVLEN	I.Length of CVDEV parameter list
6	(6)	SIGNED	2	CVDEVVRN	I.Parm list version number
6	(6)	X'1'	0	CVDVVER1	"1" Service version number of IAZCVDEV
6	(6)	X'1'	0	CVDVVER#	"1" Current version number
8	(8)	SIGNED	2	CVDVVERO	0.Subsystem version number
10	(A)	SIGNED	2		Reserved
Device Name Input and Output Section If the device type is not known, the CVDVNAME field will be set to "UNKNOWN"					
12	(C)	BITSTRING	4		Reserved for future use
16	(10)	BITSTRING	1		A filler byte to preserve alignment
17	(11)	BITSTRING	3	CVDVID	I.Device ID in binary
20	(14)	BITSTRING	4		Reserved for future use
24	(18)	CHARACTER	18	CVDVNAME	O.Converted name in EBCDIC
42	(2A)	BITSTRING	14		Reserved for future use

IAZCVDEV mapping

Table 64. Structure CVDEV (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
42	(2A)	X'38'		0	CVDVSIZE	"*-CVDEV" Size of CVDEV
CVDEV reason code The reason code is placed in SSJIRETN Values of SSJIRETN when SSOBRETN is zero for function (value of SSJIFREQ) SSJICVDV.						
42	(2A)	X'0'		0	CVDVOK	"0" Success
42	(2A)	X'4'		0	CVDVERR	"4" *** NOT USED ***
42	(2A)	X'8'		0	CVDVILG	"8" Eye catcher is not initialized correctly

Table 65. Cross Reference for IAZCVDEV

Name	Offset	Hex	Tag
CVDEV	0		
CVDEVVRN	6		
CVDVERR	2A	4	
CVDVID	11		
CVDVILG	2A	8	
CVDVLEN	4		
CVDVNAME	18		
CVDVOK	2A	0	
CVDVSSID	0		
CVDVSIZE	2A	38	
CVDVVER#	6	1	
CVDVVER0	8		
CVDVVER1	6	1	

Chapter 24. IAZDSINF Information

IAZDSINF Programming Interface Information

IAZDSINF is a programming interface.

IAZDSINF Heading Information

Common Name: Data Set Information mapping
Macro ID: IAZDSINF
DSECT Name: DSINF
Owning Component: JES Common (SC141)
Eye-Catcher ID: DSIF
Offset: 0
Length: 4
Storage Attributes: Subpool: caller
Key: Any
Residency: Any
Size: See DSINSIZE equate
Created by: Caller of JES access method GET service
Pointed to by: RPLERMSA in the IFGRPL mapping macro
Serialization: None required
Function: This DSECT maps the information returned on the JES access method GET interface. The caller provides the address of the area in RPLERMSA and the length of the area in RPLEMLEN. JES will then fill in this area on a successful GET (RC=0).
In order for JES to set the output area, the caller must set the eyecatcher in the first 4 bytes of the area passed.

IAZDSINF mapping

Table 66. Structure DSINF

Offset	Offset		Len	Name(Dim)	Description
Dec	Hex	Type			
0	(0)	STRUCTURE	0	DSINF	
0	(0)	CHARACTER	4	DSINEYE	Eyecatcher (set by caller)
4	(4)	SIGNED	2	DSINLEN	Length of area filled in
6	(6)	BITSTRING	1	DSINVER	Version of data
6	(6)	X'1'	0	DSINVER1	"1" Version 1 of IAZDSINF
6	(6)	X'1'	0	DSINVERC	"DSINVER1" Current version of data
7	(7)	BITSTRING	1	DSINFLG1	Flag bytes
		1... ..		DSINITRC	"B'10000000'" Returned area truncated
		.1.. ..		DSINIRSK	"B'01000000'" Records skipped due to I/O error on GET
		..1.		DSINIERR	"B'00100000'" Current record is error message text
		...1		DSINIWAR	"B'00010000'" Current record is warning message text

IAZDSINF mapping

Table 66. Structure DSINF (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
		....	1...		DSIN1JEC	"B'00001000'" Start or continuation of a JECL statement
8	(8)	SIGNED		8	DSINRECN	Record number of returned record within current data set
16	(10)	SIGNED		8	DSINLGLR	Record number of returned record within logical data set
24	(18)	DBL WORD		8	DSINSTKE	Time stamp of record PUT if available (STKE format)
32	(20)	SIGNED		4	DSINDSNU	JES data set number where record was read from
36	(24)	SIGNED		4	DSINJBNO	JES binary job number of owning job
40	(28)	CHARACTER		8	DSINJBID	JES job id of owning job
<p>Next instream dataset number to be assigned by JES. It starts with 1 and is bumped by 1 after each in-stream dataset is encountered in the job stream.</p>						
48	(30)	SIGNED		4	DSINNINS	Next instream dataset nr
52	(34)	SIGNED		4		Reserved
52	(34)	X'38'		0	DSINSIZ1	"*-DSINF" Version 1 size of area
52	(34)	X'38'		0	DSINSIZE	"*-DSINF" Size of area

Table 67. Cross Reference for IAZDSINF

Name	Offset	Hex Tag
DSINDSNU	20	
DSINEYE	0	C4E2C9D5
DSINF	0	
DSINFLG1	7	
DSINJBID	28	
DSINJBNO	24	
DSINLEN	4	
DSINLGLR	10	
DSINNINS	30	
DSINRECN	8	
DSINSIZE	34	38
DSINSIZ1	34	38
DSINSTKE	18	
DSINVER	6	
DSINVERC	6	1
DSINVER1	6	1
DSIN1ERR	7	20
DSIN1JEC	7	8
DSIN1RSK	7	40
DSIN1TRC	7	80
DSIN1WAR	7	10

Chapter 25. IAZENF58 Information

IAZENF58 Programming Interface Information

The following fields are NOT programming interface information:

- ENF58_DEVICE_JESDATA
- ENF58_EXT_SIZE
- ENF58_EXT_SIZE1
- ENF58_EXT_SIZE2
- ENF58_MAXSIZE
- ENF58_SIZE1
- ENF58_SIZE2
- ENF58_SIZE3
- ENF58_SIZE4
- ENF58_SIZE5

IAZENF58 Heading Information

Common Name: ENF58 Parameter List
Macro ID: IAZENF58
DSECT Name: ENF58
Owning Component: JES Common (SC141)
Eye-Catcher ID: ENF58
Offset: ENF58_ID-ENF58
Length: L'ENF58_ID
Storage Attributes: Subpool: 241
Key: Key 1
Residency: Any
Size: Variable depending on the type of ENF58 being issued. See ENF58_LENGTH for the run-time length of the entire ENF. An ENF58 contains an extension at offset ENF58_EXT_DW_OFF from the start of the ENF. The size of the extension is contained in field ENF58_EXT_LENGTH.
Created by: The Job Entry Subsystem issuing the ENF 58 signal
Pointed to by: The ENFREQ parameter list
Serialization: None required
Function: Maps the ENF 58 parameter list received by ENF listen exits.

IAZENF58 mapping

Table 68. Structure ENF58

Offset	Offset		Len	Name(Dim)	Description
Dec	Hex	Type			
0	(0)	STRUCTURE	0	ENF58	ENF58 mapping
0	(0)	CHARACTER	6	ENF58_ID	Eye catcher 'ENF58 '
6	(6)	BITSTRING	1	ENF58_VERSION	Version of mapping
6	(6)	X'1'	0	ENF58_VONE	"1" Version 1

IAZENF58 mapping

Table 68. Structure ENF58 (continued)

Offset	Offset		Len	Name(Dim)	Description
Dec	Hex	Type			
6	(6)	X'2'	0	ENF58_VTWO	"2" Version 2
6	(6)	X'3'	0	ENF58_VTHREE	"3" Version 3
6	(6)	X'4'	0	ENF58_VFOUR	"4" Version 4
6	(6)	X'5'	0	ENF58_VFIVE	"5" Version 5
6	(6)	X'5'	0	ENF58_CVER	"ENF58_VFIVE" Current version
7	(7)	BITSTRING	1	ENF58_EXT_DW_OFF	Offset to fixed extension (in doublewords) or 0
8	(8)	SIGNED	4	ENF58_LENGTH	Length of parameter list
12	(C)	BITSTRING	1	ENF58_QUALIFIER	Qualifier code - defined below
12	(C)	X'1'	0	ENF58_Q_PURGE	"1" Data Set was purged
12	(C)	X'2'	0	ENF58_Q_SELECT	"2" Data Set was selected
<p>A data set has been "processed" by JES2 if a \$#DISPRO is issued to update the data set disposition. A data set has been "processed" by JES3 if the data set is complete.</p>					
12	(C)	X'3'	0	ENF58_Q_DESELECT_PROCESSED	"3" Data set was processed
12	(C)	X'4'	0	ENF58_Q_DESELECT_NOT_PROCESSED	"4" Data set is no longer selected, disposition was not updated
12	(C)	X'5'	0	ENF58_Q_DESELECT_NOT_PROCESSED_HELD	"5" Data set is no longer selected, disposition was not updated and data set is held
12	(C)	X'6'	0	ENF58_Q_DESELECT_ERROR	"6" An error resulting in a system level hold occurred
12	(C)	X'7'	0	ENF58_Q_EOD_OK	"7" End of data set notification occurred - successful
12	(C)	X'8'	0	ENF58_Q_EOD_ERROR	"8" End of data set notification occurred - unsuccessful
12	(C)	X'9'	0	ENF58_Q_JOB_CHANGE	"9" Job-status change occurred
12	(C)	X'A'	0	ENF58_Q_TOKEN_CHANGE	"10" Client token has changed
12	(C)	X'B'	0	ENF58_Q_CHECKPOINT	"11" Checkpoint taken
12	(C)	X'C'	0	ENF58_Q_UPDATEJOE	"12" JOE1CKV update (JES2 internal use only)
12	(C)	X'D'	0	ENF58_Q_INSTANCE	"13" Additional instance of data set created
12	(C)	X'E'	0	ENF58_Q_GRP_SELECT	"14" Data set group select
12	(C)	X'F'	0	ENF58_Q_GRP_DESELECT	"15" Data set group deselect
----- OA41738					
<p>The following equates (ENF58_Q1) define bits in the OA41738 last byte of the ENF bit map qualifier (ENFPBMQ+31) OA41738</p> <ul style="list-style-type: none"> - Device related has a JES2 device name in OA41738 ENF58_DEVICE_JESDATA OA41738 - Group related has a qualifier of ENF58_Q_GRP or OA41738 ENF58_Q_CHECKPOINT OA41738 					
----- OA41738					
		1... ..		ENF58_Q1_DEVICE	"B'10000000'" ENF is device related OA41738
		.1.. ..		ENF58_Q1_GROUP	"B'01000000'" ENF is group related OA41738
13	(D)	BITSTRING	1	ENF58_SYS_HOLD	System hold reason - refer to IAZOHL for possible values

Table 68. Structure ENF58 (continued)

Offset	Offset		Len	Name(Dim)	Description
Dec	Hex	Type			
14	(E)	CHARACTER	8	ENF58_JES_NAME	JES2 Member Name / JES3 MAIN name where this signal originated
					ENF58_REASON can contain a variety of different information depending on the ENF type being issued.
					ENF 58 type Information in ENF58_REASON
					ENF58_Q_SELECT Device/process name that selected the data set.
					ENF58_Q_DESELECT_PROCESSED Either process name that processed the data set or hex zeros.
					ENF58_Q_DESELECT_NOT_PROCESSED Either process name that deselected the data set or hex zeros.
					ENF58_Q_DESELECT_ERROR If ENF58_SYS_HOLD indicates that a RELDS Unprintable error occurred, RDSMIDSE from the IAZFSIP RELDS parameter list. Otherwise, either process name that kept the data set in system level hold or hex zeros
					ENF58_Q_JOB_CHANGE Status change that occurred for the job (eg. PURGED)
					ENF58_Q_GRP_SELECT Device name that selected the data set group.
22	(16)	CHARACTER	18	ENF58_REASON	Reason text
40	(28)	DBL WORD	8	(0)	Establish alignment
40	(28)	BITSTRING	80	ENF58_CTOKEN	Data Set Client Token
40	(28)	X'78'	0	ENF58_SIZE1	"*-ENF58" Small Version of ENF58 ends here
120	(78)	BITSTRING	80	ENF58_NEW_CTOKEN	New client token that should replace the Ctoken for a TOKEN_CHANGE ENF type, or be added for a INSTANCE request.
120	(78)	X'C8'	0	ENF58_SIZE2	"*-ENF58" ENF58 for TOKEN_CHANGE ends here
120	(78)	SIGNED	4	ENF58_COPY	Checkpointed copy count
124	(7C)	SIGNED	4	ENF58_RECORD	Checkpointed current record
128	(80)	SIGNED	4	ENF58_PAGE	Checkpointed current page
132	(84)	BITSTRING	4		Reserved
136	(88)	DBL WORD	8	(0)	Establish alignment
136	(88)	X'88'	0	ENF58_SIZE3	"*-ENF58" ENF58 for checkpoints ends here
Used only if ENF58_Q_UPDATEJOE					
120	(78)	SIGNED	4	ENF58_JOEINDEX	Offset of work JOE
124	(7C)	BITSTRING	4		Reserved
128	(80)	DBL WORD	8	(0)	Establish alignment
128	(80)	X'80'	0	ENF58_SIZE4	"*-ENF58" ENF58 for JOE Update ends here
Used only if ENF58_Q_GRP_SELECT					
120	(78)	SIGNED	4	ENF58_TOT_PAGE	Total page count
124	(7C)	SIGNED	4	ENF58_TOT_RECORD	Total record count
128	(80)	CHARACTER	8	ENF58_JOB_NAME	Job name of selected job
136	(88)	BITSTRING	8	ENF58_GS_JESDATA	JES-specific data

IAZENF58 mapping

Table 68. Structure ENF58 (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
136	(88)	X'90'		0	ENF58_SIZE5	"*-ENF58" ENF58 for JOE Select ends here
200	(C8)	X'C8'		0	ENF58_MAXSIZE	"*-ENF58" Largest base ENF58 parm 1st

Table 69. Structure ENF58_EXT

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
0	(0)	STRUCTURE		0	ENF58_EXT	ENF58 fixed extension
0	(0)	CHARACTER		6	ENF58_EXT_EYE	Eyecatcher
6	(6)	SIGNED		2	ENF58_EXT_LENGTH	Length of fixed extension
8	(8)	BITSTRING		8	ENF58_JESPLEX_ID	Unique JESPLEX token
16	(10)	CHARACTER		10	ENF58_DEVICE	Related device name if any
26	(1A)	BITSTRING		30	ENF58_DEVICE_JESDATA	JES-related device information
56	(38)	DBL WORD		8	(0)	
56	(38)	X'38'		0	ENF58_EXT_SIZE1	"*-ENF58_EXT" Size of fixed extension version 1
56	(38)	CHARACTER		64	ENF58_JOB_CORR	Job correlator
56	(38)	X'78'		0	ENF58_EXT_SIZE2	"*-ENF58_EXT" Size of fixed extension version 2
120	(78)	DBL WORD		8	(0)	Establish alignment
120	(78)	X'78'		0	ENF58_EXT_SIZE	"*-ENF58_EXT" Size of fixed extension

Table 70. Cross Reference for IAZENF58

Name	Offset	Hex	Tag
ENF58	0		
ENF58_COPY	78		
ENF58_CTOKEN	28		
ENF58_CVER	6		5
ENF58_DEVICE	10		
ENF58_DEVICE_JESDATA	1A		
ENF58_EXT	0		
ENF58_EXT_DW_OFF	7		
ENF58_EXT_EYE	0	C5D5C6F5	
ENF58_EXT_LENGTH	6		
ENF58_EXT_SIZE	78		78
ENF58_EXT_SIZE1	38		38
ENF58_EXT_SIZE2	38		78
ENF58_GS_JESDATA	88		
ENF58_ID	0		
ENF58_JES_NAME	E		
ENF58_JESPLEX_ID	8		
ENF58_JOB_CORR	38		
ENF58_JOB_NAME	80		
ENF58_JOEINDEX	78		
ENF58_LENGTH	8		
ENF58_MAXSIZE	C8		C8

Table 70. Cross Reference for IAZENF58 (continued)

Name	Offset	Hex Tag
ENF58_NEW_CTOKEN	78	
ENF58_PAGE	80	
ENF58_Q_CHECKPOINT	C	B
ENF58_Q_DESELECT_ERROR	C	6
ENF58_Q_DESELECT_NOT_PROCESSED	C	4
ENF58_Q_DESELECT_NOT_PROCESSED_HELD	C	5
ENF58_Q_DESELECT_PROCESSED	C	3
ENF58_Q_EOD_ERROR	C	8
ENF58_Q_EOD_OK	C	7
ENF58_Q_GRP_DESELECT	C	F
ENF58_Q_GRP_SELECT	C	E
ENF58_Q_INSTANCE	C	D
ENF58_Q_JOB_CHANGE	C	9
ENF58_Q_PURGE	C	1
ENF58_Q_SELECT	C	2
ENF58_Q_TOKEN_CHANGE	C	A
ENF58_Q_UPDATEJOE	C	C
ENF58_QUALIFIER	C	
ENF58_Q1_DEVICE	C	80
ENF58_Q1_GROUP	C	40
ENF58_REASON	16	
ENF58_RECORD	7C	
ENF58_SIZE1	28	78
ENF58_SIZE2	78	C8
ENF58_SIZE3	88	88
ENF58_SIZE4	80	80
ENF58_SIZE5	88	90
ENF58_SYS_HOLD	D	
ENF58_TOT_PAGE	78	
ENF58_TOT_RECORD	7C	
ENF58_VERSION	6	
ENF58_VFIVE	6	5
ENF58_VFOUR	6	4
ENF58_VONE	6	1
ENF58_VTHREE	6	3
ENF58_VTWO	6	2

IAZENF58 mapping

Chapter 26. IAZENF70 Information

IAZENF70 Programming Interface Information

IAZENF70 is a programming interface.

IAZENF70 Heading Information

Common Name: ENF70 Parameter List
 Macro ID: IAZENF70
 DSECT Name: ENF70
 Owning Component: JES Common (SC141)
 Eye-Catcher ID: ENF70
 Offset: ENF70_ID-ENF70
 Length: L'ENF70_ID
 Storage Attributes: Subpool: 241
 Key: Key 1
 Residency: Any
 Size: Variable depending on the type of ENF70 being issued. See ENF70_LENGTH for the run-time length.
 Created by: The Job Entry Subsystem issuing the ENF 70 signal
 Pointed to by: The ENFREQ parameter list
 Serialization: None required
 Function: Maps the ENF 70 parameter list received by ENF listen exits.

IAZENF70 mapping

Table 71. Structure ENF70

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ENF70	ENF70 mapping
0	(0)	CHARACTER	6	ENF70_ID	Eye catcher 'ENF70 '
6	(6)	BITSTRING	1	ENF70_VERSION	Version of mapping
6	(6)	X'1'	0	ENF70_VONE	"1" Version 1
6	(6)	X'2'	0	ENF70_VTWO	"2" Version 2
6	(6)	X'2'	0	ENF70_CVER	"ENF70_VTWO" Current version
7	(7)	BITSTRING	1		Reserved
8	(8)	SIGNED	4	ENF70_LENGTH	Total length of ENF70 data
12	(C)	SIGNED	2	ENF70_FIXED_LENGTH	Length of fixed section
14	(E)	BITSTRING	1	ENF70_QUALIFIER	Qualifier code - defined below
14	(E)	X'1'	0	ENF70_SELECT	"1" Job was selected
14	(E)	X'2'	0	ENF70_DESELECT	"2" Job was processed
14	(E)	X'3'	0	ENF70_CHANGE	"3" Job queued to new phase of processing
14	(E)	X'4'	0	ENF70_PURGE	"4" Job was purged

----- 0A41738
 The following equates (ENF70_Q1) define bits in the 0A41738
 last byte of the ENF bit map qualifier (ENFPBMQ+31) 0A41738
 ----- 0A41738

IAZENF70 mapping

Table 71. Structure ENF70 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1... ..		ENF70_Q1_DEVICE	"B'10000000'" ENF is device related 0A41738 ENF70_DTYPE_DEV is set 0A41738
15	(F)	BITSTRING	3		Reserved
18	(12)	CHARACTER	8	ENF70_JES_NAME	JES2 Member Name / JES3 MAIN name where this signal originated
26	(1A)	BITSTRING	8	ENF70_JESPLEX_ID	Unique JESPLEX identifier
34	(22)	CHARACTER	8	ENF70_JOBNAME	Job name
42	(2A)	CHARACTER	8	ENF70_JOBID	Job ID
50	(32)	CHARACTER	8	ENF70_ORG_JOBID	Original Job ID
58	(3A)	CHARACTER	8	ENF70_ORG_NODE	Origin Node
66	(42)	CHARACTER	8	ENF70_JOBCLASS	Job Class
74	(4A)	CHARACTER	8	ENF70_SRVCLASS	Service class
82	(52)	BITSTRING	2		Reserved
84	(54)	SIGNED	4	ENF70_RDR_DATE	Reader on date
88	(58)	SIGNED	4	ENF70_RDR_TIME	Reader on time
92	(5C)	BITSTRING	4	ENF70_MAXCC(0)	Job completion code
92	(5C)	BITSTRING	1	ENF70_COMP	Job completion indicator
		1... ..		ENF70_CAB	"X'80'" ABEND CODE
		.1... ..		ENF70_CCC	"X'40'" Completion code
		..1.		ENF70_CREQ	"X'20'" JOBR completion code set
92	(5C)	X'0'	0	ENF70_CUNK	"0" No completion info
92	(5C)	X'1'	0	ENF70_CNRM	"1" Job ended normally
92	(5C)	X'2'	0	ENF70_CECC	"2" Job ended by cc
92	(5C)	X'3'	0	ENF70_CJCL	"3" Job had a JCL error
92	(5C)	X'4'	0	ENF70_CCAN	"4" Job was canceled
92	(5C)	X'5'	0	ENF70_CABN	"5" Job ABENDEd
92	(5C)	X'6'	0	ENF70_CCAB	"6" Converter ABENDEd
92	(5C)	X'7'	0	ENF70_CSEC	"7" Security error
92	(5C)	X'8'	0	ENF70_CEOM	"8" Job ABENDEd in end of memory processing
92	(5C)	X'9'	0	ENF70_CCNV	"9" Converter error
92	(5C)	X'A'	0	ENF70_CSYS	"10" System failure
92	(5C)	X'B'	0	ENF70_CFLU	"11" Job has been flushed
93	(5D)	BITSTRING	3	ENF70_CODE	Completion code (if applicable), or ABEND codes (system code in first 12 bits, user code in last 12 bits).
96	(60)	BITSTRING	1	ENF70_QUEUE	Current phase job is queued for
JES3 Phases					
96	(60)	X'0'	0	ENF70_Q_NONE	"0" No previous queue (job create)
96	(60)	X'2'	0	ENF70_Q_CONVERT	"2" Conversion
96	(60)	X'3'	0	ENF70_Q_PSCBAT	"3" Postscan (batch)
96	(60)	X'4'	0	ENF70_Q_PSCDSL	"4" Postscan (demand select)
96	(60)	X'5'	0	ENF70_Q_FETCH	"5" Volume fetch
96	(60)	X'6'	0	ENF70_Q_VOLWT	"6" Start Setup
96	(60)	X'7'	0	ENF70_Q_SYSSSEL	"7" MDS system select processing
96	(60)	X'8'	0	ENF70_Q_ALLOC	"8" resource allocation
96	(60)	X'9'	0	ENF70_Q_VOLUAV	"9" unavailable VOL(s)

Table 71. Structure ENF70 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
96	(60)	X'A'	0	ENF70_Q_VERIFY	"10" volume mounts
96	(60)	X'B'	0	ENF70_Q_SYSVR	"11" MDS system verify processing
96	(60)	X'C'	0	ENF70_Q_ERROR	"12" Demand Select
96	(60)	X'D'	0	ENF70_Q_SELECT	"13" Execution
96	(60)	X'E'	0	ENF70_Q_ONMAIN	"14" Execution
96	(60)	X'11'	0	ENF70_Q_BRKDNW	"17" Breakdown
96	(60)	X'12'	0	ENF70_Q_RESTR	"18" MDS restart proc
96	(60)	X'13'	0	ENF70_Q_DONE	"19" Main and MDS proc. complete
96	(60)	X'14'	0	ENF70_Q_OUTPUT	"20" Output service
96	(60)	X'15'	0	ENF70_Q_OUTQUE	"21" Output service WTR
96	(60)	X'16'	0	ENF70_Q_OSWAIT	"22" Awaiting rsvd services
96	(60)	X'17'	0	ENF70_Q_CMPLT	"23" Output service complete
96	(60)	X'18'	0	ENF70_Q_DEMSEL	"24" Demand Select
96	(60)	X'19'	0	ENF70_Q_EFWAIT	"25" Ending function rq waiting or i/o completion
96	(60)	X'1A'	0	ENF70_Q_EFBAD	"26" Ending function rq not Processed
96	(60)	X'80'	0	ENF70_Q_INPUT	"128" Input queue (pre-execution)
96	(60)	X'86'	0	ENF70_Q_PURGE	"134" Purge queue
96	(60)	X'88'	0	ENF70_Q_RECEIVER	"136" Input queue (post-execution)
96	(60)	X'89'	0	ENF70_Q_XMIT	"137" NJE transmission queue
JES2 Phases - phases common to both JES2 and JES3 are listed above and commented below.					
Q_INPUT EQU 128 Input queue (pre-execution)					
Q_RECEIVER EQU 136 Input queue (post-execution)					
Q_CONVERT EQU 2 Conversion queue					
Q_VOLWT EQU 6 Setup queue					
Q_ONMAIN EQU 14 Execution queue					
96	(60)	X'84'	0	ENF70_Q_SPIN	"132" Spin queue
Q_BRKDNW EQU 17 Output queue					
Q_OUTPUT EQU 20 Hardcopy queue					
Q_PURGE EQU 134 Purge queue					
Q_XMIT EQU 137 NJE transmission queue					
97	(61)	BITSTRING	5		Reserved
102	(66)	CHARACTER	16	ENF70_JESDATA	JES-specific data for job
118	(76)	BITSTRING	2		Reserved
118	(76)	X'78'	0	ENF70_SIZE1	"*-ENF70" ENF70 for version one ends here
120	(78)	CHARACTER	64	ENF70_JOB_CORR	Job correlator
120	(78)	X'B8'	0	ENF70_SIZE2	"*-ENF70" ENF70 for Job correlator ends here
184	(B8)	DBL WORD	8	(0)	Establish alignment
184	(B8)	X'B8'	0	ENF70_FIXED_SIZE	"*-ENF70" Size of ENF70 fixed section

Table 72. Structure ENF70_VEXT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ENF70_VEXT	ENF70 variable data extension

IAZENF70 mapping

Table 72. Structure ENF70_VEXT (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
0	(0)	CHARACTER		6	ENF70_VEXT_EYE	Eyecatcher
6	(6)	SIGNED		2	ENF70_VEXT_LENGTH	Length of variable extension
8	(8)	DBL WORD		8	ENF70_REQDATA(0)	Beginning of variable data
8	(8)	X'8'		0	ENF70_VEXT_SIZE0	"*-ENF70_VEXT"
REQUEST=Q_SELECT or Q_DESELECT						
8	(8)	CHARACTER		10	ENF70_DEVICE	Device name
18	(12)	BITSTRING		1	ENF70_DEVICE_TYPE	Device class
18	(12)	X'1'		0	ENF70_DTYPE_DEV	"1" Standard device
18	(12)	X'2'		0	ENF70_DTYPE_JINIT	"2" JES Initiator
18	(12)	X'3'		0	ENF70_DTYPE_WINIT	"3" WLM Initiator
18	(12)	X'4'		0	ENF70_DTYPE_PHASE	"4" Select for current phase
19	(13)	BITSTRING		1	ENF70_DESEL_FLG1	Indicator flags
		1...			ENF70_DESEL_REQUE	"B'10000000'" Job to be requeued for execution
		.1..			ENF70_DESEL_EJSTEP	"B'01000000'" Requeued due to restart step
20	(14)	BITSTRING		4	ENF70_DEV_DATA	JES-specific device data
24	(18)	DBL WORD		8	(0)	
24	(18)	X'18'		0	ENF70_VEXT_SIZE1	"*-ENF70_VEXT"
REQUEST=Q_CHANGE						
8	(8)	BITSTRING		1	ENF70_OLD_QUEUE	Phase job moved from
9	(9)	CHARACTER		8	ENF70_OLD_JCLASS	Previous job class
17	(11)	CHARACTER		8	ENF70_OLD_SCLASS	Previous service class
32	(20)	DBL WORD		8	(0)	
32	(20)	X'20'		0	ENF70_VEXT_SIZE2	"*-ENF70_VEXT"
32	(20)	DBL WORD		8	(0)	
32	(20)	X'20'		0	ENF70_VEXT_MAXSIZE	"*-ENF70_VEXT" Largest size for ENF 70 variable extension

Table 73. Cross Reference for IAZENF70

Name	Offset	Hex Tag
ENF70	0	
ENF70_CAB	5C	80
ENF70_CABN	5C	5
ENF70_CCAB	5C	6
ENF70_CCAN	5C	4
ENF70_CCC	5C	40
ENF70_CCNV	5C	9
ENF70_CECC	5C	2
ENF70_CEOM	5C	8
ENF70_CFLU	5C	B
ENF70_CHANGE	E	3
ENF70_CJCL	5C	3
ENF70_CNRM	5C	1
ENF70_CODE	5D	
ENF70_COMP	5C	
ENF70_CREQ	5C	20
ENF70_CSEC	5C	7

Table 73. Cross Reference for IAZENF70 (continued)

Name	Offset	Hex Tag
ENF70_CSYS	5C	A
ENF70_CUNK	5C	0
ENF70_CVER	6	2
ENF70_DESEL_EJSTEP	13	40
ENF70_DESEL_FLG1	13	
ENF70_DESEL_REQUE	13	80
ENF70_DESELECT	E	2
ENF70_DEV_DATA	14	
ENF70_DEVICE	8	
ENF70_DEVICE_TYPE	12	
ENF70_DTYPE_DEV	12	1
ENF70_DTYPE_JINIT	12	2
ENF70_DTYPE_PHASE	12	4
ENF70_DTYPE_WINIT	12	3
ENF70_FIXED_LENGTH	C	
ENF70_FIXED_SIZE	B8	B8
ENF70_ID	0	
ENF70_JES_NAME	12	
ENF70_JESDATA	66	
ENF70_JESPLEX_ID	1A	
ENF70_JOB_CORR	78	
ENF70_JOBCLASS	42	
ENF70_JOBID	2A	
ENF70_JOBNAME	22	
ENF70_LENGTH	8	
ENF70_MAXCC	5C	
ENF70_OLD_JCLASS	9	
ENF70_OLD_QUEUE	8	
ENF70_OLD_SCLASS	11	
ENF70_ORG_JOBID	32	
ENF70_ORG_NODE	3A	
ENF70_PURGE	E	4
ENF70_Q_ALLOC	60	8
ENF70_Q_BRKDN	60	11
ENF70_Q_CMPLT	60	17
ENF70_Q_CONVERT	60	2
ENF70_Q_DEMSEL	60	18
ENF70_Q_DONE	60	13
ENF70_Q_EFBAD	60	1A
ENF70_Q_EFWAIT	60	19
ENF70_Q_ERROR	60	C
ENF70_Q_FETCH	60	5
ENF70_Q_INPUT	60	80
ENF70_Q_NONE	60	0
ENF70_Q_ONMAIN	60	E
ENF70_Q_OSWAIT	60	16
ENF70_Q_OUTPUT	60	14
ENF70_Q_OUTQUE	60	15
ENF70_Q_PSCBAT	60	3

IAZENF70 mapping

Table 73. Cross Reference for IAZENF70 (continued)

Name	Offset	Hex Tag
ENF70_Q_PSCDSL	60	4
ENF70_Q_PURGE	60	86
ENF70_Q_RECEIVER	60	88
ENF70_Q_RESTRT	60	12
ENF70_Q_SELECT	60	D
ENF70_Q_SPIN	60	84
ENF70_Q_SYSSSEL	60	7
ENF70_Q_SYSVER	60	B
ENF70_Q_VERIFY	60	A
ENF70_Q_VOLUAV	60	9
ENF70_Q_VOLWT	60	6
ENF70_Q_XMIT	60	89
ENF70_QUALIFIER	E	
ENF70_QUEUE	60	
ENF70_Q1_DEVICE	E	80
ENF70_RDR_DATE	54	
ENF70_RDR_TIME	58	
ENF70_REQDATA	8	
ENF70_SELECT	E	1
ENF70_SIZE1	76	78
ENF70_SIZE2	78	B8
ENF70_SRVCLASS	4A	
ENF70_VERSION	6	
ENF70_VEXT	0	
ENF70_VEXT_EYE	0	C5D5C6F7
ENF70_VEXT_LENGTH	6	
ENF70_VEXT_MAXSIZE	20	20
ENF70_VEXT_SIZE0	8	8
ENF70_VEXT_SIZE1	18	18
ENF70_VEXT_SIZE2	20	20
ENF70_VONE	6	1
ENF70_VTWO	6	2

Chapter 27. IAZJBCLD Information

IAZJBCLD Programming Interface Information

IAZJBCLD is a programming interface.

IAZJBCLD Heading Information

Common Name: JES2 Job Class Data Parameter List
Macro ID: IAZJBCLD
DSECT Name: JBCLD
Owning Component: JES Common (SC141)
Eye-Catcher ID: JBCL
Offset: JBCLSSID
Length: L'JBCLSSID
Storage Attributes: Subpool: caller
Key: 1, caller must be in key 1
Residency: Virtual = any
real = any
Size: See JBCLSIZE
Created by: caller of SSI function 'SSOBSSJI' = 71
Pointed to by: SSJIUSER in the SSOB extension
Serialization: None
Function: This macro provides the mapping of the parameter list used by authorized programs to request Job Class Data from the JES2 subsystem.

IAZJBCLD mapping

Table 74. Structure JBCLD

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JBCLD	
0	(0)	CHARACTER	4	JBCLSSID	I.Eye catcher
4	(4)	ADDRESS	2	JBCLLEN	I.Length of JBCLD parameter list
6	(6)	SIGNED	2	JBCLSVRN	I.Parm list version number
6	(6)	X'1'	0	JBCLSVR1	"1" Service version number of IAZJBCLD - original
6	(6)	X'2'	0	JBCLSVR2	"2" Service version number of IAZJBCLD - OW38962
6	(6)	X'3'	0	JBCLSVR3	"3" Service version number of IAZJBCLD - z/OS 1.2
6	(6)	X'4'	0	JBCLSVR4	"4" Service version number of IAZJBCLD - z/OS 1.8
6	(6)	X'4'	0	JBCLSVR#	"4" Service version number of IAZJBCLD - Latest Version JBCLSVRN MUST BE SET TO JBCLSVR#
8	(8)	SIGNED	2	JBCLVERO	O.Subsystem version number
10	(A)	SIGNED	2		Reserved
10	(A)	X'C'	0	JBCLUSER	"*"

IAZJBCLD mapping

Table 74. Structure JBCLD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
JBCLSTRP is an anchor for use by the subsystem that responds to this request. It is expected that the caller will set this to zero the FIRST time an SSOB extension is used and from that point on it will be managed by the subsystem.					
12	(C)	ADDRESS	4	JBCLSTRP	Storage management anchor
16	(10)	BITSTRING	1	JBCLFLAG	IS.Flag byte
		1...		JBCL1JOB	"B'10000000'" Return a particular job class indicated by JBCLJNAM
17	(11)	BITSTRING	1		Reserved for future use
18	(12)	CHARACTER	1	JBCLSMCL	O.STC message class
19	(13)	CHARACTER	1	JBCLTMCL	O.TSU message class
20	(14)	CHARACTER	8	JBCLJNAM	IS.Single job class to be returned
28	(1C)	SIGNED	4	(20)	Reserved for future use
108	(6C)	SIGNED	4	JBCLDPTR	O.Pointer to first job class data buffer
112	(70)	SIGNED	4	JBCLNJC	O.Number of job classes returned
116	(74)	SIGNED	4	(15)	Reserved for future use
116	(74)	X'B0'	0	JBCLSZE1	"*-JBCLD" Fixed parmameter end: version 1
116	(74)	X'B0'	0	JBCLSZE	"*-JBCLD" JBCLD Current version fixed parameter length

Table 75. Structure JBCLSTOR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JBCLSTOR	, Storage management DSECT
0	(0)	CHARACTER	8	JBCLSTID	Full eyecatcher
8	(8)	ADDRESS	2	JBCLSTHL	Length of header area
10	(A)	ADDRESS	2		Reserved for future use
12	(C)	BITSTRING	1	JBCLSTSP	Subpool of area
12	(C)	X'E6'	0	JBCLSTPL	"230" Recommended subpool to use
13	(D)	ADDRESS	3	JBCLSTTL	Total length of area (this includes the header)
16	(10)	ADDRESS	4	JBCLSTNX	Pointer to next area
20	(14)	ADDRESS	4	JBCLSTCP	Pointer to 1st available byte in this area
24	(18)	ADDRESS	4	JBCLSTBG(0)	Start of data area

Table 76. Structure JBCLDHDR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JBCLDHDR	, Job class section header
0	(0)	CHARACTER	4	JBCTEYE	Eye catcher
4	(4)	ADDRESS	2	JBCTOHDR	Offset to first section
6	(6)	BITSTRING	2		Reserved for future use
8	(8)	ADDRESS	4	JBCTNEXT	Address of next CAT
12	(C)	ADDRESS	4		Reserved for future use
16	(10)	ADDRESS	4		Reserved for future use

Table 76. Structure JBCLDHDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
16	(10)	X'14'	0	JBCLDHSZ	"*-JBCLDHDR" Size of header
Section identifiers					
		....		JBCLTCAT	"X'00'" Main JOBCLASS info section
		....	...1	JBCLTMEM	"X'01'" Member/system info section

Table 77. Structure JBCTPREF

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JBCTPREF	, Prefix section
0	(0)	ADDRESS	2	JBCTHDLN	Length of entire jobclass entry (Max value is 65535)
2	(2)	ADDRESS	1	JBCTHPTP	Type of this header
3	(3)	ADDRESS	1	JBCTHMD	Modifier
3	(3)	X'4'	0	JBCTHDSZ	"*-JBCTPREF" Size of prefix section

Table 78. Structure JBCLDCAT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JBCLDCAT	, Job Class Data
0	(0)	ADDRESS	2	JBCTLEN	Length of Job Class section
2	(2)	ADDRESS	1	JBCTTYPE	Type of this header
3	(3)	ADDRESS	1	JBCTMOD	Modifier
4	(4)	BITSTRING	1	JBCJOBFL	Job flags
		1... ..		JBCBATCH	"B'10000000'" Batch job
		.1.. ..		JBCTSUJB	"B'01000000'" Time sharing user
		..1.		JBCSTCJB	"B'00100000'" System task
4	(4)	X'E0'	0	JBCVALJB	"JBCBATCH+JBCTSUJB+JBCSTCJB" valid types
		...1		JBCNOJNL	"B'00010000'" No journal option
		.... 1...		JBCNOUPT	"B'00001000'" No output option
		.... .1..		JBCTSCAN	"B'00000100'" TYPRUN=SCAN was specified
		.... ..1.		JBCTCOPY	"B'00000010'" TYPRUN=COPY was specified
		.... ...1		JBCRSTRT	"B'00000001'" Allow warmstart to re-queue to XEQ
5	(5)	BITSTRING	1	JBCJBOPT	Job options flag
EQU B'11000110' Reserved					
		..1.		JBCTHOLD	"B'00100000'" TYPRUN=HOLD
		...1		JBCNOLOG	"B'00010000'" NO job log option
		.... 1...		JBCXBMI	"B'00001000'" XBM II job
		.... ...1		JBCQHLD	"B'00000001'" Class queue is held
6	(6)	CHARACTER	2	JBCPROC	Procedure library number
8	(8)	BITSTRING	1	JBCSMFLG	SMF flag
EQU B'11011000' Reserved					

IAZJBCLD mapping

Table 78. Structure JBCLDCAT (continued)

Offset	Offset					
Dec	Hex	Type	Len	Name(Dim)	Description	
		..1.		JBCNOUSO	"B'00100000'" Do not take IEFUSO exit	
		.... .1..		JBCNOTY6	"B'00000100'" Do not produce Type 6 SMF record	
		.... ..1.		JBCNOUJP	"B'00000010'" Do not take IEFUJP exit	
		.... ...1		JBCNOT26	"B'00000001'" Do not produce Type 26 SMF record	
9	(9)	CHARACTER	3	JBCPERFM	Default performance group	
12	(C)	SIGNED	4	JBCCPBGN(0)		
12	(C)	BITSTRING	1	JBCCACCT	Accounting info required	
		.... ....		JBCCNONE	"B'00000000'" No info is required	
		.... ...1		JBCCNAME	"B'00000001'" Programmer required	
		.... ..1.		JBCCNUMB	"B'00000010'" Account number required	
12	(C)	X'3'	0	JBCCALL	"JBCCNAME+JBCCNUMB" Pgm and number required	
		.... .1..		JBCCSWAL	"B'00000100'" SWA above 16M line	
13	(D)	CHARACTER	2		Reserved	
15	(F)	CHARACTER	8	JBCCTIME(0)	DFLT job step intl time	
15	(F)	CHARACTER	6	JBCCMNTE	Maximum minutes	
21	(15)	CHARACTER	2	JBCCSECS	Maximum seconds	
23	(17)	CHARACTER	5	JBCCREGN(0)	Default job step region	
23	(17)	CHARACTER	4	JBCCRGN	Numeric specification	
27	(1B)	CHARACTER	1	JBCCRGA	Kilbytes or megabytes spec.	
28	(1C)	CHARACTER	1	JBCCMND	Command disposition	
28	(1C)	X'F0'	0	JBCCEXEC	"C'0'" Pass the command through	
28	(1C)	X'F1'	0	JBCCDSPL	"C'1'" Display and then pass cmd	
28	(1C)	X'F2'	0	JBCCVER	"C'2'" Ask operator disposition	
28	(1C)	X'F3'	0	JBCCIGN	"C'3'" Ignore the command	
29	(1D)	CHARACTER	1	JBCCBLP	Bypass label processing option	
		.... ...1		JBCCBLPY	"B'00000001'" Process bypass label parm	
30	(1E)	CHARACTER	1	JBCCCOG	Operator command group	
		.... .1..		JBCCGSYS	"B'00000100'" Group 1 commands (SYS)	
		.... ..1.		JBCCGIO	"B'00000010'" Group 2 commands (I/O)	
		.... ...1		JBCCGCON	"B'00000001'" Group 3 commands (CONS)	
30	(1E)	X'7'	0	JBCCGALL	"JBCCGSYS+JBCCGIO+JBCCGCON" All groups	
31	(1F)	CHARACTER	3		Reserved command group	
34	(22)	CHARACTER	1	JBCCLJCL	Default MSGLEVEL, JCL listed if not MSGLEVEL	
35	(23)	CHARACTER	1	JBCCTMSG	Allocation termination msgs	
35	(23)	X'C'	0	JBCCONVP	"JBCCPBGN,*-JBCCPBGN" Full converter parameters	
36	(24)	BITSTRING	8		Reserved for potential expansion of IEFNPRM	

Table 78. Structure JBCLDCAT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
44	(2C)	BITSTRING	1	JBCOPSWT	Converter option switches
45	(2D)	BITSTRING	1	JBCFLAG1	Normal OUTDISP for JESDS
		1... ..		JBC1CDP	"B'10000000'" Conditionally purge output for jobs in this class
		...1 ..		JBC1NODP	"B'00010000'" NORMAL OUTDISP=PURGE
		.... 1..		JBC1NODW	"B'00001000'" NORMAL OUTDISP=WRITE
		.... .1..		JBC1NODH	"B'00000100'" NORMAL OUTDISP=HOLD
		.... ..1.		JBC1NODK	"B'00000010'" NORMAL OUTDISP=KEEP
		.... ...1		JBC1NODL	"B'00000001'" NORMAL OUTDISP=LEAVE
46	(2E)	BITSTRING	1	JBCFLAG2	Abnormal OUTDISP for JESDS
		...1 ..		JBC2AODP	"B'00010000'" ABNORMAL OUTDISP=PURGE
		.... 1..		JBC2AODW	"B'00001000'" ABNORMAL OUTDISP=WRITE
		.... .1..		JBC2AODH	"B'00000100'" ABNORMAL OUTDISP=HOLD
		.... ..1.		JBC2AODK	"B'00000010'" ABNORMAL OUTDISP=KEEP
		.... ...1		JBC2AODL	"B'00000001'" ABNORMAL OUTDISP=LEAVE
47	(2F)	BITSTRING	1	JBCFLAG3	Processing flags
		1... ..		JBC3WLM	"B'10000000'" WLM managed class
		.1.. ..		JBC3SPEC	"B'01000000'" Special class (STC/TSU)
		..1.		JBC3PSEU	"B'00100000'" Pseudo-class (Only class name and counts valid)
		.... .1..		JBC3SINV	"B'00000100'" Default SCHENV (CATSCHED) no longer defined
		.... ..1.		JBC3DUOK	"B'00000010'" Duplicate job names OK this job class
48	(30)	CHARACTER	8	JBCXBM	PROCNAME FOR XBM/2 JOB
56	(38)	CHARACTER	8	JBCCLASS	Job class
64	(40)	SIGNED	4	JBCMAXJ	Max executing jobs in this class in the JESplex
68	(44)	SIGNED	4	JBCCURJ	Current executing jobs in this class in the JESplex
72	(48)	SIGNED	4	JBCQSIZE	Jobs eligible for execution (including executing jobs)
76	(4C)	SIGNED	4	JBCHLDCT	Jobs held in class (not including executing jobs)
76	(4C)	X'50'	0	JBCTSIZ1	"*-JBCLDCAT" Version 1 job class length
80	(50)	CHARACTER	16	JBCDSCH	Default SCHENV, JOB classes only
96	(60)	CHARACTER	1	JBCDMCLS	Default msgclass, TSU and STC classes only
96	(60)	X'61'	0	JBCTSIZ2	"*-JBCLDCAT" Version 2 job class length
97	(61)	BITSTRING	6	JBCJLOG	JESLOG control information

IAZJBCLD mapping

Table 78. Structure JBCLDCAT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
97	(61)	BITSTRING	1	JBCJLFLG	Flags
		1... ..		JBJLELIG	"B'10000000'" Spin eligible
		.1.. ..		JBJLTIMI	"B'01000000'" Spin on time interval
		..1.		JBJLTIMD	"B'00100000'" Spin on time of day
		...1		JBJLLINE	"B'00010000'" Spin upon line delta
		.... 1..		JBJLSUP	"B'00001000'" Suppress
		.... .1..		JBJLNOSP	"B'00000100'" No Spin
98	(62)	SIGNED	1	JBJSOURC	Source of JESLOG info
98	(62)	X'0'	0	JBJSEXIT	"0" JESLOG from Exit
98	(62)	X'1'	0	JBJSJCL	"1" JESLOG from JCL
98	(62)	X'2'	0	JBJSCAT	"2" JESLOG from CAT
98	(62)	X'3'	0	JBJSRR	"3" JESLOG from IEFSSRR
99	(63)	SIGNED	4	JBCJLVAL	Spin value
103	(67)	BITSTRING	9	JBCDRESV	Reserved
112	(70)	DBL WORD	8	(0)	
112	(70)	X'70'	0	JBCTSI23	"*-JBCLDCAT" Version 3 job class length
112	(70)	X'70'	0	JBCTSI24	"*-JBCLDCAT" Version 4 job class length
112	(70)	X'70'	0	JBCTSIZE	"*-JBCLDCAT" Job Class data length

Table 79. Structure JBCLMEMD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JBCLMEMD	, Job Class Member data
0	(0)	ADDRESS	2	JBCMLEN	Length of Job Class section
2	(2)	ADDRESS	1	JBCMTYPE	Type of this header
3	(3)	ADDRESS	1	JBCMMOD	Modifier
4	(4)	ADDRESS	2	JBCMFRST	1st member section off
6	(6)	ADDRESS	2	JBCMMCNT	Count of member entries
8	(8)	ADDRESS	2	JBCMMLEN	Length of a member entry
10	(A)	ADDRESS	2		Reserved
12	(C)	SIGNED	4	JBCMIST(0)	
12	(C)	X'C'	0	JBCMSIZE	"*-JBCLMEMD" Fixed section length

Table 80. Structure JBCLMEME

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JBCLMEME	, Job Class Member data
0	(0)	CHARACTER	4	JBCMNAME	JES2 member name
4	(4)	CHARACTER	8	JBCMSYS	MVS system name
12	(C)	BITSTRING	1	JBCMFLG1	Member flags
		1... ..		JBCMIJBA	"B'10000000'" Jobclass active on member
		.1.. ..		JBCMIACT	"B'01000000'" Member is active

Table 80. Structure JBCLMEME (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
		..1.	....		JBCM1PXQ	"B'00100000'" \$PXEQ issued on member
		...1	....		JBCM1PJS	"B'00010000'" Member is draining (\$P)
13	(D)	BITSTRING		3		Reserved
16	(10)	SIGNED		4	JBCMJMAX	Maximum jobs active
20	(14)	SIGNED		4	JBCMJACT	Current jobs active
20	(14)	X'18'		0	JBCMESIZ	"*-JBCLMEME" Member entry length

Table 81. Cross Reference for IAZJBCLD

Name	Offset	Hex	Tag
JBCBATCH	4		80
JBCCACCT	C		
JBCCALL	C		3
JBCCBLP	1D		
JBCCBLPY	1D		1
JBCCDSPL	1C		F1
JBCCEXEC	1C		F0
JBCCGALL	1E		7
JBCCGCON	1E		1
JBCCGIO	1E		2
JBCCGSYS	1E		4
JBCCIGN	1C		F3
JBCCCLASS	38		
JBCCJCL	22		
JBCCMND	1C		
JBCCMNT	F		
JBCCNAME	C		1
JBCCNONE	C		0
JBCCNUMB	C		2
JBCCOCG	1E		
JBCCONVP	23		C
JBCCPBGN	C		
JBCCREGN	17		
JBCCRGA	1B		
JBCCRGN	17		
JBCCSECS	15		
JBCCSWAL	C		4
JBCCTIME	F		
JBCCTMSG	23		
JBCCURJ	44		
JBCCVER	1C		F2
JBCDMCLS	60		
JBCDRESV	67		
JBCDSCH	50		
JBCFLAG1	2D		
JBCFLAG2	2E		
JBCFLAG3	2F		

IAZJBCLD mapping

Table 81. Cross Reference for IAZJBCLD (continued)

Name	Offset	Hex Tag
JBCHLDCT	4C	
JBCJBOPT	5	
JBCJFLG	61	
JBCJLOG	61	
JBCJLVAL	63	
JBCJOBFL	4	
JBCLD	0	
JBCLDCAT	0	
JBCLDHDR	0	
JBCLDHSZ	10	14
JBCLDPTR	6C	
JBCLFLAG	10	
JBCLJNAM	14	
JBCLLEN	4	
JBCLMEMD	0	
JBCLMEME	0	
JBCLNJC	70	
JBCLSMCL	12	
JBCLSSID	0	
JBCLSTBG	18	
JBCLSTCP	14	
JBCLSTHL	8	
JBCLSTID	0	D1C2C3D3
JBCLSTNX	10	
JBCLSTOR	0	
JBCLSTPL	C	E6
JBCLSTRP	C	
JBCLSTSP	C	
JBCLSTTL	D	
JBCLSVR#	6	4
JBCLSVRN	6	
JBCLSVR1	6	1
JBCLSVR2	6	2
JBCLSVR3	6	3
JBCLSVR4	6	4
JBCLSZ	74	B0
JBCLSZ1	74	B0
JBCLTCAT	10	0
JBCLTMCL	13	
JBCLTMEM	10	1
JBCLUSER	A	C
JBCLVERO	8	
JBCL1JOB	10	80
JBCMAXJ	40	
JBCMESIZ	14	18
JBCMFLG1	C	
JBCMFRST	4	
JBCMJACT	14	
JBCMJMAX	10	

Table 81. Cross Reference for IAZJBCLD (continued)

Name	Offset	Hex Tag
JBCMLEN	0	0
JBCMMCNT	6	
JBCMMLN	8	
JBCMMOD	3	
JBCMNAME	0	
JBCMSIZE	C	C
JBCMSYS	4	
JBCMTYPE	2	
JBCM1ACT	C	40
JBCM1JBA	C	80
JBCM1PJS	C	10
JBCM1PXQ	C	20
JBCM1ST	C	
JBCNOJNL	4	10
JBCNOLOG	5	10
JBCNOTY6	8	4
JBCNOT26	8	1
JBCNOUJP	8	2
JBCNOUPT	4	8
JBCNOUSO	8	20
JBCOPSWT	2C	
JBCPERFM	9	
JBCPROCN	6	
JBCQHELD	5	1
JBCQSIZE	48	
JBCRSTRT	4	1
JBCSMFLG	8	
JBCSTCJB	4	20
JBCTCOPY	4	2
JBCTEYE	0	C4C3C1E3
JBCTHDLN	0	
JBCTHDMD	3	
JBCTHDSZ	3	4
JBCTHDTP	2	
JBCTHOLD	5	20
JBCTLEN	0	70
JBCTMOD	3	
JBCTNEXT	8	
JBCTOHDR	4	14
JBCTPREF	0	
JBCTSCAN	4	4
JBCTSIZE	70	70
JBCTSIZ1	4C	50
JBCTSIZ2	60	61
JBCTSIZ3	70	70
JBCTSIZ4	70	70
JBCTSUJB	4	40
JBCTTYPE	2	
JBCVALJB	4	E0

IAZJBCLD mapping

Table 81. Cross Reference for IAZJBCLD (continued)

Name	Offset	Hex Tag
JBCXBM	30	
JBCXBMI	5	8
JBC1CDP	2D	80
JBC1NODH	2D	4
JBC1NODK	2D	2
JBC1NODL	2D	1
JBC1NODP	2D	10
JBC1NODW	2D	8
JBC2AODH	2E	4
JBC2AODK	2E	2
JBC2AODL	2E	1
JBC2AODP	2E	10
JBC2AODW	2E	8
JBC3DUOK	2F	2
JBC3PSEU	2F	20
JBC3SINV	2F	4
JBC3SPEC	2F	40
JBC3WLM	2F	80
JBJLELIG	61	80
JBJLLINE	61	10
JBJLNOSP	61	4
JBJLSUP	61	8
JBJLTIMD	61	20
JBJLTIMI	61	40
JBJSCAT	62	2
JBJSEXIT	62	0
JBJSJCL	62	1
JBJSOURC	62	
JBJSRR	62	3

Chapter 28. IAZJPCLS Information

IAZJPCLS Programming Interface Information

The following fields are NOT programming interface information:

- CLMGENSZ
- CLMHDSZ
- CLM3FSZ
- CLM3MLSZ
- CLSGENSZ
- CLSHDSZ
- CLS2FSZ
- CLS3FSZ
- CLS3TLSZ
- JPCLSTBG
- JPCLSTCP
- JPCLSTHL
- JPCLSTID
- JPCLSTNX
- JPCLSTOR
- JPCLSTPL
- JPCLSTRP
- JPCLSTSP
- JPCLSTTL
- JPCLUSER

IAZJPCLS Heading Information

Common Name: JES Class Information Parameter List for JES Properties SSI 82
Macro ID: IAZJPCLS
DSECT Name: JPCLS
Owning Component: JES Common (SC141)
Eye-Catcher ID: 'JPCLASSD'
Offset: JPCLID
Length: L'JPCLID
Storage Attributes: Subpool: Parameter List = Subpool of Caller
Output Data = Subpool 230
Key: Parameter List = Key of Caller
Output Data = Key 1
Residency: Virtual = 31 bit private storage
Real = 64 bit storage
Size: See JPCLSIZE
Created by: Caller of SSI function 'SSOBSSJP' = 82
Pointed to by: SSJPUSER in the SSOB extension
Serialization: None
Function: This macro provides the mapping of the parameter list used by programs to request Class Data from the JES subsystem.

IAZJPCLS mapping

Table 82. Structure JPCLS

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
0	(0)	STRUCTURE		0	JPCLS	
0	(0)	CHARACTER		8	JPCLID	I.Eye catcher
8	(8)	ADDRESS		2	JPCLLEN	I.Length of JPCLS parameter list
<p>There are two 2 byte versions for this SSOB extension. JPCLVER is the version provided by the caller. They indicate the level of the control block passed to the service. As new input fields are added to the service, the caller provided version indicates what the service is to consider valid.</p> <p>JPCLVER0 is the version information returned from the service. This implies what fields the service actually examined and what data is returned. If the service is at a level higher than the level of the caller, JPCLVER0 may be higher than JPCLVER. In this case, only the fields valid at the JPCLVER level are actually examined or set.</p> <p>The 2 bytes of version information is a 1 byte level number (changed only when a new release adds significant function) and a 1 byte modifier (changed only when function is added via service).</p>						
10	(A)	SIGNED		2	JPCLVER(0)	I.Parm list version/modifier
10	(A)	ADDRESS		1	JPCLVERL	I.Parm list version level
11	(B)	ADDRESS		1	JPCLVERM	I.Parm list version modifier
11	(B)	BITSTRING		0	JPCLV010	"X'0100'" Initial version number of IAZJPCLS
11	(B)	BITSTRING		0	JPCLVER#	"X'0100'" Service version number of IAZJPCLS - Latest Version
11	(B)	X'1'		0	JPCLCVRL	"1" Current version level
11	(B)	X'0'		0	JPCLCVRM	"0" Current version modifier
12	(C)	SIGNED		2	JPCLVERO	O.Subsystem version/modifier
14	(E)	BITSTRING		2		Reserved
16	(10)	SIGNED		4	JPCLUSER(0)	Placeholder. Do not use.
<p>JPCLSTRP is an anchor for use by the subsystem that responds to this request. It is expected that the caller will set this to zero the FIRST time an SSOB extension is used and from that point on it will be managed by the subsystem.</p>						
16	(10)	ADDRESS		4	JPCLSTRP	Storage management anchor. Points to a chain of JPCLSTOR structures.
Begin input-only fields.						
20	(14)	BITSTRING		1	JPCLFLG1	IS.Flag byte
		1... ..			JPCL1CLS	"B'10000000'" Return data for class name (see JPCLCNAM)
		.1.. ..			JPCL1GRP	"B'01000000'" Return data for job class group name (see JPCLGNAM)
21	(15)	BITSTRING		3		Reserved for future use
NOTE: Each filter below is enabled via one of the bit settings above.						

Table 82. Structure JPCLS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
24	(18)	CHARACTER	8	JPCLCNAM	IS*.Class name for filter
32	(20)	CHARACTER	8	JPCLGNAM	IS*.Class group name as a filter
40	(28)	SIGNED	4	(18)	Reserved for future use
Begin output-only fields.					
112	(70)	ADDRESS	4	JPCLDPTR	0.Pointer to first Class (CLSHDR) data buffer. See output data discussion below for layout.
116	(74)	SIGNED	4	JPCLNCLS	0.Number of Class (CLSHDR) data buffers returned.
120	(78)	SIGNED	4	(20)	Reserved for future use
120	(78)	X'C8'	0	JPCLSZE1	"*-JPCLS" Fixed parameter end: Ver 1
120	(78)	X'C8'	0	JPCLSZE	"*-JPCLS" JPCLS Current version fixed parameter length

Table 83. Structure JPCLSTOR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JPCLSTOR	, Storage management DSECT
0	(0)	CHARACTER	8	JPCLSTID	Eyecatcher
8	(8)	ADDRESS	2	JPCLSTHL	Length of header area
10	(A)	ADDRESS	2		Reserved for future use
12	(C)	BITSTRING	1	JPCLSTSP	Subpool of area
12	(C)	X'E6'	0	JPCLSTPL	"230" Recommended subpool to use
13	(D)	ADDRESS	3	JPCLSTTL	Total length of area (this includes the header)
16	(10)	ADDRESS	4	JPCLSTNX	Pointer to next area
20	(14)	ADDRESS	4	JPCLSTCP	Pointer to 1st available byte in this area
24	(18)	ADDRESS	4	JPCLSTBG(0)	Start of data area
24	(18)	X'18'	0	JPCLSTSZ	"(JPCLSTBG-JPCLSTOR)" JPCLSTOR length

Table 84. Structure CLSHDR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CLSHDR	, Class Header
0	(0)	CHARACTER	8	CLSID	Eye catcher
8	(8)	ADDRESS	2	CLSOPRF	Offset to prefix section
10	(A)	BITSTRING	2		Reserved for future use
12	(C)	ADDRESS	4	CLSNXTP	Address of next Class
16	(10)	ADDRESS	4	CLSFIRSTM	Address of first member
16	(10)	X'14'	0	CLSHDSZ	"*-CLSHDR" Size of this section (internal use only)
Class Section Identifiers					
		....	....	CLSIDPRF	"X'00'" Class Info - Prefix
		....	...1	CLSIDGEN	"X'01'" Class Info - General
		....	..1.	CLSIDJS2	"X'02'" Class Info - JES2

IAZJPCLS mapping

Table 84. Structure CLSHDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
11		CLSIDJS3	"X'03'" Class Info - JES3
Class Section Modifiers					
		CLSIMGEN	"X'00'" Modifier - General

Table 85. Structure CLSPREF

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CLSPREF	, Class Prefix
0	(0)	ADDRESS	2	CLSPRLN	Length of entire Class entry (Max value is 65535) returned - other than hdr
2	(2)	ADDRESS	1	CLSPRTP	Type = Prefix Section
3	(3)	ADDRESS	1	CLSPRMD	Type Mod = General
3	(3)	X'4'	0	CLSPRSZ	"*-CLSPREF" Size of this section (internal use only)

Table 86. Structure CLSGENI

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CLSGENI	, Class General Information
0	(0)	ADDRESS	2	CLSGLN	Length of this section
2	(2)	ADDRESS	1	CLSGTY	Type = General Info
3	(3)	ADDRESS	1	CLSGMD	Type Mod = General
4	(4)	CHARACTER	8	CLSGNAME	Class Name
12	(C)	BITSTRING	1	CLSGFLG1	Class Flag 1
	1...	....		CLSGIWLM	"B'10000000'" Class is in WLM mode
	.1..	....		CLSGINAC	"B'01000000'" JOB class is not enabled for new work (jobs trying to use this class will fail input processing)
	...1	....		CLSGIJRN	"B'00010000'" No journal option
	....	1...		CLSGISYM	"B'00001000'" System symbols substitution in batch jobs is supported
13	(D)	BITSTRING	1	CLSGREST	Restart Options
	....	1...		CLSGRCAN	"B'00001000'" Print output, then cancel the job (JES3 only)
	....	.1..		CLSGRHLD	"B'00000100'" Hold the job (JES3 only)
	....	..1.		CLSGRPRT	"B'00000010'" Print output, then hold the job (JES3 only)
	....	...1		CLSGRSTR	"B'00000001'" Allow warmstart to re-queue to Execution Phase
14	(E)	BITSTRING	1		Reserved
15	(F)	BITSTRING	1	CLSGJFLG	JESLOG default settings
	1...	....		CLSGELIG	"B'10000000'" Spin eligible
	.1..	....		CLSGTIMI	"B'01000000'" Spin on time interval
	..1.	....		CLSGTIMD	"B'00100000'" Spin on time of day

Table 86. Structure CLSGENI (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		CLSGLINE	"B'00010000'" Spin upon line delta
		.... 1...		CLSGSUP	"B'00001000'" Suppress
		.... ....		CLSGNOSP	"B'00000000'" No spin
16	(10)	SIGNED	4	CLSGJVAL	Spin value. Number of seconds if CLSGTIMI. Number of seconds past midnight if CLSGTIMD. Number of lines if CLSGLINE.
NOTE: The following four values (CLSGMAXJ, CLSGCURJ, CLSGQSIZ, and CLSGHELD) are JESplex-wide counts.					
20	(14)	SIGNED	4	CLSGMAXJ	Max number of concurrently executing jobs of this class (TDEPTH for JES3 if specified)
24	(18)	SIGNED	4	CLSGCURJ	Current number of concurrently executing jobs of this class
28	(1C)	SIGNED	4	CLSGQSIZ	Number of jobs of this class eligible for execution (awaiting job selection) (JES2 only)
32	(20)	SIGNED	4	CLSGHELD	Number of jobs of this class that are held (JES2 only)
36	(24)	CHARACTER	8	CLSGGRP	Job class group name
36	(24)	X'2C'	0	CLSGSENSZ	"*-CLSGENI" Size of this section (internal use only)

Table 87. Structure CLSJES2I

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CLSJES2I	, JES2-specific Class Info
0	(0)	ADDRESS	2	CLS2LN	Length of this section
2	(2)	ADDRESS	1	CLS2TY	Type = JES2 Info
3	(3)	ADDRESS	1	CLS2MD	Type Mod = General
4	(4)	BITSTRING	1	CLS2JBFL	Job class flag
		1...		CLS2BCH	"B'10000000'" Batch job
		.1..		CLS2TSU	"B'01000000'" Time sharing user
		..1.		CLS2STC	"B'00100000'" Started task
		.... 1...		CLS2NOUT	"B'00001000'" No output option
5	(5)	BITSTRING	1	CLS2TYPR	TYPRUN setting
		..1.		CLS2HOLD	"B'00100000'" TYPRUN = HOLD
		.... .1..		CLS2SCAN	"B'00000100'" TYPRUN = SCAN
		.... ..1.		CLS2COPY	"B'00000010'" TYPRUN = COPY
6	(6)	BITSTRING	1	CLS2CACT	Accounting information
		.... .1..		CLS2CSWA	"B'00000100'" SWA above 16M line
		.... ..1.		CLS2CNUM	"B'00000010'" Account number required
		.... ...1		CLS2CNAM	"B'00000001'" Programmer name required
		.... ....		CLS2CNON	"B'00000000'" No information required
6	(6)	X'3'	0	CLS2CALL	"CLS2CNUM+CLS2CNAM" Account number and programmer name required

IAZJPCLS mapping

Table 87. Structure CLSJES2I (continued)

Offset	Offset					
Dec	Hex	Type	Len	Name(Dim)	Description	
7	(7)	CHARACTER	8	CLS2CTIM(0)	Default for job time limit	
7	(7)	CHARACTER	6	CLS2CMNT	Maximum minutes	
13	(D)	CHARACTER	2	CLS2CSEC	Maximum seconds	
15	(F)	CHARACTER	5	CLS2CREG(0)	Default for job step region	
15	(F)	CHARACTER	4	CLS2CRGN	Numeric specification	
19	(13)	CHARACTER	1	CLS2CRGA	Kilobyte or megabyte specification	
19	(13)	X'D2'	0	CLS2CRKB	"C'K'" Kilobyte specification	
19	(13)	X'D4'	0	CLS2CRMB	"C'M'" Megabyte specification	
20	(14)	CHARACTER	1	CLS2CMND	Command disposition	
20	(14)	X'F0'	0	CLS2CEXE	"C'0'" Pass the command through	
20	(14)	X'F1'	0	CLS2CDSP	"C'1'" Display and then pass cmd	
20	(14)	X'F2'	0	CLS2CVER	"C'2'" Ask operator disposition	
20	(14)	X'F3'	0	CLS2CIGN	"C'3'" Ignore the command	
21	(15)	CHARACTER	1	CLS2CBLP	Bypass label processing	
		.... ...1		CLS2CBLY	"B'00000001'" Process bypass label parm	
22	(16)	CHARACTER	1	CLS2COCG	Operator command group	
		.... .1..		CLS2CGSY	"B'00000100'" Group 1 commands (SYS)	
		.... ..1.		CLS2CGIO	"B'00000010'" Group 2 commands (I/O)	
		.... ...1		CLS2CGCO	"B'00000001'" Group 3 commands (CONS)	
22	(16)	X'7'	0	CLS2CGAL	"CLS2CGSY+CLS2CGIO+CLS2CGCO" All groups	
23	(17)	CHARACTER	1	CLS2CJCL	Default MSGLEVEL, JCL listed if not MSGLEVEL	
24	(18)	CHARACTER	1	CLS2CMSG	Allocation termination messages value of MSGLEVEL	
25	(19)	BITSTRING	1	CLS2JOPT	Job options flag	
		...1		CLS2NLOG	"B'00010000'" No joblog indicator	
		.... 1...		CLS2XBMI	"B'00001000'" XBM II job class	
		.... ...1		CLS2QHLD	"B'00000001'" Class queue is held	
26	(1A)	CHARACTER	8	CLS2XBM	Procedure name for XBM II jobs	
34	(22)	CHARACTER	2	CLS2PRCN	Procedure library number	
36	(24)	BITSTRING	1	CLS2SMF	SMF flags	
		..1.		CLS2NUSO	"B'00100000'" Do not take IEFUSO exit	
		.... .1..		CLS2NTY6	"B'00000100'" Do not produce Type 6 SMF record	
		.... ..1.		CLS2NUJP	"B'00000010'" Do not take IEFUJP exit	
		.... ...1		CLS2NT26	"B'00000001'" Do not produce Type 26 SMF record	
37	(25)	CHARACTER	3	CLS2PERF	Default performance group	
40	(28)	CHARACTER	1	CLS2DMCL	Default msgclass, TSU and STC classes only	
41	(29)	BITSTRING	1	CLS2FLG1	Normal output disposition for JES data sets	

Table 87. Structure CLSJES2I (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		CLS21CDP	"B'10000000'" Conditionally purge output for jobs in this class
		...1		CLS21NOP	"B'00010000'" NORMAL OUTDISP=PURGE
		.... 1...		CLS21NOW	"B'00001000'" NORMAL OUTDISP=WRITE
		.... .1..		CLS21NOH	"B'00000100'" NORMAL OUTDISP=HOLD
		.... ..1.		CLS21NOK	"B'00000010'" NORMAL OUTDISP=KEEP
		.... ...1		CLS21NOL	"B'00000001'" NORMAL OUTDISP=LEAVE
42	(2A)	BITSTRING	1	CLS2FLG2	Abnormal output disposition for JES data sets
		...1		CLS22AOP	"B'00010000'" ABNORMAL OUTDISP=PURGE
		.... 1...		CLS22AOW	"B'00001000'" ABNORMAL OUTDISP=WRITE
		.... .1..		CLS22AOH	"B'00000100'" ABNORMAL OUTDISP=HOLD
		.... ..1.		CLS22AOK	"B'00000010'" ABNORMAL OUTDISP=KEEP
		.... ...1		CLS22AOL	"B'00000001'" ABNORMAL OUTDISP=LEAVE
43	(2B)	BITSTRING	1	CLS2FLG3	Processing flags
		.1..		CLS23SPC	"B'01000000'" Special class (STC/TSU)
		.... .1..		CLS23SNV	"B'00000100'" Default SCHENV (CLS2SCHE) no longer defined to WLM
		.... ..1.		CLS23DOK	"B'00000010'" Duplicate job names OK for this job class
		.... ...1		CLS23LSR	"B'00000001'" JOBRC=LASTRC specified for this job class
44	(2C)	CHARACTER	16	CLS2SCHE	Default SCHENV
60	(3C)	BITSTRING	1	CLS2CFL1	Converter parm byte
		1...		CLS21NQU	"B'10000000'" - Automatically downgrade SYSDSN ENQs to SHR control when no longer needed EXCLUSIVE (DSENQSHR=AUTO)
		.1..		CLS21NQA	"B'01000000'" - Allow jobs to downgrade SYSDSN ENQs to SHR control when no longer needed EXCL when requested via JCL DSENQSHR keyword on JOB stmt (DSENQSHR=ALLOW) - Both bits off indicates that SYSDSN ENQ SHR function is disabled (DSENQSHR=DISALLOW)
		..1.		CLS21SYM	"B'00100000'" - System symbols substitution in batch jobs is supported (SYMSYS=ALLOW) Deprecated, use CLSG1SYM
61	(3D)	BITSTRING	1	CLS2PRRT	STARTBY promotion rate

IAZJPCLS mapping

Table 87. Structure CLSJES2I (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
61	(3D)	X'3E'	0	CLS2FSZ	"*-CLSJES2I" Size of this section (internal use only)

Table 88. Structure CLSJES3I

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CLSJES3I	, JES3-specific Class Info
0	(0)	ADDRESS	2	CLS3LN	Length of this section - includes variable length TLIMIT information
2	(2)	ADDRESS	1	CLS3TY	Type = JES3 Info
3	(3)	ADDRESS	1	CLS3MD	Type Mod = General
4	(4)	CHARACTER	8	CLS3GRP	Job class group name (same as CLSGGRP)
12	(C)	CHARACTER	8	CLS3PART	Spool partition name
20	(14)	SIGNED	2	CLS3TRK1	Primary track group allocation
22	(16)	SIGNED	2	CLS3TRK2	Secondary track group allocation
24	(18)	BITSTRING	1	CLS3SDEP	SDEPTH setting
25	(19)	BITSTRING	1	CLS3PTY	JES3 priority
26	(1A)	BITSTRING	1	CLS3FLG1	Flag byte
		...1		CLS31DEF	"B'00010000'" ON -> Default class
27	(1B)	BITSTRING	1	CLS3JOPT	Job option
		1...		CLS3NLOG	"B'10000000'" Suppress JESMSG
		.1..		CLS3LOG	"B'01000000'" Log JESMSG
28	(1C)	ADDRESS	2	CLS3TLOF	Offset to 1st TLIMIT entry
30	(1E)	ADDRESS	2	CLS3TLCT	TLIMIT entry count
32	(20)	ADDRESS	2	CLS3TLSI	Size of a TLIMIT entry
34	(22)	BITSTRING	2		Reserved for future use
34	(22)	X'24'	0	CLS3FSZ	"*-CLSJES3I" Fixed section length (internal use only)

Table 89. Structure CLS3TLIM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CLS3TLIM	, TLIMIT entry
0	(0)	CHARACTER	8	CLS3TCLS	Controlling class name
8	(8)	SIGNED	4	CLS3TMAX	Maximum jobs in controlling class
12	(C)	SIGNED	4	CLS3TCUR	Current jobs in controlling class
12	(C)	X'10'	0	CLS3TLSZ	"*-CLS3TLIM" TLIMIT entry length (internal use only)

Table 90. Structure CLMHDR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CLMHDR	, Member Header
0	(0)	CHARACTER	8	CLMID	Eyecatcher
8	(8)	ADDRESS	2	CLMOPRF	Offset to member prefix section.

Table 90. Structure CLMHDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
10	(A)	BITSTRING	2		Reserved for future use
12	(C)	ADDRESS	4	CLMNXTM	Next member header address
12	(C)	X'10'	0	CLMHDSZ	"*-CLMHDR" Size of this section (internal use only)
Member Section Identifiers					
		1...		CLMIDPRF	"X'80'" Member Info - Prefix
		1... ...1		CLMIDGEN	"X'81'" Member Info - General
		1... ..1.		CLMIDJS2	"X'82'" Member Info - JES2
		1... ..11		CLMIDJS3	"X'83'" Member Info - JES3
Member Section Modifiers					
		1...		CLMIMGEN	"X'80'" Modifier - General
		1... ..1.		CLMIMJ2A	"X'82'" Modifier - JES2
		1... ..11		CLMIMJ3A	"X'83'" Modifier - JES3

Table 91. Structure CLMPREF

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CLMPREF	, Member Prefix
0	(0)	ADDRESS	2	CLMPRLN	Length of entire Member entry (Max value is 65535)
2	(2)	ADDRESS	1	CLMPRTP	Type = Prefix Section
3	(3)	ADDRESS	1	CLMPRMD	Type Mod = General
3	(3)	X'4'	0	CLMPRSZ	"*-CLMPREF" Size of this section (internal use only)

Table 92. Structure CLMGENI

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CLMGENI	, Member General Information
0	(0)	ADDRESS	2	CLMGLN	Length of this section
2	(2)	ADDRESS	1	CLMGTY	Type = General Info
3	(3)	ADDRESS	1	CLMGMD	Type Mod = General
4	(4)	CHARACTER	8	CLMGMNAM	Member name
12	(C)	CHARACTER	8	CLMGSNAM	MVS System name
20	(14)	BITSTRING	1	CLMGFLG1	Flag byte
		1...		CLMG1ENB	"B'10000000'" Class is enabled / active on member
		.1..		CLMG1ACT	"B'01000000'" Member is active
		..1.		CLMG1PXQ	"B'00100000'" Class is on halted member, \$PXEQ issued (JES2 only)
		...1		CLMG1DRN	"B'00010000'" Class is on draining member (JES2 only)
		.... 1...		CLMG1DEF	"B'00001000'" Class is defined on member (JES3 only)
21	(15)	BITSTRING	3		Reserved for future use
24	(18)	SIGNED	4	CLMGJMAX	Maximum job count for this class on member (MDEPTH for JES3 if specified)

IAZJPCLS mapping

Table 92. Structure CLMGENI (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
28	(1C)	SIGNED	4	CLMGJCUR	Current active job count for this class on member
28	(1C)	X'20'	0	CLMGENSZ	"*-CLMGENI" Size of this section (internal use only)

Table 93. Structure CLMJES3I

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CLMJES3I	, Member JES3 specific information
0	(0)	ADDRESS	2	CLM3LN	Length of this section (variable length)
2	(2)	ADDRESS	1	CLM3TY	Type = JES3 Info
3	(3)	ADDRESS	1	CLM3MD	Type Mod = General
4	(4)	CHARACTER	8	CLM3SELM	Selection mode name
12	(C)	ADDRESS	2	CLM3MLOF	Offset to 1st MLIMIT entry
14	(E)	ADDRESS	2	CLM3MLCT	MLIMIT entry count
16	(10)	ADDRESS	2	CLM3MLSI	Size of a MLIMIT entry
18	(12)	BITSTRING	2		Reserved for future use
18	(12)	X'14'	0	CLM3FSZ	"*-CLMJES3I" Section fixed length (internal use only)

Table 94. Structure CLM3MLIM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CLM3MLIM	, MLIMIT entry
0	(0)	CHARACTER	8	CLM3MCLS	Controlling class name
8	(8)	SIGNED	4	CLM3MMAX	Maximum jobs in controlling class
12	(C)	SIGNED	4	CLM3MCUR	Current jobs in controlling class
12	(C)	X'10'	0	CLM3MLSZ	"*-CLM3MLIM" MLIMIT entry length (internal use only)

Table 95. Cross Reference for IAZJPCLS

Name	Offset	Hex	Tag
CLMGENI	0		
CLMGENSZ	1C		20
CLMGFLG1	14		
CLMGJCUR	1C		
CLMGJMAX	18		
CLMGLN	0		20
CLMGMD	3		
CLMGMNAM	4		
CLMGSNAM	C		
CLMGTY	2		
CLMG1ACT	14		40
CLMG1DEF	14		8
CLMG1DRN	14		10

Table 95. Cross Reference for IAZJPCLS (continued)

Name	Offset	Hex Tag
CLMG1ENB	14	80
CLMG1PXQ	14	20
CLMHDR	0	
CLMHDSZ	C	10
CLMID	0	C3D3C1E2
CLMIDGEN	C	81
CLMIDJS2	C	82
CLMIDJS3	C	83
CLMIDPRF	C	80
CLMIMGEN	C	80
CLMIMJ2A	C	82
CLMIMJ3A	C	83
CLMJES3I	0	
CLMNXTM	C	
CLMOPRF	8	10
CLMPREF	0	
CLMPRLN	0	
CLMPRMD	3	
CLMPRSZ	3	4
CLMPRTP	2	
CLM3FSZ	12	14
CLM3LN	0	0
CLM3MCLS	0	
CLM3MCUR	C	
CLM3MD	3	
CLM3MLCT	E	
CLM3MLIM	0	
CLM3MLOF	C	
CLM3MLSI	10	
CLM3MLSZ	C	10
CLM3MMAX	8	
CLM3SELM	4	
CLM3TY	2	
CLSFRSTM	10	
CLSGCURJ	18	
CLSGELIG	F	80
CLSGENI	0	
CLSGENSZ	24	2C
CLSGFLG1	C	
CLSGGRP	24	
CLSGHELD	20	
CLSGJFLG	F	
CLSGJVAL	10	
CLSGLINE	F	10
CLSGLN	0	2C
CLSGMAXJ	14	
CLSGMD	3	
CLSGNAME	4	
CLSGNOSP	F	0

IAZJPCLS mapping

Table 95. Cross Reference for IAZJPCLS (continued)

Name	Offset	Hex Tag
CLSGQSIZ	1C	
CLSGRCAN	D	8
CLSGREST	D	
CLSGRHLD	D	4
CLSGRPRT	D	2
CLSGRSTR	D	1
CLSGSUP	F	8
CLSGTIMD	F	20
CLSGTIMI	F	40
CLSGTY	2	
CLSG1JRN	C	10
CLSG1NAC	C	40
CLSG1SYM	C	8
CLSG1WLM	C	80
CLSHDR	0	
CLSHDSZ	10	14
CLSID	0	C3D3C1E2
CLSIDGEN	10	1
CLSIDJS2	10	2
CLSIDJS3	10	3
CLSIDPRF	10	0
CLSIMGEN	10	0
CLSJES2I	0	
CLSJES3I	0	
CLSNXTP	C	
CLSOPRF	8	14
CLSPREF	0	
CLSPRLN	0	
CLSPRMD	3	
CLSPRSZ	3	4
CLSPRTP	2	
CLS2BCH	4	80
CLS2CACT	6	
CLS2CALL	6	3
CLS2CBLP	15	
CLS2CBLY	15	1
CLS2CDSP	14	F1
CLS2CEXE	14	F0
CLS2CFL1	3C	
CLS2CGAL	16	7
CLS2CGC0	16	1
CLS2CGI0	16	2
CLS2CGSY	16	4
CLS2CIGN	14	F3
CLS2CJCL	17	
CLS2CMND	14	
CLS2CMNT	7	
CLS2CMMSG	18	
CLS2CNAM	6	1

Table 95. Cross Reference for IAZJPCLS (continued)

Name	Offset	Hex Tag
CLS2CNON	6	0
CLS2CNUM	6	2
CLS2COCG	16	
CLS2COPY	5	2
CLS2CREG	F	
CLS2CRGA	13	
CLS2CRGN	F	
CLS2CRKB	13	D2
CLS2CRMB	13	D4
CLS2CSEC	D	
CLS2CSWA	6	4
CLS2CTIM	7	
CLS2CVER	14	F2
CLS2DMCL	28	
CLS2FLG1	29	
CLS2FLG2	2A	
CLS2FLG3	2B	
CLS2FSZ	3D	3E
CLS2HOLD	5	20
CLS2JBFL	4	
CLS2JOPT	19	
CLS2LN	0	3E
CLS2MD	3	
CLS2NLOG	19	10
CLS2NOUT	4	8
CLS2NTY6	24	4
CLS2NT26	24	1
CLS2NUJP	24	2
CLS2NUS0	24	20
CLS2PERF	25	
CLS2PRCN	22	
CLS2PRRT	3D	
CLS2QHLD	19	1
CLS2SCAN	5	4
CLS2SCHE	2C	
CLS2SMF	24	
CLS2STC	4	20
CLS2TSU	4	40
CLS2TY	2	
CLS2TYPR	5	
CLS2XBM	1A	
CLS2XBMI	19	8
CLS21CDP	29	80
CLS21NOH	29	4
CLS21NOK	29	2
CLS21NOL	29	1
CLS21NOP	29	10
CLS21NOW	29	8
CLS21NQA	3C	40

IAZJPCLS mapping

Table 95. Cross Reference for IAZJPCLS (continued)

Name	Offset	Hex Tag
CLS21NQU	3C	80
CLS21SYM	3C	20
CLS22AOH	2A	4
CLS22AOK	2A	2
CLS22AOL	2A	1
CLS22AOP	2A	10
CLS22AOW	2A	8
CLS23DOK	2B	2
CLS23LSR	2B	1
CLS23SNV	2B	4
CLS23SPC	2B	40
CLS3FLG1	1A	
CLS3FSZ	22	24
CLS3GRP	4	
CLS3JOPT	1B	
CLS3LN	0	0
CLS3LOG	1B	40
CLS3MD	3	
CLS3NLOG	1B	80
CLS3PART	C	
CLS3PTY	19	
CLS3SDEP	18	
CLS3TCLS	0	
CLS3TCUR	C	
CLS3TLCT	1E	
CLS3TLIM	0	
CLS3TLOF	1C	
CLS3TLSI	20	
CLS3TLSZ	C	10
CLS3TMAX	8	
CLS3TRK1	14	
CLS3TRK2	16	
CLS3TY	2	
CLS31DEF	1A	10
JPCLCNAM	18	
JPCLCVRL	B	1
JPCLCVRM	B	0
JPCLDPTR	70	
JPCLFLG1	14	
JPCLGNAM	20	
JPCLID	0	D1D7C3D3
JPCLLEN	8	
JPCLNCLS	74	
JPCLS	0	
JPCLSTBG	18	
JPCLSTCP	14	
JPCLSTHL	8	
JPCLSTID	0	D1D7C3D3
JPCLSTNX	10	

Table 95. Cross Reference for IAZJPCLS (continued)

Name	Offset	Hex Tag
JPCLSTOR	0	
JPCLSTPL	C	E6
JPCLSTRP	10	
JPCLSTSP	C	
JPCLSTSZ	18	18
JPCLSTTL	D	
JPCLSZE	78	C8
JPCLSZE1	78	C8
JPCLUSER	10	
JPCLVER	A	
JPCLVER#	B	100
JPCLVERL	A	
JPCLVERM	B	
JPCLVERO	C	0
JPCLV010	B	100
JPCL1CLS	14	80
JPCL1GRP	14	40

IAZJPCLS mapping

Chapter 29. IAZJPITD Information

IAZJPITD Programming Interface Information

The following fields are NOT programming interface information:

- ITGGSIZE
- ITGHDHSZ
- ITIGSIZE
- ITIHSIZE
- ITORSTBG
- ITORSTCP
- ITORSTHL
- ITORSTID
- ITORSTNX
- ITORSTOR
- ITORSTPL
- ITORSTSP
- ITORSTTL
- ITSMSIZE
- IT2CSIZE
- IT2ISIZE
- IT2JSIZE
- IT3CSIZE
- IT3GSIZE
- IT3HSIZE
- IT3JSIZE
- IT3SSIZE
- JPITSTRP
- JPITSZE

IAZJPITD Heading Information

Common Name: Parameters and data structures returned by Initiator Data SSI (subfunction of SSI 82)
Macro ID: IAZJPITD
DSECT Name: See below for DSECT names of individual data structures
Owning Component: JES Common (SC141)
Eye-Catcher ID: SSI parameter list - 'JPINITDT'
See other DSECTs for the eye-catchers they use.
Offset: JPITSSID
Length: L'JPITSSID
Storage Attributes: Subpool: parameter list - determined by caller
output data - subpool 230
Key: parameter list - determined by caller
output data - key 1
Residency: Virtual = 31 bit private storage
real = 64 bit storage

IAZJPITD Heading Information

Size: See below for sizes of individual DSECTS
 Created by: Parameter list - by SSI caller
 Output data - by SSI 82
 Pointed to by: SSJPUUSER in the SSOB extension for SSI 82
 (see IAZSSJP macro)
 Serialization: None
 Function: This macro provides the mapping of the data structures
 used by Initiator Data SSI (subfunction of SSI 82):
 - SSI parameter list
 - SSI output data
 - storage areas managed by the SSI

IAZJPITD mapping

Table 96. Structure JPITD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JPITD	
0	(0)	CHARACTER	8	JPITSSID	I.Eye catcher
8	(8)	ADDRESS	2	JPITLEN	I.Length of JPITD parameter list
10	(A)	BITSTRING	2	JPITSVER(0)	I.Parm list version/modifier
10	(A)	ADDRESS	1	JPITSVRL	I.Parm list version level
11	(B)	ADDRESS	1	JPITSVRM	I.Parm list version modifier
11	(B)	BITSTRING	0	JPITSVR1	"X'0100'" Service version number of IAZJPITD - original
11	(B)	BITSTRING	0	JPITSVR2	"X'0200'" Service version number introduced by z/OS 1.12
		.... ..1.		JPITCVRL	"X'02'" Service version level of IAZJPITD - Latest Ver
		.... ....		JPITCVRM	"X'00'" Service version modifier of IAZJPITD - Latest Ver
11	(B)	BITSTRING	0	JPITSVR#	"X'0200'" Current version/modifier SET JPITSVER TO JPITSVR#
12	(C)	SIGNED	2	JPITVERO	O.Subsystem version/modifier
12	(C)	BITSTRING	0	JPITOVR1	"X'0100'" Output version number original
12	(C)	BITSTRING	0	JPITOVR2	"X'0200'" Output version number introduced by z/OS 1.12
12	(C)	BITSTRING	0	JPITOVR#	"X'0200'" Latest version number
14	(E)	SIGNED	2		Reserved
16	(10)	SIGNED	2	JPITUSER(0)	
<p>JPITSTRP is an anchor for use by the subsystem that responds to this request. It is expected that the caller will set this to zero the FIRST time an SSOB extension is used and from that point on it will be managed by the subsystem.</p>					
16	(10)	ADDRESS	4	JPITSTRP	Storage management anchor
20	(14)	BITSTRING	1	JPITFLG1	IS.Selection flag byte:
		1...		JPIT1GRP	"B'10000000'" Return Initiator Groups indicated by JPITGNAM filter

Table 96. Structure JPITD (continued)

Offset Dec	Offset Hex Type	Len Name(Dim)	Description
			The next 2 bits are used together to determine system/member name filtering. If neither JPIT1NAS nor JPIT1NAM are specified, SSI will only return data from the system where SSI was called. To request information from other systems (or members) in a JESplex, specify system or member selection filter.
	.1..	JPIT1NAS	"B'01000000'" Return Initiator information from MVS system name indicated by JPIT1SNAM
	..1.	JPIT1NAM	"B'00100000'" Return Initiator information from JES member name indicated by JPIT1MNAM
			The next 2 bits are used together to determine class filtering. The first bit, JPIT1CLS, set to ON indicates that class filtering is requested. If class filtering is requested then the second bit JPIT1CLW has meaning. If JPIT1CLW is OFF, the caller is requesting jobclass filtering. If JPIT1CLW is ON, the caller is requesting service class filtering. JES2 Usage ===== Jobclass filtering for JES2 Initiators returns any JES2 Initiators that have the 1 character jobclass specified in field JPIT1SCLS in their list of supported job classes. Jobclass filtering is not valid if WLM group filtering is requested. If JPIT1CLW is on, the caller is requesting service class filtering. Service class filtering for WLM initiators would return any WLM initiators that are selecting on the service class specified in field JPIT1SCLS. Wildcard names are supported for service class filtering. Service class filtering is not valid if JES2 group filtering is requested. JES3 Usage ===== For JES3, class filtering will only take place if JPIT1CLS is set ON and JPIT1CLW is set OFF. JES3 will only do class filtering for job classes and will ignore class filtering for service classes. Wildcard names are supported for jobclass filtering.
	...1	JPIT1CLS	"B'00010000'" Return Initiators based on Class indicated by JPIT1SCLS
	.... 1...	JPIT1CLW	"B'00001000'" If this bit is on, interpret field JPIT1SCLS as a service class. If this bit is off, interpret JPIT1SCLS as a job class.
	.... .1..	JPIT1DOM	"B'00000100'" If this bit is on, authorized caller is requesting a security label dominance check for batch job data (JES2)

IAZJPITD mapping

Table 96. Structure JPITD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					<p>The next 2 bits are used together to determine filtering by initiator mode. If both bits are OFF, the SSI will return data for both JES and WLM mode initiators. Filtering by initiator mode is independent from filtering by initiator group name (see JPIT1GRP and JPITGNAM). For example, for JES2 requesting initiator group "JES2" AND WLM mode initiators will not return any data.</p>
	....	..1.		JPIT1JES	"B'00000010'" Return JES mode initiators
	....	...1		JPIT1WLM	"B'00000001'" Return WLM mode initiators
21	(15)	BITSTRING	3		Reserved for future use
					<p>Filter field JPITGNAM may contain an Initiator group name. Bit JPIT1GRP indicates if filter JPITGNAM is used. JES2 accepts the constant group names "JES2" and "WLM". JES3 group names are not constants.</p>
24	(18)	CHARACTER	8	JPITGNAM	IS*.Name of Initiator group to be returned.
					<p>Filter field JPITSNAM may contain a MVS system name. Bit JPIT1NAS indicates if the filter JPITSNAM is used. Wildcard names are supported.</p>
32	(20)	CHARACTER	8	JPITSNAM	IS*.Report Initiator info for this MVS system name.
					<p>Filter field JPITMNAM may contain a JES member name. Bit JPIT1NAM indicates if the filter JPITMNAM is used. Wildcard names are supported.</p>
40	(28)	CHARACTER	8	JPITMNAM	IS*.Report Initiator info for this JES mbr name.
					<p>Filter field JPITSCLS may contain a service or job class. Refer to the comments for filter bits JPIT1CLS and JPIT1CLW for usage information.</p>
48	(30)	CHARACTER	8	JPITSCLS	IS*.Report Initiator info for this job/serv class
					<p>Filter field JPITSTAT will be used to select initiators by status if set. Note that WLM and JES3 initiators support ACTIVE/INACTIVE states only (JPITSACT/JPITSINA).</p>
56	(38)	BITSTRING	1	JPITSTAT	IS.Report Initiator info for this status
	1...	....		JPITSARI	"B'10000000'" Draining
	.1..	....		JPITSARD	"B'01000000'" Drained
	..1.	....		JPITSHLI	"B'00100000'" Halting
	...1	....		JPITSHLD	"B'00010000'" Halted
	....	1...		JPITSINA	"B'00001000'" Inactive
	....	.1..		JPITSACT	"B'00000100'" Active
	....	..1.		JPITSSTR	"B'00000010'" Starting
57	(39)	BITSTRING	3		Reserved for future use

Table 96. Structure JPITD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
60	(3C)	SIGNED	4	(11)	Reserved for future use
104	(68)	ADDRESS	4	JPITDPTR	0.Pointer to first initiator group data buffer (see ITGHDHDR)
108	(6C)	SIGNED	4	JPITNIG	0.Number of initiator groups returned
112	(70)	SIGNED	4	(10)	Reserved for future use
152	(98)	DBL WORD	8	(0)	Ensure size Dword aligned
152	(98)	X'98'	0	JPITSZE1	"*-JPITD" Fixed parameter end: ver 1
152	(98)	ADDRESS	4	JPITMPTR	0.Ptr to first system/member data area (see ITSMHDR)
156	(9C)	SIGNED	4	JPITMNUM	0.Number of system/member data areas returned
160	(A0)	DBL WORD	8	(0)	Ensure size Dword aligned
160	(A0)	X'A0'	0	JPITSZE2	"*-JPITD" Fixed parameter end: ver 2
160	(A0)	X'A0'	0	JPITSZE	"*-JPITD" JPITD Current version fixed parameter length

Table 97. Structure ITGHDHDR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ITGHDHDR	, Initiator Group Header
0	(0)	CHARACTER	8	ITGHEYE	Eye catcher
8	(8)	ADDRESS	2	ITGHOHDR	Offset to first section
10	(A)	BITSTRING	2		Reserved for future use
12	(C)	ADDRESS	4	ITGHNEXT	Address of next Group
16	(10)	ADDRESS	4	ITGHINIT	Address of first Initiator in group
20	(14)	SIGNED	4	ITGHNINT	Number of Initiators in group
20	(14)	X'18'	0	ITGHDHSZ	"*-ITGHDHDR" Size of header(internal use only)
Initiator Group Section Identifiers					
		....		ITORTGPR	"X'00'" Group Prefix
		....	...1	ITORTGGI	"X'01'" Group General Information
		....	..11	ITORTGJ3	"X'03'" JES3 Group Information
Initiator Group Section Modifiers					
		....	....	ITORTGPM	"X'00'" Group Prefix Modifier
		....	....	ITORTGGM	"X'00'" Group General Info Modifier
		....	....	ITORTG3I	"X'00'" JES3 Group Information
		....	...1	ITORTG3S	"X'01'" JES3 Group System Info
		....	..1.	ITORTG3J	"X'02'" JES3 Group Jobclass Info

Table 98. Structure ITGPDGRP

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ITGPDGRP	, Initiator Group Prefix Data

IAZJPITD mapping

Table 98. Structure ITGPDGRP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	ADDRESS	2	ITGPGLEN	Length of entire Group entry (Max value is 65535)
2	(2)	ADDRESS	1	ITGPGTYP	Type of this section
3	(3)	ADDRESS	1	ITGPGMOD	Modifier
3	(3)	X'4'	0	ITGPSIZE	"*-ITGPDGRP" Initiator Group Prefix section length

Table 99. Structure ITGGDGGI

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ITGGDGGI	, Initiator Group General Dta
0	(0)	ADDRESS	2	ITGGLEN	Length of section
2	(2)	ADDRESS	1	ITGGTYPE	Type of this section
3	(3)	ADDRESS	1	ITGGMOD	Modifier
4	(4)	CHARACTER	8	ITGGGNAM	Group name
12	(C)	BITSTRING	1	ITGGFLAG	Group Flags
		1...		ITGGWLM	"B'10000000'" ON - Group Mode WLM OFF - Group Mode JES
13	(D)	BITSTRING	3		Reserved
13	(D)	X'10'	0	ITGGSIZE	"*-ITGGDGGI" Initiator Group General Information section length (internal use only)

Table 100. Structure IT3GDG3I

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IT3GDG3I	, JES3 Group Information Data
0	(0)	ADDRESS	2	IT3GLEN	Length of section
2	(2)	ADDRESS	1	IT3GTYPE	Type of this section - JES3
3	(3)	ADDRESS	1	IT3GMOD	Modifier - Group info
4	(4)	CHARACTER	4	IT3G3IBR	JES3 group barrier 0-15 - job priority 16 - no barrier "PRTY" - each job priority is a barrier
8	(8)	BITSTRING	1	IT3GFLAG	JES3 group flag
		1...		IT3GDEFG	"B'10000000'" ON - This is the JES3 default group OFF - This is not the JES3 default group
9	(9)	BITSTRING	3		Reserved for future use
9	(9)	X'C'	0	IT3GSIZE	"*-IT3GDG3I" JES3 Group Information section length (internal use only)

Table 101. Structure IT3HDG3S

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IT3HDG3S	, JES3 Group System Info Data
0	(0)	ADDRESS	2	IT3HLEN	Length of section
2	(2)	ADDRESS	1	IT3HTYPE	Type of this section - JES3
3	(3)	ADDRESS	1	IT3HMOD	Modifier - Group System Inf
4	(4)	ADDRESS	2	IT3H3SOS	Offset to 1st system entry

Table 101. Structure IT3HDG3S (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
6	(6)	ADDRESS	2	IT3H3SNS	Number of system entries
8	(8)	ADDRESS	2	IT3H3SLS	Length of a system entry
8	(8)	X'A'	0	IT3HSIZE	"*-IT3HDG3S" JES3 Group System Info section length (internal use only)

Table 102. Structure IT3SDISY

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IT3SDISY	, JES3 System Information Entry data
0	(0)	CHARACTER	8	IT3SSYSN	System name
8	(8)	SIGNED	4	IT3SDICT	Defined initiator Count
12	(C)	SIGNED	4	IT3SAICT	Allocated initiator Count
16	(10)	SIGNED	4	IT3SUICT	In-use initiator Count
20	(14)	BITSTRING	1	IT3SFLAG	Flags
		1...		IT3SMANA	"B'10000000'" ON - Manual allocation OFF - Dynamic allocation
		.1..		IT3SMANU	"B'01000000'" ON - Manual unallocation OFF - Dynamic unallocation
		..1.		IT3SENBS	"B'00100000'" ON - Group is enabled for scheduling on this system OFF - Group is disabled for scheduling on this system
21	(15)	BITSTRING	3		Reserved
24	(18)	ADDRESS	4	IT3SJSIE	Ptr to JESplex system information entry (see IAZJPLXI)
24	(18)	X'1C'	0	IT3SSIZE	"*-IT3SDISY" System Information Entry section length (internal use only)

Table 103. Structure IT3JDG3J

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IT3JDG3J	, JES3 Group Jobclass Info data
0	(0)	ADDRESS	2	IT3JLEN	Length of section
2	(2)	ADDRESS	1	IT3JTYPE	Type of this section - JES3
3	(3)	ADDRESS	1	IT3JMOD	Modifier - Group Jobclass Info
4	(4)	ADDRESS	2	IT3JJCOF	Offset to 1st jobclass entry
6	(6)	ADDRESS	2	IT3JJCCT	Number of jobclass entries
8	(8)	ADDRESS	2	IT3JJCLN	Length of a jobclass entry
8	(8)	X'A'	0	IT3JSIZE	"*-IT3JDG3J" JES3 Group Jobclass Info section length (internal use only)

IAZJPITD mapping

Table 104. Structure IT3CD3JC

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IT3CD3JC	, Jobclass Entry data
0	(0)	CHARACTER	8	IT3CJCNM	Jobclass name
8	(8)	BITSTRING	4	IT3CSENB	Bitmap relative to system entries in Group System Information section - if bit is ON, class is enabled on corresponding system
12	(C)	BITSTRING	4	IT3CSDEF	Bitmap relative to system entries in Group System Information section - if bit is ON, class is defined on corresponding system
16	(10)	BITSTRING	4	IT3CSEN2	Bitmap relative to JPSYSIFE system entries (anchored by JPIMPTR), if bit is ON class is enabled on corresponding system
20	(14)	BITSTRING	4	IT3CSDE2	Bitmap relative to JPSYSIFE system entries (anchored by JPIMPTR), if bit is ON class is defined on corresponding system
20	(14)	X'18'	0	IT3CSIZE	"*-IT3CD3JC" Jobclass Entry section length (internal use only)

Table 105. Structure ITIHDIHD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ITIHDIHD	, Initiator Header
0	(0)	CHARACTER	8	ITIHIEYE	Eye catcher
8	(8)	ADDRESS	2	ITIHODHR	Offset to first section
10	(A)	BITSTRING	2		Reserved for future use
12	(C)	ADDRESS	4	ITIHNEXT	Address of next Initiator Header
16	(10)	ADDRESS	4	ITIHSYSI	Address of JPSYSIFE for this initiator (see IAZJPLXI)
16	(10)	X'14'	0	ITIHSIZE	"*-ITIHDIHD" Size of header (internal use only)

Initiator Section Identifiers

1... ..	ITORTIPR	"X'80'" Initiator Prefix
1... ..1	ITORTIGI	"X'81'" Initiator General Info
1... ..1.	ITORTIJ2	"X'82'" JES2 Initiator Information

Initiator Section Modifiers

.... ..	ITORTIPM	"X'00'" Initiator Prefix Modifier
.... ..	ITORTIGM	"X'00'" Initiator General Info Mod
.... ..	ITORTI2I	"X'00'" JES2 Initiator Information
.... ..1	ITORTI2J	"X'01'" JES2 Initiator Jobclass Information

Table 106. Structure ITIPDINT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ITIPDINT	, Initiator Prefix Data
0	(0)	ADDRESS	2	ITIPILEN	Length of entire Initiator entry (Max value 65535)
2	(2)	ADDRESS	1	ITIPITYP	Type of this header
3	(3)	ADDRESS	1	ITIPIMOD	Modifier
3	(3)	X'4'	0	ITIPSIZE	"*-ITIPDINT" Initiator Prefix section length

Table 107. Structure ITIGDIGI

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ITIGDIGI	, Initiator General Info Data
0	(0)	ADDRESS	2	ITIGIILN	Length of section
2	(2)	ADDRESS	1	ITIGIITY	Type of this header
3	(3)	ADDRESS	1	ITIGIIMD	Modifier
4	(4)	SIGNED	2	ITIGASID	ASID of initiator job
6	(6)	BITSTRING	1	ITIGSTAT	Initiator Status
		1...		ITIGIDRI	"B'10000000'" Draining
		.1..		ITIGIDRD	"B'01000000'" Drained
		..1.		ITIGIHLI	"B'00100000'" Halting
		...1		ITIGIHLD	"B'00010000'" Halted
		.... 1..		ITIGIINA	"B'00001000'" Inactive
		.... .1..		ITIGIACT	"B'00000100'" Active
		.... ..1.		ITIGISTR	"B'00000010'" Starting
7	(7)	BITSTRING	1		Reserved
8	(8)	CHARACTER	8	ITIGMVSN	MVS system name
16	(10)	CHARACTER	8	ITIGSID	JES member name

The following fields are associated with the currently active batch job in the initiator

24	(18)	CHARACTER	8	ITIGJNAM	Jobname from job card
32	(20)	CHARACTER	8	ITIGJBID	Job ID of batch job
40	(28)	CHARACTER	8	ITIGOWNR	Userid from job card
48	(30)	CHARACTER	8	ITIGSTEP	Job step name
56	(38)	CHARACTER	8	ITIGPRSN	Procedure step name (JES2 only)
64	(40)	CHARACTER	8	ITIGSECL	SECLABEL for address space
72	(48)	CHARACTER	8	ITIGJCLS	Job class
80	(50)	CHARACTER	8	ITIGSCLS	Service class of currently active job, if JES managed. If WLM managed, service class WLM initiator currently running.
88	(58)	BITSTRING	4	ITIGINID	Unique initiator ID
88	(58)	X'5C'	0	ITIGSIZE	"*-ITIGDIGI" Initiator General Information section length (internal use only)

Table 108. Structure IT2IDI2I

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IT2IDI2I	, JES2 Initiator Information Data

IAZJPITD mapping

Table 108. Structure IT2IDI2I (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	ADDRESS	2	IT2ILEN	Length of section
2	(2)	ADDRESS	1	IT2ITYPE	Type of this section
3	(3)	ADDRESS	1	IT2IMOD	Modifier
4	(4)	CHARACTER	4	IT2IITID	Initiator partition 'id'
8	(8)	CHARACTER	8	IT2IITJI	Initiator job ID
8	(8)	X'10'	0	IT2ISIZE	"*-IT2IDI2I" JES2 Initiator Information section length (internal use only)

Table 109. Structure IT2JDI2J

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IT2JDI2J	, JES2 Initiator Jobclass Information Data
0	(0)	ADDRESS	2	IT2JLEN	Length of section
2	(2)	ADDRESS	1	IT2JTYPE	Type of this section
3	(3)	ADDRESS	1	IT2JMOD	Modifier
4	(4)	ADDRESS	2	IT2JJCOS	Offset to 1st jobclass entry
6	(6)	ADDRESS	2	IT2JJCCT	Number of jobclass entries
8	(8)	ADDRESS	2	IT2JJCLN	Length of a jobclass entry
8	(8)	X'A'	0	IT2JSIZE	"*-IT2JDI2J" JES2 Initiator Jobclass Information section length (internal use only)

Table 110. Structure IT2CDIJC

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IT2CDIJC	, Jobclass Entry data
0	(0)	CHARACTER	8	IT2CJCNM	Jobclass name/group name
8	(8)	BITSTRING	1	IT2CFLAG	Flags
		1... ..		IT2CJCWY	"B'10000000'" ON - Yes, jobclass is WLM eligible OFF - No, not eligible
		.1.. ..		IT2CJGRP	"B'01000000'" ON - IT2CJCNM is a job class group name OFF - IT2CJCNM is a job class
8	(8)	X'9'	0	IT2CSIZE	"*-IT2CDIJC" Jobclass Entry section length (internal use only)

Table 111. Structure ITSMHDR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ITSMHDR	, System information header
0	(0)	CHARACTER	8	ITSMEYE	Eye-catcher
8	(8)	ADDRESS	2	ITSMOHR	Offset to prefix section
10	(A)	BITSTRING	2		Reserved
12	(C)	ADDRESS	4	ITSMNEXT	Address of next header
12	(C)	X'10'	0	ITSM SIZE	"*-ITSMHDR" Header size (internal use only)

Table 112. Structure ITORSTOR

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
0	(0)	STRUCTURE		0	ITORSTOR	, Storage management DSECT
0	(0)	CHARACTER		8	ITORSTID	Full eyecatcher
8	(8)	ADDRESS		2	ITORSTHL	Length of header area
10	(A)	ADDRESS		2		Reserved for future use
12	(C)	BITSTRING		1	ITORSTSP	Subpool of area
12	(C)	X'E6'		0	ITORSTPL	"230" Recommended subpool use
13	(D)	ADDRESS		3	ITORSTTL	Total length of area (this includes the header)
16	(10)	ADDRESS		4	ITORSTNX	Pointer to next area
20	(14)	ADDRESS		4	ITORSTCP	Pointer to 1st available byte in this area
24	(18)	ADDRESS		4	ITORSTBG(0)	Start of data area

Table 113. Cross Reference for IAZJPITD

Name	Offset	Hex Tag
ITGGGGGI	0	
ITGGFLAG	C	
ITGGGNAM	4	
ITGGLEN	0	10
ITGGMOD	3	
ITGGSIZE	D	10
ITGGTYPE	2	
ITGGWLM	C	80
ITGHDHDR	0	
ITGHDHSZ	14	18
ITGHEYE	0	C4C9D5C9
ITGHINIT	10	
ITGHNEXT	C	
ITGHNINT	14	
ITGHOHDR	8	18
ITGPDGRP	0	
ITGPGLEN	0	
ITGPGMOD	3	
ITGPGTYP	2	
ITGPSIZE	3	4
ITIGASID	4	
ITIGDIGI	0	
ITIGIACT	6	4
ITIGIDRD	6	40
ITIGIDRI	6	80
ITIGIHLD	6	10
ITIGIHLI	6	20
ITIGIILN	0	5C
ITIGIIMD	3	
ITIGIINA	6	8
ITIGIITY	2	
ITIGINID	58	0
ITIGISTR	6	2

IAZJPITD mapping

Table 113. Cross Reference for IAZJPITD (continued)

Name	Offset	Hex Tag
ITIGJBID	20	40404040
ITIGJCLS	48	40404040
ITIGJNAM	18	40404040
ITIGMVSN	8	40404040
ITIGOWNR	28	40404040
ITIGPRSN	38	40404040
ITIGSCLS	50	40404040
ITIGSECL	40	40404040
ITIGSID	10	40404040
ITIGSIZE	58	5C
ITIGSTAT	6	
ITIGSTEP	30	40404040
ITIHDIHD	0	
ITIHIEYE	0	C4C9D5C9
ITIHNEXT	C	
ITIH0HDR	8	14
ITIH0SIZE	10	14
ITIH0SYSI	10	
ITIPDINT	0	
ITIPILEN	0	0
ITIPIMOD	3	
ITIPITYP	2	
ITIPSIZE	3	4
ITORSTBG	18	
ITORSTCP	14	
ITORSTHL	8	
ITORSTID	0	C9E3D6D9
ITORSTNX	10	
ITORSTOR	0	
ITORSTPL	C	E6
ITORSTSP	C	
ITORSTTL	D	
ITORTGGI	14	1
ITORTGGM	14	0
ITORTGJ3	14	3
ITORTGPM	14	0
ITORTGPR	14	0
ITORTG3I	14	0
ITORTG3J	14	2
ITORTG3S	14	1
ITORTIGI	10	81
ITORTIGM	10	0
ITORTIJ2	10	82
ITORTIPM	10	0
ITORTIPR	10	80
ITORTI2I	10	0
ITORTI2J	10	1
ITSMEYE	0	D1D7C9E3
ITSMHDR	0	

Table 113. Cross Reference for IAZJPITD (continued)

Name	Offset	Hex Tag
ITSMNEXT	C	
ITSMOHR	8	10
ITSMSIZE	C	10
IT2CDIJC	0	
IT2CFLAG	8	
IT2CJCNM	0	40404040
IT2CJCWY	8	80
IT2CJGRP	8	40
IT2CSIZE	8	9
IT2IDI2I	0	
IT2IITID	4	40404040
IT2IITJI	8	40404040
IT2ILEN	0	10
IT2IMOD	3	
IT2ISIZE	8	10
IT2ITYPE	2	
IT2JDI2J	0	
IT2JJCCT	6	
IT2JJCLN	8	
IT2JJCOS	4	
IT2JLEN	0	0
IT2JMOD	3	
IT2JSIZE	8	A
IT2JTYPE	2	
IT3CD3JC	0	
IT3CJCNM	0	40404040
IT3CSDEF	C	
IT3CSDE2	14	
IT3CSENB	8	
IT3CSEN2	10	
IT3CSIZE	14	18
IT3GDEFG	8	80
IT3GDG3I	0	
IT3GFLAG	8	
IT3GLEN	0	C
IT3GMOD	3	
IT3GSIZE	9	C
IT3GTTYPE	2	
IT3G3IBR	4	
IT3HDG3S	0	
IT3HLEN	0	A
IT3HMOD	3	
IT3HSIZE	8	A
IT3HTYPE	2	
IT3H3SLS	8	
IT3H3SNS	6	
IT3H3SOS	4	
IT3JDG3J	0	
IT3JJCCT	6	

IAZJPITD mapping

Table 113. Cross Reference for IAZJPITD (continued)

Name	Offset	Hex Tag
IT3JJCLN	8	
IT3JJCOF	4	
IT3JLEN	0	A
IT3JMOD	3	
IT3JSIZE	8	A
IT3JTYPE	2	
IT3SAICT	C	
IT3SDICT	8	
IT3SDISY	0	
IT3SENBS	14	20
IT3SFLAG	14	
IT3SJSIE	18	
IT3SMANA	14	80
IT3SMANU	14	40
IT3SSIZE	18	1C
IT3SSYSN	0	40404040
IT3SUICT	10	
JPITCVRL	B	2
JPITCVRM	B	0
JPITD	0	
JPITDPTR	68	
JPITFLG1	14	
JPITGNAM	18	
JPITLEN	8	
JPITMNAM	28	
JPITMNUM	9C	
JPITMPTR	98	
JPITNIG	6C	
JPITOVR#	C	200
JPITOVR1	C	100
JPITOVR2	C	200
JPITSACT	38	4
JPITSCLS	30	
JPITSDRD	38	40
JPITSDRI	38	80
JPITSHLD	38	10
JPITSHLI	38	20
JPITSINA	38	8
JPITSNAM	20	
JPITSSID	0	
JPITSSTR	38	2
JPITSTAT	38	
JPITSTRP	10	
JPITSVER	A	
JPITSVR#	B	200
JPITSVRL	A	
JPITSVRM	B	
JPITSVR1	B	100
JPITSVR2	B	200

Table 113. Cross Reference for IAZJPITD (continued)

Name	Offset	Hex Tag
JPITSIZE	A0	A0
JPITSIZE1	98	98
JPITSIZE2	A0	A0
JPITUSER	10	
JPITVER0	C	0
JPIT1CLS	14	10
JPIT1CLW	14	8
JPIT1DOM	14	4
JPIT1GRP	14	80
JPIT1JES	14	2
JPIT1NAM	14	20
JPIT1NAS	14	40
JPIT1WLM	14	1

IAZJPITD mapping

Chapter 30. IAZJPLEX Information

IAZJPLEX Programming Interface Information

The following fields are NOT programming interface information:

- JPLXSTBG
- JPLXSTCP
- JPLXSTHL
- JPLXSTNX
- JPLXSTOR
- JPLXSTPL
- JPLXSTRP
- JPLXSTSP
- JPLXSTTL
- JPLXSIZE1
- JPLXUSER
- JPXGENSZ
- JPXHDSZ
- JPX2SIZ
- JPX3SZ

IAZJPLEX Heading Information

Common Name: JESplex Information Parameter List for SSI 82.
Macro ID: IAZJPLEX
DSECT Name: JPLEX
Owning Component: JES Common (SC141)
Eye-Catcher ID: JESPLEXI
Offset: JPLXID
Length: L'JPLXID

Storage Attributes: Subpool: Parameter List = Subpool of Caller
Output Data = Subpool 230
Key: Parameter List = Key of Caller
Output Data = Key 1
Residency: Virtual = 31 bit private storage
real = 64 bit storage

Size: See JPLXSIZE
Created by: caller of SSI function 'SS0BSSJP' = 82
Pointed to by: SSJPUSE in the SS0B extension
Serialization: None
Function: This macro provides the mapping of the parameter list used by programs to request JESplex Data from the JES subsystem.

IAZJPLEX mapping

Table 114. Structure JPLEX

Offset	Offset		Len	Name(Dim)	Description
Dec	Hex	Type			
0	(0)	STRUCTURE	0	JPLEX	
0	(0)	CHARACTER	8	JPLXID	I.Eye catcher
8	(8)	ADDRESS	2	JPLXLEN	I.Length of JPLEX parameter
<p>There are two 2 byte versions for this SSOB extension. JPLXVER is the version provided by the caller. They indicate the level of the control block passed to the service. As new input fields are added to the service, the caller provided version indicates what the service is to consider valid.</p> <p>JPLXVER0 is the version information returned from the service. This implies what fields the service actually examined and what data is returned. If the service is at a level higher than the level of the caller, JPLXVER0 may be higher than JPLXVER. In this case, only the fields valid at the JPLXVER level are actually examined or set.</p> <p>The 2 bytes of version information is a 1 byte level number (changed only when a new release adds significant function) and a 1 byte modifier (changed only when function is added via service).</p>					
10	(A)	SIGNED	2	JPLXVER(0)	I.SSOB version
10	(A)	ADDRESS	1	JPLXVERL	I.SSOB version level
11	(B)	ADDRESS	1	JPLXVERM	I.SSOB version modifier
11	(B)	BITSTRING	0	JPLXV010	"X'0100'" Initial version number of IAZJPLEX.
11	(B)	BITSTRING	0	JPLXV011	"X'0101'" Active volume info
11	(B)	BITSTRING	0	JPLXV020	"X'0200'" z/OS 1.13 version
11	(B)	BITSTRING	0	JPLXSVR#	"X'0200'" Service version number of IAZJPLEX - Latest Version
11	(B)	X'2'	0	JPLXCVR1	"2" Current version level
11	(B)	X'0'	0	JPLXCVRM	"0" Current version modifier
12	(C)	SIGNED	2	JPLXVERO	O.Subsystem version/modifier
14	(E)	BITSTRING	2		Reserved.
16	(10)	SIGNED	4	JPLXUSER(0)	Placeholder. Do not use.
<p>JPLXSTRP is an anchor for use by the subsystem that responds to this request. It is expected that the caller will set this to zero the FIRST time an SSOB extension is used and from that point on it will be managed by the subsystem.</p>					
16	(10)	ADDRESS	4	JPLXSTRP	Storage management anchor. Points to a chain of JPLXSTOR structures.
<p>Begin input-only fields.</p> <p>NOTES: - Many of the filters only apply to JES2 or JES3. Each filter is denoted with what applies.</p>					
20	(14)	BITSTRING	1	JPLXFLTR	IS.Indicate desired filters
		1...		JPLXFSNM	"X'80'" Filter on System Name
		.1..		JPLXFMMN	"X'40'" Filter on Member Name
21	(15)	BITSTRING	3		Reserved
24	(18)	BITSTRING	1	JPLXSTS1	Composite Status

Table 114. Structure JPLEX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		JPLDRAIN	"X'80'" Drained. (For Jes3 - it is a Down main)
		.1..		JPLINITZ	"X'40'" Initializing (JES2 Only)
		..1.		JPLXACTV	"X'20'" Active member
		...1		JPLDRING	"X'10'" Draining Member (JES2 Only)
		.... 1...		JPLOUDEF	"X'08'" Omit Undefined Members (JES2 Only)
25	(19)	.... .1.. BITSTRING	1	JPLNATCH JPLXSPEC	"X'04'" Not Attached (JES3 Only) IS.JES specific filters
		1...		JPLXINDP	"B'10000000'" Member is independent (JES2 Only)
		.1..		JPLXBOSS	"B'01000000'" Member is BOSS (JES2 only)
		..1.		JPLXPRIM	"B'00100000'" Member is primary subsystem (JES2 only)
		...1		JPLXGLOB	"B'00010000'" Global (J3 Only)
26	(1A)	.... 1... BITSTRING	3	JPLXLOCL	"B'00001000'" Local (J3 Only) Reserved
NOTE: Each filter below is enabled via one of the bit settings above.					
29	(1D)	CHARACTER	8	JPLXSNAM	IS*.MVS System Name filter See JPLXFSNM bit
37	(25)	CHARACTER	8	JPLXMNAM	IS*.Member Name filter See JPLXFMNM bit
45	(2D)	BITSTRING	3		Reserved
48	(30)	SIGNED	4	(10)	Reserved for future use
Begin output-only fields.					
88	(58)	ADDRESS	4	JPLXLPTR	0.Pointer to first Member (JPXHDR) data buffer.
92	(5C)	SIGNED	4	JPLXNMBR	0.Number of Member (JPXHDR) data buffers returned.
96	(60)	SIGNED	8	JPLXTRKT	0.Total Spool Tracks Defined
104	(68)	SIGNED	8	JPLXTRKU	0.Spool Tracks used.
112	(70)	SIGNED	8	JPLXTRAT	0.Total Active Spool Tracks Defined
120	(78)	SIGNED	8	JPLXTRAU	0.Active Spool Tracks used.
128	(80)	CHARACTER	8	JPLXXGNM	0.XCF Group name
136	(88)	BITSTRING	1	JPLXOPT1	0.JESPLEX options:
		1...		JPLX1ADJ	"B'10000000'" CYCLEMGT=AUTO (JES2 only)
137	(89)	BITSTRING	15		Reserved for future use
137	(89)	X'98'	0	JPLXSZE1	"*-JPLEX" Fix parameter End: Ver 1
137	(89)	X'98'	0	JPLXSZE2	"*-JPLEX" Fix parameter End: Ver 2
137	(89)	X'98'	0	JPLXSZE	"*-JPLEX" JPLX Current version fixed parameter length

IAZJPLEX mapping

Table 115. Structure JPLXSTOR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JPLXSTOR	, Storage management DSECT
0	(0)	CHARACTER	8	JPLXSTID	Eyecatcher
8	(8)	ADDRESS	2	JPLXSTHL	Length of header area
10	(A)	ADDRESS	2		Reserved for future use
12	(C)	BITSTRING	1	JPLXSTSP	Subpool of area
12	(C)	X'E6'	0	JPLXSTPL	"230" Recommended subpool to use
13	(D)	ADDRESS	3	JPLXSTTL	Total length of area (this includes the header)
16	(10)	ADDRESS	4	JPLXSTNX	Pointer to next area
20	(14)	ADDRESS	4	JPLXSTCP	Pointer to 1st available byte in this area
24	(18)	ADDRESS	4	JPLXSTBG(0)	Start of data area
24	(18)	X'18'	0	JPLXSTSZ	"(JPLXSTBG-JPLXSTOR)" JPLXSTOR length

Table 116. Structure JPXHDR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JPXHDR	, JESplex Header Section
0	(0)	CHARACTER	8	JPXEYE	Eye catcher
8	(8)	ADDRESS	2	JPXOPRF	Offset to prefix section
10	(A)	ADDRESS	2		Reserved for future use
12	(C)	ADDRESS	4	JPXNXT	Address of next JESplex
16	(10)	ADDRESS	4		Reserved for future use
16	(10)	X'14'	0	JPXHDSZ	"*-JPXHDR" Size of this section (Internal use only)
JESplex Section Identifiers					
		.... ....		JPXIDPRF	"X'00" JESplex Info - Prefix
		.... ...1		JPXIDGEN	"X'01" JESplex Info - General
		.... ..1.		JPXIDJS2	"X'02" JESplex Info - JES2
		.... ..11		JPXIDJS3	"X'03" JESplex Info - JES3
		.... ..1..		JPXIDPFX	"X'04" JESplex Info - Cmd Prefix
JESplex Section Modifiers					
		.... ....		JPXIMGEN	"X'00" Modifier - General

Table 117. Structure JPXPREF

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JPXPREF	, JESplex Prefix
0	(0)	ADDRESS	2	JPXPRLN	Length of entire JESplex entry (Max value is 65535) returned - other than hdr
2	(2)	ADDRESS	1	JPXPRT	Type = Prefix Section
3	(3)	ADDRESS	1	JPXPRTM	Type Mod = General
3	(3)	X'4'	0	JPXPRTSZ	"*-JPXPREF" Size of this section

Table 118. Structure JPXGENI

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JPXGENI	, JESplex General Information.
0	(0)	ADDRESS	2	JPXGLN	Length of this section
2	(2)	ADDRESS	1	JPXGTY	Type = General Info
3	(3)	ADDRESS	1	JPXGMD	Type Mod = General
4	(4)	CHARACTER	4	JPXSBSNM	Subsystem name
8	(8)	DBL WORD	8	JPXSTIME	Date/Time of last start STCK format
16	(10)	BITSTRING	1	JPXSTAT1	Member status
16	(10)	X'0'	0	JPXUNDEF	"0" Not defined
16	(10)	X'1'	0	JPXDRAIN	"1" Drained Member
16	(10)	X'2'	0	JPXINITZ	"2" Initializing (J2 Only)
16	(10)	X'3'	0	JPXACTIV	"3" Active member
16	(10)	X'4'	0	JPXDRING	"4" Draining Member (J2 Only)
16	(10)	X'5'	0	JPXNATCH	"5" Not Attached (J3 Only)
17	(11)	CHARACTER	32	JPXSTATC	Current Status (character string)
49	(31)	CHARACTER	8	JPXMVSNM	MVS system name
57	(39)	CHARACTER	8	JPXMEMNM	JES Member Name
65	(41)	CHARACTER	8	JPXVERSN	Version of Product (character)
73	(49)	CHARACTER	8	JPXSMFID	SMF ID
81	(51)	BITSTRING	1	JPXSYSLG	Syslog Indicator
		1...		JPXSLOGY	"X'80'" Release 11 syslog support is active for this member
82	(52)	SIGNED	2	JPXMEMNO	JES Member Number
84	(54)	SIGNED	1	JPXSTYPE	Type of last start
84	(54)	X'A'	0	JPXCOLD	"10" COLD START
84	(54)	X'B'	0	JPX2COLF	"11" COLD START with format
84	(54)	X'14'	0	JPXWARM	"20" WARM START
84	(54)	X'15'	0	JPX2SRMS	"21" SINGLE MEMBER WARM START
84	(54)	X'19'	0	JPX3WRMD	"25" JES3 WARM START TO REPLACE A SPOOL DATASET
84	(54)	X'1A'	0	JPX3WRMA	"26" JES3 WARM START WITH ANALYSIS
84	(54)	X'1B'	0	JPX3WDA	"27" JES3 WARM START TO REPLACE A SPOOL DATASET WITH ANALYSIS.
84	(54)	X'1E'	0	JPXHOT	"30" HOT START
84	(54)	X'23'	0	JPX3HOTR	"35" JES3 HOT START WITH REFRESH.
84	(54)	X'24'	0	JPX3HOTA	"36" JES3 HOT START WITH ANALYSIS
84	(54)	X'25'	0	JPX3HTRA	"37" JES3 HOT START WITH REFRESH AND ANALYSIS
84	(54)	X'28'	0	JPX2QUIK	"40" QUICK START
84	(54)	X'32'	0	JPX3LCL	"50" JES3 LOCAL START
85	(55)	BITSTRING	1	JPXPRODL	Product Level (binary)
86	(56)	BITSTRING	1	JPXSERVL	Service Level
87	(57)	BITSTRING	1		Reserved for future use
88	(58)	SIGNED	4	JPXTMOF	UTC offset of the member in seconds (including leap seconds)
88	(58)	X'5C'	0	JPXGENSZ	"*-JPXGENI" Size of this section (Internal use only)

IAZJPLEX mapping

Table 119. Structure JPXJES3I

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JPXJES3I	, JESplex JES3-specific information
0	(0)	ADDRESS	2	JPX3LN	Section length
2	(2)	ADDRESS	1	JPX3TY	Type = JES3 Info
3	(3)	ADDRESS	1	JPX3MD	Type Mod = General
4	(4)	SIGNED	4		Reserved for future use
8	(8)	DBL WORD	8	JPX3GCON	Last global contact time
16	(10)	SIGNED	2	JPX3TRK1	Primary track group allocation
18	(12)	SIGNED	2	JPX3TRK2	Secondary track group allocation
20	(14)	SIGNED	2	JPX3WTOL	WTO message limit
22	(16)	SIGNED	2	JPX3WTOI	WTO message interval (seconds)
24	(18)	SIGNED	2	JPX3CSA	PBUF CSA limit
26	(1A)	SIGNED	2	JPX3AUX	PBUF JES3AUX limit
28	(1C)	SIGNED	2	JPX3FIX	Fixed PBUFS
30	(1E)	SIGNED	2	JPX3USR	User pages per open SYSOUT dataset
32	(20)	CHARACTER	8	JPX3SELM	Selection mode name
40	(28)	CHARACTER	8	JPX3SPL	Spool partition name
48	(30)	CHARACTER	11	JPX3MPFX	Message prefix
59	(3B)	CHARACTER	3	JPX3MDST	Message destination (M1-M32 or 1-28, 41-128)
62	(3E)	BITSTRING	1	JPX3FLG1	Flag byte
		1...		JPX3GBL	"B'10000000'" Global node
		.1..		JPX3ONL	"B'01000000'" Online
		..1.		JPX3FLSH	"B'00100000'" Flushed
		...1		JPX3CNN	"B'00010000'" Connected
62	(3E)	X'30'	0	JPX3NCNN	"JPX3FLSH+JPX3CNN" Not connected
		.... 1...		JPX3DOWN	"B'00001000'" Down
		.... .1..		JPX3ATT	"B'00000100'" Attached
62	(3E)	X'C'	0	JPX3NATT	"JPX3DOWN+JPX3ATT" Not attached
63	(3F)	BITSTRING	1		Reserved
63	(3F)	X'40'	0	JPX3SZ	"*-JPXJES3I" Size of this section (Internal use only)

Table 120. Structure JPXJES2I

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JPXJES2I	, JESplex JES2 specific Information
0	(0)	ADDRESS	2	JPX2LN	Length of this section
2	(2)	ADDRESS	1	JPX2TY	Type = JES2 Info
3	(3)	ADDRESS	1	JPX2MD	Type Mod = General
4	(4)	BITSTRING	1	JPX2FLG1	JES2 Indicators
		1...		JPX21IND	"B'10000000'" Independent Mode
		.1..		JPX21BOS	"B'01000000'" BOSS Indicator
		..1.		JPX21PRI	"B'00100000'" Primary subsystem Indicator
5	(5)	CHARACTER	3		padding for alignment
8	(8)	DBL WORD	8	JPX2ITIM	Time last accessed checkpoint
16	(10)	BITSTRING	1	JPX2FLG2	Current command being processed
		..1.		JPX21P	"B'00100000'" \$P command
		...1		JPX21PXQ	"B'00010000'" \$PXEQ Command

Table 120. Structure JPXJES2I (continued)

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
17	(11)	BITSTRING	3		Reserved
20	(14)	SIGNED	4	JPX2HOLD	Current setting MASDEF HOLD
24	(18)	SIGNED	4	JPX2MIND	Current setting MASDEF MIN DORMANCY
28	(1C)	SIGNED	4	JPX2MAXD	Current setting MASDEF MAX DORMANCY
32	(20)	SIGNED	4	JPX2SYNC	Current setting MASDEF SYNCTOL
36	(24)	SIGNED	4	JPX2AHL	Actual HOLD last checkpoint
40	(28)	SIGNED	4	JPX2ADRM	Actual DORMANCY last checkpoint
44	(2C)	CHARACTER	8	JPX2RSID	Name of member doing reset (reset by member - \$EMEMBER)
52	(34)	SIGNED	1	JPX2STAT	Specific status indicator
		1...		JPX2DOWN	"B'10000000'" Down
		.1..		JPX2DEF	"B'01000000'" DEFINED filter
		..1.		JPX2INU	"B'00100000'" INUSE
		...1		JPX2FAIL	"B'00010000'" FAILED
		.... ...1		JPX2UNDF	"X'01'" Member UNDEFINED
		.... ..1.		JPX2UPND	"X'02'" Member UNDEFINED-PENDING
52	(34)	X'63'	0	JPX2ACTV	"JPX2DEF+JPX2INU+X'03'" Member ACTIVE
52	(34)	X'C4'	0	JPX2INAC	"JPX2DEF+JPX2DOWN+X'04'" Member TERMINATED
52	(34)	X'65'	0	JPX2INIT	"JPX2DEF+JPX2INU+X'05'" Member INITIALIZING
52	(34)	X'66'	0	JPX2TERM	"JPX2DEF+JPX2INU+X'06'" Member TERMINATING
52	(34)	X'D7'	0	JPX2JESF	"JPX2DEF+JPX2DOWN+JPX2FAIL+X'07'" Memb JES2-FAILED
52	(34)	X'D8'	0	JPX2XCF	"JPX2DEF+JPX2DOWN+JPX2FAIL+X'08'" Memb JESXCF-FAILED
52	(34)	X'D9'	0	JPX2MVSG	"JPX2DEF+JPX2DOWN+JPX2FAIL+X'09'" Memb MVS-GONE
52	(34)	X'6A'	0	JPX2DORM	"JPX2DEF+JPX2INU+X'0A'" Member DORMANT (Never set)
52	(34)	X'CB'	0	JPX2DRAN	"JPX2DEF+JPX2DOWN+X'0B'" Member DRAINED
52	(34)	X'DC'	0	JPX2ALIC	"JPX2DEF+JPX2DOWN+JPX2FAIL+X'0C'" Member awaiting ALICE processing
53	(35)	BITSTRING	1	JPX2STA2	2nd status byte
		1...		JPX2EDEL	"B'10000000'" Member deleted
		.1..		JPX2\$IND	"B'01000000'" Member in independent mode
		..1.		JPX2SIOT	"B'00100000'" SPIN IOT being purged
		...1		JPX2NMAL	"B'00010000'" Member has two checkpoint datasets allocated
		.... 1...		JPX2EGON	"B'00001000'" XCF system gone
		.... ..1.		JPX2PRIM	"B'00000010'" Member is a primary subsystem
		.... ...1		JPX2SPLX	"B'00000001'" Command Prefix has SYSplex scope
54	(36)	BITSTRING	2		Reserved for future use
54	(36)	X'38'	0	JPX2SIZ	"*-JPXJES2I" Size of this section (Internal use only)

IAZJPLEX mapping

Table 121. Structure JPXCPRFE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JPXCPRFE	, JESplex command prefix information.
0	(0)	ADDRESS	2	JPXCLN	Length of this section
2	(2)	ADDRESS	1	JPXCTY	Type = Command Prefix
3	(3)	ADDRESS	1	JPXCMD	Type Mod = General
4	(4)	SIGNED	2	JPXPFXC	Command prefix count
6	(6)	ADDRESS	2	JPXPFXL	Command prefix entry length
8	(8)	ADDRESS	2	JPXPFXO	Offset to first entry
10	(A)	BITSTRING	2		Reserved
10	(A)	X'C'	0	JPXCXSIZ	"*-JPXCPRFE" Size of this fixed portion of this section (Internal use only)
12	(C)	BITSTRING	1	JPXCARAY(0)	Start of variable length portion of section

Table 122. Structure JPXCPRFE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JPXCPRFE	, Element of prefix array
0	(0)	BITSTRING	1	JPXCPFXS	Scope flags
		1... ..		JPXCYSYP	"X'80'" SYSplex scope
		.1... ..		JPXCYSYT	"X'40'" System scope
1	(1)	CHARACTER	8	JPXCPFXP	Command prefix
1	(1)	X'9'	0	JPXCPFSZ	"*-JPXCPRFE" Length of an array element

Table 123. Cross Reference for IAZJPLEX

Name	Offset	Hex Tag
JPLDRAIN	18	80
JPLDRING	18	10
JPLEX	0	
JPLINITZ	18	40
JPLNATCH	18	4
JPLOUDEF	18	8
JPLXACTV	18	20
JPLXBOSS	19	40
JPLXCVRL	B	2
JPLXCVRM	B	0
JPLXFLTR	14	0
JPLXFMMM	14	40
JPLXFSSM	14	80
JPLXGLOB	19	10
JPLXID	0	
JPLXINDP	19	80
JPLXLEN	8	
JPLXLOCL	19	8
JPLXLPTR	58	

Table 123. Cross Reference for IAZJPLEX (continued)

Name	Offset	Hex Tag
JPLXMNAM	25	40404040
JPLXNMBR	5C	0
JPLXOPT1	88	0
JPLXPRIM	19	20
JPLXSNAM	1D	40404040
JPLXSPEC	19	0
JPLXSTBG	18	
JPLXSTCP	14	
JPLXSTHL	8	
JPLXSTID	0	D1D7D3E7
JPLXSTNX	10	
JPLXSTOR	0	
JPLXSTPL	C	E6
JPLXSTRP	10	
JPLXSTSP	C	0
JPLXSTSZ	18	18
JPLXSTS1	18	
JPLXSTTL	D	
JPLXSVR#	B	200
JPLXSZE	89	98
JPLXSZE1	89	98
JPLXSZE2	89	98
JPLXTRAT	70	0
JPLXTRAU	78	0
JPLXTRKT	60	0
JPLXTRKU	68	0
JPLXUSER	10	
JPLXVER	A	
JPLXVERL	A	
JPLXVERM	B	
JPLXVERO	C	0
JPLXV010	B	100
JPLXV011	B	101
JPLXV020	B	200
JPLXXGNM	80	40404040
JPLX1ADJ	88	80
JPXACTIV	10	3
JPXCARAY	C	
JPXCLN	0	0
JPXCMD	3	
JPXCOLD	54	A
JPXCPFSZ	1	9
JPXCPFXP	1	40404040
JPXCPFXS	0	0
JPXCPREF	0	
JPXCPRFE	0	
JPXCSIZ	A	C
JPXCSYSP	0	80
JPXCSYST	0	40

IAZJPLEX mapping

Table 123. Cross Reference for IAZJPLEX (continued)

Name	Offset	Hex Tag
JPXCTY	2	
JPXDRAIN	10	1
JPXDRING	10	4
JPXEYE	0	D1D7E7C8
JPXGENI	0	
JPXGENSZ	58	5C
JPXGLN	0	5C
JPXGMD	3	
JPXGTY	2	
JPXHDR	0	
JPXHDSZ	10	14
JPXHOT	54	1E
JPXIDGEN	10	1
JPXIDJS2	10	2
JPXIDJS3	10	3
JPXIDPFX	10	4
JPXIDPRF	10	0
JPXIMGEN	10	0
JPXINITZ	10	2
JPXJES2I	0	
JPXJES3I	0	
JPXMEMNM	39	40404040
JPXMEMNO	52	0
JPXMVSNM	31	40404040
JPXNATCH	10	5
JPXNXTP	C	
JPXOPRF	8	14
JPXPFXC	4	0
JPXPFXL	6	
JPXPFXO	8	
JPXPREF	0	
JPXPRLN	0	
JPXPRMD	3	
JPXPRODL	55	0
JPXPRSZ	3	4
JPXPRTP	2	
JPXSBSNM	4	40404040
JPXSERVL	56	0
JPXSLOGY	51	80
JPXSMFID	49	40404040
JPXSTATC	11	40404040
JPXSTAT1	10	0
JPXSTIME	8	0
JPXSTYPE	54	0
JPXSYSLG	51	
JPXTMOF	58	
JPXUNDEF	10	0
JPXVERSN	41	40404040
JPXWARM	54	14

Table 123. Cross Reference for IAZJPLEX (continued)

Name	Offset	Hex Tag
JPX2\$IND	35	40
JPX2ACTV	34	63
JPX2ADRM	28	0
JPX2AHLA	24	0
JPX2ALIC	34	DC
JPX2COLF	54	B
JPX2DEF	34	40
JPX2DORM	34	6A
JPX2DOWN	34	80
JPX2DRAN	34	CB
JPX2EDEL	35	80
JPX2EGON	35	8
JPX2FAIL	34	10
JPX2FLG1	4	0
JPX2FLG2	10	0
JPX2HOLD	14	0
JPX2INAC	34	C4
JPX2INIT	34	65
JPX2INU	34	20
JPX2ITIM	8	0
JPX2JESF	34	D7
JPX2LN	0	38
JPX2MAXD	1C	0
JPX2MD	3	
JPX2MIND	18	0
JPX2MVSG	34	D9
JPX2NMAL	35	10
JPX2PRIM	35	2
JPX2QUIK	54	28
JPX2RSID	2C	40404040
JPX2SIOT	35	20
JPX2SIZ	36	38
JPX2SPLX	35	1
JPX2SRMS	54	15
JPX2STAT	34	0
JPX2STA2	35	0
JPX2SYNC	20	0
JPX2TERM	34	66
JPX2TY	2	
JPX2UNDF	34	1
JPX2UPND	34	2
JPX2XCFF	34	D8
JPX21BOS	4	40
JPX21IND	4	80
JPX21P	10	20
JPX21PRI	4	20
JPX21PXQ	10	10
JPX3ATT	3E	4
JPX3AUX	1A	0

IAZJPLEX mapping

Table 123. Cross Reference for IAZJPLEX (continued)

Name	Offset	Hex Tag
JPX3CNN	3E	10
JPX3CSA	18	0
JPX3DOWN	3E	8
JPX3FIX	1C	0
JPX3FLG1	3E	0
JPX3FLSH	3E	20
JPX3GBL	3E	80
JPX3GCON	8	0
JPX3HOTA	54	24
JPX3H0TR	54	23
JPX3HTRA	54	25
JPX3LCL	54	32
JPX3LN	0	40
JPX3MD	3	
JPX3MDST	3B	404040
JPX3MPFX	30	40404040
JPX3NATT	3E	C
JPX3NCNN	3E	30
JPX3ONL	3E	40
JPX3SELM	20	40404040
JPX3SPL	28	40404040
JPX3SZ	3F	40
JPX3TRK1	10	0
JPX3TRK2	12	0
JPX3TY	2	
JPX3USR	1E	0
JPX3WDA	54	1B
JPX3WRMA	54	1A
JPX3WRMD	54	19
JPX3WTOI	16	0
JPX3WTOL	14	0

Chapter 31. IAZJPLXI Information

IAZJPLXI Programming Interface Information

The following fields are NOT programming interface information:

- JPSYSESZ
- JPSYSIZE
- JPSYVERD

IAZJPLXI Heading Information

Common Name:	System information section returned by a number of SSIs which have a JESplex-scope.
Macro ID:	IAZJPLXI
DSECT Name:	JPSYSPRF - DSECT for a prefix section JPSYSINF - DSECT for system information section JPSYSIFE - DSECT for a system entry in a system information section
Owning Component:	JES Common (SC141)
Eye-Catcher ID:	The eye-catcher for this section is provided by the higher-level data structure created by an SSI which returns this section. See documentation for a specific SSI. Offset: N/A Length: N/A
Storage Attributes:	Subpool: Storage for system information section is allocated by an SSI which returns this section. See documentation for a specific SSI. Key: See above. Residency: See above.
Size:	See below for sizes of individual DSECTS
Created by:	System information section is created by an SSI which returns this section.
Pointed to by:	See documentation for specific SSI.
Serialization:	None required
Function:	This macro provides the mapping of the system information section returned by the SSIs which have JESplex scope. The purpose of this section is to report basic information about systems (MAS members for JES2) which were processed to obtain data for a particular SSI call. SSIs which return this section, include: - NJE node information SSI (subfunction of SSI 82) - initiator information SSI (subfunction of SSI 82) - device information SSI (SSI 83)

IAZJPLXI mapping

Table 124. Structure JPSYSPRF

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JPSYSPRF	, Prefix section

IAZJPLXI mapping

Table 124. Structure JPSYSPRF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	ADDRESS	2	JPSYXLNG	Total length of all sections for this header (header itself is not included)
2	(2)	ADDRESS	1	JPSYXTYP	Section type
3	(3)	ADDRESS	1	JPSYXMOD	Section type modifier
3	(3)	X'4'	0	JPSYXSIZ	"*-JPSYSPRF" Prefix section size

Table 125. Structure JPSYSINF

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JPSYSINF	, System information section
0	(0)	ADDRESS	2	JPSYLANG	Length of this section, including all system entries
2	(2)	ADDRESS	1	JPSYTYPE	Section type
3	(3)	ADDRESS	1	JPSYMOD	Section type modifier
4	(4)	ADDRESS	2	JPSYOENT	Offset to first entry
6	(6)	ADDRESS	2	JPSYNENT	Number of entries
8	(8)	ADDRESS	2	JPSYSENT	Size of each entry
10	(A)	BITSTRING	2		Reserved
10	(A)	X'C'	0	JPSYSIZE	"*-JPSYSINF" Size of system information section (internal use only)

Table 126. Structure JPSYSIFE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JPSYSIFE	, System information entry
0	(0)	CHARACTER	8	JPSYSYSN	MVS system name
8	(8)	CHARACTER	8	JPSYMBRN	JES2 MAS member name
16	(10)	CHARACTER	4	JPSYSUBS	JES subsystem name
20	(14)	ADDRESS	1	JPSYCMCL	JES command prefix length
21	(15)	CHARACTER	8	JPSYCMCH	JES command prefix
29	(1D)	CHARACTER	8	JPSYVERN	Version of JES
37	(25)	BITSTRING	1	JPSYFLAG	Processing flags:
		1... ..		JPSYFPRC	"B'10000000'" data processed for this system (JES2)
		.1..		JPSYFNDD	"B'01000000'" no data returned for this system because no data was available or no data matched the filters(JES2)
		..1.		JPSYFSUP	"B'00100000'" no data returned for this system - not supported (JES2)
		...1		JPSYFINA	"B'00010000'" no data returned for this system - not active or cannot be reached (JES2)
		.... 1..		JPSYFGLB	"B'00001000'" global system in a complex (JES3)
		.... .1..		JPSYFPRI	"B'00000100'" primary subsystem
		.... ..1.		JPSYFPXQ	"B'00000010'" \$PXEQ issued on this member (JES2)

Table 126. Structure JPSYSIFE (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
		....	...1		JPSYFERR	"B'00000001'" error accessing data from the system
38	(26)	BITSTRING		2	JPSYVERD	Version of the data returned from this system (JES2) (for diagnostic purposes only)
40	(28)	SIGNED		2	JPSYMBNR	JES2 MAS member number
42	(2A)	SIGNED		1	JPSYJ2PL	JES product level
43	(2B)	SIGNED		1	JPSYJ2SL	JES service level
43	(2B)	X'2C'		0	JPSYSESZ	"*-JPSYSIFE" Size of system information entry (internal use only)

Table 127. Cross Reference for IAZJPLXI

Name	Offset	Hex	Tag
JPSYCMCH	15		
JPSYCMCL	14		
JPSYFERR	25	1	
JPSYFGLB	25	8	
JPSYFINA	25	10	
JPSYFLAG	25		
JPSYFNDD	25	40	
JPSYFPRC	25	80	
JPSYFPRI	25	4	
JPSYFPXQ	25	2	
JPSYFSUP	25	20	
JPSYJ2PL	2A		
JPSYJ2SL	2B		
JPSYLANG	0		
JPSYMBNR	28		
JPSYMBRN	8		
JPSYMOD	3		
JPSYNENT	6		
JPSYOENT	4		
JPSYSENT	8		
JPSYSESZ	2B	2C	
JPSYSIFE	0		
JPSYSINF	0		
JPSYSIZE	A	C	
JPSYSPRF	0		
JPSYSUBS	10		
JPSYSYSN	0		
JPSYTYPE	2		
JPSYVERD	26		
JPSYVERN	1D		
JPSYXLNG	0		
JPSYXMOD	3		
JPSYXSIZ	3	4	
JPSYXTYP	2		

IAZJPLXI mapping

Chapter 32. IAZJPNJN Information

IAZJPNJN Programming Interface Information

The following fields are NOT programming interface information:

- NJNCSIZE
- NJNHSIZE
- NJNLSTRP
- NJNSAVL
- NJNSDATA
- NJNSEYE
- NJNSNEXT
- NJNSSIZE
- NJNSSTHL
- NJNSSTPL
- NJNSSTSP
- NJNSSTTL
- NJNSTOR
- NJSHSIZE
- N2NGSIZE
- N2NPESZE
- N2NPSIZE
- N3NGSIZE
- N3NPESZE
- N3NPSIZE

IAZJPNJN Heading Information

Common Name: Parameters and data structures returned by NJE node information SSI (subfunction of SSI 82)
Macro ID: IAZJPNJN
DSECT Name: See below for DSECT names of individual data structures
Owning Component: JES Common (SC141)
Eye-Catcher ID: SSI parameter list - 'SSJPNJNL'
See other DSECTS for the eye-catchers they use.
Offset: NJNLEYE
Length: L'NJNLEYE
Storage Attributes: Subpool: Parameter list - determined by caller
Data structures returned by the SSI - 230
Key: Parameter list - determined by caller
Data structures returned by the SSI - key 1
Residency: Virtual - anywhere in 31-bit private storage
Real - anywhere in 64 bit storage
Size: See below for sizes of individual DSECTS
Created by: Parameter list - by SSI caller
Data structures returned by the SSI - by SSI code
Pointed to by: SSJPUSE in the SS0B extension for SSI 82
(see IAZSSJP macro)

IAZJPNJN Heading Information

Serialization: None

Function: This macro provides the mapping of the data structures used by NJE node information SSI (subfunction of SSI 82):

- SSI parameter list
- data structures returned by the SSI
- storage areas managed by the SSI

The SSI returns information about NJE nodes managed by job entry subsystem.

By default, SSI returns information only from the local system (the one where SSI was called).

Options are provided to request information from other systems in a JESplex (MAS members for JES2).

This SSI is supported by JES2 and JES3.

IAZJPNJN mapping

Table 128. Structure NJNL

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NJNL	, NJE node SSI parameter list
0	(0)	CHARACTER	8	NJNLEYE	I.Eye-catcher
8	(8)	ADDRESS	2	NJNLLNG	I.Length of parameter list
10	(A)	BITSTRING	2	NJNLVRM(0)	I.Parm list ver/mod
10	(A)	BITSTRING	1	NJNLVER	I.Parm list version
11	(B)	BITSTRING	1	NJNLMOD	I.Parm list modification
11	(B)	X'1'	0	NJNLVER1	"1" original version
11	(B)	X'0'	0	NJNLMOD0	"0" original modification
11	(B)	BITSTRING	0	NJNLVRM1	"X'0100'" original ver/mod
11	(B)	BITSTRING	0	NJNLVRMC	"X'0100'" latest ver/mod
12	(C)	BITSTRING	2	NJNLSVRM(0)	O.Subsystem ver/mod
12	(C)	BITSTRING	1	NJNLSVER	O.Subsystem version
13	(D)	BITSTRING	1	NJNLSMOD	O.Subsystem modification
13	(D)	X'1'	0	NJNLSVR1	"1" original version
13	(D)	X'2'	0	NJNLSVR2	"2" version 2
13	(D)	X'0'	0	NJNLSMD0	"0" original modification
13	(D)	BITSTRING	0	NJNLSVM1	"X'0100'" original ver/mod
13	(D)	BITSTRING	0	NJNLSVM2	"X'0200'" ver/mod 2
13	(D)	BITSTRING	0	NJNLSVMC	"X'0200'" latest ver/mod
14	(E)	BITSTRING	1		Reserved
15	(F)	BITSTRING	1	NJNLOPT1	I.Processing options:
		1...		NJNLODMC	"B'10000000'" perform security label dominance check (this check is always performed for non-authorized callers) (JES2)

Table 128. Structure NJNL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
<p>The following fields specify filters which can be used to limit output to a subset of available data. Implicit OR is performed between filters which apply to the same node attribute. E.g. if both NJNL1SSG and NJNL1CSG are selected, SSI will return NJE nodes which are defined with compatible signon in addition to NJE nodes which are defined with a secure signon.</p> <p>Implicit AND is performed between filters which apply to the different node attributes. E.g. if both NJNL1NAM and NJNL1SNA filters are selected, SSI will return NJE nodes with the names matching NJNLNOD1 field and which are at the same time connected via SNA protocol.</p> <p>If filter is not recognized (e.g. filter added in a future release), or does not apply, it will not have impact on the result of the SSI call. E.g. JES3-only filters will not have impact on SSI output from JES2.</p>					
16	(10)	BITSTRING	1	NJNLFLT1	IS.Filter by node attributes (1):
		1... ..		NJNL1NAM	"B'10000000'" select by node name (see NJNLNOD1)
		.1.. ..		NJNL1RNG	"B'01000000'" select by range of node numbers (JES2) (see NJNLRNGL and NJNLRNGH)
		..1.		NJNL1SSG	"B'00100000'" select nodes with secure signon
		...1		NJNL1CSG	"B'00010000'" select nodes with compatible signon
		.... 1..		NJNL1NET	"B'00001000'" select by subnet name (JES2) (see NJNLSUBN)
		.... .1..		NJNL1SNA	"B'00000100'" select nodes using SNA protocol (JES3)
		.... ..1.		NJNL1BSC	"B'00000010'" select nodes using BSC protocol (JES3)
		.... ...1		NJNL1TCP	"B'00000001'" select nodes using TCP protocol (JES3)
17	(11)	BITSTRING	1	NJNLFLT2	IS.Filter by node attributes (2):
		1... ..		NJNL2PMY	"B'10000000'" select nodes managed by path manager (JES2)
		.1.. ..		NJNL2PMN	"B'01000000'" select nodes not managed by path manager (JES2)
		..1.		NJNL2TLS	"B'00100000'" select nodes using secure sockets (TLS) (JES3)
18	(12)	BITSTRING	1	NJNLFLTC	IS.Filter by connection status:
		1... ..		NJNLCOWN	"B'10000000'" select only local (own or home) node - this filter should not be used with any other connection filter
		.1.. ..		NJNLCADJ	"B'01000000'" select adjacent nodes - adjacent node is one hop away from the local node

IAZJPNJN mapping

Table 128. Structure NJNL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		NJNLCDIR	"B'00100000'" select directly attached nodes - these are adjacent nodes which use dedicated lines
		...1		NJNLCCNC	"B'00010000'" select connected (reachable) nodes - JES is ready to send data to connected nodes
		.... 1...		NJNLCNCN	"B'00001000'" select not connected nodes - node is configured but JES is not able to communicate with it
		.... .1..		NJNLCPDN	"B'00000100'" select nodes pending connection
		.... ..1.		NJNLCVIA	"B'00000010'" select nodes connected via specified adjacent node (see NJNLNOD2)
19	(13)	BITSTRING	1	NJNLFLTA	IS.Filter by node authority: (JES2)
		1...		NJNLADCY	"B'10000000'" with authority to device cmds
		.1..		NJNLADCN	"B'01000000'" without authority to device cmds
		..1.		NJNLAJCY	"B'00100000'" with authority to job cmds
		...1		NJNLAJCN	"B'00010000'" without authority to job cmds
		.... 1...		NJNLANCY	"B'00001000'" with authority to net cmds
		.... .1..		NJNLANCN	"B'00000100'" without authority to net cmds
		.... ..1.		NJNLASCY	"B'00000010'" with authority to system cmds
		.... ...1		NJNLASCN	"B'00000001'" without authority to system cmds
<p>Filter by the system name or JES2 member name of the system(s) in the JESplex, which should be processed for the data. If none of these filters are specified, SSI will only return data from the system where SSI was called. To request information from other systems (or members) in a JESplex, specify system or member selection filter.</p>					
20	(14)	BITSTRING	1	NJNLFLTS	IS.System/member selection:
		1...		NJNLSSYS	"B'10000000'" use system selection filter (see NJNLSYSN) (JES2)
		.1..		NJNLSMBR	"B'01000000'" use member selection filter (see NJNLMBRN) (JES2)
21	(15)	BITSTRING	3		Reserved
24	(18)	SIGNED	4	(0)	IS.Node number range (used with NJNL1RNG) (JES2)
24	(18)	SIGNED	4	NJNLRNGL	node number range low
28	(1C)	SIGNED	4	NJNLRNGH	node number range high

Table 128. Structure NJNL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
32	(20)	CHARACTER	8	NJNLNOD1	IS*.Node name for selection (used with NJNLINAM)
40	(28)	CHARACTER	8	NJNLNOD2	IS*.Node name for selection (used with NJNLCVIA)
48	(30)	CHARACTER	8	NJNLSUBN	IS*.Subnet name for selection (used with NJNLINET) (JES2)
56	(38)	CHARACTER	8	NJNLSSYSN	IS*.System name for selection (used with NJNLSSYS) (JES2)
64	(40)	CHARACTER	8	NJNLMBRN	IS*.JES2 MAS member name for selection (used with NJNLSMBR) (JES2)
72	(48)	SIGNED	4	(10)	Reserved
112	(70)	ADDRESS	4	NJNLDPTR	0.Ptr to data for first NJE node (see NJNHDR)
116	(74)	ADDRESS	4	NJNLMPTR	0.Ptr to first system/member data area (see NJSHDR) (JES2)
120	(78)	SIGNED	4	NJNLDNUM	0.Number of NJE node data areas in a chain (see NJNLDPTR)
124	(7C)	SIGNED	4	NJNLMNUM	0.Number of system/member data areas in a chain (see NJNLMPTR)
<p>NJNLSTRP is an anchor for use by the subsystem that responds to this request. The caller must set this to zero on the first call and after that this field will be managed by subsystem.</p>					
128	(80)	ADDRESS	4	NJNLSTRP	0.Storage management anchor
132	(84)	SIGNED	4	(10)	Reserved
132	(84)	X'AC'	0	NJNLSZE1	"*-NJNL" Version 1 length
132	(84)	X'AC'	0	NJNLSSIZE	"*-NJNL" Current version length

IAZJPNJN mapping

Table 128. Structure NJNL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
<p>The following DSECTs define data structures returned by NJE node SSI. After successful call to the SSI, field NJNLDPTR points to a chain of data areas representing data for each NJE node. Data area for one NJE node consists of the following contiguous data structures:</p> <ul style="list-style-type: none"> - Header - (NJNHDR) - Prefix section (NJNFPREF) - Common section (NJNCMN) - JES2-dependent general data section - optional detailed data sections <p>JES2 returns these sections:</p> <ul style="list-style-type: none"> - JES2 general data section (N2NGEN) - optional JES2 path data section, (N2NPATH) which contains one or more JES2 path information entries (N2NPTEN) <p>JES3 returns these sections:</p> <ul style="list-style-type: none"> - JES3 general data section (N3NGEN) - optional JES3 path data section, (N3NPATH) which contains one or more JES3 path information entries (N3NPTEN) <p>In addition, field NJNLMPTR points to a chain of system information data areas. One such data area is returned for each SSI call, provided that at least one system/member matches system and member selection filters. This data area returns basic data about systems (or members) in a JESplex, which were processed to obtain data for this SSI call. System information data area consists of the following contiguous data structures:</p> <ul style="list-style-type: none"> - Header (NJSHDR) - Prefix section (JPSYSRPF in macro IAZJPLXI) - System information section (JPSYSINF in macro IAZJPLXI) <p>Note that repeated calls to the "obtain data" subfunction of this SSI (SSJPNJOD) without intervening call to "release storage" subfunction (SSJPNJRS), will cause data from a new SSI call to be prepended to data from an earlier SSI call.</p>					
Section types and modifiers					
		NJNTYPRF	"X'00'" Prefix section
1		NJNTYCMN	"X'01'" Common section
1.		NJNTYJS2	"X'02'" JES2-specific section
11		NJNTYJS3	"X'03'" JES3-specific section
Modifiers for the JES2 sections (NJNTYJS2)					
1		NJNMDJ2G	"X'01'" JES2 general data section
1.		NJNMDJ2P	"X'02'" JES2 path data section
Modifiers for the JES3 sections (NJNTYJS3)					
1		NJNMDJ3G	"X'01'" JES3 general data section
1.		NJNMDJ3P	"X'02'" JES3 path data section

Table 129. Structure NJNHDR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NJNHDR	, NJE node data header
0	(0)	CHARACTER	8	NJNHEYE	Eye-catcher
8	(8)	ADDRESS	2	NJNHOHDR	Offset to first section (prefix)
10	(A)	BITSTRING	2		Reserved
12	(C)	ADDRESS	4	NJNHNEXT	Address of next header
16	(10)	ADDRESS	4	NJNHJPLX	Address of system information entry for this member
16	(10)	X'14'	0	NJNHSIZE	"*-NJNHDR" Header size (internal use only)

Table 130. Structure NJNFPREF

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NJNFPREF	, Prefix section
0	(0)	ADDRESS	2	NJNFLNG	Total length of all sections for this header (header itself is not included)
2	(2)	ADDRESS	1	NJNFTYPE	Section type
3	(3)	ADDRESS	1	NJNFMOD	Section type modifier
3	(3)	X'4'	0	NJNFSIZE	"*-NJNFPREF" Prefix section size

Table 131. Structure NJNCMN

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NJNCMN	, NJE node common section
0	(0)	ADDRESS	2	NJNCNLNG	Length of this section
2	(2)	ADDRESS	1	NJNCTYPE	Section type
3	(3)	ADDRESS	1	NJNCMOD	Section type modifier
4	(4)	CHARACTER	8	NJNCNAME	Node name
12	(C)	CHARACTER	8	NJNCYSYN	Name of the reporting system
20	(14)	CHARACTER	8	NJNCMBRN	MAS member name of the reporting system (JES2)
28	(1C)	BITSTRING	1	NJNCFLG1	Node status flags:
		1... ..		NJNCSLCL	"B'10000000'" local node - also known as own or home node
		.1.. ..		NJNCSCNC	"B'01000000'" connected node (at least one path is connected)
		..1.		NJNCSPND	"B'00100000'" pending node (at least one path is pending)
		...1		NJNCSDJ	"B'00010000'" adjacent node
		.... 1...		NJNCSDIR	"B'00001000'" directly attached node
29	(1D)	BITSTRING	1	NJNCFLG1	Processing flags:
		1... ..		NJNC1SPW	"B'10000000'" send signon password
		.1.. ..		NJNC1VPW	"B'01000000'" verify signon password
		..1.		NJNC1EPW	"B'00100000'" encrypt job password
		...1		NJNC1PWL	"B'00010000'" local password check (JES3)

IAZJPNJN mapping

Table 131. Structure NJNCMN (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		NJNC1SSG	"B'00001000'" secure sign-on
		.... .1..		NJNC1CSG	"B'00000100'" compatible sign-on
30	(1E)	BITSTRING	1	NJNCFLG2	More processing flags:
		1...		NJNC2TRC	"B'10000000'" trace requested
		.1..		NJNC2RST	"B'01000000'" autoconnect/restart
		..1.		NJNC2HDJ	"B'00100000'" hold received jobs
		...1		NJNC2HDS	"B'00010000'" hold received SYSOUT
31	(1F)	BITSTRING	1		Reserved
32	(20)	CHARACTER	10	NJNCLINE	Associated line name: dedicated line (JES2) default line (JES3)
42	(2A)	SIGNED	2	NJNCRINT	Automatic restart (reconnect) interval - minutes
44	(2C)	SIGNED	2	NJNCRETR	Max number of reconnection retries (0 - indefinite retry)
46	(2E)	CHARACTER	8	NJNCSECL	Security label (JES2)
54	(36)	BITSTRING	2		Reserved
54	(36)	X'38'	0	NJNCsize	"*-NJNCMN" NJE node common section size (internal use)

Table 132. Structure N2NGEN

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	N2NGEN	, JES2 general data section
0	(0)	ADDRESS	2	N2NGLNG	Length of this section
2	(2)	ADDRESS	1	N2NGTYPE	Section type
3	(3)	ADDRESS	1	N2NGMOD	Section type modifier
4	(4)	SIGNED	4	N2NGNUM	Node number
8	(8)	BITSTRING	1	N2NGSFLG	Node status flags:
		1...		N2NGSPMD	"B'10000000'" path manager is down
		.1..		N2NGSNOP	"B'01000000'" non path manager mode
		..1.		N2NGSEND	"B'00100000'" end node (no forwarding)
		...1		N2NGSPRV	"B'00010000'" private node
		.... 1...		N2NGSDIR	"B'00001000'" only allow direct connection
9	(9)	BITSTRING	1	N2NGFLG1	Processing flags:
		1...		N2NGIADV	"B'10000000'" authority to device cmds
		.1..		N2NGIAJB	"B'01000000'" authority to job cmds
		..1.		N2NGIANT	"B'00100000'" authority to net cmds
		...1		N2NGIASY	"B'00010000'" authority to system cmds
		.... 1...		N2NGIXMJ	"B'00001000'" transmit jobs
		.... .1..		N2NGIXMS	"B'00000100'" transmit sysout
		.... ..1.		N2NGIRCS	"B'00000010'" receive jobs
		.... ...1		N2NGIRCS	"B'00000001'" receive sysout

Table 132. Structure N2NGEN (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
10	(A)	BITSTRING 1... ..	1	N2NGFLG2 N2NGZARS	More processing flags: "B'10000000'" accept resistance
11	(B)	BITSTRING	1	N2NGCMPT	Compaction table id
12	(C)	SIGNED	4	N2NGREST	Node resistance
16	(10)	CHARACTER	8	N2NGSUBN	NJE subnet name
24	(18)	CHARACTER	8	N2NGLOGM	VTAM logmode
32	(20)	CHARACTER	10	N2NGLOGN	Logon device name
42	(2A)	CHARACTER	10	N2NGNSVN	NETSRV name
52	(34)	BITSTRING	3	N2NGLNID	Binary device id for NJNCLINE
55	(37)	BITSTRING	3	N2NGLGID	Binary device id for N2NGLOGN
58	(3A)	BITSTRING	3	N2NGNSID	Binary device id for N2NGNSVN
61	(3D)	BITSTRING	3		Reserved
61	(3D)	X'40'	0	N2NGSIZE	"*-N2NGEN" JES2 general data section size (internal use)

Table 133. Structure N2NPATH

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	N2NPATH	, JES2 path information section
0	(0)	ADDRESS	2	N2NPLNG	Length of this section including all path entries
2	(2)	ADDRESS	1	N2NPTYPE	Section type
3	(3)	ADDRESS	1	N2NPMOD	Section type modifier
4	(4)	ADDRESS	2	N2NPOENT	Offset to first entry
6	(6)	ADDRESS	2	N2NPNENT	Number of entries
8	(8)	ADDRESS	2	N2NPSENT	Size of each entry
10	(A)	BITSTRING	2		Reserved
10	(A)	X'C'	0	N2NPSIZE	"*-N2NPATH" JES2 path information section size (internal use)

Table 134. Structure N2NPTEN

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	N2NPTEN	, JES2 path information entry
0	(0)	BITSTRING 1... .. .1.. .. ..1. .... ...1 1..	1	N2NPSFLG N2NPSVLN N2NPSVMB N2NPSAWR N2NPSSGN N2NPSPND	Path status flags: "B'10000000'" connected via line "B'01000000'" connected via member "B'00100000'" awaiting reset "B'00010000'" signon in progress "B'00001000'" connection pending
1	(1)	BITSTRING	1		Reserved
Intermediate node name when path status is: "connected via line" (N2NPSVLN), "connection pending" (N2NPSPND), "awaiting reset" (N2NPSAWR)					
2	(2)	CHARACTER	8	N2NPNAM1	Via node name

IAZJPNJN mapping

Table 134. Structure N2NP TEN (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					Associated line name if path status is "connected via line" (N2NPSVLN) or "signon in progress" (N2NPSSGN) Associated member if path status is "connected via member N2NPSVMB or "connection pending" (N2NPSPND)
10	(A)	CHARACTER	10	N2NP NAM2	Associated line/member name
20	(14)	SIGNED	4	N2NP REST	Path resistance
20	(14)	X'18'	0	N2NP ESZE	"*-N2NP TEN" JES2 path entry size (internal use)

Table 135. Structure N3NGEN

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	N3NGEN	, JES3 general data section
0	(0)	ADDRESS	2	N3NGLNG	Length of this section
2	(2)	ADDRESS	1	N3NGTYPE	Section type
3	(3)	ADDRESS	1	N3NGMOD	Section type modifier
4	(4)	BITSTRING	1	N3NGSFLG	Node connection status:
		1...		N3NGSSNA	"B'10000000'" connected via SNA
		.1..		N3NGSBSC	"B'01000000'" connected via BSC
		..1.		N3NGSTCP	"B'00100000'" connected via TCP
		...1		N3NGSIND	"B'00010000'" indirect node
		.... 1..		N3NGSALS	"B'00001000'" alias of home node
		.... .1..		N3NGSCTC	"B'00000100'" CTC node
		.... ..1.		N3NGSSGS	"B'00000010'" send signature
		.... ...1		N3NGSSGV	"B'00000001'" verify signature
5	(5)	BITSTRING	1	N3NGFLG1	Processing flags:
		1...		N3NGIDFC	"B'10000000'" default class
		.1..		N3NGIXNR	"B'01000000'" writer name is required to hold SYSOUT for external writer
		..1.		N3NGINTH	"B'00100000'" net hold
		...1		N3NGITLS	"B'00010000'" secure socket (TLS)
6	(6)	BITSTRING	1	N3NGEPR	NETPR
7	(7)	BITSTRING	1	N3NGEPU	NETPU
8	(8)	ADDRESS	2	N3NGBUFS	Buffer size
10	(A)	CHARACTER	8	N3NGPRCL	PRTDEF class
18	(12)	CHARACTER	8	N3NGTSC L	PRTTSO class
26	(1A)	CHARACTER	8	N3NGXWCL	PRTXWTR class
34	(22)	CHARACTER	8	N3NGPUCL	PUNDEF class
42	(2A)	CHARACTER	8	N3NGPART	Spool partition
50	(32)	CHARACTER	8	N3NGBDTI	Bulk data transfer (BDT) id
58	(3A)	BITSTRING	1	N3NGSTRM	Stream
59	(3B)	BITSTRING	1	N3NGMAXL	Max number of lines
60	(3C)	ADDRESS	1	N3NGNRJT	Number of job transmitters
61	(3D)	ADDRESS	1	N3NGNRJR	Number of job receivers
62	(3E)	ADDRESS	1	N3NGNROT	Number of output transmitters
63	(3F)	ADDRESS	1	N3NGNROR	Number of output receivers

Table 135. Structure N3NGEN (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
63	(3F)	X'40'	0	N3NGSIZE	"*-N3NGEN" JES3 general data section size (internal use)

Table 136. Structure N3NPATH

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	N3NPATH	, JES3 path information section
0	(0)	ADDRESS	2	N3NPLNG	Length of this section
2	(2)	ADDRESS	1	N3NPTYPE	Section type
3	(3)	ADDRESS	1	N3NPMOD	Section type modifier
4	(4)	ADDRESS	2	N3NPOENT	Offset to first entry
6	(6)	ADDRESS	2	N3NPNENT	Number of entries
8	(8)	ADDRESS	2	N3NPSENT	Size of each entry
10	(A)	BITSTRING	2		Reserved
10	(A)	X'C'	0	N3NPSIZE	"*-N3NPATH" JES3 path information section size (internal use)

Table 137. Structure N3NPTE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	N3NPTE	, JES3 path information entry
0	(0)	CHARACTER	8	N3NPNNAM	Node name
0	(0)	X'8'	0	N3NPESZE	"*-N3NPTE" JES3 path entry size (internal use)

Table 138. Structure NJSHDR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NJSHDR	, System information header
0	(0)	CHARACTER	8	NJSHEYE	Eye-catcher
8	(8)	ADDRESS	2	NJSHOHR	Offset to first (prefix) section
10	(A)	BITSTRING	2		Reserved
12	(C)	ADDRESS	4	NJSHNEXT	Address of next header
12	(C)	X'10'	0	NJSHSIZE	"*-NJSHDR" Header size (internal use only)

Table 139. Structure NJNSTOR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NJNSTOR	, Storage management header
0	(0)	CHARACTER	8	NJNSEYE	Eye-catcher
8	(8)	ADDRESS	2	NJNSSTHL	Length of header
10	(A)	BITSTRING	2		Reserved
12	(C)	BITSTRING	1	NJNSSTSP	Subpool of this storage block
12	(C)	X'E6'	0	NJNSSTPL	"230" Recommended subpool to use
13	(D)	BITSTRING	3	NJNSSTTL	Total length of this storage block (including this header)

IAZJPNJN mapping

Table 139. Structure NJNSTOR (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
16	(10)	ADDRESS		4	NJNSNEXT	Pointer to next storage management header
20	(14)	ADDRESS		4	NJNSAVL	Pointer to first available byte
24	(18)	ADDRESS		4	NJNSDATA(0)	Start of data in the block
24	(18)	X'18'		0	NJNSSIZE	"*-NJNSTOR"

Table 140. Cross Reference for IAZJPNJN

Name	Offset	Hex	Tag
NJNCFLG1	1D		
NJNCFLG2	1E		
NJNCLINE	20		
NJNCLNG	0		
NJNCMBRN	14		
NJNCMN	0		
NJNCMOD	3		
NJNCNAME	4		
NJNCRETR	2C		
NJNCRINT	2A		
NJNC S ADJ	1C		10
NJNC SCNC	1C		40
NJNCSDIR	1C		8
NJNCSECL	2E		
NJNC S FLG	1C		
NJNC SIZE	36		38
NJNC SLCL	1C		80
NJNC SPND	1C		20
NJNC SYSN	C		
NJNCTYPE	2		
NJNC1CSG	1D		4
NJNC1EPW	1D		20
NJNC1PWL	1D		10
NJNC1SPW	1D		80
NJNC1SSG	1D		8
NJNC1VPW	1D		40
NJNC2HDJ	1E		20
NJNC2HDS	1E		10
NJNC2RST	1E		40
NJNC2TRC	1E		80
NJNFLNG	0		
NJNFMOD	3		
NJNFPREF	0		
NJNF SIZE	3		4
NJNFTYPE	2		
NJNHDR	0		
NJNHEYE	0	D1D7D5D1	
NJNHJPLX	10		
NJNHNEXT	C		
NJNHOHDR	8		14

Table 140. Cross Reference for IAZJPNJN (continued)

Name	Offset	Hex Tag
NJNHSIZE	10	14
NJNL	0	
NJNLADCN	13	40
NJNLADCY	13	80
NJNLAJCN	13	10
NJNLAJCY	13	20
NJNLANCN	13	4
NJNLANCY	13	8
NJNLASCN	13	1
NJNLASCY	13	2
NJNLCADJ	12	40
NJNLCCNC	12	10
NJNLCDIR	12	20
NJNLCNCN	12	8
NJNLCOWN	12	80
NJNLCPDN	12	4
NJNLCVIA	12	2
NJNLNUM	78	
NJNLPTR	70	
NJNLEYE	0	E2E2D1D7
NJNLFLTA	13	
NJNLFLTC	12	
NJNLFLTS	14	
NJNLFLT1	10	
NJNLFLT2	11	
NJNLLNG	8	
NJNLMBRN	40	
NJNLMNUM	7C	
NJNLMOD	B	
NJNLMOD0	B	0
NJNLMPTR	74	
NJNLNOD1	20	
NJNLNOD2	28	
NJNLODMC	F	80
NJNLOPT1	F	
NJNLRNGH	1C	
NJNLRNGL	18	
NJNLSSIZE	84	AC
NJNLSMBR	14	40
NJNLSMD0	D	0
NJNLSMOD	D	
NJNLSSYS	14	80
NJNLSTRP	80	
NJNLSUBN	30	
NJNLSVER	C	
NJNLSVMC	D	200
NJNLSVM1	D	100
NJNLSVM2	D	200
NJNLSVRM	C	

IAZJPNJN mapping

Table 140. Cross Reference for IAZJPNJN (continued)

Name	Offset	Hex Tag
NJNLSVR1	D	1
NJNLSVR2	D	2
NJNLSYSN	38	
NJNLSZE1	84	AC
NJNLVER	A	
NJNLVER1	B	1
NJNLVRM	A	
NJNLVRMC	B	100
NJNLVRM1	B	100
NJNL1BSC	10	2
NJNL1CSG	10	10
NJNL1NAM	10	80
NJNL1NET	10	8
NJNL1RNG	10	40
NJNL1SNA	10	4
NJNL1SSG	10	20
NJNL1TCP	10	1
NJNL2PMN	11	40
NJNL2PMY	11	80
NJNL2TLS	11	20
NJNMDJ2G	84	1
NJNMDJ2P	84	2
NJNMDJ3G	84	1
NJNMDJ3P	84	2
NJNSAVL	14	
NJNSDATA	18	
NJNSEYE	0	D5D1D5C4
NJNSNEXT	10	
NJNSSIZE	18	18
NJNSSTHL	8	
NJNSSTPL	C	E6
NJNSSTSP	C	
NJNSSTTL	D	
NJNSTOR	0	
NJNTYCMN	84	1
NJNTYJS2	84	2
NJNTYJS3	84	3
NJNTYPRF	84	0
NJSHDR	0	
NJSHEYE	0	D1D7D5D1
NJSHNEXT	C	
NJSHOHDR	8	10
NJSHSIZE	C	10
N2NGCMPT	B	
N2NGEN	0	
N2NGFLG1	9	
N2NGFLG2	A	
N2NGLGID	37	
N2NGLNG	0	

Table 140. Cross Reference for IAZJPNJN (continued)

Name	Offset	Hex Tag
N2NGLNID	34	
N2NGLOGM	18	
N2NGLOGN	20	
N2NGMOD	3	
N2NGNSID	3A	
N2NGNSVN	2A	
N2NGNUM	4	
N2NGREST	C	
N2NGSDIR	8	8
N2NGSEND	8	20
N2NGSFLG	8	
N2NGSIZE	3D	40
N2NGSNOP	8	40
N2NGSPMD	8	80
N2NGSPRV	8	10
N2NGSUBN	10	
N2NGTYPE	2	
N2NG1ADV	9	80
N2NG1AJB	9	40
N2NG1ANT	9	20
N2NG1ASY	9	10
N2NG1RCJ	9	2
N2NG1RCS	9	1
N2NG1XMJ	9	8
N2NG1XMS	9	4
N2NG2ARS	A	80
N2NPATH	0	
N2NPESZE	14	18
N2NPLNG	0	
N2NPMOD	3	
N2NPNAM1	2	
N2NPNAM2	A	
N2NPNENT	6	
N2NPOENT	4	
N2NPREST	14	
N2NPSAWR	0	20
N2NPSENT	8	
N2NPSFLG	0	
N2NPSIZE	A	C
N2NPSPND	0	8
N2NPSSGN	0	10
N2NPSVLN	0	80
N2NPSVMB	0	40
N2NPTEN	0	
N2NPTYPE	2	
N3NGBDTI	32	
N3NGBUFS	8	
N3NGEN	0	
N3NGEPR	6	

IAZJPNJN mapping

Table 140. Cross Reference for IAZJPNJN (continued)

Name	Offset	Hex Tag
N3NGEPU	7	
N3NGFLG1	5	
N3NGLNG	0	
N3NGMAXL	3B	
N3NGMOD	3	
N3NGNRJR	3D	
N3NGNRJT	3C	
N3NGNROR	3F	
N3NGNROT	3E	
N3NGPART	2A	
N3NGPRCL	A	
N3NGPUCL	22	
N3NGSALS	4	8
N3NGSBSC	4	40
N3NGSCTC	4	4
N3NGSFLG	4	
N3NGSIND	4	10
N3NGSIZE	3F	40
N3NGSSGS	4	2
N3NGSSGV	4	1
N3NGSSNA	4	80
N3NGSTCP	4	20
N3NGSTRM	3A	
N3NGTSCCL	12	
N3NGTYPE	2	
N3NGXWCL	1A	
N3NG1DFC	5	80
N3NG1INTH	5	20
N3NG1TLS	5	10
N3NG1XNR	5	40
N3NPATH	0	
N3NPESZE	0	8
N3NPLNG	0	
N3NPMOD	3	
N3NPONENT	6	
N3NPNNAM	0	
N3NPOENT	4	
N3NPSENT	8	
N3NPSIZE	A	C
N3NPTEEN	0	
N3NPTEPE	2	

Chapter 33. IAZJPROC Information

IAZJPROC Programming Interface Information

The following fields are NOT programming interface information:

- JPRCSTBG
- JPRCSTCP
- JPRCSTHL
- JPRCSTID
- JPRCSTNX
- JPRCSTOR
- JPRCSTPL
- JPRCSTRP
- JPRCSTSP
- JPRCSTSZ
- JPRCSTTL
- JPRDSIZE
- JPRDSLEN
- JPRDSTRT
- JPRGENSZ
- JPRHDSZ

IAZJPROC Heading Information

Common Name: PROCLIB concatenation info parameter list for SSI 82.
Macro ID: IAZJPROC
DSECT Name: JPROC
Owning Component: JES Common (SC141)
Eye-Catcher ID: JESPROCI
Offset: JPRCID
Length: L'JPRCID

Storage Attributes: Subpool: Parameter List = Subpool of Caller
Output Data = Subpool 230
Key: Parameter List = Key of Caller
Output Data = Key 1
Residency: Virtual = 31 bit private storage
real = 64 bit storage

Size: See JPRCSZE
Created by: Caller of SSI function 'SSOBSSJP' = 82
Pointed to by: SSJPUSER in the SSOB extension
Serialization: None
Function: This macro provides the mapping of the parameter list used by programs to request PROCLIB Data from the JES subsystem.

IAZJPROC mapping

Table 141. Structure JPROC

Offset	Offset		Len	Name(Dim)	Description
Dec	Hex	Type			
0	(0)	STRUCTURE	0	JPROC	
0	(0)	CHARACTER	8	JPRCID	I.Eye catcher
8	(8)	ADDRESS	2	JPRCLEN	I.Length of JPROC parameter
<p>There are two 2 byte versions for this SSOB extension. JPRCVER is the version provided by the caller. They indicate the level of the control block passed to the service. As new input fields are added to the service, the caller provided version indicates what the service is to consider valid.</p> <p>JPRCVERO is the version information returned from the service. This implies what fields the service actually examined and what data is returned. If the service is at a level higher than the level of the caller, JPRCVERO may be higher than JPRCVER. In this case, only the fields valid at the JPRCVER level are actually examined or set.</p> <p>The 2 bytes of version information is a 1 byte level number (changed only when a new release adds significant function) and a 1 byte modifier (changed only when function is added via service).</p>					
10	(A)	SIGNED	2	JPRCVER(0)	I.SSOB version
10	(A)	ADDRESS	1	JPRCVERL	I.SSOB version level
11	(B)	ADDRESS	1	JPRCVERM	I.SSOB version modifier
11	(B)	BITSTRING	0	JPRCV010	"X'0100'" Initial version number of IAZJPROC.
11	(B)	BITSTRING	0	JPRCSVR#	"X'0100'" Latest version
11	(B)	X'1'	0	JPRCCVRL	"1" Current version level
11	(B)	X'0'	0	JPRCCVRM	"0" Current version modifier
12	(C)	SIGNED	2	JPRCVERO	O.Subsystem version/modifier
14	(E)	BITSTRING	2		Reserved.
<p>JPRCSTRP is an anchor for use by the subsystem that responds to this request. It is expected that the caller will set this to zero the FIRST time an SSOB extension is used and from that point on it will be managed by the subsystem.</p>					
16	(10)	ADDRESS	4	JPRCSTRP	Storage management anchor. Points to a chain of JPRCSTOR structures.
<p>Begin input-only fields.</p> <p>NOTES: - Many of the filters only apply to JES2 or JES3. Each filter is denoted with what applies.</p> <p>The filters in JPRCFLTR are a list of PROCLIBs to include in the output area. For example, setting JPRCFNAM with JPRCPNAM set to PROC00 and setting JPRCFTSO will return PROC00 AND the PROCLIB used for TSO logon. A particular PROCLIB concatenation will only be returned once even if it matches multiple filters.</p> <p>If the class specified in JPRCJCLS does not exist, this is considered an input error and no data will be returned.</p>					

Table 141. Structure JPROC (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
20	(14)	BITSTRING 1... .... .1.. .... ..1. .... ...1 1... .... .1..	1	JPRCFLTR JPRCFNAM JPRCFJBC JPRCFSTC JPRCFTSO JPRCFINT JPRCFLOC	IS.Indicate desired filters "B'10000000'" Filter on PROCLIB DD name "B'01000000'" Return PROCLIB for JOBCLASS (JES2 only) "B'00100000'" Return started task PROCLIB "B'00010000'" Return TSO logon PROCLIB "B'00001000'" Return internal reader PROCLIB (JES3 only) "B'00000100'" Return PROCLIB for address space calling the SSI Reserved
21	(15)	BITSTRING	7		Reserved
NOTE: Each filter below is enabled via one of the bit settings above.					
28	(1C)	CHARACTER	8	JPRCPNAM	IS*.PROCLIB DD name filter See JPRCFNAM bit
36	(24)	CHARACTER	8	JPRCJCLS	IS.JOBCLASS whose PROCLIB you want See JPRCFJBC bit
44	(2C)	SIGNED	4	(10)	Reserved for future use
Begin output-only fields.					
84	(54)	ADDRESS	4	JPRCLPTR	0.Pointer to first PROCLIB (JPRHDR) data buffer.
88	(58)	SIGNED	4	JPRCNMBR	0.Number of PROCLIB (JPRHDR) data buffers returned.
92	(5C)	SIGNED	4	(11)	Reserved for future use
92	(5C)	X'88'	0	JPRCSZE1	"*-JPROC" Fix parameter End: Ver 1
92	(5C)	X'88'	0	JPRCSZE	"*-JPROC" JPRC Current version fixed parameter length

Table 142. Structure JPRCSTOR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JPRCSTOR	, Storage management DSECT
0	(0)	CHARACTER	8	JPRCSTID	Eyecatcher
8	(8)	ADDRESS	2	JPRCSTHL	Length of header area
10	(A)	ADDRESS	2		Reserved for future use
12	(C)	BITSTRING	1	JPRCSTSP	Subpool of area
12	(C)	X'E6'	0	JPRCSTPL	"230" Recommended subpool to use
13	(D)	ADDRESS	3	JPRCSTTL	Total length of area (this includes the header)
16	(10)	ADDRESS	4	JPRCSTNX	Pointer to next area
20	(14)	ADDRESS	4	JPRCSTCP	Pointer to 1st available byte in this area
24	(18)	ADDRESS	4	JPRCSTBG(0)	Start of data area
24	(18)	X'18'	0	JPRCSTSZ	"(JPRCSTBG-JPRCSTOR)" JPRCSTOR length

IAZJPROC mapping

Table 143. Structure JPRHDR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JPRHDR	, PROCLIB Header Section
0	(0)	CHARACTER	8	JPREYE	Eye catcher
8	(8)	ADDRESS	2	JPROPRF	Offset to prefix section
10	(A)	ADDRESS	2		Reserved for future use
12	(C)	ADDRESS	4	JPRNXTF	Address of next PROCLIB
16	(10)	ADDRESS	4		Reserved for future use
16	(10)	X'14'	0	JPRHDSZ	"*-JPRHDR" Size of this section (Internal use only)
PROCLIB Section Identifiers					
		....		JPRIDPRF	"X'00'" PROCLIB Info - Prefix
		....	...1	JPRIDGEN	"X'01'" PROCLIB Info - General
PROCLIB Section Modifiers					
		....		JPRIMGEN	"X'00'" Modifier - General
		....	...1	JPRIMDSN	"X'01'" Modifier - Data set info

Table 144. Structure JPRPREF

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JPRPREF	, PROCLIB Prefix
0	(0)	ADDRESS	2	JPRPRLN	Length of entire PROCLIB entry (Max value is 65535) returned - other than hdr
2	(2)	ADDRESS	1	JPRPRTF	Type = Prefix Section
3	(3)	ADDRESS	1	JPRPRMD	Type Mod = General
3	(3)	X'4'	0	JPRPRSZ	"*-JPRPREF" Size of this section

Table 145. Structure JPRGENI

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JPRGENI	, PROCLIB General Information.
0	(0)	ADDRESS	2	JPRGLN	Length of this section
2	(2)	ADDRESS	1	JPRGTY	Type = General Info
3	(3)	ADDRESS	1	JPRGMD	Type Mod = General
4	(4)	CHARACTER	8	JPRDDNAM	PROCLIB DD name
12	(C)	BITSTRING	1	JPRFLAG1	Flag byte
		1... ..		JPRP1STA	"B'10000000'" Static PROCLIB (from JES PROC)
		.1.. ..		JPRP1STC	"B'01000000'" Started task PROCLIB
		..1.		JPRP1TSO	"B'00100000'" TSO logon PROCLIB
13	(D)	BITSTRING	3		Reserved
16	(10)	SIGNED	2	JPRDSCNT	Number of data sets in concatenation
16	(10)	X'12'	0	JPRGENSZ	"*-JPRGENI" Size of this section (Internal use only)

Table 146. Structure JPRDSETS

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JPRDSETS	, Data set info data area
0	(0)	ADDRESS	2	JPRDLEN	Length of data set info section
2	(2)	ADDRESS	1	JPRDTYPE	Type of this header
3	(3)	ADDRESS	1	JPRDMOD	Modifier
4	(4)	ADDRESS	2	JPRDOFFS	Offset to first info area
6	(6)	SIGNED	2	JPRDNUM	Number of data set areas
8	(8)	ADDRESS	2	JPRDINFL	Length of a data area
10	(A)	BITSTRING	1	JPRDSTRT(0)	First data set info area (Internal use only)
10	(A)	X'A'	0	JPRDSIZE	"*-JPRDSETS" Length of basic section (Internal use only)

Table 147. Structure JPRDSINF

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JPRDSINF	, Info for PROCLIB data sets
0	(0)	CHARACTER	44	JPRDDSN	Data set name
44	(2C)	CHARACTER	8	JPRDUNIT	Data set unit
52	(34)	CHARACTER	6	JPRDVOL	Data set VOLSER
58	(3A)	BITSTRING	2		Reserved
58	(3A)	X'3C'	0	JPRDSLEN	"*-JPRDSINF" Length of area (Internal use only)

Table 148. Cross Reference for IAZJPROC

Name	Offset	Hex Tag
JPRCCVRL	B	1
JPRCCVRM	B	0
JPRCFINT	14	8
JPRCFJBC	14	40
JPRCFLOC	14	4
JPRCFLTR	14	0
JPRCFNAM	14	80
JPRCFSTC	14	20
JPRCFTSO	14	10
JPRCID	0	
JPRCJCLS	24	40404040
JPRCLEN	8	
JPRCLPTR	54	
JPRCNMBR	58	0
JPRCPNAM	1C	40404040
JPRCSTBG	18	
JPRCSTCP	14	
JPRCSTHL	8	
JPRCSTID	0	D1D7D9C3
JPRCSTNX	10	
JPRCSTOR	0	
JPRCSTPL	C	E6
JPRCSTRP	10	

IAZJPROC mapping

Table 148. Cross Reference for IAZJPROC (continued)

Name	Offset	Hex Tag
JPRCSTSP	C	0
JPRCSTSZ	18	18
JPRCSTTL	D	
JPRCSVR#	B	100
JPRCSZE	5C	88
JPRCSZE1	5C	88
JPRCVER	A	
JPRCVERL	A	
JPRCVERM	B	
JPRCVERO	C	0
JPRCV010	B	100
JPRDDNAM	4	40404040
JPRDDSN	0	
JPRDINFL	8	
JPRDLEN	0	
JPRDMOD	3	
JPRDNUM	6	0
JPRDOFFS	4	
JPRDSCNT	10	0
JPRDSETS	0	
JPRDSINF	0	
JPRDSIZE	A	A
JPRDSLLEN	3A	3C
JPRDSTRT	A	
JPRDTYPE	2	
JPRDUNIT	2C	
JPRDVOL	34	
JPREYE	0	D1D7D9C8
JPRFLAG1	C	0
JPRGENI	0	
JPRGENSZ	10	12
JPRGLN	0	12
JPRGMD	3	
JPRGTY	2	
JPRHDR	0	
JPRHDSZ	10	14
JPRIDGEN	10	1
JPRIDPRF	10	0
JPRIMDSN	10	1
JPRIMGEN	10	0
JPRNXTP	C	
JPROC	0	
JPROPRF	8	14
JPRPREF	0	
JPRPRLN	0	
JPRPRMD	3	
JPRPRSZ	3	4
JPRPRTP	2	
JPRP1STA	C	80

Table 148. Cross Reference for IAZJPROC (continued)

Name	Offset	Hex Tag
JPRP1STC	C	40
JPRP1TS0	C	20

IAZJPROC mapping

Chapter 34. IAZJPSPL Information

IAZJPSPL Programming Interface Information

The following fields are NOT programming interface information:

- JPSPSTBG
- JPSPSTCP
- JPSPSTHL
- JPSPSTID
- JPSPSTNX
- JPSPSTOR
- JPSPSTPL
- JPSPSTRP
- JPSPSTSP
- JPSPSTTL
- JPSPUSER
- SPEGENIS
- SPEHDSZ
- SPEJ2AES
- SPEJ2AIS
- SPEJ2IS
- SPEJ2MIS
- SPEJ3IS
- SPPGENSZ
- SPPHDSZ
- SPPJ3SIZ

IAZJPSPL Heading Information

Common Name: JES Spool Information Parameter List
Macro ID: IAZJPSPL
DSECT Name: JPSP
Owning Component: JES Common (SC141)
Eye-Catcher ID: 'JPSP00LD'
Offset: JPSPSSID
Length: L'JPSPSSID
Storage Attributes: Subpool: Parameter List = Subpool of Caller
Output Data = Subpool 230
Key: Parameter List = Key of Caller
Output Data = Key 1
Residency: Virtual = 31 bit private storage
Real = 64 bit private storage
Size: See JPSPSZE
Created by: caller of SSI function 'SS0BSSJP' = 82
Pointed to by: SSJPUSE in the SS0B extension
Serialization: None

IAZJPSPL Heading Information

Function: This macro provides the mapping of the parameter list used by programs to request Spool Data from the JES subsystem.

IAZJPSPL mapping

Table 149. Structure JPSPL

Offset	Offset		Len	Name(Dim)	Description
Dec	Hex	Type			
0	(0)	STRUCTURE	0	JPSPL	
0	(0)	CHARACTER	8	JPSPSSID	I.Eye catcher
8	(8)	ADDRESS	2	JPSPLEN	I.Length of JPSPL parameter list
<p>There are two 2 byte versions for this SSOB extension. JPSPVER is the version provided by the caller. They indicate the level of the control block passed to the service. As new input fields are added to the service, the caller provided version indicates what the service is to consider valid.</p> <p>JPSPVER0 is the version information returned from the service. This implies what fields the service actually examined and what data is returned. If the service is at a level higher than the level of the caller, JPSPVER0 may be higher than JPSPVER. In this case, only the fields valid at the JPSPVER level are actually examined or set.</p> <p>The 2 bytes of version information is a 1 byte level number (changed only when a new release adds significant function) and a 1 byte modifier (changed only when function is added via service).</p>					
10	(A)	SIGNED	2	JPSPVER(0)	I.SSOB version
10	(A)	ADDRESS	1	JPSPVERL	I.SSOB version level
11	(B)	ADDRESS	1	JPSPVERM	I.SSOB version modifier
11	(B)	BITSTRING	0	JPSPV010	"X'0100'" Initial version number of IAZJPSPL.
11	(B)	BITSTRING	0	JPSPV011	"X'0101'" Active volume info.
11	(B)	BITSTRING	0	JPSPV020	"X'0200'" SPOOL Migration, additional active volume info.
11	(B)	BITSTRING	0	JPSPV021	"X'0201'" SPOOL migration, SPOOL migration planning data - may be optional
11	(B)	BITSTRING	0	JPSPSVR#	"X'0201'" Service version number of IAZJPSPL - Latest Version
11	(B)	X'2'	0	JPSPCVRL	"2" Current version level
11	(B)	X'1'	0	JPSPCVRM	"1" Current version modifier
12	(C)	SIGNED	2	JPSPVERO	O.Subsystem version/modifier
14	(E)	BITSTRING	2		Reserved.
16	(10)	SIGNED	4	JPSPUSER(0)	Placeholder. Do not use.
<p>JPSPSTRP is an anchor for use by the subsystem that responds to this request. It is expected that the caller will set this to zero the FIRST time an SSOB extension is used and from that point on it will be managed by the subsystem.</p>					
16	(10)	ADDRESS	4	JPSPSTRP	Storage management anchor. Points to a chain of JPSPSTOR structures.

Table 149. Structure JPSPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
Begin input-only fields.					
NOTES: - Many of the filters only apply to JES2 or JES3. Each filter is denoted with what applies.					
20	(14)	BITSTRING	1	JPSPPARF	IS.Partition Filters
		1... ..		JPSPFULL	"B'10000000'" Spool Partition is FULL (J3)
		.1.. ..		JPSPPNM	"B'01000000'" Use JPSPPNAM (partition name) as a filter (J3)
		..1.		JPSPALD	"B'00100000'" Partition Allocation Allowed (J3)
		...1		JPSPNALD	"B'00010000'" Partition Allocation Not Allowed (J3)
		.... 1..		JPSPLFTP	"B'00001000'" This partition is the default (J3)
		.... .1..		JSPIDTA	"B'00000100'" Initialization data exists on this partition (J3)
		.... ..1.		JPSPNOVF	"B'00000010'" This partition cannot overflow (J3)
		.... ...1		JSPPOVF	"B'00000001'" At least one other partition overflows into this one (J3)
		1111 1111		JPSPPAR3	"B'11111111'" All JES3 partition filters
21	(15)	BITSTRING	1	JPSPEFL1	IS.Extent Status Filters. Note that the status filters are an OR'ed group which are AND'ed with the other filters.
		1... ..		JPSPACT	"B'10000000'" Extent Active (J2 & J3)
		.1.. ..		JPSPSTRT	"B'01000000'" Extent Starting (J2)
		..1.		JSPDRN	"B'00100000'" Extent Draining (J2 & J3)
		...1		JSPHALT	"B'00010000'" Extent Halting (J2)
		.... 1..		JSPINAC	"B'00001000'" Extent Inactive (J2)
		.... .1..		JSPHLD	"B'00000100'" Extent Held (J3)
		.... ..1.		JSPBADT	"B'00000010'" Extent Bad Track (J3)
		.... ...1		JPSSTT	"B'00000001'" Extent STT (J3)
		1111 1..		JSPASJ2	"B'11111000'" All JES2 Status filters set.
		1.1. .111		JSPASJ3	"B'10100111'" All JES3 Status filters.
22	(16)	BITSTRING	1	JPSPEFL2	IS.Extent Filters
		1... ..		JSPEXI	"B'10000000'" Use JSPEXITI (extent ID) as a filter (J2 & J3)

IAZJPSP mapping

Table 149. Structure JPSP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		JPSPTGU	"B'01000000'" Use JPSPTGUT (track group utilization) as a filter (J2)
		..1.		JPSPTGM	"B'00100000'" Use JPSPTGMN (minimum total Track groups) as a filter (J2)
		...1		JPSPAMB	"B'00010000'" Use JPSPAMBR (JES2 affinity member name) as a filter (J2)
		.... 1...		JPSPASY	"B'00001000'" Use JPSPASYS (JES2 affinity MVS system name) as a filter (J2)
		1...		JPSPEF23	"B'10000000'" All JES3 filters in JPSPEFL2
23	(17)	BITSTRING	1	JPSPEFL3	IS.Extent Status Filters #2 Note that the status filters are an OR'ed group which are AND'ed with the other filters
		1...		JPSPXTND	"B'10000000'" Extent Extending (J2)
		.1..		JSPMIGR	"B'01000000'" Extent Migrating (J2)
		..1.		JSPMAPP	"B'00100000'" Extent Mapped (J2)
		111.		JPSPEF32	"B'11100000'" JES2 filters in JPSPEFL3
24	(18)	BITSTRING	1	JPSPFLG1	IS.Extent selection Flag:
		1...		JPSP1MGR	"B'10000000'" Migration planning info is not returned (J2)
25	(19)	BITSTRING	3		Reserved.
NOTE: Each filter below is enabled via one of the bit settings in JPSPEFL2					
28	(1C)	CHARACTER	8	JSPPPNAM	IS*.Partition Name filter. See JSPPPNM bit. (J3)
36	(24)	CHARACTER	8	JPSPEXTI	IS*.Extent Identifier Filter. This is the Volume Name in JES2 and the DDNAME in JES3. See JPSPEXI bit. (J2 & J3)
44	(2C)	CHARACTER	8	JPSPAMBR	IS*.JES2 Affinity member Name Filter. See JPSPAMB bit. (J2)
52	(34)	CHARACTER	8	JPSPASYS	IS*.JES2 Affinity MVS System Name Filter. See JPSPASY bit. (J2)
60	(3C)	SIGNED	4	JPSPTGUT	IS. Track Group utilization Filter. A percentage value from 1 to 100 is specified. Only extents with equal or greater utilization than the percentage value will be returned. See JPSPTGU bit. (J2)

Table 149. Structure JPSPL (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
64	(40)	SIGNED		4	JPSPTGMN	IS. Minimum Number of Track Groups Filter. Only extents with equal or greater total TGs than the minimum value specified will be returned. See the the JPSPTGM bit (J2)
68	(44)	SIGNED		4	(10)	Reserved for future use
Begin output-only fields.						
108	(6C)	ADDRESS		4	JPSPLPTR	0.Pointer to first Partition (SPPHDR) data buffer. See output data discussion below for layout.
112	(70)	SIGNED		4	JPSNPAR	0.Number of Partition (SPPHDR) data buffers returned.
116	(74)	SIGNED		4		Reserved for future use
120	(78)	SIGNED		8	JPSPTGT	0.Total Track Groups - Partition Rollup.
128	(80)	SIGNED		8	JPSPTGIU	0.Total Track Groups In Use - Partition Rollup.
136	(88)	SIGNED		8	JPSPTKT	0.Total Tracks - Partition Rollup
144	(90)	SIGNED		8	JPSPTKU	0.Total Tracks In Use - Partition Rollup.
152	(98)	SIGNED		8	JPSPTGAT	0.Total Active Track Groups - Partition Rollup.
160	(A0)	SIGNED		8	JPSPTGAI	0.Total Active Track Groups In Use -Partition Rollup
168	(A8)	SIGNED		8	JPSPTKAT	0.Total Active Tracks - Partition Rollup
176	(B0)	SIGNED		8	JPSPTKAU	0.Total Active Tracks In Use - Partition Rollup.
184	(B8)	SIGNED		4	(2)	Reserved for future use
184	(B8)	X'C0'		0	JPSPSZE1	"*-JPSPL" Fix parameter End: Ver 1
184	(B8)	X'C0'		0	JPSPSZE2	"*-JPSPL" Fix parameter End: Ver 2
184	(B8)	X'C0'		0	JPSPSZE	"*-JPSPL" JPSPL Current version fixed parameter length

Table 150. Structure JPSPSTOR

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
0	(0)	STRUCTURE		0	JPSPSTOR	, Storage management DSECT
0	(0)	CHARACTER		8	JPSPSTID	Eyecatcher
8	(8)	ADDRESS		2	JPSPSTHL	Length of header area
10	(A)	ADDRESS		2		Reserved for future use
12	(C)	BITSTRING		1	JPSPSTSP	Subpool of area
12	(C)	X'E6'		0	JPSPSTPL	"230" Recommended subpool to use
13	(D)	ADDRESS		3	JPSPSTTL	Total length of area (this includes the header)
16	(10)	ADDRESS		4	JPSPSTNX	Pointer to next area

IAZJPSP mapping

Table 150. Structure JPSPSTOR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
20	(14)	ADDRESS	4	JPSPSTCP	Pointer to 1st available byte in this area
24	(18)	ADDRESS	4	JPSPSTBG(0)	Start of data area

Table 151. Structure SPPHDR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SPPHDR	, Partition Header Section
0	(0)	CHARACTER	8	SPPEYE	Eye catcher
8	(8)	ADDRESS	2	SPPOPRF	Offset to prefix section
10	(A)	BITSTRING	2		Reserved for future use
12	(C)	ADDRESS	4	SPPNXTTP	Address of next Partition
16	(10)	ADDRESS	4	SPPFRSTE	Address of first extent
20	(14)	ADDRESS	4		Reserved for future use
20	(14)	X'18'	0	SPPHDSZ	"*-SPPHDR" Size of this section
Spool Partition Section Identifiers					
		....	....	SPPIDPRF	"X'00'" Partition Info - Prefix
		....	...1	SPPIDGEN	"X'01'" Partition Info - General
		....	..11	SPPIDJS3	"X'03'" Partition Info - JES3
Spool Partition Section Modifiers					
		....	....	SPPIMGEN	"X'00'" Modifier - General

Table 152. Structure SPPPREF

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SPPPREF	, Spool Partition Prefix
0	(0)	ADDRESS	2	SPPPRLN	Length of entire Partition entry (Max value is 65535) returned - other than hdr
2	(2)	ADDRESS	1	SPPPRTP	Type = Prefix Section
3	(3)	ADDRESS	1	SPPPRMD	Type Mod = General
3	(3)	X'4'	0	SPPPRSZ	"*-SPPPREF" Size of this section

Table 153. Structure SPPGENI

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SPPGENI	, Spool partition General Information.
0	(0)	ADDRESS	2	SPPGLN	Length of this section
2	(2)	ADDRESS	1	SPPGTY	Type = General Info
3	(3)	ADDRESS	1	SPPGMD	Type Mod = General
4	(4)	SIGNED	4		Reserved for future use
8	(8)	CHARACTER	8	SPPGNM	Partition Name (blank for JES2, set for JES3).
16	(10)	SIGNED	8	SPPGTGT	Total Track Groups - Extent Rollup.
24	(18)	SIGNED	8	SPPGTGU	Total Track Groups In Use - Extent Rollup.

Table 153. Structure SPPGENI (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
32	(20)	SIGNED		8	SPPGTKT	Total Tracks - Extent Rollup
40	(28)	SIGNED		8	SPPGTKU	Total Tracks In Use - Extent Rollup.
48	(30)	BITSTRING	1... ..	1	SPPGFLG1	Partition Indicators: "B'10000000'" ON = No free space currently exists in the partition. "B'01000000'" ON = Active extents exist in the partition. "B'00100000'" ON = Some extents have space available that isn't currently utilized (for JES2, some extents are 'stunted').
			.1.. ..		SPPGACTV	
			..1.		SPPGALOC	
49	(31)	BITSTRING		7		Reserved for future use
56	(38)	SIGNED		8	SPPGTGAT	Total Active Track Groups - Extent Rollup.
64	(40)	SIGNED		8	SPPGTGAU	Total Active Track Groups In Use - Extent Rollup.
72	(48)	SIGNED		8	SPPGTKAT	Total Active Tracks - Extent Rollup
80	(50)	SIGNED		8	SPPGTKAU	Total Active Tracks In Use - Extent Rollup.
80	(50)	X'58'		0	SPPGENSZ	"*-SPPGENI" Size of this section

Table 154. Structure SPPJES3I

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
0	(0)	STRUCTURE		0	SPPJES3I	, Spool partition JES3 specific Information
0	(0)	ADDRESS		2	SPP3LN	Length of this section
2	(2)	ADDRESS		1	SPP3TY	Type = JES3 Info
3	(3)	ADDRESS		1	SPP3MD	Type Mod = General
4	(4)	CHARACTER		8	SPP3OPAR	Overflow partition Name.
12	(C)	BITSTRING	1... ..	1	SPP3STSF	Partition Status Flags "B'10000000'" Partition Allocation Allowed "B'01000000'" This partition is the default "B'00100000'" Initialization data exists on this partition "B'00010000'" This partition has overflowed into another partition "B'00001000'" At least 1 other partition may overflow into this partition. "B'00000100'" This partition may overflow into another partition.
			.1.. ..		SPP3DFTP	
			..1.		SPP3IDTA	
			...1		SPP3OVER	
			.... 1...		SPP3POVI	
	.... .1..	SPP3POVO				
13	(D)	BITSTRING	1... ..	1	SPP3THRF	Partition Threshold Flags "B'10000000'" Marginal thrshold exceeded "B'01000000'" Minimal threshold exceeded
			.1.. ..		SPP3MRG	
			.1.. ..		SPP3MIN	

IAZJPSP mapping

Table 154. Structure SPPJES3I (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
14	(E)	BITSTRING	1	SPP3MRGP	Marginal SLIM threshold percentage
15	(F)	BITSTRING	1	SPP3MINP	Minimal SLIM threshold percentage
16	(10)	BITSTRING	4		Reserved for future use
16	(10)	X'14'	0	SPPJ3SIZ	"*-SPPJES3I" Size of this section

Table 155. Structure SPEHDR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SPEHDR	, Extent Header Section
0	(0)	CHARACTER	8	SPEEYE	Eye catcher
8	(8)	ADDRESS	2	SPEOPRF	Offset to extent prefix section.
10	(A)	BITSTRING	2		Reserved for future use
12	(C)	ADDRESS	4	SPENXTE	Address of next Extent header
16	(10)	ADDRESS	4		Reserved for future use
16	(10)	X'14'	0	SPEHDSZ	"*-SPEHDR" Size of this section

Spool Extent Section Identifiers

1...	....	SPEIDPRF	"X'80'"	Extent Info - Prefix
1...	...1	SPEIDGEN	"X'81'"	Extent Info - General
1...	..1.	SPEIDJS2	"X'82'"	Extent Info - JES2
1...	..11	SPEIDJS3	"X'83'"	Extent Info - JES3

Spool Extent Section Modifiers

1...	....	SPEIMGEN	"X'80'"	Modifier - General
1...	..1.	SPEIMJ2A	"X'82'"	Modifier - JES2 Affinity
1...	..11	SPEIMJ2M	"X'83'"	Modifier - JES2 Active SPOOL Migration

Table 156. Structure SPEPREF

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SPEPREF	, Spool Extent Prefix
0	(0)	ADDRESS	2	SPEPRLN	Length of entire Extent entry (Max value is 65535) returned - other than hdr
2	(2)	ADDRESS	1	SPEPRTF	Type = Prefix Section
3	(3)	ADDRESS	1	SPEPRMD	Type Mod = General
3	(3)	X'4'	0	SPEPRSZ	"*-SPEPREF" Size of this section

Table 157. Structure SPEGENI

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SPEGENI	, Spool extent General Information.
0	(0)	ADDRESS	2	SPEGLN	Length of this section
2	(2)	ADDRESS	1	SPEPTY	Type = General Info
3	(3)	ADDRESS	1	SPEGMD	Type Mod = General

Table 157. Structure SPEGENI (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	CHARACTER	12	SPEGSTS	Extent Status string. The following are examples of what this field can contain: - 'ACTIVE ' - 'ACTIVE-RSVD ' - 'STARTING ' - 'HALTING ' - 'DRAINING ' - 'INACTIVE ' - 'HELD ' (JES3 ONLY) - 'EXTENDING ' - 'MIGRATING ' - 'MAPPED '
16	(10)	SIGNED	1	SPEGSTSB	Extent Status byte. Contains one of the following values that will match the Extent Status string above:
16	(10)	X'1'	0	SPEGACT	"1" - ACTIVE Status
16	(10)	X'2'	0	SPEGSTRT	"2" - STARTING Status
16	(10)	X'3'	0	SPEGHALT	"3" - HALTING Status
16	(10)	X'4'	0	SPEGDRN	"4" - DRAINING Status
16	(10)	X'5'	0	SPEGINAC	"5" - INACTIVE Status
16	(10)	X'6'	0	SPEGHELD	"6" - HELD Status (JES3 ONLY)
16	(10)	X'7'	0	SPEGXTND	"7" - EXTENDING Status
16	(10)	X'8'	0	SPEGMIGR	"8" - MIGRATING Status
16	(10)	X'9'	0	SPEGMAPP	"9" - MAPPED Status
17	(11)	BITSTRING	1	SPEGFLG1	Extent General Status Flags
		1... ..		SPEGNRML	"B'10000000'" ON = Extent in 'normal' (ACTIVE) status.
		.1.. ..		SPEGRSVD	"B'01000000'" ON = Extent is 'Reserved' meaning it is selectable but not allocatable
		..1.		SPEGNSEL	"B'00100000'" ON = Work on this extent is not selectable
18	(12)	BITSTRING	1	SPEGPCRC	Percent complete for command in progress, if available
19	(13)	BITSTRING	1		Reserved
20	(14)	CHARACTER	8	SPEGEXTI	Extent Identifier. This is the Volume Name in JES2 and the DDNAME in JES3.
28	(1C)	CHARACTER	44	SPEGDSNM	Data Set Name on which this extent physically resides
72	(48)	SIGNED	8	SPEGTGT	Total Track Groups
80	(50)	SIGNED	8	SPEGTGU	Total Track Groups In Use
88	(58)	SIGNED	8	SPEGTTRK	Total Tracks
96	(60)	SIGNED	8	SPEGTTKU	Total Tracks In Use
104	(68)	ADDRESS	4	SPEGLCYL	Low Cylinder. Note that this is a 'normalized' value (cccCC).
108	(6C)	ADDRESS	4	SPEGLHED	Low Head
112	(70)	CHARACTER	6	SPEGLMTR	Low MQTR value for JES2 Low MMRRRR value for JES3
112	(70)	X'70'	0	SPEGLMM	"SPEGLMTR,2" Defines JES3 extent number
112	(70)	X'72'	0	SPEGLRRN	"SPEGLMTR+2,4" Defines JES3 record number
118	(76)	BITSTRING	2		Reserved
120	(78)	ADDRESS	4	SPEGHCYL	High Cylinder. Note that this is a 'normalized' value (cccCC).
124	(7C)	ADDRESS	4	SPEGHED	High Head

IAZJPSPL mapping

Table 157. Structure SPEGENI (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
128	(80)	CHARACTER	6	SPEGHMTR	High MQTR value for JES2 High MRRRRR value for JES3
128	(80)	X'80'	0	SPEGHMM	"SPEGHMTR,2" Defines JES3 extent number
128	(80)	X'82'	0	SPEGHRRN	"SPEGHMTR+2,4" Defines JES3 record number
134	(86)	BITSTRING	2		Reserved
136	(88)	ADDRESS	4	SPEGTPCY	Tracks Per Cylinder
140	(8C)	ADDRESS	2	SPEGRPTK	Records Per Track
142	(8E)	ADDRESS	2	SPEGTPTG	Tracks Per Track Group
144	(90)	ADDRESS	2	SPEGEXTN	Extent Number
146	(92)	CHARACTER	6	SPEGVSER	VOLSER where this extent's data set resides
152	(98)	SIGNED	8	SPEGLTRK	Low Track Number
160	(A0)	SIGNED	8	SPEGHTRK	High Track Number
160	(A0)	X'A8'	0	SPEGENIS	"*-SPEGENI" Size of this section

Table 158. Structure SPEJ2I

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SPEJ2I	, Spool Extent JES2 specific Information
0	(0)	ADDRESS	2	SPE2LN	Length of this section
2	(2)	ADDRESS	1	SPE2TY	Type = JES2 Info
3	(3)	ADDRESS	1	SPE2MD	Type Mod = General
4	(4)	CHARACTER	12	SPE2CMD	Current Command string. The following are examples of what this field can contain: - 'START ' - 'FORMAT ' - 'HALT ' - 'DRAIN ' - 'EXTEND ' - 'MIGRATE ' - blank if no active command.
16	(10)	SIGNED	1	SPE2CMDB	Current Command byte. Contains one of the following values that will match the Current Command string above:
16	(10)	X'0'	0	SPE2NCMD	"0" - No Command Active
16	(10)	X'1'	0	SPE2STRT	"1" - START command
16	(10)	X'2'	0	SPE2FRMT	"2" - FORMAT commands
16	(10)	X'3'	0	SPE2HALT	"3" - HALT command
16	(10)	X'4'	0	SPE2DRN	"4" - DRAIN command
16	(10)	X'5'	0	SPE2XTND	"5" - EXTEND command
16	(10)	X'6'	0	SPE2MIGR	"6" - MIGRATE command
17	(11)	BITSTRING	1	SPE2FLG1	Extent Status Indicators:
		1...		SPE2STNT	"B'10000000'" Stunted Indicator: ON = This extent is stunted.
		.1...		SPE2ALLM	"B'01000000'" All members Have Affinity: ON = ALL members have affinity to this volume. The Affinity Array sections do NOT exist. OFF = SOME members have affinity to this volume. The Affinity Array sections DO exist.

Table 158. Structure SPEJ2I (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1.		SPE2MAPT	"B'00100000'" This extent is a target of MAPPED extents
		...1		SPE2ACTM	"B'00010000'" This extent is either the source or target of an active migration. Section SPEJ2MI has the details.
18	(12)	BITSTRING	6		Reserved
24	(18)	SIGNED	8	SPE2LFTK	Largest number of contiguous free tracks
32	(20)	SIGNED	8	SPE2HTRK	Highest used track relative to the start of the data set
40	(28)	CHARACTER	8	SPE2TARG	Target Extent Identifier. This is the Volume Name in JES2 where this extent is migrating to/has migrated to.
40	(28)	X'30'	0	SPEJ2IS	"*-SPEJ2I" Size of this section

Table 159. Structure SPEJ2AI

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SPEJ2AI	, Spool Extent JES2 Affinity specific Information
0	(0)	ADDRESS	2	SPE2ALN	Length of this section
2	(2)	ADDRESS	1	SPE2ATY	Type = JES2 Info
3	(3)	ADDRESS	1	SPE2AMD	Type Mod = JES2 Affinity
4	(4)	ADDRESS	2	SPE2ANUM	Number of entries in the Affinity Array. Note that this can be ZERO in situations when no members match the selection filters.
6	(6)	ADDRESS	2	SPE2ALEN	Length of an entry in the Affinity Array
6	(6)	X'8'	0	SPEJ2AIS	"*-SPEJ2AI" Size of this section

Table 160. Structure SPEJ2AE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SPEJ2AE	, Spool Extent JES2 Affinity Array Entry
0	(0)	CHARACTER	8	SPE2EMBR	JES2 member Name
8	(8)	CHARACTER	8	SPE2ESYS	MVS System Name
8	(8)	X'10'	0	SPEJ2AES	"*-SPEJ2AE" Size of a JES2 Affinity Array Entry

Table 161. Structure SPEJ2MI

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SPEJ2MI	, Spool Extent Active Migration JES2 specific information
0	(0)	ADDRESS	2	SPE2MLN	Length of this section
2	(2)	ADDRESS	1	SPE2MTY	Type = JES2 Info

IAZJP SPL mapping

Table 161. Structure SPEJ2MI (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
3	(3)	ADDRESS	1	SPE2MMD	Type Mod = JES2 Migration
4	(4)	BITSTRING	1	SPE2MFG1	Extent Active Migration Indicators
		1... ..		SPE2M1SR	"B'10000000'" Extent is source of migration
		.1.. ..		SPE2M1TG	"B'01000000'" Extent is target of migration
		..1.		SPE2M1MV	"B'00100000'" MOVE migration
		...1		SPE2M1MG	"B'00010000'" MERGE migration
		.... 1..		SPE2NCAN	"B'00001000'" Migration cannot be cancelled
		.... .1..		SPE2MERR	"B'00000100'" Migration failed and is being cleaned up

The following fields are only valid if SPE2M1SR is ON. They document where the source extent is migrating to.

5	(5)	CHARACTER	12	SPE2MPH	Migration Phase string. The following indicate what this field can contain: - 'PENDING ' - 'INITIALIZING' - 'SETUP ' - 'COPY ' - 'CATCHUP ' - 'CANCEL ' - 'BACKOUT ' - 'CLEANUP ' - blank if no active migration phase
17	(11)	SIGNED	1	SPE2MPHB	Migration phase byte. Contains one of the following values that will match the Migration Phase string above:
17	(11)	X'0'	0	SPE2NOMG	"0" - No Migration active
17	(11)	X'A'	0	SPE2MPND	"10" - PENDING phase
17	(11)	X'14'	0	SPE2MINI	"20" - INITIALIZING phase
17	(11)	X'1E'	0	SPE2MSET	"30" - SETUP phase
17	(11)	X'28'	0	SPE2MCPY	"40" - COPY phase
17	(11)	X'32'	0	SPE2MCUP	"50" - CATCHUP phase
17	(11)	X'3C'	0	SPE2MCAN	"60" - CANCEL phase
17	(11)	X'46'	0	SPE2MBAK	"70" - BACKOUT phase
17	(11)	X'50'	0	SPE2MCLN	"80" - CLEANUP phase
18	(12)	CHARACTER	8	SPE2MMGR	Migrator JES2 MAS member name
26	(1A)	CHARACTER	6	SPE2MVSR	Target extent VOLSER where the current extent is migrating to
32	(20)	CHARACTER	44	SPE2MDSN	Target extent SPOOL data set name where the current extent is migrating to
32	(20)	X'4C'	0	SPEJ2MIS	"*-SPEJ2MI" Size of this section

Table 162. Structure SPEJ3I

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SPEJ3I	, Spool Extent JES3 specific Information
0	(0)	ADDRESS	2	SPE3LN	Length of this section
2	(2)	ADDRESS	1	SPE3TY	Type = JES3 Info

Table 162. Structure SPEJ3I (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
3	(3)	ADDRESS		1	SPE3MD	Type Mod = General
4	(4)	ADDRESS		2	SPE3RCSZ	Extent record size
6	(6)	BITSTRING		1	SPE3FLG1	Extent Status Indicators:
			1... ..		SPE3STRK	"B'10000000'" ON = Single Track Table
			.1... ..		SPE3BTRK	"B'01000000'" ON = Contains bad track
7	(7)	BITSTRING		1		Reserved for future use
7	(7)	X'8'		0	SPEJ3IS	"*-SPEJ3I" Size of this section

Table 163. Cross Reference for IAZJPSPL

Name	Offset	Hex Tag
JPS Pact	15	80
JPS PALD	14	20
JPS PAMB	16	10
JPS PAMBR	2C	
JPS PASJ2	15	F8
JPS PASJ3	15	A7
JPS PASY	16	8
JPS PASYS	34	
JPS PBADT	15	2
JPS PCVRL	B	2
JPS PCVRM	B	1
JPS PDRN	15	20
JPS PEFL1	15	
JPS PEFL2	16	
JPS PEFL3	17	
JPS PEF23	16	80
JPS PEF32	17	E0
JPS PEXI	16	80
JPS PEXTI	24	
JPS PFLG1	18	
JPS PFULL	14	80
JPS PHALT	15	10
JPS PHLD	15	4
JPS PIDTA	14	4
JPS PINAC	15	8
JPS PL	0	
JPS PLEN	8	
JPS PLFTP	14	8
JPS PLPTR	6C	
JPS PMAPP	17	20
JPS PMIGR	17	40
JPS PNALD	14	10
JPS PNOVF	14	2
JPS PNPARG	70	
JPS PPARF	14	
JPS PPAR3	14	FF

IAZJPSPL mapping

Table 163. Cross Reference for IAZJPSPL (continued)

Name	Offset	Hex Tag
JPSPPNAM	1C	
JPSPPNM	14	40
JPSPOVVF	14	1
JPSPSSID	0	
JPSPSTBG	18	
JPSPSTCP	14	
JPSPSTHL	8	
JPSPSTID	0	D1D7E2D7
JPSPSTNX	10	
JPSPSTOR	0	
JPSPSTPL	C	E6
JPSPSTRP	10	
JPSPSTRT	15	40
JPSPSTSP	C	
JPSPSTT	15	1
JPSPSTTL	D	
JSPSVR#	B	201
JSPSZE	B8	C0
JSPSZE1	B8	C0
JSPSZE2	B8	C0
JSPSTGAI	A0	0
JSPSTGAT	98	0
JSPSTGIU	80	0
JSPSTGM	16	20
JSPSTGMN	40	0
JSPSTGT	78	0
JSPSTGU	16	40
JSPSTGUT	3C	0
JSPSTKAT	A8	0
JSPSTKAU	B0	0
JSPSTKT	88	0
JSPSTKU	90	0
JSPUSER	10	
JSPVER	A	
JSPVERL	A	
JSPVERM	B	
JSPVERO	C	0
JSPV010	B	100
JSPV011	B	101
JSPV020	B	200
JSPV021	B	201
JPSPXTND	17	80
JSP1MGR	18	80
SPEEYE	0	E2D7D6D6
SPEGACT	10	1
SPEGDRN	10	4
SPEGDSNM	1C	
SPEGENI	0	
SPEGENIS	A0	A8

Table 163. Cross Reference for IAZJPSPL (continued)

Name	Offset	Hex Tag
SPEGEXTI	14	
SPEGEXTN	90	
SPEGFLG1	11	
SPEGHALT	10	3
SPEGHCYL	78	
SPEGHELD	10	6
SPEGHHED	7C	
SPEGHMM	80	80
SPEGHMTR	80	
SPEGHRRN	80	82
SPEGHTRK	A0	0
SPEGINAC	10	5
SPEGLCYL	68	
SPEGLHED	6C	
SPEGLMM	70	70
SPEGLMTR	70	
SPEGLN	0	A8
SPEGLRRN	70	72
SPEGLTRK	98	0
SPEGMAPP	10	9
SPEGMD	3	
SPEGMIGR	10	8
SPEGNRML	11	80
SPEGNSEL	11	20
SPEGPCRC	12	
SPEGRPTK	8C	
SPEGRSVD	11	40
SPEGSTRT	10	2
SPEGSTS	4	
SPEGSTSB	10	
SPEGTGT	48	0
SPEGTGU	50	0
SPEGTPCY	88	
SPEGTPTG	8E	
SPEGTTKU	60	0
SPEGTTTRK	58	0
SPEGTY	2	
SPEGVSER	92	
SPEGXTND	10	7
SPEHDR	0	
SPEHDSZ	10	14
SPEIDGEN	10	81
SPEIDJS2	10	82
SPEIDJS3	10	83
SPEIDPRF	10	80
SPEIMGEN	10	80
SPEIMJ2A	10	82
SPEIMJ2M	10	83
SPEJ2AE	0	

IAZJPSPL mapping

Table 163. Cross Reference for IAZJPSPL (continued)

Name	Offset	Hex Tag
SPEJ2AES	8	10
SPEJ2AI	0	
SPEJ2AIS	6	8
SPEJ2I	0	
SPEJ2IS	28	30
SPEJ2MI	0	
SPEJ2MIS	20	4C
SPEJ3I	0	
SPEJ3IS	7	8
SPENXTE	C	
SPE0PRF	8	14
SPEPREF	0	
SPEPRLN	0	
SPEPRMD	3	
SPEPRSZ	3	4
SPEPRTP	2	
SPE2ACTM	11	10
SPE2ALEN	6	
SPE2ALLM	11	40
SPE2ALN	0	8
SPE2AMD	3	
SPE2ANUM	4	
SPE2ATY	2	
SPE2CMD	4	
SPE2CMDB	10	
SPE2DRN	10	4
SPE2EMBR	0	
SPE2ESYS	8	
SPE2FLG1	11	
SPE2FRMT	10	2
SPE2HALT	10	3
SPE2HTRK	20	0
SPE2LFTK	18	0
SPE2LN	0	30
SPE2MAPT	11	20
SPE2MBAK	11	46
SPE2MCAN	11	3C
SPE2MCLN	11	50
SPE2MCPY	11	28
SPE2MCUP	11	32
SPE2MD	3	
SPE2MDSN	20	40404040
SPE2MERR	4	4
SPE2MFG1	4	
SPE2MIGR	10	6
SPE2MINI	11	14
SPE2MLN	0	4C
SPE2MMD	3	
SPE2MMGR	12	

Table 163. Cross Reference for IAZJPSPL (continued)

Name	Offset	Hex Tag
SPE2MPH	5	
SPE2MPHB	11	
SPE2MPND	11	A
SPE2MSET	11	1E
SPE2MTY	2	
SPE2MVS	1A	
SPE2M1MG	4	10
SPE2M1MV	4	20
SPE2M1SR	4	80
SPE2M1TG	4	40
SPE2NCAN	4	8
SPE2NCMD	10	0
SPE2NOMG	11	0
SPE2STNT	11	80
SPE2STRT	10	1
SPE2TARG	28	
SPE2TY	2	
SPE2XTND	10	5
SPE3BTRK	6	40
SPE3FLG1	6	
SPE3LN	0	8
SPE3MD	3	
SPE3RCSZ	4	
SPE3STRK	6	80
SPE3TY	2	
SPPEYE	0	E2D7D6D6
SPPFRSTE	10	
SPPGACTV	30	40
SPPGALOC	30	20
SPPGENI	0	
SPPGENSZ	50	58
SPPGFLG1	30	
SPPGLN	0	58
SPPGMD	3	
SPPGNM	8	
SPPGNSPC	30	80
SPPGTGAT	38	0
SPPGTGAU	40	0
SPPGTGT	10	0
SPPGTGU	18	0
SPPGTKAT	48	0
SPPGTKAU	50	0
SPPGTKT	20	0
SPPGTKU	28	0
SPPGTY	2	
SPPHDR	0	
SPPHDSZ	14	18
SPPIDGEN	14	1
SPPIDJS3	14	3

IAZJPSPL mapping

Table 163. Cross Reference for IAZJPSPL (continued)

Name	Offset	Hex Tag
SPPIDPRF	14	0
SPPIMGEN	14	0
SPPJES3I	0	
SPPJ3SIZ	10	14
SPPNXTP	C	
SPP0PRF	8	18
SPPREF	0	
SPPRLN	0	
SPPRMD	3	
SPPRSZ	3	4
SPPRTP	2	
SPP3ALD	C	80
SPP3DFTP	C	40
SPP3IDTA	C	20
SPP3LN	0	14
SPP3MD	3	
SPP3MIN	D	40
SPP3MINP	F	0
SPP3MRG	D	80
SPP3MRGP	E	0
SPP3OPAR	4	
SPP3OVER	C	10
SPP3POVI	C	8
SPP3POVO	C	4
SPP3STSF	C	
SPP3THRF	D	
SPP3TY	2	

Chapter 35. IAZLGDDF Information

IAZLGDDF Programming Interface Information

IAZLGDDF is a programming interface.

IAZLGDDF Heading Information

Common Name: Parameter list used by the EVENTLOG data service IAZLGDT.
 Macro ID: IAZLGDDF
 DSECT Name: LGDTPLST
 Owing Component: JES2 (SC1BH)
 Eye-Catcher ID: 'LGDTPLST'
 Offset: LGDEYE
 Length: L'LGDEYE
 Storage Attributes: Subpool: determined by caller of the service
 Key: determined by caller of the service
 Residency: Virtual - anywhere is 31-bit storage
 Real - anywhere in 64 bit storage
 Size: See LGDLEN
 Created by: IAZLGDDF macro invocation by caller
 Pointed to by: Register one when branching to IAZLGDT service module
 Serialization: None required
 Function: Defines the parameters for issuing a write or read record request. The storage includes the input parameters to the EVENTLOG data service.

IAZLGDDF mapping

Table 164. Structure LGDTPLST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	LGDTPLST	, EVENTLOG data service req
0	(0)	CHARACTER	8	LGDEYE	Eyecatcher
8	(8)	SIGNED	4	LGDLEN	Length of parameter list
12	(C)	BITSTRING	1	LGDFUNC	Function to perform
12	(C)	X'1'	0	LGDWRITE	"1" Write the log record
13	(D)	BITSTRING	1	LGDLLEVEL	Level of data requested REQUIRED level (first two bits are OFF)
		.... ....		LGDLREQD	"B'00000000'" REQUIRED level
		1...		LGDLSTND	"B'10000000'" STANDARD level
		.1..		LGDLVERB	"B'01000000'" VERBOSE level
		..11 1111		LGDLBADB	"B'00111111'" Invalid level bit settings If a new level is defined its corresponding bit in LGDLBADB should be set to 0
14	(E)	BITSTRING	2	LGDRTYP	EVENTLOG record type
14	(E)	X'E'	0	LGDRTYPT	"LGDRTYP,1,C'A'" - record type
14	(E)	X'F'	0	LGDRTYPS	"LGDRTYP+1,1,C'A'" - record subtype
16	(10)	SIGNED	4	LGDDLEN	Length of log data

IAZLGDDF mapping

Table 164. Structure LGDTPLST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
20	(14)	SIGNED	4	LGDWALEN	Length of user supplied work area. Should be LGSSIZE+length of log data+ length of LGPREFIX in macro IAZLGINF
24	(18)	ADDRESS	8	LGDDATAP	Address of log data
24	(18)	X'1C'	0	LGDDATA4	"LGDDATAP+4,4,C'A'" 31-bit part of address
32	(20)	ADDRESS	8	LGWORKP	Address of work area
32	(20)	X'24'	0	LGWORK4	"LGWORKP+4,4,C'A'" 31-bit part of address
40	(28)	SIGNED	4	LGDRETCD	Overall return code
		.... ....		LGDRSUCC	"X'00'" Successful completion.
		.... .1..		LGDRNOTW	"X'04'" Record not written.
		.... 1...		LGDRNOST	"X'08'" No storage available for work area
		...1		LGDRBADP	"X'10'" Parameter list address or length is zero
		...1 .1..		LGDRERR	"X'14'" Request not processed due to error
		...1 1...		LGDRBADF	"X'18'" Invalid function requested
		...1 11..		LGDRNACB	"X'1C'" ACB for the data set not found
		..1.		LGDRNOUT	"X'20'" Log data pointer or length is zeroes
		..1. .1..		LGDRINWA	"X'24'" Insufficient space in caller supplied work area
		..1. 1...		LGDRMAXL	"X'28'" Log data length > maximum
		..1. 11..		LGDRLHLD	"X'2C'" Local lock already held
		..11		LGDRFRR	"X'30'" FRR active, request failed
		..11 .1..		LGDRBADT	"X'34'" Bad record type
		..11 1...		LGDRBADL	"X'38'" Bad level indicator
		..11 11..		LGDRNAUT	"X'3C'" Not running authorized
		.1..		LGDRABND	"X'40'" ABEND occurred proc request
		.1.. .1..		LGDRRECS	"X'44'" Record type(s) are being suppressed
44	(2C)	SIGNED	4	LGDRREQSZ	Size of user supplied work area required.
44	(2C)	X'30'	0	LGDTPLN	"*-LGDTPLST" Length of LGDTPLST DSECT
44	(2C)	X'7FF0'	0	LGDLRMXL	"32752" Max size log data record
EVENTLOG record types recognized by the EVENTLOG data service IAZLGDT, converted to numeric equivalents					
44	(2C)	X'1'	0	LGDTSMF	"01" SMF record type
44	(2C)	X'2'	0	LGDTSTEP	"02" Step Completion Code record type
44	(2C)	X'3'	0	LGDRST	"03" Job restart record type
44	(2C)	X'4'	0	LGDTTRC	"04" Trace record type
44	(2C)	X'5'	0	LGDTUSER	"05" User record type

Table 165. Cross Reference for IAZLGDDF

Name	Offset	Hex Tag
LGDDATAP	18	
LGDDATA4	18	1C
LGDDLEN	10	
LGDEYE	0	
LGDFUNC	C	
LGDLBADB	D	3F
LGDLLEN	8	
LGDLEVEL	D	
LGDLREQD	D	0
LGDLRML	2C	7FF0
LGDLSTND	D	80
LGDLVERB	D	40
LGDRABND	28	40
LGDRBADF	28	18
LGDRBADL	28	38
LGDRBADP	28	10
LGDRBADT	28	34
LGDRREQSZ	2C	
LGDRERR	28	14
LGDRETCD	28	
LGDRFRR	28	30
LGDRINWA	28	24
LGDRLHLD	28	2C
LGDRMAXL	28	28
LGDRNACB	28	1C
LGDRNAUT	28	3C
LGDRNOST	28	8
LGDRNOTW	28	4
LGDRNOUT	28	20
LGDRRECS	28	44
LGDRSUCC	28	0
LGDRTYP	E	
LGDRTYPS	E	F
LGDRTYPT	E	E
LGDTPLN	2C	30
LGDTPLST	0	
LGDRST	2C	3
LGDTSMF	2C	1
LGDTSTEP	2C	2
LGDTTRC	2C	4
LGDTUSER	2C	5
LGDWALEN	14	
LGDWORKE	20	
LGDWORKE4	20	24
LGDWORKE	C	1

IAZLGDDF mapping

Chapter 36. IAZLGINF Information

IAZLGINF Programming Interface Information

IAZLGINF is a programming interface.

IAZLGINF Heading Information

Common Name: JES EVENTLOG record prefix
 Macro ID: IAZLGINF
 DSECT Name: IAZLGINF
 Owning Component: JES Common (SC141)
 Eye-Catcher ID: none
 Storage Attributes: Subpool: Caller
 Key: Any
 Residency: Virtual and real storage are anywhere.
 Size: variable
 Created by: IAZLGDAT invocation
 Pointed to by: not applicable
 Serialization: None required
 Function: This macro maps the prefix of a record written to the EVENTLOG data set. The IAZLGDT service uses this mapping.

IAZLGINF mapping

Table 166. Structure IAZLGINF

Offset	Offset		Len	Name(Dim)	Description
Dec	Hex	Type			
0	(0)	STRUCTURE	0	IAZLGINF	
0	(0)	BITSTRING	8	LGPREFIX(0)	Full EVENTLOG record prefix
0	(0)	BITSTRING	1	LGPLENG	Record prefix length
1	(1)	BITSTRING	2	LGPRLN	EVENTLOG record length, excluding the prefix
3	(3)	BITSTRING	2	LGPRTYP	EVENTLOG record type
3	(3)	X'3'	0	LGPRTYPT	"LGPRTYP,1,C'A'" - record type
3	(3)	X'4'	0	LGPRTYPS	"LGPRTYP+1,1,C'A'" - record subtype
5	(5)	BITSTRING	1	LGPFLAG	EVENTLOG record flags REQUIRED record (first two bits are OFF)
		1... ..		LGP1STND	"B'1000000'" STANDARD record
		.1... ..		LGP1VERB	"B'0100000'" VERBOSE record
6	(6)	BITSTRING	2		Reserved
6	(6)	X'8'	0	LGPRFLN	"*-IAZLGINF" Length of prefix area
6	(6)	X'8'	0	LGPREC	"*" Start of record data

Data set "views" recognized by JES GET processing are converted to these numeric equivalents which are used to filter EVENTLOG records. These numeric values must match the type definitions found in macro IAZLGDDF.

IAZLGINF mapping

Table 166. Structure IAZLGINF (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
6	(6)	X'1'		0	LGPRSMF	"01" SMF record type
6	(6)	X'2'		0	LGPRSTEP	"02" Step Completion Code record type
6	(6)	X'3'		0	LGPRRST	"03" Job restart record type
6	(6)	X'4'		0	LGPRTRC	"04" Trace record type
6	(6)	X'5'		0	LGPRUSER	"05" User record type
6	(6)	X'FF'		0	LGPRSFST	"255" SMF STEP records (SMF type 30 subtype 4 records)

Table 167. Cross Reference for IAZLGINF

Name	Offset	Hex Tag
IAZLGINF	0	
LGPFFLAG	5	
LGPLENG	0	
LGPREC	6	8
LGPPREFIX	0	
LGPRFLN	6	8
LGPRLEN	1	
LGPRRST	6	3
LGPRSFST	6	FF
LGPRSMF	6	1
LGPRSTEP	6	2
LGPRTRC	6	4
LGPRTYP	3	
LGPRTYPS	3	4
LGPRTYPT	3	3
LGPRUSER	6	5
LGP1STND	5	80
LGP1VERB	5	40

Chapter 37. IAZLGRST Information

IAZLGRST Programming Interface Information

IAZLGRST is a programming interface.

IAZLGRST Heading Information

Common Name: EVENTLOG RESTART record format
 Macro ID: IAZLGRST
 DSECT Name: RSTREC
 Owning Component: JES Common (SC141)
 Eye-Catcher ID: RESTART
 Offset: 0
 Length: 8
 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: See RSTRECSZ equate
 Created by: 1) Job termination when a job will be re-enqueued
 2) Job selection when a job starts executing after being re-enqueued
 Pointed to by: N/A
 Serialization: PUT serialization
 Function: This DSECT maps the information stored by JES in the EVENTLOG records that are TYPE=RESTART. This record is written when a job is being re-enqueued for execution and then again when the job re-executes.

IAZLGRST mapping

Table 168. Structure RSTREC

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	RSTREC	, EVENTLOG RESTART record
0	(0)	CHARACTER	8	RSTREYEC	RESTART eyecatcher
8	(8)	SIGNED	2	RSTRLEN	Length of RESTART record
10	(A)	BITSTRING	1	RSTRVER	Version of data
10	(A)	X'1'	0	RSTRVER1	"1" Version 1 of IAZLGRST
10	(A)	X'1'	0	RSTRVERC	"RSTRVER1" Current version of data
11	(B)	BITSTRING	1	RSTRFLAG	RESTART Record flags
		1... ..		RSTRETX	"B'1000000'" Re-enqueue text inserted
		.1.. ..		RSTRRTX	"B'0100000'" Job restarted text inserted
12	(C)	CHARACTER	26	RSTRTEXT	variable txt 'JOB RESTARTED ' variable txt

IAZLGRST mapping

Table 168. Structure RSTREC (continued)

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
38	(26)	BITSTRING	1	RSTRSFLG	JCT restart flags (JCTJSFLG)
		1... ..		RSTRSTRS	"X'80'" STEP RESTART
		.1.. ..		RSTRCHRS	"X'40'" CHECKPOINT RESTART
		..1.		RSTRCNRS	"X'20'" CONTINUE RESTART
		...1		RSTRHOLD	"X'10'" HOLD THE JOB
39	(27)	BITSTRING	1	RSTRBOPT	JCT job option flags (JCTJBOPT) (same as CATJBOPT)
		..1.		RSTTHOLD	"B'00100000'" TYPRUN=HOLD
		...1		RSTNOLOG	"B'00010000'" NO job log option
		.... .1..		RSTINRDR	"B'00000100'" Job was entered on INTRDR (not used in CATJBOPT field)
		.... ..1.		RSTRERUN	"B'00000010'" Job was re-run (not used in CATJBOPT field)
40	(28)	BITSTRING	1	RSTRSJF2	SJB restart flags (SJBFLG2)
		.1..		RST2EJST	"X'40'" \$EJOB,STEP was processed
		..1.		RST2EOM	"X'20'" END-OF-MEMORY DETECTED
		...1		RST2CNCL	"X'10'" CANCEL AFTER SWA CREATE
		.... .1..		RST2HOLD	"X'04'" HOLD JOB AFTER RE-QUEUE
41	(29)	BITSTRING	1	RSTRSJF4	SJB re-enqueue flgs (SJBFLG4)
		1...		RST4MEND	"X'80'" MSG 'ENDED'
		.1..		RST4MTRM	"X'40'" MSG 'TERMINATED'
		..1.		RST4MREQ	"X'20'" MSG 'RE-ENQUEUED'
		...1		RST4MREX	"X'10'" MSG 'QUEUED FOR RE-EXECUTION'
		.... .1..		RST4MRQH	"X'04'" MSG 'RE-ENQUEUED AND HELD'
		.... ..1.		RST4OCAN	"X'02'" Operator cancelled this SJB
		.... ...1		RST4TERM	"X'01'" BATCH JOB HAS TERMINATED SJB4TERM DIRECTLY INFLUENCES THE CREATION AND DELETION OF THE JSAB
42	(2A)	BITSTRING	6		Reserved
48	(30)	DBL WORD	8	RSTRTIME	Time job re-enqueued/restarted (STCK)
56	(38)	CHARACTER	8	RSTRSYSN	JCT execution MVS system name
64	(40)	CHARACTER	8	RSTRJOBN	Job name
72	(48)	CHARACTER	8	RSTRJBID	Job ID
80	(50)	BITSTRING	2	RSTRSSTP	Job step to restart (JCTJSSTP)
82	(52)	CHARACTER	64	RSTRJCOR	Job correlator
82	(52)	X'92'	0	RSTRSIZ1	"*-RSTREC" Version 1 size of area
82	(52)	X'92'	0	RSTRSIZE	"*-RSTREC" Size of area
82	(52)	X'E2'	0	RSTSSI	"C'S'" RESTART rec subtype of "S"

Table 169. Cross Reference for IAZLGRST

Name	Offset	Hex Tag
RSTINRDR	27	4
RSTNOLOG	27	10
RSTRBOPT	27	

Table 169. Cross Reference for IAZLGRST (continued)

Name	Offset	Hex Tag
RSTRCHRS	26	40
RSTRCNRS	26	20
RSTREC	0	
RSTRERUN	27	2
RSTREXT	B	80
RSTREYEC	0	
RSTRFLAG	B	
RSTRHOLD	26	10
RSTRJBID	48	
RSTRJCOR	52	
RSTRJOBN	40	
RSTRLEN	8	
RSTRRTXT	B	40
RSTRSFLG	26	
RSTRSIZE	52	92
RSTRSIZ1	52	92
RSTRSJF2	28	
RSTRSJF4	29	
RSTRSSTP	50	
RSTRSTRS	26	80
RSTRSYSN	38	
RSTRTEXT	C	
RSTRTIME	30	
RSTRVER	A	
RSTRVERC	A	1
RSTRVER1	A	1
RSTSSI	52	E2
RSTTHOLD	27	20
RST2CNCL	28	10
RST2EJST	28	40
RST2EOM	28	20
RST2HOLD	28	4
RST4MEND	29	80
RST4MREQ	29	20
RST4MREX	29	10
RST4MRQH	29	4
RST4MTRM	29	40
RST40CAN	29	2
RST4TERM	29	1

IAZLGRST mapping

Chapter 38. IAZLGSTP Information

IAZLGSTP Programming Interface Information

IAZLGSTP is a programming interface.

IAZLGSTP Heading Information

Common Name: EVENTLOG STEPDATA record format
Macro ID: IAZLGSTP
DSECT Name: STEPDATA
Owning Component: JES Common (SC141)
Eye-Catcher ID: STEPDATA or ASIN
Offset: 0
Length: 8
Storage Attributes: Subpool: determined by caller of the service
Key: determined by caller of the service
Residency: Virtual - anywhere is 31-bit storage
Real - anywhere in 64 bit storage
Size: See STP30LEN equate
Created by: EVENTLOG data service IAZLGDT when it detects a SMF type 30 subtype 4 record being written to EVENTLOG.
Pointed to by: N/A
Serialization: PUT serialization
Function: This DSECT maps the information stored by JES in the EVENTLOG records that are TYPE=STEPDATA. This record is written when an SMF type 30 subtype 4 record is presented to the EVENTLOG data service IAZLGDT.

IAZLGSTP mapping

Table 170. Structure STEPDATA

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	STEPDATA	, EVENTLOG STEPDATA record
0	(0)	CHARACTER	8	STPSEYE	Eyecatcher (set by caller) if an Active Step Information request block. Otherwise it is "STEPDATA"
8	(8)	SIGNED	2	STPSLEN	Length of area filled in
10	(A)	BITSTRING	1	STPSVER	Version of data
10	(A)	X'1'	0	STPSVER1	"1" Version 1 of IAZLGSTP
10	(A)	X'1'	0	STPSVERC	"STPSVER1" Current version of data
11	(B)	BITSTRING	1	STPSFLG1	Flag byte
12	(C)	BITSTRING	4	STP30TME	Header Step end time
16	(10)		4	STP30DTE	Header Step end date
20	(14)	CHARACTER	4	STP30SID	Header System ID
24	(18)	CHARACTER	8	STP30SYN	Subsystem System name where step ran
32	(20)	CHARACTER	8	STP30JBN	Identify Job name

IAZLGSTP mapping

Table 170. Structure STEPDATA (continued)

Offset	Offset					
Dec	Hex	Type	Len	Name(Dim)		Description
40	(28)	CHARACTER	8	STP30PGM		Identify Program name from EXEC stmt
48	(30)	CHARACTER	8	STP30STM		Identify Step name from EXEC stmt
56	(38)	CHARACTER	8	STP30UIF		Identify User Identification
64	(40)	CHARACTER	8	STP30JNM		Identify JES Job Identifier
72	(48)	BITSTRING	2	STP30STN		Identify Step number
74	(4A)	CHARACTER	1	STP30CLS		Identify Job class (1 char)
DS XL1 Reserved						
76	(4C)	SIGNED	4	STP30SIT		Identify Time fr/midnight job select
80	(50)		4	STP30STD		Identify Date init selected job
84	(54)	CHARACTER	20	STP30USR		Identify Programmer's name
104	(68)	CHARACTER	8	STP30PSN		Identify Name of step invoking proc
112	(70)	CHARACTER	8	STP30CL8		Identify Job class (8 char)
120	(78)	BITSTRING	4	STP30SSN		Identify Substep number for UNIX
124	(7C)	BITSTRING	16	STP30EXN		Identify Program name
140	(8C)	CHARACTER	64	STP30COR		Identify Job correlator
204	(CC)	BITSTRING	2	STP30SCC		Completion Step completion code
206	(CE)	BITSTRING	2	STP30STI		Completion Step/Job termination ind
208	(D0)	BITSTRING	4	STP30ARC		Completion Abend reason code
208	(D0)	X'D4'	0	STP30LN1		"*-STEPDATA" Version 1 size of area
208	(D0)	X'D4'	0	STP30LEN		"*-STEPDATA" Length of STEPDATA record
208	(D0)	X'D3'	0	STPSTYPE		"C'L' STEPDATA rec subtype of "L" "

Table 171. Cross Reference for IAZLGSTP

Name	Offset	Hex Tag
STEPDATA	0	
STPSEYE	0	C1E2C9D5
STPSFLG1	B	
STPSLEN	8	
STPSTYPE	D0	D3
STPSVER	A	
STPSVERC	A	1
STPSVER1	A	1
STP30ARC	D0	
STP30CLS	4A	
STP30CL8	70	
STP30COR	8C	
STP30DTE	10	
STP30EXN	7C	
STP30JBN	20	
STP30JNM	40	
STP30LEN	D0	D4

Table 171. Cross Reference for IAZLGSTP (continued)

Name	Offset	Hex Tag
STP30LN1	D0	D4
STP30PGM	28	
STP30PSN	68	
STP30SCC	CC	
STP30SID	14	
STP30SIT	4C	
STP30SSN	78	
STP30STD	50	
STP30STI	CE	
STP30STM	30	
STP30STN	48	
STP30SYN	18	
STP30TME	C	
STP30UIF	38	
STP30USR	54	

IAZLGSTP mapping

Chapter 39. IAZMOND Information

IAZMOND Programming Interface Information

IAZMOND is a programming interface.

IAZMOND Heading Information

Common Name: JES Monitor Information Parm List
Macro ID: IAZMOND
DSECT Name: MOND
Owning Component: JES Common (SC141)
Eye-Catcher ID: MOND
Offset: MONDSSID
Length: L'MONDSSID
Storage Attributes: Subpool: caller
Key: Any
Residency: Virtual = 31 bit storage
real = 31 or 64 bit storage
Size: See MONDSIZE
Created by: caller of SSI function 'SSOBSSJI' = 71
Pointed to by: SSJIUSER in the SSOB extension
Serialization: None
Function: This macro provides the mapping of the parameter list used by authorized programs to request the Monitor Information function.

IAZMOND mapping

Table 172. Structure MOND

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MOND	
0	(0)	CHARACTER	4	MONDSSID	I.Eyecatcher
4	(4)	ADDRESS	2	MONDLEN	I.Length of MOND area
6	(6)	SIGNED	2	MONDVER(0)	I.MOND caller version
6	(6)	ADDRESS	1	MONDVERL	I.MOND version level
7	(7)	ADDRESS	1	MONDVERM	I.MOND version modifier
7	(7)	BITSTRING	0	MONDV010	"X'0100'" Initial version of macro
7	(7)	BITSTRING	0	MONDV020	"X'0200'" z/OS 1.9 level of macro
7	(7)	X'2'	0	MONDCVRL	"2" Current version level
7	(7)	X'0'	0	MONDCVRM	"0" Current version modifier
8	(8)	SIGNED	2	MONDVERO	O.Subsystem version/modifier
10	(A)	BITSTRING	2		Reserved for future use and must be zero
12	(C)	SIGNED	4		
16	(10)	SIGNED	2	MONDUSER(0)	

IAZMOND mapping

Table 172. Structure MOND (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
<p>MONDSTRP is an anchor for use by the subsystem that responds to this request. It is expected that the caller will set this to zero the FIRST time the MOND is used and from that point on it will be managed by the subsystem. If this field is non-zero, then a return storage request must be made to release data held by this request.</p>					
16	(10)	ADDRESS	8	MONDSTRP	Storage management anchor
24	(18)	SIGNED	4	(2)	Reserved for future use and must be zero
32	(20)	DBL WORD	8	MONDPERF	0.Performance index for last performed request
<p>Monitor Information selection data The following input fields identify what fields you want returned on this request. At least one bit must be set to successfully complete a call.</p>					
40	(28)	BITSTRING	1	MONDSEL1	IS.Info selection flag 1
		1... ..		MONDSRES	"B'10000000'" Resource usage stats
		.1.. ..		MONDSMTS	"B'01000000'" Main task CPU stats
		..1.		MONDSERR	"B'00100000'" JES2 ERROR stats
		...1		MONDSWTS	"B'00010000'" Main task WAIT stats
		.... 1...		MONDSJSA	"B'00001000'" JES2 Alerts
		.... .1..		MONDSJSN	"B'00000100'" JES2 Notices
		.... ..1.		MONDSJST	"B'00000010'" JES2 Tracks
		.... ...1		MONDSSTO	"B'00000001'" JES2 Storage usage
41	(29)	BITSTRING	1	MONDSEL2	IS.Info selection flag 2
		1... ..		MONDSMNS	"B'10000000'" Monitor status info
42	(2A)	BITSTRING	1	MONDOPT1	I.Monitor info options
		1... ..		MONDICRT	"B'10000000'" Return only critical notices when MONDSJSN is set
43	(2B)	BITSTRING	1		Reserved for future use and must be zero

Table 172. Structure MOND (continued)

Offset	Offset		Len	Name(Dim)	Description
Dec	Hex	Type			
<p>History limit The monitor maintains a history for some statistics (resource usage, CPU stats, and error stats). In general, the statistics are reset at the top of each hour and hourly statistics are maintained for as long as the monitor is running. The amount of history returned can be limited by setting MONDHSTC to the number of history elements to return. Setting MONDHSTC to zero or 1 will return only the current data. Setting it to 5 will return the 5 most recent history elements. Setting it to x'FFFF' will return all history elements. For example, if the current time is 11:30, and MONDHSTC is set to 5, then the following 5 history elements will be returned (times are start of intervals). 11:00, 10:00, 9:00, 8:00 and 7:00 MONDHSTC only applies when MONDSRES, MONDSMTS, or MONDSERR is set in MONDSEL1</p>					
44	(2C)	SIGNED	2	MONDHSTC	IS.History count limit
44	(2C)	BITSTRING	0	MONDHALL	"X'FFFF'" Request all history returned
46	(2E)	BITSTRING	2		Reserved for future use and must be zero
<p>Resource name filter If MONDSEL1 is set to MONDSRES, then MONDRSNM can be set to the resource name for which information is to be returned (left justified, padded with blanks). Generics (and ?) are allowed. Setting the first byte of MONDRSNM to zero or blanks is the same as setting MONDRSNM to ' '. All resources are returned.</p>					
48	(30)	CHARACTER	8	MONDRSNM	IS*.Resource name filter
56	(38)	SIGNED	4	(16)	Reserved for future use and must be zero
<p>Output areas Output from a Monitor information request is organized by the mapping of the returned data.</p>					
120	(78)	BITSTRING	1	MONDSTAT	0.JES/MONITOR status
		1...		MONDJDWN	"B'1000000'" JES is down
		.1..		MONDMDWN	"B'0100000'" Monitor is down
121	(79)	BITSTRING	3		Reserved for future use and must be zero
124	(7C)	ADDRESS	4		Reserved and must be zero
128	(80)	ADDRESS	4	MONDRESQ	0.Resource usage (MDRSDATA)
132	(84)	ADDRESS	4		Reserved and must be zero
136	(88)	ADDRESS	4	MONDCPUS	0.CPU stats (MDCPDATA)
140	(8C)	ADDRESS	4		Reserved and must be zero
144	(90)	ADDRESS	4	MONDERRC	0.Error counts (MDERDATA)
148	(94)	ADDRESS	4		Reserved and must be zero
152	(98)	ADDRESS	4	MONDWAIT	0.MVS WAIT info (MDWTDATA)
156	(9C)	ADDRESS	4		Reserved and must be zero
160	(A0)	ADDRESS	4	MONDMSGS	0.Alert/track/notice msgs (MDMSDATA)
164	(A4)	ADDRESS	4		Reserved and must be zero

IAZMOND mapping

Table 172. Structure MOND (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
168	(A8)	ADDRESS	4	MONDMONI	0.Monitor info (MDMIDATA)
172	(AC)	ADDRESS	4		Reserved and must be zero
176	(B0)	ADDRESS	4	MONDSTRU	0.Storage usage (MDSTDATA)
180	(B4)	SIGNED	4	(15)	Reserved for future use and must be zero
240	(F0)	DBL WORD	8	(0)	Align length
240	(F0)	X'F0'	0	MONDSZE1	"*-MOND" Parameter end-version 1 size
240	(F0)	X'F0'	0	MONDSZE2	"*-MOND" Parameter end-version 2 size
240	(F0)	X'F0'	0	MONDSZE	"*-MOND" Size of MOND
Reason codes					
240	(F0)	X'0'	0	MONDOK	"0" Request worked
Values of SSJIRETN when SSOBRETN is SSJIERRV (4) for function (values of SSJIFREQ) SSJIMNOD and SSJIMNRS.					
240	(F0)	X'4'	0	MONDNMON	"4" Monitor address space is down
EQU 20 Used by router Values of SSJIRETN when SSOBRETN is SSJIERRU (8) for function (values of SSJIFREQ) SSJIMNOD and SSJIMNRS. EQU 4 Used by router					
240	(F0)	X'C'	0	MONDIERR	"12" Input error
240	(F0)	X'10'	0	MONDSTRE	"16" MONDSTRP not set correctly

Table 173. Structure MDRSDATA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MDRSDATA	, Resource usage data
0	(0)	CHARACTER	4	MDRSEYE	Area eyecatcher
4	(4)	ADDRESS	4		Reserved
8	(8)	ADDRESS	4	MDRSNEXT	Next MDRS entry
12	(C)	CHARACTER	8	MDRSNAME	Resource name
20	(14)	SIGNED	2	MDRSENTO	Offset to 1st time entry
22	(16)	SIGNED	2	MDRSCNT	Number of time entries
24	(18)	SIGNED	2	MDRSENTL	Length of a time entry
26	(1A)	SIGNED	2		Reserved
28	(1C)	SIGNED	4	(2)	Reserved
36	(24)	BITSTRING	1	MDRSFLG1	General flag byte
		1...		MDRS1OVR	"B'10000000'" Resource currently over warn
37	(25)	BITSTRING	3		Reserved
37	(25)	X'28'	0	MDRSBASL	"*-MDRSDATA" Length of base section NOT FOR APPLICATION USE

Table 174. Structure MDRSNTRY

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MDRSNTRY	, Time entry
0	(0)	BITSTRING	16	MDRSTIME	Time interval started (STCKE)
16	(10)	SIGNED	4	MDRSLIMIT	Current upper limit
20	(14)	SIGNED	4	MDRSINUS	Current number in use
24	(18)	SIGNED	4	MDRSLow	Low usage value
28	(1C)	SIGNED	4	MDRSHIGH	High usage value
32	(20)	SIGNED	4	MDRSavg	Average in use value
36	(24)	SIGNED	2	MDRSWARN	Warn level (%)
38	(26)	SIGNED	2	MDRSOVER	Usage over warn level (%*100)
38	(26)	X'28'	0	MDRSENTS	"*-MDRSNTRY" Size of a time entry NOT FOR APPLICATION USE

Table 175. Structure MDCPDATA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MDCPDATA	, CPU statistics
0	(0)	CHARACTER	4	MDCPEYE	Area eyecatcher
4	(4)	SIGNED	2	MDCPENTO	Offset to 1st time entry
6	(6)	SIGNED	2	MDCPCNT	Number of time entries
8	(8)	SIGNED	2	MDCPENTL	Length of a time entry
10	(A)	SIGNED	2		Reserved
12	(C)	SIGNED	4	(2)	Reserved
12	(C)	X'14'	0	MDCPBASL	"*-MDCPDATA" Length of base section NOT FOR APPLICATION USE

Table 176. Structure MDCPNTRY

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MDCPNTRY	, Time entry
0	(0)	BITSTRING	16	MDCPTIME	Time interval started (STCKE)
16	(10)	SIGNED	4	MDCPACT	Active sample count
20	(14)	SIGNED	4	MDCPIDLE	Idle sample count
24	(18)	SIGNED	4	MDCPWAIT	Wait sample count
28	(1C)	SIGNED	4	MDCPLLOCK	Local lock sample count
32	(20)	SIGNED	4	MDCPNdsp	Non-dispatchable count
36	(24)	SIGNED	4	MDCPPAGE	Page wait sample count
40	(28)	SIGNED	4	MDCPDMVS	Awaiting MVS dispatch
40	(28)	X'2C'	0	MDCPENTS	"*-MDCPNTRY" Size of a time entry NOT FOR APPLICATION USE

Table 177. Structure MDERDATA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MDERDATA	, Error counts
0	(0)	CHARACTER	4	MDEREYE	Area eyecatcher
4	(4)	ADDRESS	4		Reserved
8	(8)	ADDRESS	4	MDERNEXT	Next MDRS entry
12	(C)	CHARACTER	8	MDERNAME	Error name
20	(14)	SIGNED	2	MDERENTO	Offset to 1st time entry

IAZMOND mapping

Table 177. Structure MDERDATA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
22	(16)	SIGNED	2	MDERCNT	Number of time entries
24	(18)	SIGNED	2	MDERENTL	Length of a time entry
26	(1A)	SIGNED	2		Reserved
28	(1C)	SIGNED	4	(2)	Reserved
28	(1C)	X'24'	0	MDERBASL	"*-MDERDATA" Length of base section NOT FOR APPLICATION USE

Table 178. Structure MDERENTRY

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MDERENTRY	, Time entry
0	(0)	BITSTRING	16	MDERTIME	Time interval started (STCKE)
16	(10)	SIGNED	4	MDERCOUN	Error count
20	(14)	BITSTRING	1	MDERTYPE	Error category
20	(14)	X'1'	0	MDERMAIN	"1" Main task
20	(14)	X'2'	0	MDERDIST	"2" DISTERR
20	(14)	X'3'	0	MDERCBIO	"3" C BIO error
20	(14)	X'4'	0	MDEROTHR	"4" Other
20	(14)	X'5'	0	MDERSTSK	"5" JES2 subtask
21	(15)	BITSTRING	3		Reserved
21	(15)	X'18'	0	MDERENTS	"*-MDERENTRY" Size of a time entry NOT FOR APPLICATION USE

Table 179. Structure MDWTDATA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MDWTDATA	, MVS WAIT information
0	(0)	CHARACTER	4	MDWTEYE	Area eyecatcher
4	(4)	SIGNED	2	MDWTENTO	Offset to 1st wait entry
6	(6)	SIGNED	2	MDWTCNT	Number of wait entries
8	(8)	SIGNED	2	MDWTENTL	Length of a wait entry
10	(A)	SIGNED	2		Reserved
12	(C)	SIGNED	4	(2)	Reserved
12	(C)	X'14'	0	MDWTBASL	"*-MDWTDATA" Length of base section NOT FOR APPLICATION USE

Table 180. Structure MDWTNTRY

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MDWTNTRY	, Wait entry
0	(0)	BITSTRING	16	MDWTSTCK	Time of most recent wait (STCKE)
16	(10)	ADDRESS	4	MDWTADDR	Address of wait (from RB)
20	(14)	SIGNED	4	MDWTWCNT	Count of waits detected
24	(18)	SIGNED	4	MDWTSCNT	Count of matching samples
28	(1C)	CHARACTER	8	MDWTNAME	Module name from wait
36	(24)	SIGNED	4	MDWTOFFS	Offset of wait in module
40	(28)	CHARACTER	8	MDWTPCE	Name of PCE in control (or MULTIPLE)

Table 180. Structure MDWTNTRY (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
MDWTEXT is one of the following character values: NONE - wait while JES2 was in control (JCO) exit# - wait while this exit was in control MULTEXIT - multiple exits were in control (MLT) MULTIPLE - JES2 and exit code in control (JNX)					
48	(30)	CHARACTER	8	MDWTEXT	Exit number in control
56	(38)	BITSTRING	1	MDWTFLAG	Wait flag byte
		1...		MDWTFINI	"B'10000000'" JES2 was initializing
		.1..		MDWTFTRM	"B'01000000'" JES2 was terminating
57	(39)	BITSTRING	3		Reserved
57	(39)	X'3C'	0	MDWTENTS	"*-MDWTNTRY" Size of a wait entry NOT FOR APPLICATION USE

Table 181. Structure MDMSDATA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MDMSDATA	, Alert/track/notice messages
0	(0)	CHARACTER	4	MDMSEYE	Area eyecatcher
4	(4)	ADDRESS	4		Reserved
8	(8)	ADDRESS	4	MDMSNEXT	Next MDRS entry
12	(C)	SIGNED	2	MDMSLEN	Length of area
14	(E)	SIGNED	2		Reserved
16	(10)	SIGNED	4	(3)	Reserved
28	(1C)	BITSTRING	16	MDMSTIME	Time condition started (STCKE) (Alerts and tracks only)
44	(2C)	BITSTRING	1	MDMSTYPE	Message type
44	(2C)	X'1'	0	MDMSTALR	"1" Alert message
44	(2C)	X'2'	0	MDMSTTRK	"2" Track message
44	(2C)	X'3'	0	MDMSTNOT	"3" Notice message
45	(2D)	BITSTRING	1		Reserved
46	(2E)	ADDRESS	2	MDMDL1LN	1st line of message length
48	(30)	CHARACTER	71	MDMSL1TX	and text
119	(77)	BITSTRING	1		Reserved
120	(78)	ADDRESS	2	MDMDL2LN	2nd line of message length
122	(7A)	CHARACTER	71	MDMSL2TX	and text
193	(C1)	BITSTRING	1		Reserved
194	(C2)	ADDRESS	2	MDMDL3LN	3rd line of message length
196	(C4)	CHARACTER	71	MDMSL3TX	and text
267	(10B)	BITSTRING	1		Reserved
268	(10C)	ADDRESS	2	MDMDL4LN	4rd line of message length
270	(10E)	CHARACTER	71	MDMSL4TX	and text
341	(155)	BITSTRING	1		Reserved
344	(158)	SIGNED	4	(0)	Align
344	(158)	X'158'	0	MDMSSENTS	"*-MDMSDATA" Size of message section NOT FOR APPLICATION USE

IAZMOND mapping

Table 182. Structure MDMIDATA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MDMIDATA	, Monitor information
0	(0)	CHARACTER	4	MDMIEYE	Area eyecatcher
4	(4)	SIGNED	2	MDMIENTO	Offset to 1st subtask entry
6	(6)	SIGNED	2	MDMICNT	Number of subtask entries
8	(8)	SIGNED	2	MDMIENTL	Length of a subtask entry
10	(A)	SIGNED	2		Reserved
12	(C)	SIGNED	4	(2)	Reserved
12	(C)	X'14'	0	MDMIBASL	"*-MDMIDATA" Length of base section NOT FOR APPLICATION USE

Table 183. Structure MDMINTRY

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MDMINTRY	, Monitor subtask entry
0	(0)	CHARACTER	8	MDMINAME	Name of monitor task
8	(8)	CHARACTER	12	MDMISTAT	Current task status
20	(14)	CHARACTER	24	MDMIINFO	Status information for subtask
44	(2C)	SIGNED	4		Reserved
48	(30)	DBL WORD	8	(0)	Align
48	(30)	X'30'	0	MDMIENTS	"*-MDMINTRY" Size of a status entry NOT FOR APPLICATION USE

Table 184. Structure MDSTDATA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MDSTDATA	, Storage usage data
0	(0)	CHARACTER	4	MDSTEYE	Area eyecatcher
4	(4)	ADDRESS	4		Reserved
8	(8)	ADDRESS	4	MDSTNEXT	Next MDST entry
12	(C)	CHARACTER	12	MDSTNAME	Storage area description
24	(18)	SIGNED	2	MDSTENTO	Offset to 1st time entry
26	(1A)	SIGNED	2	MDSTCNT	Number of time entries
28	(1C)	SIGNED	2	MDSTENTL	Length of a time entry
30	(1E)	SIGNED	2		Reserved
32	(20)	SIGNED	4	(2)	Reserved
32	(20)	X'28'	0	MDSTBASL	"*-MDSTDATA" Length of base section NOT FOR APPLICATION USE

Table 185. Structure MDSTNTRY

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MDSTNTRY	, Time entry
0	(0)	BITSTRING	16	MDSTTIME	Interval start time (STCKE)
16	(10)	SIGNED	4	MDSTREGN	Current region size (bytes)
20	(14)	SIGNED	4	MDSTUSE	Current bytes in use
24	(18)	SIGNED	4	MDSTLOW	Low usage value (bytes)
28	(1C)	SIGNED	4	MDSTHIGH	High usage value (bytes)
32	(20)	SIGNED	4	MDSTAVRG	Average usage value (bytes)

Table 185. Structure MDSTNTRY (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
32	(20)	X'24'		0	MDSTENTS	"*-MDSTNTRY" Size of a time entry NOT FOR APPLICATION USE

Table 186. Cross Reference for IAZMOND

Name	Offset	Hex Tag
MDCPACT	10	
MDCPBASL	C	14
MDCPCNT	6	
MDCPDATA	0	
MDCPDMVS	28	
MDCPENTL	8	
MDCPENTO	4	
MDCPENTS	28	2C
MDCPEYE	0	D4C4C3D7
MDCPIDLE	14	
MDCPLLOK	1C	
MDCPNDSP	20	
MDCPNTRY	0	
MDCPPAGE	24	
MDCPTIME	0	
MDCPWAIT	18	
MDERBASL	1C	24
MDERCBIO	14	3
MDERCNT	16	
MDERCOUN	10	
MDERDATA	0	
MDERDIST	14	2
MDERENTL	18	
MDERENTO	14	
MDERENTS	15	18
MDEREYE	0	D4C4C5D9
MDERMAIN	14	1
MDERNAME	C	
MDERNEXT	8	
MDERNTRY	0	
MDEROTHR	14	4
MDERSTSK	14	5
MDERTIME	0	
MDERTYPE	14	
MDMDL1LN	2E	
MDMDL2LN	78	
MDMDL3LN	C2	
MDMDL4LN	10C	
MDMIBASL	C	14
MDMICNT	6	
MDMIDATA	0	
MDMIENTL	8	

IAZMOND mapping

Table 186. Cross Reference for IAZMOND (continued)

Name	Offset	Hex Tag
MDMIENTO	4	
MDMIENTS	30	30
MDMIEYE	0	D4C4D4C9
MDMIINFO	14	
MDMINAME	0	
MDMINTRY	0	
MDMISTAT	8	
MDMSDATA	0	
MDMSENTS	158	158
MDMSEYE	0	D4C4D4E2
MDMSLEN	C	
MDMSL1TX	30	
MDMSL2TX	7A	
MDMSL3TX	C4	
MDMSL4TX	10E	
MDMSNEXT	8	
MDMSTALR	2C	1
MDMSTIME	1C	
MDMSTNOT	2C	3
MDMSTRK	2C	2
MDMSTYPE	2C	
MDRSAVRG	20	
MDRSBASL	25	28
MDRSCNT	16	
MDRSDATA	0	
MDRSENTL	18	
MDRSENTO	14	
MDRSENTS	26	28
MDRSEYE	0	D4C4D9E2
MDRSFLG1	24	
MDRSHIGH	1C	
MDRSINUS	14	
MDRSLIMT	10	
MDRSLow	18	
MDRSNAME	C	
MDRSNEXT	8	
MDRSNTRY	0	
MDRSOVER	26	
MDRSTIME	0	
MDRSWARN	24	
MDRS10VR	24	80
MDSTAVRG	20	
MDSTBASL	20	28
MDSTCNT	1A	
MDSTDATA	0	
MDSTENTL	1C	
MDSTENTO	18	
MDSTENTS	20	24
MDSTEYE	0	D4C4E2E3

Table 186. Cross Reference for IAZMOND (continued)

Name	Offset	Hex Tag
MDSTHIGH	1C	
MDSTLOW	18	
MDSTNAME	C	
MDSTNEXT	8	
MDSTNTRY	0	
MDSTREGN	10	
MDSTTIME	0	
MDSTUSE	14	
MDWTADDR	10	
MDWTBASL	C	14
MDWTCNT	6	
MDWTDATA	0	
MDWTENTL	8	
MDWTENTO	4	
MDWTENTS	39	3C
MDWTEXTIT	30	
MDWTEYE	0	D4C4E6E3
MDWTFINI	38	80
MDWTFLAG	38	
MDWTFTRM	38	40
MDWTNAME	1C	
MDWTNTRY	0	
MDWTOFFS	24	
MDWTPCE	28	
MDWTSCNT	18	
MDWTSTCK	0	
MDWTWCNT	14	
MOND	0	
MONDCPUS	88	
MONDCVRL	7	2
MONDCVRM	7	0
MONDERRC	90	
MONDHALL	2C	FFFF
MONDHSTC	2C	0
MONDIERR	F0	C
MONDJDWN	78	80
MONDLEN	4	F0
MONDMDWN	78	40
MONDMONI	A8	
MONDMSGS	A0	
MONDNMON	F0	4
MONDOK	F0	0
MONDOPT1	2A	0
MONDPERF	20	0
MONDRESQ	80	
MONDRSNM	30	40404040
MONDSEL1	28	0
MONDSEL2	29	0
MONDSERR	28	20

IAZMOND mapping

Table 186. Cross Reference for IAZMOND (continued)

Name	Offset	Hex Tag
MONDSJSA	28	8
MONDSJSN	28	4
MONDSJST	28	2
MONDSMNS	29	80
MONDSMTS	28	40
MONDSRES	28	80
MONDSSID	0	D4D6D5C4
MONDSSTO	28	1
MONDSTAT	78	0
MONDSTRE	F0	10
MONDSTRP	10	
MONDSTRU	B0	
MONDSWTS	28	10
MONDSZE	F0	F0
MONDSZE1	F0	F0
MONDSZE2	F0	F0
MONDUSER	10	
MONDVER	6	
MONDVERL	6	
MONDVERM	7	
MONDVERO	8	0
MONDV010	7	100
MONDV020	7	200
MONDWAIT	98	
MOND1CRT	2A	80

Chapter 40. IAZSPLIO Information

IAZSPLIO Programming Interface Information

IAZSPLIO is a programming interface.

IAZSPLIO Heading Information

Common Name: JES2 Spool Input/Output Parameter List
 Macro ID: IAZSPLIO
 DSECT Name: SPLIO
 Owning Component: JES Common (SC141)
 Eye-Catcher ID: SPI0
 Offset: SPIOSSID
 Length: L'SPIOSSID
 Storage Attributes: Subpool: caller
 Key: Any
 Residency: Virtual = any
 real = any
 Size: See SPIOSSIZE
 Created by: caller of SSI function 'SSOBSSJI' = 71
 Pointed to by: SSJIUSER in the SSOB extension
 Serialization: None
 Function: This macro provides the mapping of the parameter list used by authorized programs to request the Spool Input/Output format.

IAZSPLIO mapping

Table 187. Structure SPLIO

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SPLIO	
0	(0)	CHARACTER	4	SPIOSSID	I.Eyecatcher
4	(4)	ADDRESS	2	SPIOLEN	I.Length of SPLIO parameter list
6	(6)	SIGNED	2	SPLIOVRN	I.Parm list version number
6	(6)	X'1'	0	SPLIOVR1	"1" Service version number of IAZSPLIO
6	(6)	X'1'	0	SPLIOVR#	"1" Service version--the latest value
8	(8)	SIGNED	2	SPIOVERO	O.Subsystem version number
10	(A)	SIGNED	2		Reserved
12	(C)	SIGNED	2	SPIOUSER(0)	
SPIOSTRP is an anchor for use by the subsystem that responds to this request. It is expected that the caller will set this to zero the FIRST time an SSOB extension is used and from that point on it will be managed by the subsystem.					
12	(C)	ADDRESS	4	SPIOSTRP	Storage management anchor
16	(10)	SIGNED	4		Reserved
20	(14)	SIGNED	4		Reserved

IAZSPLIO mapping

Table 187. Structure SPLIO (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
<p>Spool Input/Output info section Field SPIOSPAD is the only required field. It should have the requested spool control block address. The subsequent input fields are optional and are used for verification purposes. The supported control block types for JES2 are: CHK HDB IOT JCT NHSB OCT SIG SWBI</p>					
24	(18)	BITSTRING	8	SPIOSPAD	I.Spool address to be found This field is required
<p>The following input fields are optional. If they have a null value, they will be considered as not present for verification purposes. Especially, if the control block ID type is null, the other fields are not considered.</p>					
32	(20)	CHARACTER	4	SPIOCTYP	I.Control block ID type
36	(24)	CHARACTER	8	SPIOJNAM	I.Job name
44	(2C)	CHARACTER	8	SPIOJID	I.Job ID (J9999999, etc.)
52	(34)	BITSTRING	4	SPIOJKEY	I.Job key
56	(38)	SIGNED	4	SPIODSKY	I.Dataset key
<p>If instorage buffers are needed, then SPIOJKEY and SPIODSKY must be specified as well as SPIOASID. If instorage buffers are requested, then no SPOOL read is attempted. SPIOSSNM is the MVS system or JES2 member name the job is running on. If SPIOASID is not specified, then SPIOSSNM is not examined. For JES2, instorage buffers are only obtained when SPIOCTYP is set to 'HDB '. Otherwise the data is read from SPOOL. SPIOSSNM must be blank or the name of the system/member where the SPOOL read request originated.</p>					
60	(3C)	CHARACTER	8	SPIOSSNM	I.If instorage data buffers are needed, the system or JES2 member name where the job is running
68	(44)	SIGNED	2	SPIOASID	I.If instorage data buffers are needed, the ASID where the job is running
70	(46)	BITSTRING 1... ..	1	SPIOOPT SPIORACF	I.Processing options "B'10000000'" Perform RACF checks even if caller is authorized
71	(47)	BITSTRING	1		Reserved
72	(48)	SIGNED	4	(5)	Reserved for future use and must be zero
92	(5C)	ADDRESS	4	SPIOOUTA	O.Address of control block
96	(60)	SIGNED	4	SPIOOLEN	O.Number of bytes in buffer
100	(64)	SIGNED	4		Reserved
104	(68)	SIGNED	4		Reserved
108	(6C)	BITSTRING	1	SPIOIND1	O.Indicator field

Table 187. Structure SPLIO (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1... ..		SPIONSTG	"B'10000000'" The control block was retrieved from an instorage buffer
109	(6D)	BITSTRING	3		Reserved
109	(6D)	X'70'	0	SPIOSZE1	"*-SPLIO" Parameter end-version 1 size
109	(6D)	X'70'	0	SPIOSZE	"*-SPLIO" Size of SPLIO
Reason codes Values of SSJIRETN when SSOBRETN is zero for function (values of SSJIFREQ) SSJISIOM and SSJISIRS.					
109	(6D)	X'0'	0	SPIOOK	"0" Success
109	(6D)	X'4'	0	SPIONTVF	"4" The VERIFY was not successful
109	(6D)	X'8'	0	SPIOCBIO	"8" Spool control block I/O error
109	(6D)	X'C'	0	SPIOCBTK	"12" Spool control block invalid track
109	(6D)	X'10'	0	SPIOCBNG	"16" General control block problem
109	(6D)	X'14'	0	SPIOSTRG	"20" Error obtaining storage
109	(6D)	X'18'	0	SPIOSJER	"24" Error obtaining below the line storage
109	(6D)	X'1C'	0	SPIOILOG	"28" A logic error has occurred
109	(6D)	X'20'	0	SPIONSPL	"32" SPIOSTRP not initialized correctly
109	(6D)	X'24'	0	SPIONBUF	"36" Could not locate instorage buffer
109	(6D)	X'28'	0	SPIONSAF	"40" RACF failure accessing data

Table 188. Cross Reference for IAZSPLIO

Name	Offset	Hex	Tag
SPIOASID	44		
SPIOCBIO	6D	8	
SPIOCBNG	6D	10	
SPIOCBTK	6D	C	
SPIOCTYP	20		
SPIODSKY	38		
SPIOILOG	6D	1C	
SPIOIND1	6C		
SPIOJID	2C		
SPIOJKEY	34		
SPIOJNAM	24		
SPIOLEN	4		
SPIONBUF	6D	24	
SPIONSAF	6D	28	
SPIONSPL	6D	20	
SPIONSTG	6C	80	
SPIONTVF	6D	4	
SPIOOK	6D	0	

IAZSPLIO mapping

Table 188. Cross Reference for IAZSPLIO (continued)

Name	Offset	Hex Tag
SPIO0LEN	60	
SPIO0PT	46	
SPIO0UTA	5C	
SPIORACF	46	80
SPIOSJER	6D	18
SPIOSPAD	18	
SPIOSSID	0	
SPIOSSNM	3C	
SPIOSTRG	6D	14
SPIOSTRP	C	
SPIOSZE	6D	70
SPIOSZE1	6D	70
SPIOUSER	C	
SPIOVERO	8	
SPLIO	0	
SPLIOVR#	6	1
SPLIOVRN	6	
SPLIOVR1	6	1

Chapter 41. IAZSSJD Information

IAZSSJD Programming Interface Information

The following fields are NOT programming interface information:

- JDAESIZE
- JDAISIZE
- JDALSIZE
- JDAPSIZE
- JDASSIZE
- JDA2SIZE
- JDBCSIZE
- JDBHSIZE
- JDBOSIZE
- JDB2SIZE
- JDCCSIZE
- JDCHSIZE
- JDC2SIZE
- JDC3SIZE
- JDGCSIZE
- JDGHSIZE
- JDG2SIZE
- JDG3SIZE
- JDJBSIZE
- JDJCSIZE
- JDJHSIZE
- JDJSSIZE
- JDK2SIZE
- JDLCSIZE
- JDLHSIZE
- JDL2SIZE
- JDL3SIZE
- JDNCSIZE
- JDNHSIZE
- JDNISIZE
- JDNRSIZE
- JDN2SIZE
- JDN3SIZE
- JDOCSIZE
- JDOHSIZE
- JDO2SIZE
- JDPCSIZE
- JDPFSIZE

IAZSSJD Programming Interface Information

- JDPHSIZE
- JDPRSIZE
- JDPWSIZE
- JDP2SIZE
- JDP3SIZE
- JDRCSIZE
- JDRHSIZE
- JDRISIZE
- JDR2SIZE
- JDR3SIZE
- JDSCSIZE
- JDSGAVL
- JDSGDATA
- JDSGEYE
- JDSGNEXT
- JDSGSIZE
- JDSGSTHL
- JDSGSTPL
- JDSGSTRG
- JDSGSTSP
- JDSGSTTL
- JDSHSIZE
- JDSISIZE
- JDSKSIZE
- JDSOSIZE
- JDS2SIZE
- JDUTSIZE
- JDU2SIZE
- JDU3SIZE
- JDWBSIZE
- JDWCSIZE
- JDWHSIZE
- JDWNSIZE
- JDW2SIZE
- JDXCSIZE
- JDXHSIZE
- JDXNSIZE
- JDXOSIZE
- JDX2SIZE
- JDYCSIZE
- JDYHSIZE
- JDYNSIZE
- JDYOSIZE
- JDY2SIZE
- SSJDSTRP

- SSJD TokN

IAZSSJD Heading Information

Common Name: SSOB extension and other data structures used by the device information SSI (SSI 83)

Macro ID: IAZSSJD

DSECT Name: SSOB extension DSECT is SSJD. See below for DSECT names of data structures returned by the SSI.

Owning Component: JES Common (SC141)

Eye-Catcher ID: SSOB extension - 'SSJDPL'
See individual DSECTs for the eye-catchers they use.
Offset: SSJDEYE
Length: L'SSJDEYE

Storage Attributes: Subpool: SSOB extension - determined by caller
Data structures returned by the SSI - 230
Key: SSOB extension - determined by caller
Data structures returned by the SSI - key 1
Residency: - SSOB extension:
Virtual - anywhere in 31-bit storage
Real - anywhere in 64 bit storage
- Data structures returned by the SSI:
Virtual - anywhere in 64-bit private storage
(see option SSJDPD64)
Real - anywhere in 64 bit storage

Size: See below for sizes of individual DSECTs

Created by: SSOB extension - by SSI caller
Data structures returned by the SSI - by SSI code

Pointed to by: SSOBINDV in the IEFSSOBH mapping macro

Serialization: None required

Function: This macro provides the mapping of the data structures used by the device information SSI (SSI 83):
- SSOB extension (SSI parameters)
- data structures returned by the SSI
- internal storage managed by the SSI
The SSI returns information about devices managed by the job entry subsystem.
By default, SSI returns information only from the local system (the one where SSI was called).
Options are provided to request information from other systems in a JESplex (JES2 - from other members of MAS).
This SSI is supported by JES2 and JES3.

IAZSSJD mapping

Table 189. Structure

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
0	(0)	STRUCTURE		0		
0	(0)	X'53'		0	SSOBSSJD	"83" Device information SSI
Return codes from this SSI (SSOBRETN)						
0	(0)	X'0'		0	SSJDOK	"0" Request successful

IAZSSJD mapping

Table 189. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'4'	0	SSJDERRW	"4" Request completed with possible errors, see SSJDRETN for reason code
0	(0)	X'8'	0	SSJDERRU	"8" Request cannot be completed due to user error, see SSJDRETN for reason code
0	(0)	X'C'	0	SSJDERRJ	"12" Request cannot be completed due to an internal (JES) error, SSJDRETN contains internal JES reason code
0	(0)	X'10'	0	SSJDPARM	"16" Parameter list (SSOB extension) has invalid format - it is not an SSJD, the version number is not supported or the SSJD is not large enough
0	(0)	X'14'	0	SSJDESTOR	"20" Request cannot be processed because storage cannot be obtained. No data can be returned to the caller
Reason codes for non-zero return codes (SSJDRETN)					
0	(0)	X'4'	0	SSJDFTRE	"4" Invalid or contradictory filter was requested
0	(0)	X'8'	0	SSJDSPTTE	"8" Storage pointer is not valid
0	(0)	X'C'	0	SSJDSTRE	"12" Not enough storage
0	(0)	X'10'	0	SSJDSUBF	"16" Invalid subfunction requested
0	(0)	X'14'	0	SSJDLMTR	"20" Specified storage limit reached (see SSJDPLMT)
0	(0)	X'18'	0	SSJDINTE	"24" Internal error building system information data area
0	(0)	X'1C'	0	SSJDEYEE	"28" Incorrect eye catcher for the SSJD user parms area.
0	(0)	X'20'	0	SSJDUNSD	"32" SSJD Control block is wrong version
0	(0)	X'24'	0	SSJDSMLE	"36" SSJD Control block is wrong size
0	(0)	X'80'	0	SSJDSMAP	"128" Error with storage addressed by storage management anchor pointer - e.g. not key 1, fetch protected, incorrect eyecatcher
0	(0)	X'84'	0	SSJDSTGO	"132" STORAGE OBTAIN failed
0	(0)	X'88'	0	SSJDGLBL	"136" Global system is down level. SSI 83 is not supported on the global system (JES3)
0	(0)	X'8C'	0	SSJDPOST	"140" No response data received from the global (JES3)
0	(0)	X'90'	0	SSJDINVL	"144" Invalid response received from the global (JES3)
0	(0)	X'98'	0	SSJDRWIL	"152" SSJD1CHR = SSJDZOMO and not both are zero

The following data structure is an SSOB extension for SSI 83 - the parameter list which is passed on the call to the device information SSI.

Table 189. Structure (continued)

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	DBL WORD	8	SSJD(0)	SSOB extension - SSI parameter list
0	(0)	CHARACTER	8	SSJDEYE	I.Eye catcher
8	(8)	ADDRESS	2	SSJDLNG	I.Length of parameter list
10	(A)	ADDRESS	2	SSJDVRM	I.Parm list ver/mod
10	(A)	X'A'	0	SSJDVER	"SSJDVRM,1,C'A'" I.Parm list version
10	(A)	X'B'	0	SSJDMOD	"SSJDVRM+1,1,C'A'" I.Parm list modification
10	(A)	X'1'	0	SSJDVER1	"1" - original version
10	(A)	X'0'	0	SSJDMOD0	"0" - original modification
10	(A)	BITSTRING	0	SSJDVRM1	"X'0100'" - original ver/mod
10	(A)	BITSTRING	0	SSJDVRMC	"X'0100'" - latest ver/mod
12	(C)	ADDRESS	2	SSJDSVRM	O.Subsystem ver/mod
12	(C)	X'C'	0	SSJDSVER	"SSJDSVRM,1,C'A'" O.Subsystem version
12	(C)	X'D'	0	SSJDSMOD	"SSJDSVRM+1,1,C'A'" O.Subsystem modification
12	(C)	X'1'	0	SSJDSVR1	"1" - original version
12	(C)	X'0'	0	SSJDSMD0	"0" - original modification
12	(C)	BITSTRING	0	SSJDSVM1	"X'0100'" - original ver/mod
12	(C)	BITSTRING	0	SSJDSVMC	"X'0100'" - latest ver/mod
Requested function:					
- "obtain data" function returns device data in the storage managed by the SSI for that purpose. This function can be called as many times as needed. Each successive call will add more data to the output (unless SSJDPRLS option is used to release storage).					
- "release storage" function will release storage used by the data returned by the SSI. Note that "release storage" function ignores all options and filters in the SSI parameter list.					
14	(E)	ADDRESS	1	SSJDFREQ	I.Requested function:
14	(E)	X'4'	0	SSJDOBTD	"4" obtain data
14	(E)	X'8'	0	SSJDRSTG	"8" release storage
SSI supports several optional types of data. Note: some of this data can be of a very large size or relatively costly to obtain or both. Amount of data returned by the SSI in one call can be controlled using storage limit option. Note: storage limit is not precise - SSI will return control to caller when a logical point in processing is used. Incomplete call could be resumed using a restart option. SSI uses a SSJDTOKN field to resume processing. Processing options and data selection filters should not be changed when a restart call is made.					
15	(F)	BITSTRING	1	SSJDPOPT	I.Processing options:
		1...		SSJDPSES	"B'10000000'" return optional SNA session list (list of active LUs) with logon device data

IAZSSJD mapping

Table 189. Structure (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
		.1..	....		SSJDPSCK	"B'01000000'" return optional active socket list with NETSRV device data
		..1.	....		SSJDPRND	"B'00100000'" return optional reachable NJE node list with NJE connection or line device data
		...1	....		SSJDPLMT	"B'00010000'" stop returning data when the data uses more storage than specified in SSJDLIMIT
		....	1...		SSJDPRLS	"B'00001000'" release storage used by old data before returning new data
		....	.1..		SSJDPRST	"B'00000100'" restart interrupted processing using token in SSJDTOKN
		....	..1.		SSJDPD64	"B'00000010'" return data in 64-bit virtual private storage
		....	...1		SSJDPDMC	"B'00000001'" perform security label dominance check (this check is always performed for non-authorized callers)
16	(10)	BITSTRING		1	SSJDPOP2	I.Processing options (2):
		1...	....		SSJDP2AD	"B'10000000'" return additional data (line, logon or NETSRV device) with remote WS and NJE connection
		.1..	....		SSJDP2NF	"B'01000000'" apply name filter (see SSJD6NAM) to NJE connections rather than devices of other types
		..1.	....		SSJDP2SD	"B'00100000'" return all subdevices for the selected device regardless of filtering (applies to offloads, lines and NJE connections)
17	(11)	BITSTRING		1	SSJDFOPT	I.Output formatting options:
		1...	....		SSJDFLIN	"B'10000000'" "line view" - data for remote workstations and NJE connections is arranged according to lines which are used to access them. To access the data use SSJDLIN8/SSJDLINP pointer. Otherwise, this data is arranged according to device type/class. To access the data, use pointers other than SSJDLIN8/SSJDLINP.
		.1..	....		SSJDFDRM	"B'01000000'" Destination filter should also be checked vs. remote number for remote print/punch devices and device number for locals (JES2)

Table 189. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
<p>Specify SSJD1CHR and SSSJZOMO to tell the SSI service what characters in selection EBCDIC strings are considered wild cards. If SSJD1CHR and SSJDZOMO are not specified, the default wild cards used are "?" for SSJD1CHR and " " for SSJDZOMO. If either value is not X'00', i.e. if either is specified, then both provided values are used even if one value is X'00'. It is an error to specify equal values for SSJD1CHR and SSJDZOMO unless the equal values are X'00'. If both X'00', the default values are used.</p>					
18	(12)	CHARACTER	1	SSJD1CHR	I.Wild card matching exactly one character
19	(13)	CHARACTER	1	SSJDZOMO	I.Wild card matching 0 or more characters
20	(14)	SIGNED	4	SSJDLIMIT	I.Output size limit in KBytes (used with SSJDPLMT) - 0 means "no limit".
<p>The fields that follow specify filters which can be used to limit output to a subset of available data. Implicit OR is performed between filters in the same filter group. E.g. if SSJDFLT1 (device status filter) is set to SSJDIAC in addition to SSJDINA, the SSI will return data for all active devices in addition to data for all inactive devices. Implicit AND is performed between filters in the different filter groups. E.g. if SSJDFLT1 (device status filter) is set to SSJDIAC and SSJDFLT6 is set to SSJD6NAM (device name filter), the SSI will return only those active devices which also have names, matching the name selection filter. If filter is not recognized (e.g. filter added in a future release), or does not apply for a particular device type, it will not have impact on result. For example, JES3-only filters will not have impact on output from JES2. NOTE: All filtering considerations apply to JES2 only.</p>					
24	(18)	BITSTRING	3	(0)	IS.Device status filter group - includes all filters in SSJDFLT1 and SSJDFLT2 (see descriptions of device statuses later in this macro):
24	(18)	BITSTRING	1	SSJDFLT1	IS.Filter by device status (1):
		1... ..		SSJDIAC	"B'10000000'" select active devices
		.1..		SSJDINA	"B'01000000'" select inactive devices
		..1.		SSJD1HOT	"B'00100000'" select printers with hot writer (JES3)
		...1		SSJD1DRG	"B'00010000'" select draining devices

IAZSSJD mapping

Table 189. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		SSJD1DRN	"B'00001000'" select drained devices (JES2) or offline devices (JES3)
		111.		SSJD1NRM	"B'11100000'" composite status - select devices in a "normal" state. Devices in this state are available to process work
25	(19)	BITSTRING 1...	1	SSJDFLT2 SSJD2STE	IS.Filter by device status (2): "B'10000000'" select startable devices
		.1..		SSJD2STG	"B'01000000'" select starting devices
		..1.		SSJD2HTD	"B'00100000'" select halted devices
		...1		SSJD2PAU	"B'00010000'" select paused devices
		.... 1...		SSJD2HTG	"B'00001000'" select halting devices
		.... .1..		SSJD2INT	"B'00000100'" select devices requiring intervention/attention
		..11 11..		SSJD2PRB	"B'00111100'" composite status - select devices in a "problem" state. Devices in this state may require operator attention
		.... ..1.		SSJD2NRS	"B'00000010'" select not responding devices
		.... ...1		SSJD2END	"B'00000001'" select devices with processor ended due to error (JES2)
26	(1A)	BITSTRING	1		Reserved
27	(1B)	BITSTRING	3	(0)	IS.Device type filter group - includes all filters in SSJDFLT3 and SSJDFLT4
27	(1B)	BITSTRING 1...	1	SSJDFLT3 SSJD3PRT	IS.Filter by device type (1): "B'10000000'" select printers
		.1..		SSJD3PUN	"B'01000000'" select punches
		..1.		SSJD3RDR	"B'00100000'" select readers
		...1		SSJD3CON	"B'00010000'" select consoles
		.... 1...		SSJD3JXM	"B'00001000'" select job transmitters
		.... .1..		SSJD3JRC	"B'00000100'" select job receivers
		.... ..1.		SSJD3SXM	"B'00000010'" select SYSOUT transmitters
		.... ...1		SSJD3SRC	"B'00000001'" select SYSOUT receivers
		.... 1.1.		SSJD3XMT	"B'00001010'" composite device type filter - select all transmitters
		.... .1.1		SSJD3RCV	"B'00000101'" composite device type filter - select all receivers
28	(1C)	BITSTRING	1	SSJDFLT4	IS.Filter by device type (2):

Table 189. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		SSJD4LIN	"B'10000000'" select line devices
		.1..		SSJD4LGN	"B'01000000'" select logon devices
		..1.		SSJD4NSV	"B'00100000'" select NETSRV devices
		...1		SSJD4OFL	"B'00010000'" select OFFLOAD devices
		.... 1..		SSJD4NJE	"B'00001000'" select NJE connections
29	(1D)	BITSTRING	1		Reserved
30	(1E)	BITSTRING	2	(0)	IS.Device class filter group includes all filters in SSJDFLT5
30	(1E)	BITSTRING	1	SSJDFLT5	IS.Filter by device class:
		1...		SSJD5LCL	"B'10000000'" select local devices
		.1..		SSJD5RMT	"B'01000000'" select remote devices
		..1.		SSJD5OFL	"B'00100000'" select OFFLOAD devices (transmitters and receivers)
		...1		SSJD5NJE	"B'00010000'" select NJE devices (transmitters and receivers)
		.... 1..		SSJD5IFC	"B'00001000'" select interface devices (logon and NETSRV devices)
		.... .1..		SSJD5INT	"B'00000100'" select internal devices
31	(1F)	BITSTRING	1		Reserved
Remaining filters are independent and are not combined in filter groups.					
32	(20)	BITSTRING	1	SSJDFLT6	IS.Device attribute filters:
		1...		SSJD6NAM	"B'10000000'" by device name (see SSJDDVNM)
		.1..		SSJD6DGN	"B'01000000'" by device group name (JES3) (see SSJDDGNM)
		..1.		SSJD6SYS	"B'00100000'" by owning system name (see SSJDSYSN)
		...1		SSJD6MBR	"B'00010000'" by owning member name (JES2) (see SSJDMBRN)
		.... 1..		SSJD6LIN	"B'00001000'" by related line name (see SSJDLNNM) (JES2)
<p>The following filters only apply to devices, which support the relevant attribute. Applying these filters to other devices will not impact the result. E.g. if device type filter was used to select line devices, specifying filters over work selection criteria will not have any effect on the result - because line devices do not have work selection criteria.</p>					
33	(21)	BITSTRING	1	SSJDFLT7	IS.Filters which only apply to specific device types (1):

IAZSSJD mapping

Table 189. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1... ..		SSJD7RWN	"B'10000000'" select remote devices by remote workstation name (see SSJDRWNM)
		.1.. ..		SSJD7NJNI	"B'01000000'" select NJE devices by adjacent node name (see SSJDADJN) (JES2)
		..1.		SSJD7NJA	"B'00100000'" select SNA NJE connections by SNA application name (see SSJDAPNM) (JES2)
		...1		SSJD7NJK	"B'00010000'" select TCP NJE connections by TCP socket name (see SSJDSKNM) (JES2)
		.... 1..		SSJD7NJB	"B'00001000'" select remote and NJE devices connected via BSC
		.... .1..		SSJD7NJS	"B'00000100'" select remote and NJE devices connected via SNA
		.... ..1.		SSJD7NJT	"B'00000010'" select remote and NJE devices connected via TCP/IP
34	(22)	BITSTRING	1	SSJDFLT8	IS.Filters which only apply to specific device types (2):
		1... ..		SSJD8JES	"B'10000000'" select JES mode printers
		.1.. ..		SSJD8FSS	"B'01000000'" select FSS mode printers
35	(23)	BITSTRING	1	SSJDFLT9	IS.Filters which only apply to specific device types (3) - by work selection criteria:
		1... ..		SSJD9CLS	"B'10000000'" select by output class name (see SSJDWSCL)
		.1.. ..		SSJD9FRM	"B'01000000'" select by form name (see SSJDWSFM)
		..1.		SSJD9JBN	"B'00100000'" select by job name (see SSJDWSJN)
		...1		SSJD9DST	"B'00010000'" select by destination id (see SSJDWSDS)
		.... 1..		SSJD9WRT	"B'00001000'" select by writer name (see SSJDWSWR)
		.... .1..		SSJD9PRM	"B'00000100'" select by processing mode (see SSJDWSPR)
36	(24)	BITSTRING	1	SSJDFLTZ	IS.Filters which only apply to specific device types (4) - by attributes of the work unit currently processed by device:
		1... ..		SSJDZJOB	"B'10000000'" select by name of the job currently processed (see SSJDAJOB)
		.1.. ..		SSJDZCRT	"B'01000000'" select by owner of the job currently processed or by creator of the SYSOUT dataset currently processed (see SSJDACRT)
37	(25)	BITSTRING	5		Reserved

Table 189. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					<p>Device name filter consists of two parts:</p> <ul style="list-style-type: none"> - wildcard filter (SSJDDVNM) - name list filter (SSJDDVNA and SSJDDVN#) <p>Device will pass the filter if it matches any of these two parts.</p> <p>Both parts of device name filter are controlled by the same bit (SSJD6NAM).</p> <p>Name list is specified by a pointer to a list (SSJDDVNA) and number of elements in a list (SSJDDVN#). Each element in a list is a pair of 10-character device names, which define a range of device names.</p> <p>To disable the wildcard part of the filter, set it to blanks. To disable the list part of the filter, set pointer or number of elements to zero.</p> <p>For example, one way to select devices with names LINE1 and PRT100-PRT200 is to set wildcard part to 'LINE1' (this will match a single device name), and create a list with one element - a pair of values 'PRT100' and 'PRT200' (this will match a range of device names).</p> <p>The device name filter should return the matching device regardless of what is set for device type and class filters. So, for example, if SSJD5RMT is set to indicate remote subdevices, and a device name of PRT5 is specified, then all remote devices and local device PRT5 will be returned.</p>
42	(2A)	CHARACTER	10	SSJDDVNM	IS*.Device name for selection (used with SSJD6NAM)
52	(34)	ADDRESS	4	SSJDDVNA	IS. Pointer to device name range list (used with SSJD6NAM)
56	(38)	SIGNED	4	SSJDDVN#	IS. Number of elements in device name range list (used with SSJD6NAM)
					<p>Device group name filter consists of two parts:</p> <ul style="list-style-type: none"> - wildcard filter (SSJDDGNM) - name list filter (SSJDDGNA and SSJDDGN#) <p>Device group will pass the filter if it matches any of these two parts.</p> <p>Both parts of device group name filter are controlled by the same bit (SSJD6DGN).</p> <p>Name list is specified by a pointer to a list (SSJDDGNA) and number of elements in a list (SSJDDGN#). Each element in a list is a pair of 8-character device group names, which define a range of device group names.</p> <p>To disable the wildcard part of the filter, set it to blanks. To disable the list part of the filter, set pointer or number of elements to zero.</p> <p>For example, to select device groups with names DGRP1 and DGRP100-DGRP200, set wildcard part to 'DGRP1' (this will match a single device group), and create a list with one element - a pair of values 'DGRP100' and 'DGRP200' (this will match a range of device group names).</p>
60	(3C)	CHARACTER	8	SSJDDGNM	IS*.Device group name for selection (used with SSJD6DGN)

IAZSSJD mapping

Table 189. Structure (continued)

Offset	Offset					
Dec	Hex	Type	Len	Name(Dim)		Description
68	(44)	ADDRESS	4	SSJDDGNA		IS. Pointer to device group name list (used with SSJD6DGN)
72	(48)	SIGNED	4	SSJDDGN#		IS. Number of elements in device group name list (used with SSJD6DGN)
76	(4C)	CHARACTER	8	SSJDSYSN		IS*.System name for selection (used with SSJD6SYS)
84	(54)	CHARACTER	8	SSJDMBRN		IS*.Member name for selection (used with SSJD6MBR)
92	(5C)	CHARACTER	10	SSJDLNMM		IS*.Line name for selection (used with SSJD6LIN)
102	(66)	CHARACTER	10	SSJDRWNM		IS*.Remote workstation name for selection (used with SSJD7RWN)
112	(70)	CHARACTER	8	SSJDADJN		IS*.Adjacent node name for selection (used with SSJD7NJN)
120	(78)	CHARACTER	8	SSJDAPNM		IS*.SNA application name for selection (used with SSJD7NJA)
128	(80)	CHARACTER	8	SSJDSKNM		IS*.TCP socket name for selection (used with SSJD7NJK)
136	(88)	CHARACTER	8	SSJDWSCL		IS*.Output class name for selection (used with SSJD9CLS)
144	(90)	CHARACTER	8	SSJDWSFM		IS*.Form name for selection (used with SSJD9FRM)
152	(98)	CHARACTER	8	SSJDWSJN		IS*.Job name for selection (used with SSJD9JBN)
160	(A0)	CHARACTER	18	SSJDWSDS		IS*.Destination id for selection (used with SSJD9DST)
178	(B2)	CHARACTER	8	SSJDWSWR		IS*.Writer name for selection (used with SSJD9WRT)
186	(BA)	CHARACTER	8	SSJDWSPR		IS*.Processing mode for selection (used with SSJD9PRM)
194	(C2)	CHARACTER	8	SSJDAJOB		IS*.Name of the job currently processed by device (used with SSJDZJOB)
202	(CA)	CHARACTER	8	SSJDACRT		IS*.Owner of the job currently processed or creator of SYSOUT currently processed (used with SSJDZCRM)
210	(D2)	BITSTRING	2			Reserved
<p>Destination filter consists of two parts: - wildcard filter (SSJDWSDS - see above) - name list filter (SSJDDSTA and SSJDDST#) Destination will pass the filter if it matches any of these two parts. Both parts of destination name filter are controlled by the same bit (SSJD9DST). Name list is specified by a pointer to a list (SSJDDSTA) and number of elements in a list (SSJDDST#). Each element in a list is a 18-character destination name. To disable the wildcard part of the filter, set it to blanks. To disable the list part of the filter, set pointer or number of elements to zero.</p>						
212	(D4)	ADDRESS	4	SSJDDSTA		IS. Pointer to destination name list (used with SSJD6DGN)

Table 189. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
216	(D8)	SIGNED	4	SSJDST#	IS. Number of elements in destination name list (used with SSJD6DGN)
220	(DC)	SIGNED	4	(8)	Reserved
Output fields set by the SSI.					
252	(FC)	SIGNED	4	SSJCRETN	0.Reason code for a return code in SSOBRETN. Provides more details about an error
256	(100)	ADDRESS	8	SSJDLCL8	0.Ptr to chain of local devices
256	(100)	X'104'	0	SSJDLCLP	"SSJDLCL8+4,4,C'A'" 31-bit part of a pointer
264	(108)	ADDRESS	8	SSJDRMT8	0.Ptr to chain of remote (RJE) workstations (see JDWHRMTW)
264	(108)	X'10C'	0	SSJDRMTP	"SSJDRMT8+4,4,C'A'" 31-bit part of a pointer
272	(110)	ADDRESS	8	SSJDNJE8	0.Ptr to chain of NJE connections (see JDJHNJEC)
272	(110)	X'114'	0	SSJDNJEP	"SSJDNJE8+4,4,C'A'" 31-bit part of a pointer
280	(118)	ADDRESS	8	SSJDOFL8	0.Ptr to chain of OFFLOAD devices (see JDOH0FLD)
280	(118)	X'11C'	0	SSJDOFLP	"SSJDOFL8+4,4,C'A'" 31-bit part of a pointer
288	(120)	ADDRESS	8	SSJDIFC8	0.Ptr to chain of interface devices (see JDGHLOGN and JDNHNSRV)
288	(120)	X'124'	0	SSJDIFCP	"SSJDIFC8+4,4,C'A'" 31-bit part of a pointer
296	(128)	ADDRESS	8	SSJDLIN8	0.Ptr to chain of line devices (see JDLHLINE)
296	(128)	X'12C'	0	SSJDLINP	"SSJDLIN8+4,4,C'A'" 31-bit part of a pointer
304	(130)	ADDRESS	8	SSJDSIN8	0.Ptr to system/member data (see JDSIHDR)
304	(130)	X'134'	0	SSJDSINP	"SSJDSIN8+4,4,C'A'" 31-bit part of a pointer
312	(138)	SIGNED	4	SSJDLCL#	0.Number of local devices returned (in SSJDLCL8/SSJDLCLP chain)
316	(13C)	SIGNED	4	SSJDRMT#	0.Number of remote workstations returned (in SSJDRMT8/SSJDRMTP chain)
320	(140)	SIGNED	4	SSJDRDV#	0.Number of remote subdevices returned (on all JDWHDEV8 chains)
324	(144)	SIGNED	4	SSJDNJE#	0.Number of NJE connections returned (in SSJDNJE8/SSJDNJEP chain)
328	(148)	SIGNED	4	SSJJDV#	0.Number of NJE subdevices returned (on all JDJHDEV8 chains)
332	(14C)	SIGNED	4	SSJDOFL#	0.Number of OFFLOAD devices returned (in SSJDOFL8/SSJDOFLP chain)

IAZSSJD mapping

Table 189. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
336	(150)	SIGNED	4	SSJDODV#	0.Number of offload subdevices returned (on all JDOHDEV8 chains)
340	(154)	SIGNED	4	SSJDSRV#	0.Number of interface devices returned (in SSJDIFC8/SSJDIFCP chain)
344	(158)	SIGNED	4	SSJDLIN#	0.Number of line devices returned (in SSJDLIN8/SSJDLINP chain)
348	(15C)	SIGNED	4	SSJDNDV#	0.Number of line subdevices returned (on all JDLHDEV8 chains)
352	(160)	SIGNED	4	SSJDSIN#	0.Number of system/member data areas (in SSJDSIN8/SSJDSINP chain)
356	(164)	BITSTRING	12		Reserved
<p>SSJDSTRP is a storage management anchor for use by the SSI. The caller must set this field to zero on the first call to SSI and after that this field is managed by the subsystem.</p>					
368	(170)	ADDRESS	8	SSJDSTRP	0.Storage management anchor
<p>SSJDTOKN is a token generated by subsystem when SSI call is interrupted according to storage limit option. SSI will resume processing from a place indicated by the token if restart option is selected. The caller must set this field to zero on the first call to SSI and after that this field is managed by the subsystem.</p>					
376	(178)	BITSTRING	32	SSJDTOKN	0.Continuation token (used with SSJDPST)
408	(198)	SIGNED	4	(10)	Reserved
408	(198)	X'1C0'	0	SSJDSZE1	"*-SSJD" Version 1 length
408	(198)	X'1C0'	0	SSJDSIZE	"*-SSJD" Current version length
408	(198)	X'1E0'	0	SSJDLEN8	"((SSOBHSIZ+7)/8)*8+SSJDSIZE" Total length of SSOB with SSOB extension
<p>Subsequent definitions describe data returned by the device information SSI. Definition of common symbols Supported device groups</p>					
		...1		JDDGCONS	"X'10'" Consoles
		..1.		JDDGIFC	"X'20'" Interface devices (logon devices and NETSRV)
		..11		JDDGLINE	"X'30'" Lines
		.1..		JDDGOFLD	"X'40'" OFFLOAD devices
		.1.1		JDDGPRT	"X'50'" Printers
		.11.		JDDGPUN	"X'60'" Punches
		.111		JDDGRDR	"X'70'" Readers
		1...		JDDGRCV	"X'80'" Receivers
		1..1		JDDGXMT	"X'90'" Transmitters
<p>Supported device types</p>					

Table 189. Structure (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
408	(198)	X'11'		0	JDDTCONS	"JDDGCONS+1" Console X'11'
408	(198)	X'21'		0	JDDTLOGN	"JDDGIFC+1" Logon device X'21'
408	(198)	X'22'		0	JDDTNSRV	"JDDGIFC+2" NETSRV X'22'
408	(198)	X'31'		0	JDDTLINE	"JDDGLINE+1" Line X'31'
408	(198)	X'41'		0	JDDTOFLD	"JDDGOFLD+1" OFFLOAD device X'41'
408	(198)	X'51'		0	JDDTPRT	"JDDGPRT+1" Printer X'51'
408	(198)	X'61'		0	JDDTPUN	"JDDGPUN+1" Punch X'61'
408	(198)	X'71'		0	JDDTRDR	"JDDGRDR+1" Reader X'71'
408	(198)	X'81'		0	JDDTJRCV	"JDDGRCV+1" Job receiver X'81'
408	(198)	X'82'		0	JDDTSRCV	"JDDGRCV+2" SYSOUT receiver X'82'
408	(198)	X'91'		0	JDDTJXMT	"JDDGXMT+1" Job transmitter X'91'
408	(198)	X'92'		0	JDDTSXMT	"JDDGXMT+2" SYSOUT transmitter X'92'
Supported device classes						
	....	...1			JDDCLCL	"X'01" Local devices
	....	..1.			JDDCIFC	"X'02" Interface devices (logon and NETSRV devices)
	....	..11			JDDCINT	"X'03" Internal devices
	....	.1..			JDDCNJE	"X'04" NJE devices
	....	.1.1			JDDCOFLD	"X'05" OFFLOAD devices
	....	.11.			JDDCRMT	"X'06" Remote devices
Matrix of supported device class/device type combinations.						
	J	J	J	J	J	
	D	D	D	D	D	
	D	D	D	D	D	
	C	C	C	C	C	
	L	I	I	N	O	R
	C	F	N	J	F	M
	L	C	T	E	L	T
JDDTCONS	X					
JDDTLOGN	X					
JDDTNSRV	X					
JDDTLINE	X					
JDDTOFLD	X					
JDDTPRT	X	X				
JDDTPUN	X	X				
JDDTRDR	X	X	X			
JDDTJRCV	X	X				
JDDTSRCV	X	X				
JDDTJXMT	X	X				
JDDTSXMT	X	X				
Device status equates.						
Status for all devices reported by the SSI is represented as two status bytes.						
Full device status may be a combination of more than one basic status (bit).						
Bits in the status bytes are defined as follows:						
First status byte						
	1...	....			JDSTIACT	"B'10000000'" Active - device is currently busy processing work

IAZSSJD mapping

Table 189. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		JDST1INA	"B'01000000'" Inactive - device is ready for work but is not processing work now Available (JES3)
		...1		JDST1DRG	"B'00010000'" Draining - device is active but will stop after the current unit of work (JES2) Ending (JES3)
		.... 1...		JDST1DRN	"B'00001000'" Drained - device is configured but is not available (JES2) Offline (JES3)
		.... .1..		JDST1ACO	"B'00000100'" Device is active but varied offline (JES3)
Second status byte					
		1...		JDST2STE	"B'10000000'" Startable - device is not ready for work, but has necessary resources to be started
		.1..		JDST2STG	"B'01000000'" Starting - device is in the process of being started
		..1.		JDST2HTD	"B'00100000'" Halted - device was halted via HALT command
		...1		JDST2PAU	"B'00010000'" Paused - device was paused via PAUSE command
		.... 1...		JDST2HTG	"B'00001000'" Halting - device is in the process of being halted
		.... .1..		JDST2INT	"B'00000100'" Intervention required - device needs operator attention
		.... ..1.		JDST2NRS	"B'00000010'" Device not responding
		.... ...1		JDST2END	"B'00000001'" Ended - Processor ended due to error (JES2)
Attributes used in work selection criteria					
		.... ...1		JDWSCLAS	"X'01'" Class
		.... ..1.		JDWSCRTN	"X'02'" Owner/creator of unit of work
		.... ..11		JDWSFCBN	"X'03'" FCB name
		.... .1..		JDWSFLID	"X'04'" Flash id
		.... .1.1		JDWSFORM	"X'05'" Form name
		.... .11.		JDWSJBID	"X'06'" Job id/number range
		.... .111		JDWSJBNM	"X'07'" Jobname
		.... 1...		JDWSOPTY	"X'08'" Output priority
		.... 1..1		JDWSPRMD	"X'09'" Processing mode
		.... 1.1.		JDWSUCSN	"X'0A'" UCS name
		..1. ...1		JDWSBRST	"X'21'" Burst setting (JES2)
		..1. .1.		JDWSHLDI	"X'22'" Hold indicator (JES2)
		..1. ..11		JDWSJBLM	"X'23'" Job size limit in records (JES2)

Table 189. Structure (continued)

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
		..1. .1..		JDWSMBAF	"X'24'" MAS member affinity (JES2)
		..1. .1.1		JDWSOUTD	"X'25'" OUTDISP setting (JES2)
		..1. .11.		JDWSRCJ2	"X'26'" Route code/destination (JES2)
		..1. .111		JDWSSCHE	"X'27'" Scheduling environment (JES2)
		..1. 1...		JDWSSLSH	"X'28'" "Slash" - separates "must have" attributes from preferences (JES2)
		..1. 1..1		JDWSSOSP	"X'29'" SYSOUT size limit (pages) (JES2)
		..1. 1.1.		JDWSSOSR	"X'2A'" SYSOUT size limit (records) (JES2)
		..1. 1.11		JDWSSRVC	"X'2B'" Service class (JES2)
		..1. 11..		JDWSSVAF	"X'2C'" Spool volume affinity (JES2)
		..1. 11.1		JDWSUSRD	"X'2D'" User-defined criteria (JES2)
		..1. 111.		JDWSWRN	"X'2E'" Writer name (JES2)
		..11 ...1		JDWSCHRS	"X'31'" CHARS setting (JES3)
		..11 ..1.		JDWSCPID	"X'32'" Copy modification id (JES3)
		..11 ..11		JDWSDEVT	"X'33'" Device type (JES3)
		..11 .1..		JDWSRCJ3	"X'34'" Route code/destination (JES3)
		..11 .1.1		JDWSSTAK	"X'35'" Stacker setting (JES3)

IAZSSJD mapping

Table 189. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
<p>Data structures returned by the SSI. After successful call to the SSI, data areas with data for specific device types are added to chains pointed to by the following fields in the parameter list:</p> <ul style="list-style-type: none"> - SSJDLCL8/SSJDLCLP - chain of local devices - SSJDRMT8/SSJDRMTP - chain of remote workstations - SSJDNJE8/SSJDNJEP - chain of NJE connections - SSJDOFL8/SSJDOFLP - chain of OFFLOAD devices - SSJDIFC8/SSJDIFCP - chain of interface devices - SSJDLIN8/SSJDLINP - chain of line devices <p>Data area for each device consists of the following contiguous data structures:</p> <ul style="list-style-type: none"> - header, which has an eye catcher and contains all pointers used for chaining data structures - prefix section, which defines the type of data contained within this header and also accounts for the length of all sections within the header - one or more data sections, which contain data specific for a particular device <p>Each section has a section type and section type modifier. Modifier 0 is reserved for a prefix section.</p> <p>In addition, field SSJDSIN8/SSJDSINP points to a chain of system information data areas. One such data area is returned for each SSI call, provided that at least one system/member matches system and member selection filters. This data area returns basic data about systems (or members) in a JESplex, which were processed to obtain data for this SSI call.</p> <p>System information data area consists of the following contiguous data structures:</p> <ul style="list-style-type: none"> - Header (JDSIHDR) - Prefix section (JPSYSPRF in macro IAZJPLXI) - System information section (JPSYSINF in macro IAZJPLXI) 					
<p>Note that repeated calls to the "obtain data" subfunction of this SSI (SSJDOBTD) without intervening call to "release storage" subfunction (SSJDRSTG), will cause data from a new SSI call to be prepended to data from an earlier SSI call. Section types and modifiers - these values identify the type of data contained in the data sections returned by the SSI.</p>					
408	(198)	X'1'	0	JDTYCONS	"1" Console data
408	(198)	X'2'	0	JDTYLOGN	"2" Logon device data
408	(198)	X'3'	0	JDTYNSRV	"3" NETSRV data
408	(198)	X'4'	0	JDTYLINE	"4" Line data
408	(198)	X'5'	0	JDTYPRPU	"5" Printer/punch data
408	(198)	X'6'	0	JDTYRDR	"6" Reader device data
408	(198)	X'7'	0	JDTYOFLD	"7" OFFLOAD device data
408	(198)	X'8'	0	JDTYJBRC	"8" Job receiver data
408	(198)	X'9'	0	JDTYSYRC	"9" SYSOUT receiver data
408	(198)	X'A'	0	JDTYJBXM	"10" Job transmitter data
408	(198)	X'B'	0	JDTYSYXM	"11" SYSOUT transmitter data
408	(198)	X'C'	0	JDTYNJEC	"12" NJE Connection data
408	(198)	X'D'	0	JDTYRMTW	"13" Remote workstation data

Table 189. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
408	(198)	X'E'	0	JDTYAPPL	"14" SNA application section
408	(198)	X'F'	0	JDTYSOCK	"15" TCP socket section
408	(198)	X'10'	0	JDTYRNOD	"16" Reachable NJE nodes section
408	(198)	X'11'	0	JDTYACLU	"17" Active LU list section (SNA session list)
408	(198)	X'12'	0	JDTYACSK	"18" Active TCP socket list section
408	(198)	X'13'	0	JDTYJOBI	"19" Active job information section
408	(198)	X'14'	0	JDTYOUTI	"20" Active output information section
408	(198)	X'FF'	0	JDTYJRSV	"255" Reserved for internal JES use
Modifiers for console data (JDTYCONS)					
		.... ....		JDMDCNPX	"X'00'" Prefix section
		.... ...1		JDMDCNCM	"X'01'" Console device common section
		..1.		JDMDCNJ2	"X'20'" Console device JES2 section
		..11		JDMDCNJ3	"X'30'" Console device JES3 section
Modifiers for logon device data (JDTYLOGN)					
		.... ....		JDMDLGPX	"X'00'" Prefix section
		.... ...1		JDMDLGCM	"X'01'" Logon device common section
		..1.		JDMDLGJ2	"X'20'" Logon device JES2 section
		..11		JDMDLGJ3	"X'30'" Logon device JES3 section
Modifiers for NETSRV data (JDTYNSRV)					
		.... ....		JDMDNSPX	"X'00'" Prefix section
		.... ...1		JDMDNSCM	"X'01'" NETSRV device common section
		..1.		JDMDNSJ2	"X'20'" NETSRV device JES2 section
		..11		JDMDNSJ3	"X'30'" NETSRV device JES3 section
Modifiers for line data (JDTYLINE)					
		.... ....		JDMDLNPX	"X'00'" Prefix section
		.... ...1		JDMDLNCM	"X'01'" Line device common section
		..1.		JDMDLNJ2	"X'20'" Line device JES2 section
		..11		JDMDLNJ3	"X'30'" Line device JES3 section
Modifiers for printer/punch data (JDTYPRPU)					
		.... ....		JDMDPPFX	"X'00'" Prefix section
	1		JDMDPPCM	"X'01'" Printer/punch common section
		..1.		JDMDPPJ2	"X'20'" Printer/punch JES2 section

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Table 189. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
	..11	....		JDMDPPJ3	"X'30'" Printer/punch JES3 section
	....	..1.		JDMDPPWS	"X'02'" Prt/punch work selection section
	....	..11		JDMDPPFS	"X'03'" N/I printer section
	....	..1.		JDMDPPRM	"X'04'" Remote printer section
Modifiers for reader device data (JDTYRDR)					
	....	....		JDMDRDPX	"X'00'" Prefix section
	....	...1		JDMDRDCM	"X'01'" Reader device common section
	..1.	....		JDMDRDJ2	"X'20'" Reader device JES2 section
	..11	....		JDMDRDJ3	"X'30'" Reader device JES3 section
	....	..1.		JDMDRDIN	"X'02'" Internal reader section
Modifiers for OFFLOAD device data (JDTYOFLD)					
	....	....		JDMDOFPX	"X'00'" Prefix section
	....	...1		JDMDOFCM	"X'01'" OFFLOAD device common section
	..1.	....		JDMDOFJ2	"X'20'" OFFLOAD device JES2 section
Modifiers for job receiver data (JDTYJBRC)					
	....	....		JDMDJRPX	"X'00'" Prefix section
	....	...1		JDMDJRRCM	"X'01'" Job receiver common section
	..1.	....		JDMDJRJ2	"X'20'" Job receiver JES2 section
	..1.	...1		JDMDJROF	"X'21'" Job receiver OFFLOAD section
Modifiers for SYSOUT receiver data (JDTYSYRC)					
	....	....		JDMDSRPX	"X'00'" Prefix section
	....	...1		JDMSRRCM	"X'01'" SYSOUT receiver common section
	..1.	....		JDMSRJ2	"X'20'" Job transmitter JES2 section
	..1.	...1		JDMSROF	"X'21'" SYSOUT receiver OFFLOAD section
Modifiers for job transmitter data (JDTYJBXM)					
	....	....		JDMDJTPX	"X'00'" Prefix section
	....	...1		JDMDJTCM	"X'01'" Job transmitter common section
	..1.	....		JDMDJTJ2	"X'20'" Job transmitter JES2 section
	..1.	...1		JDMDJT2N	"X'21'" Job transmitter NJE section
	..1.	..1.		JDMDJTOF	"X'22'" Job transmitter OFFLOAD section
Modifiers for SYSOUT transmitter data (JDTYSYXM)					
	....	....		JDMDSTPX	"X'00'" Prefix section

Table 189. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ...1		JDMDSTCM	"X'01'" SYSOUT transmitter common section
		..1.		JDMDSTJ2	"X'20'" SYSOUT transmitter JES2 section
		..1. ...1		JDMDSTJN	"X'21'" SYSOUT transmitter NJE section
		..1. ..1.		JDMDSTOF	"X'22'" SYSOUT transmitter OFFLOAD section
Modifiers for NJE connection data (JDTYNJEC)					
			JDMDNJPX	"X'00'" Prefix section
		.... ...1		JDMDNJCM	"X'01'" NJE Connection common section
Modifiers for remote workstation data (JDTYRMTW)					
			JDMDRWPX	"X'00'" Prefix section
		.... ...1		JDMDRWCM	"X'01'" Remote workstation common section
		..1.		JDMDRWJ2	"X'20'" Remote workstation JES2 section
		.... ..1.		JDMDRWBS	"X'02'" Remote workstation BSC section
		.... ..11		JDMDRWSN	"X'03'" Remote workstation SNA section
Modifiers for SNA application data (JDTYAPPL)					
		.... ...1		JDMDAPCM	"X'01'" SNA application common section
		..1.		JDMDAPJ2	"X'20'" SNA application JES2 section
Modifiers for TCP socket data (JDTYSOCK)					
		.... ...1		JDMDSKCM	"X'01'" TCP socket common section
		..1.		JDMDSKJ2	"X'20'" TCP socket JES2 section
Modifiers for active job data (JDTYJOBI)					
		.... ...1		JDMDJBCM	"X'01'" Common section
Modifiers for active output data (JDTYOUTI)					
		.... ...1		JDMDOTCM	"X'01'" Common section
		..1.		JDMDOTJ2	"X'20'" JES2 section
		..11		JDMDOTJ3	"X'30'" JES3 section

Table 190. Structure JDCXPREF

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDCXPREF	, Prefix section
0	(0)	ADDRESS	4	JDCXLNG	In a prefix section - total length of all sections for this header (not including header itself) In all other sections - length of that section
4	(4)	ADDRESS	1	JDCXTYPE	Section type

IAZSSJD mapping

Table 190. Structure JDCXPREF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
5	(5)	ADDRESS	1	JDCXMOD	Section type modifier
6	(6)	BITSTRING	2		Reserved
8	(8)	BITSTRING	1	JDCXDATA(0)	Beginning of section data
8	(8)	X'8'	0	JDCXSIZE	"*-JDCXPREF" Prefix section size

Table 191. Structure JDCHCONS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDCHCONS	, Console device header
0	(0)	CHARACTER	8	JDCHEYE	Eye catcher
8	(8)	ADDRESS	2	JDCHOHDR	Offset to first (prefix) section
10	(A)	BITSTRING	6		Reserved
16	(10)	ADDRESS	8	JDCHJPL8	Address of IAZJPLXI for this device
16	(10)	X'14'	0	JDCHJPLX	"JDCHJPL8+4,4,C'A'" 31-bit part of a pointer
24	(18)	ADDRESS	8	JDCHNEX8	Address of header of the next device (this remote)
24	(18)	X'1C'	0	JDCHNEXT	"JDCHNEX8+4,4,C'A'" 31-bit part of a pointer
32	(20)	ADDRESS	8	JDCHPAR8	Address of parent device (remote or line)
32	(20)	X'24'	0	JDCHPARN	"JDCHPAR8+4,4,C'A'" 31-bit part of the pointer
32	(20)	X'28'	0	JDCHSIZE	"*-JDCHCONS" Header size (internal use only)

Table 192. Structure JDCCCONS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDCCCONS	, Console device common section
0	(0)	ADDRESS	4	JDCCLNG	Length of this section
4	(4)	ADDRESS	1	JDCCTYPE	Section type
5	(5)	ADDRESS	1	JDCCMOD	Section type modifier
6	(6)	BITSTRING	2		Reserved
8	(8)	ADDRESS	1	JDCCDEVT	Device type
9	(9)	ADDRESS	1	JDCCDEVC	Device class
10	(A)	CHARACTER	10	JDCCNAME	Device name
20	(14)	BITSTRING	8		Reserved
28	(1C)	BITSTRING	2	JDCCSTAT(0)	Device status: (see common device status flags)
28	(1C)	BITSTRING	1	JDCCSTA1	first status byte
29	(1D)	BITSTRING	1	JDCCSTA2	second status byte
30	(1E)	CHARACTER	8	JDCCSYSN	Owning MVS system name
38	(26)	CHARACTER	8	JDCCMBRN	JESplex member name
46	(2E)	CHARACTER	8	JDCCSECL	Security label
54	(36)	BITSTRING	2		Reserved
56	(38)	CHARACTER	8	JDCCSTA	Status, character value
56	(38)	X'40'	0	JDCCSIZE	"*-JDCCCONS" Size of console common section (internal use only)

Table 193. Structure JDC2CONS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDC2CONS	, Console device JES2 section
0	(0)	ADDRESS	4	JDC2LNG	Length of this section
4	(4)	ADDRESS	1	JDC2TYPE	Section type
5	(5)	ADDRESS	1	JDC2MOD	Section type modifier
6	(6)	BITSTRING	2		Reserved
8	(8)	BITSTRING	3	JDC2DVID	Binary device id
11	(B)	BITSTRING	1		Reserved
11	(B)	X'C'	0	JDC2SIZE	"*-JDC2CONS" Size of console JES2 section (internal use only)

Table 194. Structure JDC3CONS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDC3CONS	, Console device JES3 section
0	(0)	ADDRESS	4	JDC3LNG	Length of this section
4	(4)	ADDRESS	1	JDC3TYPE	Section type
5	(5)	ADDRESS	1	JDC3MOD	Section type modifier
6	(6)	BITSTRING	2		Reserved
8	(8)	ADDRESS	1	JDC3AUTH	Authority level (0-15)
9	(9)	BITSTRING	3		Reserved
<p>Array of routing codes This is variable size array of fixed-size character strings which represent routing codes.</p>					
12	(C)	ADDRESS	2	JDC3RTCO	Offset from the beginning of DSECT to the first Routing Code
14	(E)	ADDRESS	2	JDC3RTC#	Number of elements in array
16	(10)	ADDRESS	2	JDC3RTCL	Length of each element
<p>Array of destination classes This is variable size array of fixed-size character strings which represent destination classes.</p>					
18	(12)	ADDRESS	2	JDC3DSTO	Offset from the beginning of DSECT to the first Destination Class
20	(14)	ADDRESS	2	JDC3DST#	Number of elements in array
22	(16)	ADDRESS	2	JDC3DSTL	Length of each element
22	(16)	X'18'	0	JDC3SIZE	"*-JDC3CONS" Size of console JES3 section (internal use only)

Table 195. Structure JDGHLOGN

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDGHLOGN	, Logon device header
0	(0)	CHARACTER	8	JDGHEYE	Eye catcher
8	(8)	ADDRESS	2	JDGHOHDR	Offset to first (prefix) section
10	(A)	BITSTRING	1	JDGHFLAG	Header flags
		1...		JDGHFHCN	"B'10000000'" this header has continuation

IAZSSJD mapping

Table 195. Structure JDGHLOGN (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		JDGHFICN	"B'01000000'" this header is continuation
11	(B)	BITSTRING	5		Reserved
16	(10)	ADDRESS	8	JDGHJPL8	Address of IAZJPLXI for this device
16	(10)	X'14'	0	JDGHJPLX	"JDGHJPL8+4,4,C'A'" 31-bit part of a pointer
24	(18)	ADDRESS	8	JDGHNEX8	Address of header of the next device
24	(18)	X'1C'	0	JDGHNEXT	"JDGHNEX8+4,4,C'A'" 31-bit part of a pointer
32	(20)	ADDRESS	8	JDGHPAR8	Address of parent device (remote, NJE conn or none)
32	(20)	X'24'	0	JDGHPARN	"JDGHPAR8+4,4,C'A'" 31-bit part of a pointer
40	(28)	ADDRESS	8	JDGHCON8	Address of continuation header
40	(28)	X'2C'	0	JDGHCONT	"JDGHCON8+4,4,C'A'" 31-bit part of a pointer
40	(28)	X'30'	0	JDGHSIZE	"*-JDGHLOGN" Header size (internal use only)

Table 196. Structure JDGCLOGN

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDGCLOGN	, Logon device common section
0	(0)	ADDRESS	4	JDGCCLNG	Length of this section
4	(4)	ADDRESS	1	JDGCCTYPE	Section type
5	(5)	ADDRESS	1	JDGCCTMOD	Section type modifier
6	(6)	BITSTRING	2		Reserved
8	(8)	ADDRESS	1	JDGCDEVTYPE	Device type
9	(9)	ADDRESS	1	JDGCDEVCLASS	Device class
10	(A)	CHARACTER	10	JDGCCTNAME	Device name
20	(14)	CHARACTER	8	JDGCCTAPPL	SNA application name
28	(1C)	BITSTRING	2	JDGCCTSTAT(0)	Device status: (see common device status flags)
28	(1C)	BITSTRING	1	JDGCCTSTA1	first status byte
29	(1D)	BITSTRING	1	JDGCCTSTA2	second status byte
30	(1E)	CHARACTER	8	JDGCCTSYSN	Owning MVS system name
38	(26)	CHARACTER	8	JDGCCTMBRN	JESplex member name
46	(2E)	CHARACTER	8	JDGCCTSECL	Security label
54	(36)	BITSTRING	2		Reserved
56	(38)	BITSTRING	1	JDGCCTFLAG	Processing flags:
		1...		JDGCCTFERR	"B'10000000'" device is in error (not available)
		.1..		JDGCCTFPWD	"B'01000000'" device password set
		..1.		JDGCCTFAUT	"B'00100000'" auto restart
		...1		JDGCCTFTRC	"B'00010000'" device trace requested
		.... 1...		JDGCCTFLOG	"B'00001000'" device activity is logged (JES2)
57	(39)	BITSTRING	1		Reserved

Table 196. Structure JDGCLOGN (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
58	(3A)	SIGNED	2	JDGCRINT	Auto restart interval (minutes)
60	(3C)	SIGNED	2	JDGCRETR	Max number of restart retries (0 - indefinite retry)
62	(3E)	BITSTRING	2		Reserved
64	(40)	CHARACTER	8	JDGCCSTA	Status, character value
64	(40)	X'48'	0	JDGCSIZE	"*-JDGCLOGN" Size of logon device common section (internal use only)

Table 197. Structure JDG2LOGN

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDG2LOGN	, Logon device JES2 section
0	(0)	ADDRESS	4	JDG2LNG	Length of this section
4	(4)	ADDRESS	1	JDG2TYPE	Section type
5	(5)	ADDRESS	1	JDG2MOD	Section type modifier
6	(6)	BITSTRING	2		Reserved
8	(8)	BITSTRING	3	JDG2DVID	Binary device id
11	(B)	BITSTRING	1		Reserved
11	(B)	X'C'	0	JDG2SIZE	"*-JDG2LOGN" Size of logon JES2 section (internal use only)

Table 198. Structure JDG3LOGN

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDG3LOGN	, Logon device JES3 section
0	(0)	ADDRESS	4	JDG3LNG	Length of this section
4	(4)	ADDRESS	1	JDG3TYPE	Section type
5	(5)	ADDRESS	1	JDG3MOD	Section type modifier
6	(6)	BITSTRING	2		Reserved
8	(8)	CHARACTER	8	JDG3DSPJ	JES3 DSP job id
16	(10)	SIGNED	2	JDG3SNLM	Session limit
18	(12)	BITSTRING	2		Reserved
18	(12)	X'14'	0	JDG3SIZE	"*-JDG3LOGN" Size of logon device JES3 section (internal use only)

Table 199. Structure JDNHNSRV

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDNHNSRV	, NETSRV device header
0	(0)	CHARACTER	8	JDNHEYE	Eye catcher
8	(8)	ADDRESS	2	JDNHOHDR	Offset to first (prefix) section
10	(A)	BITSTRING	1	JDNHFLAG	Header flags
		1...		JDNHFHCN	"B'10000000'" this header has continuation
		.1...		JDNHFICN	"B'01000000'" this header is continuation
11	(B)	BITSTRING	5		Reserved

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Table 199. Structure JDNHNSRV (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
16	(10)	ADDRESS	8	JDNHJPL8	Address of IAZJPLXI for this device
16	(10)	X'14'	0	JDNHJPLX	"JDNHJPL8+4,4,C'A'" 31-bit part of a pointer
24	(18)	ADDRESS	8	JDNHNEX8	Address of header of the next device
24	(18)	X'1C'	0	JDNHNEXT	"JDNHNEX8+4,4,C'A'" 31-bit part of a pointer
32	(20)	ADDRESS	8	JDNHPAR8	Address of parent device (NJE connection or 0)
32	(20)	X'24'	0	JDNHPARN	"JDNHPAR8+4,4,C'A'" 31-bit part of a pointer
40	(28)	ADDRESS	8	JDNHCON8	Address of continuation header
40	(28)	X'2C'	0	JDNHCONT	"JDNHCON8+4,4,C'A'" 31-bit part of a pointer
40	(28)	X'30'	0	JDNHSIZE	"*-JDNHNSRV" Header size (internal use only)

Table 200. Structure JDNCNSRV

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDNCNSRV	, NETSRV common section
0	(0)	ADDRESS	4	JDNCLNG	Length of this section
4	(4)	ADDRESS	1	JDNCTYPE	Section type
5	(5)	ADDRESS	1	JDNCMOD	Section type modifier
6	(6)	BITSTRING	2		Reserved
8	(8)	ADDRESS	1	JDNCDEVT	Device type
9	(9)	ADDRESS	1	JDNCDEVC	Device class
10	(A)	CHARACTER	10	JDNCNAME	Device name
20	(14)	CHARACTER	8	JDNCSKNM	Local socket name
28	(1C)	BITSTRING	2	JDNCSTAT(0)	Device status: (see common device status flags)
28	(1C)	BITSTRING	1	JDNCSTA1	first status byte
29	(1D)	BITSTRING	1	JDNCSTA2	second status byte
30	(1E)	CHARACTER	8	JDNCSYSN	Owning MVS system name
38	(26)	CHARACTER	8	JDNCMBRN	JESplex member name
46	(2E)	CHARACTER	8	JDNCSECL	Security label
54	(36)	BITSTRING	2		Reserved
56	(38)	BITSTRING	1	JDNCFLG1	Processing flags:
		1...		JDNC1AUT	"B'10000000'" auto restart
		.1..		JDNC1TRB	"B'01000000'" basic trace requested
		..1.		JDNC1TCM	"B'00100000'" common code trace requested
		...1		JDNC1TEX	"B'00010000'" extended trace requested
57	(39)	BITSTRING	1		Reserved
58	(3A)	ADDRESS	2	JDNCASID	NETSRV address space id
60	(3C)	CHARACTER	8	JDNCSTAK	TCP/IP stack name
68	(44)	BITSTRING	4		Reserved
72	(48)	CHARACTER	8	JDNCNSVJ	NETSRV job id
80	(50)	SIGNED	2	JDNCRINT	Auto restart interval (minutes)

Table 200. Structure JDNCNSRV (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
82	(52)	SIGNED	2	JDNCRETR	Max number of restart retries (0 - indefinite retry)
84	(54)	CHARACTER	8	JDNCCSTA	Status, character value
84	(54)	X'5C'	0	JDNCsize	"*-JDNCNSRV" Size of NETSRV common section (internal use only)

Table 201. Structure JDN2NSRV

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDN2NSRV	, NETSRV device JES2 section
0	(0)	ADDRESS	4	JDN2LNG	Length of this section
4	(4)	ADDRESS	1	JDN2TYPE	Section type
5	(5)	ADDRESS	1	JDN2MOD	Section type modifier
6	(6)	BITSTRING	2		Reserved
8	(8)	BITSTRING	3	JDN2DVID	Binary device id
11	(B)	BITSTRING	1		Reserved
11	(B)	X'C'	0	JDN2SIZE	"*-JDN2NSRV" Size of NETSRV JES2 section (internal use only)

Table 202. Structure JDN3NSRV

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDN3NSRV	, NETSRV JES3 section
0	(0)	ADDRESS	4	JDN3LNG	Length of this section
4	(4)	ADDRESS	1	JDN3TYPE	Section type
5	(5)	ADDRESS	1	JDN3MOD	Section type modifier
6	(6)	BITSTRING	2		Reserved
8	(8)	CHARACTER	8	JDN3DSPJ	JES3 DSP job id
8	(8)	X'10'	0	JDN3SIZE	"*-JDN3NSRV" Size of NETSRV JES3 section (internal use only)

Table 203. Structure JDLHLINE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDLHLINE	, Line device header
0	(0)	CHARACTER	8	JDLHEYE	Eye catcher
8	(8)	ADDRESS	2	JDLHOHDR	Offset to first (prefix) section
10	(A)	BITSTRING	1	JDLHFLAG	Header flags
		1...		JDLHFHCN	"B'10000000'" this header has continuation
		.1..		JDLHFICN	"B'01000000'" this header is continuation
11	(B)	BITSTRING	1		Reserved
12	(C)	SIGNED	4	JDLHDEV#	Number of related devices in the chain (see JDLHDEV8)
16	(10)	ADDRESS	8	JDLHJPL8	Address of IAZJPLXI for this device
16	(10)	X'14'	0	JDLHJPLX	"JDLHJPL8+4,4,C'A'" 31-bit part of a pointer

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Table 203. Structure JDLHLINE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
24	(18)	ADDRESS	8	JDLHNEX8	Address of header of the next device
24	(18)	X'1C'	0	JDLHNEXT	"JDLHNEX8+4,4,C'A'" 31-bit part of the pointer
32	(20)	ADDRESS	8	JDLHPAR8	Address of parent device (remote, NJE conn or none)
32	(20)	X'24'	0	JDLHPARN	"JDLHPAR8+4,4,C'A'" 31-bit part of the pointer
40	(28)	ADDRESS	8	JDLHDEV8	Address of header of the first related device
40	(28)	X'2C'	0	JDLHDEVC	"JDLHDEV8+4,4,C'A'" 31-bit part of the pointer
48	(30)	ADDRESS	8	JDLHCON8	Address of continuation
48	(30)	X'34'	0	JDLHCONT	"JDLHCON8+4,4,C'A'" 31-bit part of the pointer
48	(30)	X'38'	0	JDLHSIZE	"*-JDLHLINE" Header size (internal use only)

Table 204. Structure JDLCLINE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDLCLINE	, Line device common section
0	(0)	ADDRESS	4	JDLCLNG	Length of this section
4	(4)	ADDRESS	1	JDLCTYPE	Section type
5	(5)	ADDRESS	1	JDLCMOD	Section type modifier
6	(6)	BITSTRING	2		Reserved
8	(8)	ADDRESS	1	JDLCDEVT	Device type
9	(9)	ADDRESS	1	JDLCDEVC	Device class
10	(A)	CHARACTER	10	JDLCNAME	Device name
20	(14)	CHARACTER	4	JDLCCUNIT	Device unit name/number
24	(18)	BITSTRING	4		Reserved
28	(1C)	BITSTRING	2	JDLCCSTAT(0)	Device status: (see common device status flags)
28	(1C)	BITSTRING	1	JDLCCSTA1	first status byte
29	(1D)	BITSTRING	1	JDLCCSTA2	second status byte
30	(1E)	CHARACTER	8	JDLCSYSN	Owning MVS system name
38	(26)	CHARACTER	8	JDLCMBRN	JESplex member name
46	(2E)	CHARACTER	8	JDLCCSECL	Security label
54	(36)	BITSTRING	2		Reserved
56	(38)	BITSTRING	1	JDLCPROT	Line protocol
		.... ...1		JDLCPBSC	"X'01'" BSC
		.... ..1.		JDLCPNSA	"X'02'" SNA
		.... ..11		JDLCPTCP	"X'03'" TCP/IP
57	(39)	BITSTRING	1	JDLCLFLG1	Processing flags (1):
		1...		JDLCLRJA	"B'10000000'" line can be used for RJE
		.1..		JDLCLNJA	"B'01000000'" line can be used for NJE
		..1.		JDLCLRJE	"B'00100000'" line currently used for RJE
		...1		JDLCLNJE	"B'00010000'" line currently used for NJE

Table 204. Structure JDLCLINE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		JDLC1CMP	"B'00001000'" line is capable of compression
		.... .1..		JDLC1DPX	"B'00000100'" full duplex (if not set - half duplex)
		.... ..1.		JDLC1PWD	"B'00000010'" line password set
		.... ...1		JDLC1AUT	"B'00000001'" auto restart
58	(3A)	BITSTRING	1	JDLCFLG2	Processing flags (2):
		1...		JDLC2AB	"B'10000000'" use interface B for this BSC line (if not set - use interface A)
		.1..		JDLC2TRP	"B'01000000'" transparency indicator
		..1.		JDLC2TRB	"B'00100000'" basic trace requested
		...1		JDLC2TCM	"B'00010000'" common code trace requested
		.... 1...		JDLC2TEX	"B'00001000'" extended trace requested
		.... .1..		JDLC2CNA	"B'00000100'" auto connect required (CONNECT=YES)
		.... ..1.		JDLC2CNN	"B'00000010'" auto connect not required (CONNECT=NO) if both JDLC2CNA and JDLC2CNN are off, CONNECT=DEFAULT
59	(3B)	BITSTRING	1	JDLCDISC	Disconnect behavior:
		.... ....		JDLCDNO	"X'00'" no disconnect
		.... ...1		JDLCDINT	"X'01'" immediate disconnect (interrupt)
		.... ..1.		JDLCDQUI	"X'02'" disconnect after current activity is complete (quiesce)
60	(3C)	SIGNED	2	JDLCRINT	Auto restart interval (minutes)
62	(3E)	SIGNED	2	JDLCRETR	Max number of restart retries (0 - indefinite retry)
64	(40)	SIGNED	2	JDLCINT	Auto connect interval (minutes)
66	(42)	BITSTRING	2		Reserved
68	(44)	CHARACTER	8	JDLCSTA	Status, character value
68	(44)	X'4C'	0	JDLCSIZE	"*-JDLCLINE" Size of line device common section (internal use only)

Table 205. Structure JDL2LINE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDL2LINE	, Line device JES2 section
0	(0)	ADDRESS	4	JDL2LNG	Length of this section
4	(4)	ADDRESS	1	JDL2TYPE	Section type
5	(5)	ADDRESS	1	JDL2MOD	Section type modifier
6	(6)	BITSTRING	2		Reserved
8	(8)	CHARACTER	10	JDL2CNAM	Connected remote workstation name or NJE node name
18	(12)	CHARACTER	8	JDL2NJEN	Associated NJE node name
26	(1A)	SIGNED	2	JDL2REST	Line resistance

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Table 205. Structure JDL2LINE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
Counts of the number of transmitters/receivers X'FF' indicates a value of DEFAULT					
28	(1C)	BITSTRING	1	JDL2JT#	Number of job transmitters
29	(1D)	BITSTRING	1	JDL2JR#	Number of job receivers
30	(1E)	BITSTRING	1	JDL2ST#	Number of SYSOUT transmitters
31	(1F)	BITSTRING	1	JDL2SR#	Number of SYSOUT receivers
32	(20)	BITSTRING	1	JDL2FLAG	Processing flags:
		1... ..		JDL2FADS	"B'10000000'" auto disconnect indicator
		.1.. ..		JDL2FSHR	"B'01000000'" line is shared
		..1.		JDL2FSPH	"B'00100000'" high speed line > 9600 bps (if not set - low speed line)
		...1		JDL2FAB	"B'00010000'" use code B for this dual code BSC line (if not set - use code A)
		.... 1...		JDL2FASC	"B'00001000'" use ASCII control characters (if not set - use EBCDIC)
		.... .1..		JDL2FLOG	"B'00000100'" device activity is logged
		.... ..1.		JDL2FLEA	"B'00000010'" line is leased
33	(21)	BITSTRING	3	JDL2DVID	Binary device id
33	(21)	X'24'	0	JDL2SIZE	"*-JDL2LINE" Size of line device JES2 section (internal use only)

Table 206. Structure JDL3LINE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDL3LINE	, Line device JES3 section
0	(0)	ADDRESS	4	JDL3LNG	Length of this section
4	(4)	ADDRESS	1	JDL3TYPE	Section type
5	(5)	ADDRESS	1	JDL3MOD	Section type modifier
6	(6)	BITSTRING	2		Reserved
8	(8)	SIGNED	4	JDL3BPS	Line speed (bps)
8	(8)	X'C'	0	JDL3SIZE	"*-JDL3LINE" Size of line device JES3 section (internal use only)

Table 207. Structure JDPHPRPU

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDPHPRPU	, Printer/punch device header
0	(0)	CHARACTER	8	JDPHEYE	Eye catcher
8	(8)	ADDRESS	2	JDPHOHDR	Offset to first (prefix) section
10	(A)	BITSTRING	6		Reserved
16	(10)	ADDRESS	8	JDPHJPL8	Address of IAZJPLXI for this device
16	(10)	X'14'	0	JDPHJPLX	"JDPHJPL8+4,4,C'A'" 31-bit part of a pointer
24	(18)	ADDRESS	8	JDPHNEX8	Address of header of the next device

Table 207. Structure JDPHPRPU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
24	(18)	X'1C'	0	JDPHNEXT	"JDPHNEX8+4,4,C'A'" 31-bit part of the pointer
32	(20)	ADDRESS	8	JDPHPAR8	Address of parent device (remote, line or none)
32	(20)	X'24'	0	JDPHPARN	"JDPHPAR8+4,4,C'A'" 31-bit part of the pointer
32	(20)	X'28'	0	JDPHSIZE	"*-JDPHPRPU" Header size (internal use only)

Table 208. Structure JDPCPRPU

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDPCPRPU	, Printer/punch common section
0	(0)	ADDRESS	4	JDPCCLNG	Length of this section
4	(4)	ADDRESS	1	JDPCCTYPE	Section type
5	(5)	ADDRESS	1	JDPCMOD	Section type modifier
6	(6)	BITSTRING	2		Reserved
8	(8)	ADDRESS	1	JDPCDEVT	Device type: JDDTPRT for printer devices JDDTPUN for punch devices
9	(9)	ADDRESS	1	JDPCDEVC	Device class: JDDCLCL for local devices JDDCRMT for remote devices
10	(A)	CHARACTER	10	JDPCNAME	Device name
20	(14)	CHARACTER	4	JDPCUNIT	Device unit name/number
24	(18)	BITSTRING	4		Reserved
28	(1C)	BITSTRING	2	JDPCSTAT(0)	Device status: (see common device status flags)
28	(1C)	BITSTRING	1	JDPCSTA1	first status byte
29	(1D)	BITSTRING	1	JDPCSTA2	second status byte
30	(1E)	CHARACTER	8	JDPCSYSN	Owning MVS system name
38	(26)	CHARACTER	8	JDPCMBRN	JESplex member name
46	(2E)	CHARACTER	8	JDPCSECL	Security label
54	(36)	BITSTRING	2		Reserved
56	(38)	BITSTRING	1	JDPCMOD1	Processing flags (1):
		1...		JDPC1FSS	"B'10000000'" FSS mode printer (if not set - JES mode printer)
		.1..		JDPC1EDG	"B'01000000'" mark edge of separator page (3800 printer)
		..1.		JDPC1HTR	"B'00100000'" honor TRC parameter on OUTPUT JCL statement (JES mode printer)
		...1		JDPC1PAU	"B'00010000'" pause between data sets (JES mode printer)
		.... 1...		JDPC1DSS	"B'00001000'" print separator page between data sets
		.... .1..		JDPC1GPS	"B'00000100'" print JESNEWS dataset between output groups
		.... ..1.		JDPC1TRC	"B'00000010'" trace requested
	1		JDPC1TRK	"B'00000001'" read one track cell at a time from spool (if not set - read one record at a time)

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Table 208. Structure JDPCPRPU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
57	(39)	BITSTRING	1	JDPCMOD2	Processing flags (2):
		1... ..		JDPC2VUC	"B'10000000'" verify UCS
		.1..		JDPC2SCH	"B'01000000'" use current character arrangement table for separator pages (3800) (if not set - use default table)
		..1.		JDPC2NIP	"B'00100000'" non-impact printer
		...1		JDPC2FLU	"B'00010000'" For punches, add a blank card after each data set
		.... ..1.		JDPC2SP2	"B'00000010'" SPACE=DOUBLE override for this data set
		.... ...1		JDPC2SP1	"B'00000001'" SPACE=SINGLE override for this data set
		.... ..11		JDPC2SP3	"B'00000011'" SPACE=TRIPLE override for this data set
58	(3A)	SIGNED	2	JDPCCKML	Max number of lines in a logical page (used for checkpoint)
60	(3C)	SIGNED	2	JDPCCKPG	Number of pages between checkpoints
62	(3E)	CHARACTER	4	JDPCDFCB	Default FCB name
66	(42)	ADDRESS	1	JDPCNEWP	Processing of skip-to-channel commands:
		.... ....		JDPCNPDF	"X'00'" use PRINTDEF statement (DEFAULT)
		.... ...1		JDPCNP1	"X'01'" skip to channel 1 is treated as new page (ONE)
		.... ..1.		JDPCNPAL	"X'02'" skip to any channel is treated as new page (ALL)
67	(43)	ADDRESS	1	JDPCTRNS	TRANS= parameter processing:
		.... ...1		JDPCCTYES	"X'01'" always perform translation
		.... ..1.		JDPCCTNO	"X'02'" never perform translation
		.... ..11		JDPCCTDEF	"X'03'" use TRANS= parameter from PRINTDEF statement
68	(44)	CHARACTER	4	JDPCFLID	Default flash id
72	(48)	CHARACTER	4	JDPCMODF	N/I-printer modify identifier
76	(4C)	BITSTRING	1	JDPCMOD3	Processing flags (3)
		1... ..		JDPC3CKP	"B'10000000'" checkpoints are based on page count (see JDPCCCKPG)
		.1..		JDPC3CKR	"B'01000000'" checkpoints are based on record count (JES3) (see JDP3CKRC)
		..1.		JDPC3CKS	"B'00100000'" checkpoints are based on elapsed time (see JDPFCSEC)
		...1		JDPC3SUP	"B'00010000'" Halt with SETUP message between units of work
77	(4D)	BITSTRING	1		Reserved
78	(4E)	CHARACTER	8	JDPCSTA	Status, character value

Table 208. Structure JDP CPRPU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
Array of CHARS settings This is variable size array of fixed-size character strings which represent CHARS settings associated with the printer.					
86	(56)	ADDRESS	2	JDPCCHRO	Offset from the beginning of DSECT to the first CHARS value
88	(58)	ADDRESS	2	JDPCCHR#	Number of elements in array
90	(5A)	ADDRESS	2	JDPCCHRL	Length of each element
90	(5A)	X'5C'	0	JDPCSIZE	"*-JDPCPRPU" Size of prt/punch common section (internal use only)

Table 209. Structure JDPWRKSL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDPWRKSL	, Prt/punch work selection section
0	(0)	ADDRESS	4	JDPWLNG	Length of this section
4	(4)	ADDRESS	1	JDPWTYPE	Section type
5	(5)	ADDRESS	1	JDPWMOD	Section type modifier
6	(6)	BITSTRING	2		Reserved
Values for attributes used for work selection					
8	(8)	CHARACTER	8	JDPWOWNN	Name of owner/creator of SYSOUT dataset
16	(10)	CHARACTER	4	JDPWFCBN	FCB name
20	(14)	CHARACTER	4	JDPWFLSH	Flash id
Array of UCS names This is variable size array of fixed-size character strings which represent form names.					
24	(18)	ADDRESS	2	JDPWUCSO	Offset from the beginning of DSECT to the first UCS name
26	(1A)	ADDRESS	2	JDPWUCS#	Number of elements in array
28	(1C)	ADDRESS	2	JDPWUCSL	Length of each element
30	(1E)	BITSTRING	1	JDPWFLG1	Selection flags
		1... ..		JDPW1BRS	"B'10000000'" select output with BURST=YES (if not set - select BURST=NO)
31	(1F)	BITSTRING	1		Reserved
Record and page count limits					
32	(20)	SIGNED	4	(0)	Dataset size in records:
32	(20)	SIGNED	4	JDPWRCLL	size in records - low limit
36	(24)	SIGNED	4	JDPWRCLH	size in records - high limit
40	(28)	SIGNED	4	(0)	Dataset size in pages:
40	(28)	SIGNED	4	JDPWPGLL	size in pages - low limit
44	(2C)	SIGNED	4	JDPWPGLH	size in pages - high limit
48	(30)	BITSTRING	2		Reserved

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Table 209. Structure JDPWRKSL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
<p>Array of output class names This is a variable size array of fixed-size character strings which represent names of output classes. The class array can also be viewed as a single string, which starts JDPWCLS0 bytes from JDPWRKSL and which length is JDPWCLS# JDPWCLSL.</p>					
50	(32)	ADDRESS	2	JDPWCLS0	Offset from the beginning of DSECT to the first class name
52	(34)	ADDRESS	2	JDPWCLS#	Number of elements in array
54	(36)	ADDRESS	2	JDPWCLSL	Length of each element
<p>Array of form names This is variable size array of fixed-size character strings which represent form names.</p>					
56	(38)	ADDRESS	2	JDPWFRMO	Offset from the beginning of DSECT to the first form name
58	(3A)	ADDRESS	2	JDPWFRM#	Number of elements in array
60	(3C)	ADDRESS	2	JDPWFRML	Length of each element
<p>Array of processing mode names This is variable size array of fixed-size character strings which represent names of processing modes.</p>					
62	(3E)	ADDRESS	2	JDPWPRCO	Offset from the beginning of DSECT to the first processing mode name
64	(40)	ADDRESS	2	JDPWPRC#	Number of elements in array
66	(42)	ADDRESS	2	JDPWPRCL	Length of each element
<p>Array of routing codes/destination ids. This is variable size array of fixed-size character strings which represent routing codes or destination ids.</p>					
68	(44)	ADDRESS	2	JDPWDSTO	Offset from the beginning of DSECT to the first route code/dest id
70	(46)	ADDRESS	2	JDPWDST#	Number of elements in array
72	(48)	ADDRESS	2	JDPWDSTL	Length of each element
<p>Work selection criteria in printable form. The work selection criteria string is represented in the format which would be used by appropriate JES configuration command.</p>					
74	(4A)	ADDRESS	2	JDPWPWSO	Offset from the beginning of DSECT to the work selection string
76	(4C)	ADDRESS	2	JDPWPWSL	Length of the work selection string
<p>Work selection criteria in encoded form. The work selection criteria is encoded as an array of bytes, where the value of each byte represents an attribute used for work selection. (See symbol definitions for work selection attributes - JDWSxxxx.)</p>					

Table 209. Structure JDPWRKSL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
78	(4E)	ADDRESS	2	JDPWEWSO	Offset from the beginning of DSECT to the work selection array
80	(50)	ADDRESS	2	JDPWEWSL	Length of the work selection array
82	(52)	BITSTRING	2		Reserved
82	(52)	X'54'	0	JDPWSIZE	"*-JDPWRKSL" Size of prt/punch work selection section (internal use only)

Table 210. Structure JDPFPRT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDPFPRT	, N/I printer section
0	(0)	ADDRESS	4	JDPFLNG	Length of this section
4	(4)	ADDRESS	1	JDPFATYPE	Section type
5	(5)	ADDRESS	1	JDPFAMOD	Section type modifier
6	(6)	BITSTRING	2		Reserved
8	(8)	CHARACTER	8	JDPFSSNM	Functional subsystem name
16	(10)	CHARACTER	8	JDPFPROC	FSS procedure name
24	(18)	CHARACTER	8	JDPFDEVN	FSS device (FSA) name
32	(20)	SIGNED	2	JDPFNPRO	Non-process runout (NPRO) time in seconds (if 0 - NPRO is not used)
34	(22)	BITSTRING	1	JDPFFLAG	Processing flags:
		1...		JDPFFTRC	"B'10000000" rolling trace requested
		.1..		JDPFFPRS	"B'01000000" JES preselects datasets for device
35	(23)	ADDRESS	1	JDPFCPMK	Copy mark increment:
		.... ....		JDPFCDFT	"X'00" use PRINTDEF settings (DEFAULT)
		.... ...1		JDPFCCON	"X'01" do not increment (CONSTANT)
		.... ..1.		JDPFCDS	"X'02" on a dataset level (DATASET)
		.... ..11		JDPFCJOB	"X'03" on a job level (JOB)
		.... .1..		JDPFCNON	"X'04" no copy marks to be used (NONE)
36	(24)	SIGNED	2	JDPFCSEC	Checkpoint seconds (when JDPC3CKP flag is not set)
38	(26)	CHARACTER	8	JDPFSSYS	MVS system where FSA is active
46	(2E)	BITSTRING	2		Reserved
46	(2E)	X'30'	0	JDPFSIZE	"*-JDPFPRT" Size of N/I printer section (internal use only)

Table 211. Structure JDP2PRPU

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDP2PRPU	, JES2 printer/punch section
0	(0)	ADDRESS	4	JDP2LNG	Length of this section

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Table 211. Structure JDP2PRPU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	ADDRESS	1	JDP2TYPE	Section type
5	(5)	ADDRESS	1	JDP2MOD	Section type modifier
6	(6)	BITSTRING	2		Reserved
8	(8)	BITSTRING	1	JDP2FLAG	Processing flags:
		1...		JDP2FSEP	"B'10000000'" Print separator pages between data set groups
9	(9)	BITSTRING	3	JDP2DVID	Binary device id
Attributes used by JES2 for work selection (additional work selection attributes and work selection criteria used by this printer/punch device see in the printer/punch work selection section).					
12	(C)	BITSTRING	1	JDP2WFLG	Work selection flags:
		.1..		JDP2SFJR	"B'01000000'" select within JOB range
		..1.		JDP2SFST	"B'00100000'" select within STC range
		...1		JDP2SFTS	"B'00010000'" select within TSU range
13	(D)	BITSTRING	3		Reserved
16	(10)	CHARACTER	8	JDP2WJBN	Job name for work selection
24	(18)	SIGNED	4	(0)	Job id range for work selection:
24	(18)	SIGNED	4	JDP2WJIL	job id low limit
28	(1C)	SIGNED	4	JDP2WJIH	job id high limit
32	(20)	CHARACTER	8	JDP2WRTN	Writer name for work selection
Array of spool volume names for work selection (spool volume affinity) This is variable size array of fixed-size character strings which represent spool volume names used for work selection.					
40	(28)	ADDRESS	2	JDP2WVLO	Offset from the beginning of DSECT to the first volume name
42	(2A)	ADDRESS	2	JDP2WVL#	Number of elements in array
44	(2C)	ADDRESS	2	JDP2WVLL	Length of each element
Array of binary route codes for work selection This is variable size array of fixed-size structures, mapped by the JDD2DEST structure, of binary route codes used for work selection.					
46	(2E)	ADDRESS	2	JDP2WRCO	Offset from the beginning of DSECT to the first route code
48	(30)	ADDRESS	2	JDP2WRC#	Number of elements in array
50	(32)	ADDRESS	2	JDP2WRCL	Length of each element
50	(32)	X'34'	0	JDP2SIZE	"*-JDP2PRPU" Size of JES2 prt/punch section (internal use only)

Table 212. Structure JDD2DEST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDD2DEST	Binary route code structure
0	(0)	SIGNED	2	JDD2NODE	Nodal part

Table 212. Structure JDD2DEST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2	(2)	SIGNED	2	JDD2RTE	Remote part
4	(4)	CHARACTER	8	JDD2USER	Userid part
4	(4)	X'C'	0	JDD2DSIZ	"*-JDD2DEST" Length of structure

Table 213. Structure JDP3PRPU

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDP3PRPU	, JES3 printer/punch section
0	(0)	ADDRESS	4	JDP3LNG	Length of this section
4	(4)	ADDRESS	1	JDP3TYPE	Section type
5	(5)	ADDRESS	1	JDP3MOD	Section type modifier
6	(6)	BITSTRING	2		Reserved
8	(8)	CHARACTER	8	JDP3GRPN	Device group name
16	(10)	CHARACTER	8	JDP3DEVT	Device type name
24	(18)	CHARACTER	8	JDP3DSPJ	DSP job id
32	(20)	BITSTRING	1	JDP3HFLG	H/R Flags
		1... ..		JDP3HFCB	"B'10000000'" Hold FCB option on device
		.1.. ..		JDP3HCHR	"B'01000000'" Hold CHARS option on device
		..1.		JDP3HUCS	"B'00100000'" Hold UCS option on device
		...1		JDP3HMOD	"B'00010000'" Hold CPYMOD option on device
		.... 1...		JDP3HFLS	"B'00001000'" Hold FLASH option on device
		.... .1..		JDP3HFRM	"B'00000100'" Hold FORMS option on device
		.... ..1.		JDP3HBUR	"B'00000010'" Hold STACKER (BURST) option
33	(21)	BITSTRING	1	JDP3FLG1	Flags
		1... ..		JDP31DYN	"B'10000000'" Device can be started dynamically
		.1..		JDP31OLG	"B'01000000'" Log operator commands in output
		..1.		JDP31BPG	"B'00100000'" Print burst pages at end of job
		...1		JDP31DGY	"B'00010000'" Device cannot process local datasets
		.... 1...		JDP31PDC	"B'00001000'" PDEFAULT=CHARS
		.... .1..		JDP31PDF	"B'00000100'" PDEFAULT=FCB
34	(22)	SIGNED	2	JDP3CKRC	Number of records between ckpoints
36	(24)	BITSTRING	1	JDP3TRC	TRC
37	(25)	BITSTRING	1	JDP3CGS	Amount of character generation storage in 3800 printer
37	(25)	X'1'	0	JDP3CGS1	"1" 128 characters
37	(25)	X'2'	0	JDP3CGS2	"2" 256 characters
38	(26)	BITSTRING	1	JDP3CB	Clear print indicator
38	(26)	X'1'	0	JDP3CBD	"1" Clear after each data set
38	(26)	X'2'	0	JDP3CBJ	"2" Clear after each Job
38	(26)	X'3'	0	JDP3CBN	"3" Clear as required by printer

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Table 213. Structure JDP3PRPU (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
39	(27)	BITSTRING	1		Reserved
39	(27)	X'28'	0	JDP3SIZE	"*-JDP3PRPU" Size of JES3 prt/punch section (internal use only)

Table 214. Structure JDRPRPT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDRPRPT	, Remote printer section
0	(0)	ADDRESS	4	JDRPLNG	Length of this section
4	(4)	ADDRESS	1	JDRPRTYPE	Section type
5	(5)	ADDRESS	1	JDRPRMOD	Section type modifier
6	(6)	BITSTRING	2		Reserved
8	(8)	CHARACTER	8	JDRPRCMT	Compaction table name/number
16	(10)	SIGNED	4	JDRPRECS	Transmission record size
20	(14)	SIGNED	2	JDRPRWDTH	Print width
22	(16)	CHARACTER	8	JDRPRDEVT	Remote device type and subaddress (PRINTnn, EXCHnn or BASICnn)
30	(1E)	BITSTRING	1	JDRPRFLAG	Processing flags:
		1... ..		JDRPRFASI	"B'10000000'" send print data ASIS
		.1.. ..		JDRPRFCMT	"B'01000000'" printer has compaction capability
		..1.		JDRPRFCMP	"B'00100000'" printer has compression capability
		...1		JDRPRFFCB	"B'00010000'" JES will load FCB on this device
		.... 1...		JDRPRFSSP	"B'00001000'" printer has suspend/interrupt capability
		.... .1..		JDRPRFCTL	"B'00000100'" send carriage control
31	(1F)	BITSTRING	1		Reserved
31	(1F)	X'20'	0	JDRPSIZE	"*-JDRPRPT" Size of remote printer section (internal use only)

Table 215. Structure JDRHRDR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDRHRDR	, Reader device header
0	(0)	CHARACTER	8	JDRHEYE	Eye catcher
8	(8)	ADDRESS	2	JDRHOHDR	Offset to first (prefix) section
10	(A)	BITSTRING	6		Reserved
16	(10)	ADDRESS	8	JDRHJPL8	Address of IAZJPLXI for this device
16	(10)	X'14'	0	JDRHJPLX	"JDRHJPL8+4,4,C'A'" 31-bit part of a pointer
24	(18)	ADDRESS	8	JDRHNEX8	Address of header of the next device

Table 215. Structure JDRHRDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
24	(18)	X'1C'	0	JDRHNEXT	"JDRHNEX8+4,4,C'A'" 31-bit part of the pointer
32	(20)	ADDRESS	8	JDRHPAR8	Address of parent device (remote, line or none)
32	(20)	X'24'	0	JDRHPARN	"JDRHPAR8+4,4,C'A'" 31-bit part of the pointer
32	(20)	X'28'	0	JDRHSIZE	"*-JDRHRDR" Header size (internal use only)

Table 216. Structure JDRCRDR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDRCRDR	, Reader common section
0	(0)	ADDRESS	4	JDRCLNG	Length of this section
4	(4)	ADDRESS	1	JDRCTYPE	Section type
5	(5)	ADDRESS	1	JDRCMOD	Section type modifier
6	(6)	BITSTRING	2		Reserved
8	(8)	ADDRESS	1	JDRCDEVT	Device type
9	(9)	ADDRESS	1	JDRCDEVCL	Device class: JDDCLCL for local devices JDDCRMT for remote devices JDDCINT for internal devices
10	(A)	CHARACTER	10	JDRCNAME	Device name
20	(14)	CHARACTER	4	JDRUNIT	Device unit name/number
24	(18)	BITSTRING	4		Reserved
28	(1C)	BITSTRING	2	JDRCSTAT(0)	Device status: (see common device status flags)
28	(1C)	BITSTRING	1	JDRCSTA1	first status byte
29	(1D)	BITSTRING	1	JDRCSTA2	second status byte
30	(1E)	CHARACTER	8	JDRCSYSN	Owning MVS system name
38	(26)	CHARACTER	8	JDRCMBRN	JESplex member name
46	(2E)	CHARACTER	8	JDRCSECL	Security label
54	(36)	BITSTRING	2		Reserved
Progress counters					
56	(38)	SIGNED	4	JDRCTJB#	Total jobs processed by this reader
60	(3C)	SIGNED	4	JDRCTRC#	Total number of records (card images) processed
64	(40)	SIGNED	4	JDRCPRC#	Number of records (card images) processed for the current job
68	(44)	CHARACTER	8	JDRCDFJC	Default job class
76	(4C)	CHARACTER	8	JDRCDFMC	Default message class
84	(54)	CHARACTER	8	JDRCCSTA	Status, character value
84	(54)	X'5C'	0	JDRCSIZE	"*-JDRCRDR" Size of reader common section (internal use only)

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Table 217. Structure JDR2RDR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDR2RDR	, Reader JES2 section
0	(0)	ADDRESS	4	JDR2LNG	Length of this section
4	(4)	ADDRESS	1	JDR2TYPE	Section type
5	(5)	ADDRESS	1	JDR2MOD	Section type modifier
6	(6)	BITSTRING	2		Reserved
8	(8)	CHARACTER	18	JDR2PRDS	Default print destination
26	(1A)	CHARACTER	18	JDR2PUDS	Default punch destination
44	(2C)	CHARACTER	8	JDR2NODE	Default execution node in NJE network
52	(34)	ADDRESS	1	JDR2PTLM	Priority limit
53	(35)	ADDRESS	1	JDR2PTIN	Priority increment
54	(36)	BITSTRING	1	JDR2FLAG	Processing flags:
		1...		JDR2FHLD	"B'10000000'" hold jobs when processed
		.1..		JDR2FDVA	"B'01000000'" authorized for device commands
		..1.		JDR2FJBA	"B'00100000'" authorized for job commands
		...1		JDR2FSYA	"B'00010000'" authorized for system commands
		.... 1...		JDR2FTRC	"B'00001000'" trace requested
		.... .1..		JDR2FANY	"B'00000100'" default member affinity ANY
		.... ..1.		JDR2FIND	"B'00000010'" default member affinity IND
55	(37)	BITSTRING	3	JDR2DVID	Binary device id
58	(3A)	BITSTRING	2		Reserved
		Array of MAS member names (default member affinity) This is variable size array of fixed-size character strings which represent names of MAS members which can be used for job execution.			
60	(3C)	ADDRESS	2	JDR2MBRO	Offset from the beginning of DSECT to the first member name
62	(3E)	ADDRESS	2	JDR2MBR#	Number of elements in array
64	(40)	ADDRESS	2	JDR2MBRL	Length of each element
66	(42)	BITSTRING	2		Reserved
66	(42)	X'44'	0	JDR2SIZE	"*-JDR2RDR" Size of reader JES2 section (internal use only)

Table 218. Structure JDR3RDR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDR3RDR	, Reader JES3 section
0	(0)	ADDRESS	4	JDR3LNG	Length of this section
4	(4)	ADDRESS	1	JDR3TYPE	Section type
5	(5)	ADDRESS	1	JDR3MOD	Section type modifier
6	(6)	BITSTRING	2		Reserved
8	(8)	CHARACTER	8	JDR3GRPN	Device group name
16	(10)	CHARACTER	8	JDR3DEVT	Device type name
24	(18)	CHARACTER	8	JDR3DSPJ	DSP job id
32	(20)	BITSTRING	1	JDR3FLAG	Processing flags:

Table 218. Structure JDR3RDR (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
		1...	....		JDR3FACT	"B'10000000'" account number required on JOB card
		.1..	....		JDR3FPGM	"B'01000000'" programmer name required on JOB card
		..1.	....		JDR3FABV	"B'00100000'" SWA should be located above the line
		...1	....		JDR3FBLP	"B'00010000'" BLP label setting is respected (if not set - BLP setting is ignored)
33	(21)	ADDRESS		1	JDR3DPTY	Default job priority
34	(22)	ADDRESS		1	JDR3JLVL	Default job message level
35	(23)	ADDRESS		1	JDR3ALVL	Default allocation message level
36	(24)	SIGNED		4	JDR3TIML	Default time limit for a job step in seconds (144000 - no limit)
40	(28)	SIGNED		4	JDR3REGL	Default region size in KBytes
40	(28)	X'2C'		0	JDR3SIZE	"*-JDR3RDR" Size of reader JES3 section (internal use only)

Table 219. Structure JDRIRDR

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
0	(0)	STRUCTURE		0	JDRIRDR	, Internal reader section
0	(0)	ADDRESS		4	JDRILNG	Length of this section
4	(4)	ADDRESS		1	JDRITYPE	Section type
5	(5)	ADDRESS		1	JDRIMOD	Section type modifier
6	(6)	BITSTRING		2		Reserved
Identification of the job which owns internal reader.						
8	(8)	CHARACTER		8	JDRIJOBN	Job name
16	(10)	CHARACTER		8	JDRIJOB I	Job id
24	(18)	CHARACTER		8	JDRIOWNN	Job owner name
32	(20)	SIGNED		2	JDRIASID	Address space id
34	(22)	BITSTRING		2		Reserved
34	(22)	X'24'		0	JDRISIZE	"*-JDRIRDR" Size of internal reader section (internal use only)

Table 220. Structure JDOHOFD

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
0	(0)	STRUCTURE		0	JDOHOFD	, OFFLOAD device header
0	(0)	CHARACTER		8	JDOHEYE	Eye catcher
8	(8)	ADDRESS		2	JDOHOHDR	Offset to first (prefix) section
10	(A)	BITSTRING		2		Reserved
12	(C)	SIGNED		4	JDOHDEV#	Number of related devices in the chain (see JDOHDEV8)
16	(10)	ADDRESS		8	JDOHJPL8	Address of IAZJPLXI for this device
16	(10)	X'14'		0	JDOHJPLX	"JDOHJPL8+4,4,C'A'" 31-bit part of a pointer

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Table 220. Structure JDOHOFD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
24	(18)	ADDRESS	8	JDOHNEX8	Address of header of the next device
24	(18)	X'1C'	0	JDOHNEXT	"JDOHNEX8+4,4,C'A'" 31-bit part of the pointer
32	(20)	ADDRESS	8	JDOHDEV8	Address of header of the first related device
32	(20)	X'24'	0	JDOHDEVC	"JDOHDEV8+4,4,C'A'" 31-bit part of the pointer
32	(20)	X'28'	0	JDOHSIZE	"*-JDOHOFD" Header size (internal use only)

Table 221. Structure JDOCOFLD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDOCOFLD	, OFFLOAD device common section
0	(0)	ADDRESS	4	JDOCLNG	Length of this section
4	(4)	ADDRESS	1	JDOCTYPE	Section type
5	(5)	ADDRESS	1	JDOCMOD	Section type modifier
6	(6)	BITSTRING	2		Reserved
8	(8)	ADDRESS	1	JDOCDEVT	Device type
9	(9)	ADDRESS	1	JDOCDEVC	Device class
10	(A)	CHARACTER	10	JDOCNAME	Device name
20	(14)	CHARACTER	8	JDOCUNIT	Device unit name/number or type
28	(1C)	BITSTRING	2	JDOCSTAT(0)	Device status: (see common device status flags)
28	(1C)	BITSTRING	1	JDOCSTA1	first status byte
29	(1D)	BITSTRING	1	JDOCSTA2	second status byte
30	(1E)	CHARACTER	8	JDOCSYSN	Owning MVS system name
38	(26)	CHARACTER	8	JDOCMBRN	JESplex member name
46	(2E)	CHARACTER	8	JDOCSECL	Security label
54	(36)	BITSTRING	2		Reserved
56	(38)	CHARACTER	8	JDOCCSTA	Status, character value
56	(38)	X'40'	0	JDOCSIZE	"*-JDOCOFLD" Size of OFFLOAD device common section (internal use only)

Table 222. Structure JDO2OFLD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDO2OFLD	, OFFLOAD device JES2 section
0	(0)	ADDRESS	4	JDO2LNG	Length of this section
4	(4)	ADDRESS	1	JDO2TYPE	Section type
5	(5)	ADDRESS	1	JDO2MOD	Section type modifier
6	(6)	BITSTRING	2		Reserved
8	(8)	SIGNED	2	JDO2NRUN	Number of units to use
10	(A)	SIGNED	2	JDO2NRVL	Number of volumes to use
12	(C)	SIGNED	2	JDO2RETD	Retention period (days)
14	(E)	CHARACTER	44	JDO2DSN	Dataset name
58	(3A)	BITSTRING	1	JDO2FLG1	Processing flags:
		1...		JDO21XMT	"B'1000000'" started as transmitter

Table 222. Structure JDO2OFLD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		JD02IRCV	"B'01000000'" started as receiver
59	(3B)	BITSTRING 1...	1	JD02FLG2 JD022ARC	More processing flags: "B'10000000'" ARCHIVE=ALL (if not set - ARCHIVE=ONE)
		.1..		JD022CRT	"B'01000000'" preserve creation time (if not set assign new creation time after restore)
		..1.		JD022SAF	"B'00100000'" protect via SAF
		...1		JD022TRC	"B'00010000'" trace requested
		.... 1..		JD022VAL	"B'00001000'" validate logical record length
60	(3C)	BITSTRING.... ...1.... ..1. .... .1.. 1.1. ...1 .....1.. .... .1.. 1..	1	JD02TLAB JD02TNL JD02TSL JD02TNSL JD02TSUL JD02TBLP JD02TAL JD02TAUL	Tape label processing type: "X'01'" label=NL "X'02'" label=SL "X'04'" label=NSL "X'0A'" label=SUL "X'10'" label=BLP "X'40'" label=AL "X'48'" label=AUL
61	(3D)	BITSTRING	3	JD02DVID	Binary device id
61	(3D)	X'40'	0	JD02SIZE	"*-JD02OFLD" Size of OFFLOAD device JES2 section (internal use only)

Table 223. Structure JDBHJRCV

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDBHJRCV	, Job receiver device header
0	(0)	CHARACTER	8	JDBHEYE	Eye catcher
8	(8)	ADDRESS	2	JDBHOHDR	Offset to first (prefix) section
10	(A)	BITSTRING	6		Reserved
16	(10)	ADDRESS	8	JDBHJPL8	Address of IAZJPLXI for this device
16	(10)	X'14'	0	JDBHJPLX	"JDBHJPL8+4,4,C'A'" 31-bit part of a pointer
24	(18)	ADDRESS	8	JDBHNEX8	Address of header of the next device
24	(18)	X'1C'	0	JDBHNEXT	"JDBHNEX8+4,4,C'A'" 31-bit part of the pointer
32	(20)	ADDRESS	8	JDBHPAR8	Address of parent device (offload, line or NJE conn)
32	(20)	X'24'	0	JDBHPARN	"JDBHPAR8+4,4,C'A'" 31-bit part of the pointer
32	(20)	X'28'	0	JDBHSIZE	"*-JDBHJRCV" Header size (internal use only)

Table 224. Structure JDBCJRCV

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDBCJRCV	, Job receiver common section

IAZSSJD mapping

Table 224. Structure JDB CJRCV (continued)

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	ADDRESS	4	JDBC LNG	Length of this section
4	(4)	ADDRESS	1	JDBC TYPE	Section type
5	(5)	ADDRESS	1	JDBC MOD	Section type modifier
6	(6)	BITSTRING	2		Reserved
8	(8)	ADDRESS	1	JDBC DEVT	Device type
9	(9)	ADDRESS	1	JDBC DEVC	Device class: JDDCNJE for NJE devices JDDCOFLD for OFFLOAD devices
10	(A)	CHARACTER	10	JDBC NAME	Device name
20	(14)	BITSTRING	8		Reserved
28	(1C)	BITSTRING	2	JDBC STAT(0)	Device status: (see common device status flags)
28	(1C)	BITSTRING	1	JDBC STA1	first status byte
29	(1D)	BITSTRING	1	JDBC STA2	second status byte
30	(1E)	CHARACTER	8	JDBC SYSN	Owning MVS system name
38	(26)	CHARACTER	8	JDBC MBRN	JESplex member name
46	(2E)	CHARACTER	8	JDBC SECL	Security label
54	(36)	BITSTRING	2		Reserved
56	(38)	BITSTRING	1	JDBC FLG1	Processing flags:
		1...		JDBC IHL D	"B'10000000'" hold received jobs (HOLD=YES)
		.1..		JDBC IRL S	"B'01000000'" release received jobs (HOLD=NO) if neither bit set, status is not changed (HOLD=NONE)
57	(39)	BITSTRING	3		Reserved
60	(3C)	CHARACTER	8	JDBC CSTA	Status, character value
60	(3C)	X'44'	0	JDBC SIZE	"*-JDB CJRCV" Size of job receiver common section (internal use only)

Table 225. Structure JDB OJRCV

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDB OJRCV	, Job receiver OFFLOAD section
0	(0)	ADDRESS	4	JDB O LNG	Length of this section
4	(4)	ADDRESS	1	JDB O TYPE	Section type
5	(5)	ADDRESS	1	JDB O MOD	Section type modifier
6	(6)	BITSTRING	2		Reserved
8	(8)	BITSTRING	1	JDB O FLG1	Processing flags:
		1...		JDB O INF Y	"B'10000000'" send notification message to TSO userid as requested
		.1..		JDB O ISTR	"B'01000000'" start this receiver when OFFLOAD device is started
		..1.		JDB O EANY	"B'00100000'" Job execution member affinity is ANY (also see section starting with field JDB OMMBO).
9	(9)	BITSTRING	3		Reserved

Table 225. Structure JDBOJRCV (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
Modification settings - job attributes will be changed in a specified way when job is successfully received.					
12	(C)	CHARACTER	8	JDBOMJBC	New job class
20	(14)	CHARACTER	18	JDBOMROU	New route code/destination
Array of member MAS names (new member affinity). This is variable size array of fixed-size character strings which represent names of MAS members which can be used for job execution. NOTE: Check the JDBOEANY bit first before using these fields.					
38	(26)	ADDRESS	2	JDBOMMBO	Offset from the beginning of DSECT to the first member name
40	(28)	ADDRESS	2	JDBOMMB#	Number of elements in array
42	(2A)	ADDRESS	2	JDBOMMBL	Length of each element
Values for attributes used for work selection					
44	(2C)	CHARACTER	8	JDBOWOWN	Name of job owner
52	(34)	CHARACTER	8	JDBOWJBN	Job name
60	(3C)	CHARACTER	8	JDBOWSVN	Service class name
68	(44)	CHARACTER	16	JDBOWSCH	Scheduling environment
84	(54)	BITSTRING	1	JDBOWFLG	Work selection flags:
		1...		JDBOWHLD	"B'10000000'" Select held (HOLD=YES)
		.1..		JDBOWRLS	"B'01000000'" Select non held (HOLD=NO) If neither bit set, select none (HOLD=NONE)
		..1.		JDBOWANY	"B'00100000'" Work selection member affinity is ANY (also see section starting with field JDBOWMBO).
		...1		JDBOWJOB	"B'00010000'" Job ID range is for JOB
		.... 1..		JDBOWSTC	"B'00001000'" Job ID range is for STC
		.... .1..		JDBOWTSU	"B'00000100'" Job ID range is for TSU
85	(55)	BITSTRING	3		Reserved
88	(58)	SIGNED	4	(0)	Job id range for work selection:
88	(58)	SIGNED	4	JDBOWJIL	job id low limit
92	(5C)	SIGNED	4	JDBOWJIH	job id high limit
Array of job classes This is a variable size array of fixed-size character strings which represent names of job classes or job class groups. The class array can also be viewed as a single string, which starts JDBOWCLO bytes from JDBOJRCV and which length is JDBOWCL# JDBOWCLL.					
96	(60)	ADDRESS	2	JDBOWCLO	Offset from the beginning of DSECT to the first job class
98	(62)	ADDRESS	2	JDBOWCL#	Number of elements in array
100	(64)	ADDRESS	2	JDBOWCLL	Length of each element

IAZSSJD mapping

Table 225. Structure JDBOJRCV (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
<p>Array of routing codes/destination ids. This is variable size array of fixed-size character strings which represent routing codes or destination ids.</p>					
102	(66)	ADDRESS	2	JDBOWDSO	Offset from the beginning of DSECT to the first route code/dest id
104	(68)	ADDRESS	2	JDBOWDS#	Number of elements in array
106	(6A)	ADDRESS	2	JDBOWDSL	Length of each element
<p>Array of binary route codes for work selection This is variable size array of fixed-size structures, mapped by the JDD2DEST structure, of binary route codes used for work selection.</p>					
108	(6C)	ADDRESS	2	JDBOWRCO	Offset from the beginning of DSECT to the first route code
110	(6E)	ADDRESS	2	JDBOWRC#	Number of elements in array
112	(70)	ADDRESS	2	JDBOWRCL	Length of each element
<p>Array of MAS member names for work selection (member affinity) This is variable size array of fixed-size character strings which represent MAS member names used for work selection. NOTE: Check the JDBOWANY bit first before using these fields.</p>					
114	(72)	ADDRESS	2	JDBOWMBO	Offset from the beginning of DSECT to the first member name
116	(74)	ADDRESS	2	JDBOWMB#	Number of elements in array
118	(76)	ADDRESS	2	JDBOWMBL	Length of each element
<p>Work selection criteria in printable form. The work selection criteria string is represented in the format which would be used by appropriate JES configuration command.</p>					
120	(78)	ADDRESS	2	JDBOWSCO	Offset from the beginning of DSECT to the work selection string
122	(7A)	ADDRESS	2	JDBOWSCL	Length of the work selection string
<p>Work selection criteria in encoded form. The work selection criteria is encoded as an array of bytes, where the value of each byte represents an attribute used for work selection. (See symbol definitions for work selection attributes - JDWSxxxx.)</p>					
124	(7C)	ADDRESS	2	JDBOWSEO	Offset from the beginning of DSECT to the work selection array
126	(7E)	ADDRESS	2	JDBOWSEL	Length of the work selection array
126	(7E)	X'80'	0	JDBOSIZE	"*-JDBOJRCV" Size of job receiver OFFLOAD section (internal use only)

Table 226. Structure JDB2JRCV

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDB2JRCV	, Job receiver device JES2 section
0	(0)	ADDRESS	4	JDB2LNG	Length of this section
4	(4)	ADDRESS	1	JDB2TYPE	Section type
5	(5)	ADDRESS	1	JDB2MOD	Section type modifier
6	(6)	BITSTRING	2		Reserved
8	(8)	BITSTRING	3	JDB2DVID	Binary device id
11	(B)	BITSTRING	1		Reserved
11	(B)	X'C'	0	JDB2SIZE	"*-JDB2JRCV" Size of job receiver JES2 section (internal use only)

Table 227. Structure JDSHSRCV

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDSHSRCV	, SYSOUT receiver device header
0	(0)	CHARACTER	8	JDSHEYE	Eye catcher
8	(8)	ADDRESS	2	JDSHOHDR	Offset to first (prefix) section
10	(A)	BITSTRING	6		Reserved
16	(10)	ADDRESS	8	JDSHJPL8	Address of IAZJPLXI for this device
16	(10)	X'14'	0	JDSHJPLX	"JDSHJPL8+4,4,C'A'" 31-bit part of a pointer
24	(18)	ADDRESS	8	JDSHNEX8	Address of header of the next device
24	(18)	X'1C'	0	JDSHNEXT	"JDSHNEX8+4,4,C'A'" 31-bit part of the pointer
32	(20)	ADDRESS	8	JDSHPAR8	Address of parent device (offload, line or NJE conn)
32	(20)	X'24'	0	JDSHPARN	"JDSHPAR8+4,4,C'A'" 31-bit part of the pointer
32	(20)	X'28'	0	JDSHSIZE	"*-JDSHSRCV" Header size (internal use only)

Table 228. Structure JDSCSRCV

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDSCSRCV	, SYSOUT receiver common section
0	(0)	ADDRESS	4	JDSCLNG	Length of this section
4	(4)	ADDRESS	1	JDSCTYPE	Section type
5	(5)	ADDRESS	1	JDSCMOD	Section type modifier
6	(6)	BITSTRING	2		Reserved
8	(8)	ADDRESS	1	JDSCDEVT	Device type
9	(9)	ADDRESS	1	JDSCDEVC	Device class: JDDCNJE for NJE devices JDDCOFLD for OFFLOAD devices
10	(A)	CHARACTER	10	JDSCNAME	Device name
20	(14)	BITSTRING	8		Reserved
28	(1C)	BITSTRING	2	JDSCSTAT(0)	Device status: (see common device status flags)
28	(1C)	BITSTRING	1	JDSCSTA1	first status byte

IAZSSJD mapping

Table 228. Structure JDSCSRCV (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
29	(1D)	BITSTRING	1	JDSCSTA2	second status byte
30	(1E)	CHARACTER	8	JDSCSYSN	Owning MVS system name
38	(26)	CHARACTER	8	JDSCMBRN	JESplex member name
46	(2E)	CHARACTER	8	JDSCSECL	Security label
54	(36)	BITSTRING	2		Reserved
56	(38)	CHARACTER	8	JDSCCSTA	Status, character value
56	(38)	X'40'	0	JDSCSIZE	"*-JDSCSRCV" Size of SYSOUT receiver common section (internal use only)

Table 229. Structure JDSOSRCV

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDSOSRCV	, SYSOUT receiver OFFLOAD section
0	(0)	ADDRESS	4	JDSOLNG	Length of this section
4	(4)	ADDRESS	1	JDSOTYPE	Section type
5	(5)	ADDRESS	1	JDSOMOD	Section type modifier
6	(6)	BITSTRING	2		Reserved
8	(8)	BITSTRING	1	JDSOFLG1	Processing flags:
		1...		JDSO1NFY	"B'10000000'" send notification message to TSO userid as requested
		.1..		JDSO1STR	"B'01000000'" start this receiver when OFFLOAD device is started
9	(9)	BITSTRING	3		Reserved
Modification settings - SYSOUT dataset attributes will be changed in a specified way when data set is successfully received.					
12	(C)	CHARACTER	4	JDSOMFCB	New FCB name
16	(10)	CHARACTER	4	JDSOMFLH	New flash id
20	(14)	CHARACTER	8	JDSOMFRM	New form name
28	(1C)	CHARACTER	8	JDSOMPRM	New processing mode
36	(24)	CHARACTER	8	JDSOMCLS	New output class/queue
44	(2C)	CHARACTER	18	JDSOMDST	New route code/destination
62	(3E)	CHARACTER	4	JDSOMUCS	New UCS name
66	(42)	CHARACTER	4		Reserved
70	(46)	CHARACTER	8	JDSOMWTR	New writer name
78	(4E)	BITSTRING	1	JDSOFLG2	Modification settings:
		1...		JDSO2BRS	"B'10000000'" set BURST=YES
		.1..		JDSO2BRN	"B'01000000'" set BURST=NO if neither bit set, do not change the attribute
		..1.		JDSO2HLD	"B'00100000'" hold output (HOLD=YES)
		...1		JDSO2RLS	"B'00010000'" release output (HOLD=NO) if neither bit set, status is not changed (HOLD=NONE)
		.... 1...		JDSO2ODH	"B'00001000'" set OUTDISP=HOLD
		.... .1..		JDSO2ODK	"B'00000100'" set OUTDISP=KEEP

Table 229. Structure JDSOSRCV (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ..1.		JDSO2ODL	"B'00000010'" set OUTDISP=LEAVE
		.... ...1		JDSO2ODW	"B'00000001'" set OUTDISP=WRITE
79	(4F)	BITSTRING	1		Reserved
Values for attributes used for work selection					
80	(50)	CHARACTER	4	JDSOWFCB	FCB name
84	(54)	CHARACTER	4	JDSOWFLH	Flash id
88	(58)	CHARACTER	8	JDSOWCRT	SYSOUT creator/owner name
96	(60)	CHARACTER	8	JDSOWJBN	Job name
104	(68)	SIGNED	4	(0)	Job id range for work selection:
104	(68)	SIGNED	4	JDSOWJIL	job id low limit
108	(6C)	SIGNED	4	JDSOWJIH	job id high limit
112	(70)	CHARACTER	4	JDSOWUCS	UCS name
116	(74)	CHARACTER	4		Reserved
120	(78)	CHARACTER	8	JDSOWWTR	Writer name
128	(80)	BITSTRING	1	JDSOFLG3	Work selection flags:
		1...		JDSO3BRS	"B'10000000'" select jobs with BURST=YES (if not set - select BURST=NO)
		.1..		JDSO3HLD	"B'01000000'" select jobs which are held (if not set - select jobs which are not held)
		..1.		JDSO3ODH	"B'00100000'" select output with OUTDISP=HOLD
		...1		JDSO3ODK	"B'00010000'" select output with OUTDISP=KEEP
		.... 1...		JDSO3ODL	"B'00001000'" select output with OUTDISP=LEAVE
		.... ..1.		JDSO3ODW	"B'00000100'" select output with OUTDISP=WRITE
		.... ...1		JDSO3BNS	"B'00000010'" BURST value was not set (ignore JDSO3BRS)
		.... ...1		JDSO3HNS	"B'00000001'" HOLD value was not set (ignore JDSO3HLD)
129	(81)	BITSTRING	1	JDSOFLG4	More work Selection flags:
		1...		JDSO4JOB	"B'10000000'" Job ID range is for JOB
		.1..		JDSO4STC	"B'01000000'" Job ID range is for STC
		..1.		JDSO4TSU	"B'00100000'" Job ID range is for TSU
130	(82)	BITSTRING	2		Reserved
Array of output classes This is a variable size array of fixed-size character strings which represent names of output classes.					
132	(84)	ADDRESS	2	JDSOWCLO	Offset from the beginning of DSECT to the first class
134	(86)	ADDRESS	2	JDSOWCL#	Number of elements in array
136	(88)	ADDRESS	2	JDSOWCLL	Length of each element

IAZSSJD mapping

Table 229. Structure JDSOSRCV (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
<p>Array of form names This is a variable size array of fixed-size character strings which represent names of output forms.</p>					
138	(8A)	ADDRESS	2	JDSOWFMO	Offset from the beginning of DSECT to the first form name
140	(8C)	ADDRESS	2	JDSOWFM#	Number of elements in array
142	(8E)	ADDRESS	2	JDSOWFML	Length of each element
<p>Array of processing mode names This is a variable size array of fixed-size character strings which represent names of processing modes.</p>					
144	(90)	ADDRESS	2	JDSOWPMO	Offset from the beginning of DSECT to the first processing mode name
146	(92)	ADDRESS	2	JDSOWPM#	Number of elements in array
148	(94)	ADDRESS	2	JDSOWPML	Length of each element
<p>Array of routing codes/destination ids This is variable size array of fixed-size character strings which represent routing codes or destination ids.</p>					
150	(96)	ADDRESS	2	JDSOWDSO	Offset from the beginning of DSECT to the first route code/dest id
152	(98)	ADDRESS	2	JDSOWDS#	Number of elements in array
154	(9A)	ADDRESS	2	JDSOWDSL	Length of each element
<p>Array of binary route codes for work selection This is variable size array of fixed-size structures, mapped by the JDD2DEST structure, of binary route codes used for work selection.</p>					
156	(9C)	ADDRESS	2	JDSOWRCO	Offset from the beginning of DSECT to the first route code
158	(9E)	ADDRESS	2	JDSOWRC#	Number of elements in array
160	(A0)	ADDRESS	2	JDSOWRCL	Length of each element
162	(A2)	BITSTRING	2		Reserved
<p>Work selection criteria in printable form. The work selection criteria string is represented in the format which would be used by appropriate JES configuration command.</p>					
164	(A4)	ADDRESS	2	JDSOWSCO	Offset from the beginning of DSECT to the work selection string
166	(A6)	ADDRESS	2	JDSOWSCL	Length of the work selection string
<p>Work selection criteria in encoded form. The work selection criteria is encoded as an array of bytes, where the value of each byte represents an attribute used for work selection. (See symbol definitions for work selection attributes - JDWSxxxx.)</p>					

Table 229. Structure JDSOSRCV (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
168	(A8)	ADDRESS	2	JDSOWSEO	Offset from the beginning of DSECT to the work selection array
170	(AA)	ADDRESS	2	JDSOWSEL	Length of the work selection array
170	(AA)	X'AC'	0	JDSOSIZE	"*-JDSOSRCV" Size of OFFLOAD SYSOUT receiver section (internal use only)

Table 230. Structure JDS2SRCV

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDS2SRCV	, SYSOUT receiver JES2 section
0	(0)	ADDRESS	4	JDS2LNG	Length of this section
4	(4)	ADDRESS	1	JDS2TYPE	Section type
5	(5)	ADDRESS	1	JDS2MOD	Section type modifier
6	(6)	BITSTRING	2		Reserved
8	(8)	BITSTRING	3	JDS2DVID	Binary device id
11	(B)	BITSTRING	1		Reserved
11	(B)	X'C'	0	JDS2SIZE	"*-JDS2SRCV" Size of SYSOUT receiver JES2 section (internal use only)

Table 231. Structure JDXHJXMT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDXHJXMT	, Job transmitter header
0	(0)	CHARACTER	8	JDXHEYE	Eye catcher
8	(8)	ADDRESS	2	JDXHOHDR	Offset to first (prefix) section
10	(A)	BITSTRING	6		Reserved
16	(10)	ADDRESS	8	JDXHJPL8	Address of IAZJPLXI for this device
16	(10)	X'14'	0	JDXHJPLX	"JDXHJPL8+4,4,C'A'" 31-bit part of a pointer
24	(18)	ADDRESS	8	JDXHNEX8	Address of header of the next device
24	(18)	X'1C'	0	JDXHNEXT	"JDXHNEX8+4,4,C'A'" 31-bit part of the pointer
32	(20)	ADDRESS	8	JDXHPAR8	Address of parent device (offload, line or NJE conn)
32	(20)	X'24'	0	JDXHPARN	"JDXHPAR8+4,4,C'A'" 31-bit part of the pointer
32	(20)	X'28'	0	JDXHSIZE	"*-JDXHJXMT" Header size (internal use only)

Table 232. Structure JDXCJXMT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDXCJXMT	, Job transmitter common data
0	(0)	ADDRESS	4	JDXCLNG	Length of this section

IAZSSJD mapping

Table 232. Structure JDXCJXMT (continued)

Offset	Offset					
Dec	Hex	Type	Len	Name(Dim)		Description
4	(4)	ADDRESS	1	JDXCETYPE		Section type
5	(5)	ADDRESS	1	JDXCMOD		Section type modifier
6	(6)	BITSTRING	2			Reserved
8	(8)	ADDRESS	1	JDXCDEV		Device type
9	(9)	ADDRESS	1	JDXCDEV		Device class: JDDCNJE for NJE devices JDDCOFLD for OFFLOAD devices
10	(A)	CHARACTER	10	JDXCNAME		Device name
20	(14)	BITSTRING	8			Reserved
28	(1C)	BITSTRING	2	JDXCSTAT(0)		Device status: (see common device status flags)
28	(1C)	BITSTRING	1	JDXCSTA1		first status byte
29	(1D)	BITSTRING	1	JDXCSTA2		second status byte
30	(1E)	CHARACTER	8	JDXCSYSN		Owning MVS system name
38	(26)	CHARACTER	8	JDXCMBRN		JESplex member name
46	(2E)	CHARACTER	8	JDXCSECL		Security label
54	(36)	BITSTRING	2			Reserved
56	(38)	CHARACTER	8	JDXCCSTA		Status, character value
56	(38)	X'40'	0	JDXCSIZE		"*-JDXCJXMT" Size of job transmitter common section (internal use only)

Table 233. Structure JDXNJXMT

Offset	Offset					
Dec	Hex	Type	Len	Name(Dim)		Description
0	(0)	STRUCTURE	0	JDXNJXMT		, Job transmitter NJE section
0	(0)	ADDRESS	4	JDXNLNG		Length of this section
4	(4)	ADDRESS	1	JDXNTYPE		Section type
5	(5)	ADDRESS	1	JDXNMOD		Section type modifier
6	(6)	BITSTRING	2			Reserved
Values for attributes used for work selection						
8	(8)	SIGNED	4	(0)		Job size range for work selection (records):
8	(8)	SIGNED	4	JDXNWJSL		job size low limit
12	(C)	SIGNED	4	JDXNWJSH		job size high limit
Work selection criteria in printable form. The work selection criteria string is represented in the format which would be used by appropriate JES configuration command.						
16	(10)	ADDRESS	2	JDXNWSCO		Offset from the beginning of DSECT to the work selection string
18	(12)	ADDRESS	2	JDXNWSCL		Length of the work selection string
Work selection criteria in encoded form. The work selection criteria is encoded as an array of bytes, where the value of each byte represents an attribute used for work selection. (See symbol definitions for work selection attributes - JDWSxxxx.)						

Table 233. Structure JDXNJXMT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
20	(14)	ADDRESS	2	JDXNWSEO	Offset from the beginning of DSECT to the work selection array
22	(16)	ADDRESS	2	JDXNWSEL	Length of the work selection array
22	(16)	X'18'	0	JDXNSIZE	"*-JDXNJXMT" Size of job transmitter NJE section (internal use only)

Table 234. Structure JDXOJXMT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDXOJXMT	, Job transmitter OFFLOAD section
0	(0)	ADDRESS	4	JDXOLNG	Length of this section
4	(4)	ADDRESS	1	JDXOTYPE	Section type
5	(5)	ADDRESS	1	JDXOMOD	Section type modifier
6	(6)	BITSTRING	2		Reserved
8	(8)	BITSTRING	1	JDXOFLG1	Processing flags:
		1... ..		JDXO1NFY	"B'10000000'" send notification message to TSO userid as requested
		.1.. ..		JDXO1STR	"B'01000000'" start this receiver when OFFLOAD device is started
9	(9)	BITSTRING	1	JDXODISP	Post-offload job disposition:
		.... ..1		JDXODDEL	"X'01'" DELETE
		.... ..1.		JDXODHLD	"X'02'" HOLD
		.... ..11		JDXODKP	"X'03'" KEEP
10	(A)	BITSTRING	2		Reserved
Values for attributes used for work selection					
12	(C)	CHARACTER	8	JDXOWOWN	Name of job owner
20	(14)	CHARACTER	8	JDXOWJBN	Job name
28	(1C)	CHARACTER	8	JDXOWSVN	Service class name
36	(24)	CHARACTER	16	JDXOWSCH	Scheduling environment
52	(34)	SIGNED	4	(0)	Job id range for work selection:
52	(34)	SIGNED	4	JDXOWJIL	job id low limit
56	(38)	SIGNED	4	JDXOWJIH	job id high limit
60	(3C)	SIGNED	4	(0)	Job size range for work selection (records):
60	(3C)	SIGNED	4	JDXOWJSL	job size low limit
64	(40)	SIGNED	4	JDXOWJSH	job size high limit
68	(44)	BITSTRING	1	JDXOWFLG	Work selection flags:
		1... ..		JDXOWHLD	"B'10000000'" Select held (HOLD=YES)
		.1.. ..		JDXOWRLS	"B'01000000'" Select non held (HOLD=NO) If neither bit set, select none (HOLD=NONE)
		..1.		JDXOFANY	"B'00100000'" Default member affinity is ANY. (also see section starting with field JDXOWMBO).

IAZSSJD mapping

Table 234. Structure JDXOJXMT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		JDXOWJOB	"B'00010000'" Job ID range is for JOB
		.... 1...		JDXOWSTC	"B'00001000'" Job ID range is for STC
		.... .1..		JDXOWTSU	"B'00000100'" Job ID range is for TSU
69	(45)	BITSTRING	3		Reserved
<p>Array of job classes This is a variable size array of fixed-size character strings which represent names of job classes or job class groups. The class array can also be viewed as a single string, which starts JDXOWCLO bytes from JDXOJXMT and which length is JDXOWCL# JDXOWCLL.</p>					
72	(48)	ADDRESS	2	JDXOWCLO	Offset from the beginning of DSECT to the first job class name
74	(4A)	ADDRESS	2	JDXOWCL#	Number of elements in array
76	(4C)	ADDRESS	2	JDXOWCLL	Length of each element
<p>Array of routing codes/destination ids This is variable size array of fixed-size character strings which represent routing codes or destination ids.</p>					
78	(4E)	ADDRESS	2	JDXOWDSO	Offset from the beginning of DSECT to the first route code/dest id
80	(50)	ADDRESS	2	JDXOWDS#	Number of elements in array
82	(52)	ADDRESS	2	JDXOWDSL	Length of each element
<p>Array of binary route codes for work selection This is variable size array of fixed-size structures, mapped by the JDD2DEST structure, of binary route codes used for work selection.</p>					
84	(54)	ADDRESS	2	JDXOWRCO	Offset from the beginning of DSECT to the first route code
86	(56)	ADDRESS	2	JDXOWRC#	Number of elements in array
88	(58)	ADDRESS	2	JDXOWRCL	Length of each element
<p>Array of MAS member names for work selection (member affinity) This is variable size array of fixed-size character strings which represent MAS member names used for work selection. NOTE: Check the JDXOFANY bit first before using these fields.</p>					
90	(5A)	ADDRESS	2	JDXOWMBO	Offset from the beginning of DSECT to the first MAS member name
92	(5C)	ADDRESS	2	JDXOWMB#	Number of elements in array
94	(5E)	ADDRESS	2	JDXOWMBL	Length of each element
<p>Array of spool volume names for work selection This is variable size array of fixed-size character strings which represent spool volume names used for work selection.</p>					

Table 234. Structure JDXOJXMT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
96	(60)	ADDRESS	2	JDXOWVLO	Offset from the beginning of DSECT to the first volume name
98	(62)	ADDRESS	2	JDXOWVL#	Number of elements in array
100	(64)	ADDRESS	2	JDXOWVLL	Length of each element
102	(66)	BITSTRING	2		Reserved
<p>Work selection criteria in printable form. The work selection criteria string is represented in the format which would be used by appropriate JES configuration command.</p>					
104	(68)	ADDRESS	2	JDXOWSCO	Offset from the beginning of DSECT to the work selection string
106	(6A)	ADDRESS	2	JDXOWSCL	Length of the work selection string
<p>Work selection criteria in encoded form. The work selection criteria is encoded as an array of bytes, where the value of each byte represents an attribute used for work selection. (See symbol definitions for work selection attributes - JDWSxxxx.)</p>					
108	(6C)	ADDRESS	2	JDXOWSEO	Offset from the beginning of DSECT to the work selection array
110	(6E)	ADDRESS	2	JDXOWSEL	Length of the work selection array
110	(6E)	X'70'	0	JDXOSIZE	"*-JDXOJXMT" Size of job transmitter OFFLOAD section (internal use only)

Table 235. Structure JDX2JXMT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDX2JXMT	, Job xmitter JES2 section
0	(0)	ADDRESS	4	JDX2LNG	Length of this section
4	(4)	ADDRESS	1	JDX2TYPE	Section type
5	(5)	ADDRESS	1	JDX2MOD	Section type modifier
6	(6)	BITSTRING	2		Reserved
8	(8)	BITSTRING	3	JDX2DVID	Binary device id
11	(B)	BITSTRING	1		Reserved
11	(B)	X'C'	0	JDX2SIZE	"*-JDX2JXMT" Size of Job xmitter JES2 section (internal use only)

Table 236. Structure JDYHSXMT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDYHSXMT	, SYSOUT transmitter header
0	(0)	CHARACTER	8	JDYHEYE	Eye catcher
8	(8)	ADDRESS	2	JDYHOHDR	Offset to first (prefix) section
10	(A)	BITSTRING	6		Reserved
16	(10)	ADDRESS	8	JDYHJPL8	Address of IAZJPLXI for this device

IAZSSJD mapping

Table 236. Structure JDYHSXMT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
16	(10)	X'14'	0	JDYHJPLX	"JDYHJPL8+4,4,C'A'" 31-bit part of a pointer
24	(18)	ADDRESS	8	JDYHNEX8	Address of header of the next device
24	(18)	X'1C'	0	JDYHNEXT	"JDYHNEX8+4,4,C'A'" 31-bit part of the pointer
32	(20)	ADDRESS	8	JDYHPAR8	Address of parent device (offload, line or NJE conn)
32	(20)	X'24'	0	JDYHPARN	"JDYHPAR8+4,4,C'A'" 31-bit part of the pointer
32	(20)	X'28'	0	JDYHSIZE	"*-JDYHSXMT" Header size (internal use only)

Table 237. Structure JDYCSXMT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDYCSXMT	, SYSOUT transmitter common section
0	(0)	ADDRESS	4	JDYCLNG	Length of this section
4	(4)	ADDRESS	1	JDYCTYPE	Section type
5	(5)	ADDRESS	1	JDYCMOD	Section type modifier
6	(6)	BITSTRING	2		Reserved
8	(8)	ADDRESS	1	JDYCDEVT	Device type
9	(9)	ADDRESS	1	JDYCDEVX	Device class: JDDCNJE for NJE devices JDDCOFLD for OFFLOAD devices
10	(A)	CHARACTER	10	JDYCNAME	Device name
20	(14)	BITSTRING	8		Reserved
28	(1C)	BITSTRING	2	JDYCSTAT(0)	Device status: (see common device status flags)
28	(1C)	BITSTRING	1	JDYCSTA1	first status byte
29	(1D)	BITSTRING	1	JDYCSTA2	second status byte
30	(1E)	CHARACTER	8	JDYCSYSN	Owning MVS system name
38	(26)	CHARACTER	8	JDYCMBRN	JESplex member name
46	(2E)	CHARACTER	8	JDYCSECL	Security label
54	(36)	BITSTRING	2		Reserved
56	(38)	CHARACTER	8	JDYCCSTA	Status, character value
56	(38)	X'40'	0	JDYCSIZE	"*-JDYCSXMT" Size of SYSOUT transmitter common section (internal use only)

Table 238. Structure JDYNSXMT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDYNSXMT	, SYSOUT transmitter NJE section
0	(0)	ADDRESS	4	JDYNLNG	Length of this section
4	(4)	ADDRESS	1	JDYNTYPE	Section type
5	(5)	ADDRESS	1	JDYNMOD	Section type modifier
6	(6)	BITSTRING	2		Reserved

Values for attributes used for work selection

Table 238. Structure JDYNSXMT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
8	(8)	SIGNED	4	(0)	Dataset size range for work selection (records):
8	(8)	SIGNED	4	JDYNWDSL	dataset size low limit
12	(C)	SIGNED	4	JDYNWDSH	dataset size high limit
16	(10)	SIGNED	4	(0)	SYSOUT size range for work selection (pages):
16	(10)	SIGNED	4	JDYNWPLL	page limit - low limit
20	(14)	SIGNED	4	JDYNWPLH	page limit - high limit
24	(18)	BITSTRING	1	JDYNFLAG	Work selection flags:
		1...		JDYNFODH	"B'10000000'" select output with OUTDISP=HOLD
		.1..		JDYNFODK	"B'01000000'" select output with OUTDISP=KEEP
		..1.		JDYNFODL	"B'00100000'" select output with OUTDISP=LEAVE
		...1		JDYNFODW	"B'00010000'" select output with OUTDISP=WRITE
25	(19)	BITSTRING	3		Reserved
		Work selection criteria in printable form. The work selection criteria string is represented in the format which would be used by appropriate JES configuration command.			
28	(1C)	ADDRESS	2	JDYNWSCO	Offset from the beginning of DSECT to the work selection string
30	(1E)	ADDRESS	2	JDYNWACL	Length of the work selection string
		Work selection criteria in encoded form. The work selection criteria is encoded as an array of bytes, where the value of each byte represents an attribute used for work selection. (See symbol definitions for work selection attributes - JDWSxxxx.)			
32	(20)	ADDRESS	2	JDYNWSEO	Offset from the beginning of DSECT to the work selection array
34	(22)	ADDRESS	2	JDYNWSEL	Length of the work selection array
34	(22)	X'24'	0	JDYNWSEZ	"*-JDYNSXMT" Size of SYSOUT transmitter NJE section (internal use only)

Table 239. Structure JDYOSXMT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDYOSXMT	, SYSOUT transmitter OFFLOAD section
0	(0)	ADDRESS	4	JDYOLNG	Length of this section
4	(4)	ADDRESS	1	JDYOTYPE	Section type
5	(5)	ADDRESS	1	JDYOMOD	Section type modifier
6	(6)	BITSTRING	2		Reserved
8	(8)	BITSTRING	1	JDYOFLG1	Processing flags:

IAZSSJD mapping

Table 239. Structure JDYOSXMT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		JDY01NFY	"B'10000000'" send notification message to TSO userid as requested
		.1..		JDY01STR	"B'01000000'" start this transmitter when OFFLOAD device is started
9	(9)	BITSTRING	1	JDY0DISP	Post-offload SYSOUT disposition:
		.... ...1		JDY0DEL	"X'01'" DELETE
		.... ..1.		JDY0HLD	"X'02'" HOLD
		.... ..11		JDY0DKP	"X'03'" KEEP
10	(A)	BITSTRING	2		Reserved
Values for attributes used for work selection					
12	(C)	CHARACTER	4	JDY0WFCB	FCB name
16	(10)	CHARACTER	4	JDY0WFLH	Flash id
20	(14)	CHARACTER	8	JDY0WOWN	Dataset owner/creator
28	(1C)	CHARACTER	8	JDY0WJBN	Job name
36	(24)	SIGNED	4	(0)	Dataset size for work selection (records):
36	(24)	SIGNED	4	JDY0WDL	dataset size low limit
40	(28)	SIGNED	4	JDY0WDL	dataset size high limit
44	(2C)	SIGNED	4	(0)	SYSOUT size for work selection (pages):
44	(2C)	SIGNED	4	JDY0WPLL	page limit - low limit
48	(30)	SIGNED	4	JDY0WPLH	page limit - high limit
52	(34)	SIGNED	4	(0)	Job id range for work selection:
52	(34)	SIGNED	4	JDY0WJIL	job id low limit
56	(38)	SIGNED	4	JDY0WJIH	job id high limit
60	(3C)	CHARACTER	4	JDY0WUCS	UCS name
64	(40)	CHARACTER	4		Reserved
68	(44)	CHARACTER	8	JDY0WTR	Writer name
76	(4C)	ADDRESS	1	JDY0WPTY	Output priority
77	(4D)	BITSTRING	1	JDY0WFLG	Work selection flags
		1...		JDY0WBRS	"B'10000000'" select SYSOUT with BURST=YES (if not set - select BURST=NO)
		.1..		JDY0WHL	"B'01000000'" select output which is held (if not set - select output which is not held)
		..1.		JDY0WODH	"B'00100000'" select output with OUTDISP=HOLD
		...1		JDY0WODK	"B'00010000'" select output with OUTDISP=KEEP
		.... 1...		JDY0WODL	"B'00001000'" select output with OUTDISP=LEAVE
		.... .1..		JDY0WODW	"B'00000100'" select output with OUTDISP=WRITE
		.... ..1.		JDY0WBNS	"B'00000010'" BURST value was not set (ignore JDY0WBRS)
		.... ...1		JDY0WHNS	"B'00000001'" HOLD value was not set (ignore JDY0WHL)

Table 239. Structure JDYOSXMT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
<p>Array of output classes This is a variable size array of fixed-size character strings which represent names of output classes.</p>					
78	(4E)	ADDRESS	2	JDYOWCLO	Offset from the beginning of DSECT to the first output class
80	(50)	ADDRESS	2	JDYOWCL#	Number of elements in array
82	(52)	ADDRESS	2	JDYOWCLL	Length of each element
<p>Array of form names This is a variable size array of fixed-size character strings which represent form names.</p>					
84	(54)	ADDRESS	2	JDYOWFMO	Offset from the beginning of DSECT to the first form name
86	(56)	ADDRESS	2	JDYOWFM#	Number of elements in array
88	(58)	ADDRESS	2	JDYOWFML	Length of each element
<p>Array of processing modes This is a variable size array of fixed-size character strings which represent names of processing modes.</p>					
90	(5A)	ADDRESS	2	JDYOWPMO	Offset from the beginning of DSECT to the first processing mode name
92	(5C)	ADDRESS	2	JDYOWPM#	Number of elements in array
94	(5E)	ADDRESS	2	JDYOWPML	Length of each element
<p>Array of routing codes/destination ids. This is variable size array of fixed-size character strings which represent routing codes or destination ids.</p>					
96	(60)	ADDRESS	2	JDYOWDSO	Offset from the beginning of DSECT to the first route code/dest id
98	(62)	ADDRESS	2	JDYOWDS#	Number of elements in array
100	(64)	ADDRESS	2	JDYOWDSL	Length of each element
<p>Array of binary route codes for work selection This is variable size array of fixed-size structures, mapped by the JDD2DEST structure, of binary route codes used for work selection.</p>					
102	(66)	ADDRESS	2	JDYOWRCO	Offset from the beginning of DSECT to the first route code
104	(68)	ADDRESS	2	JDYOWRC#	Number of elements in array
106	(6A)	ADDRESS	2	JDYOWRCL	Length of each element
<p>Array of spool volume names for work selection This is variable size array of fixed-size character strings which represent spool volume names used for work selection.</p>					
108	(6C)	ADDRESS	2	JDYOWVLO	Offset from the beginning of DSECT to the first volume name
110	(6E)	ADDRESS	2	JDYOWVL#	Number of elements in array
112	(70)	ADDRESS	2	JDYOWVLL	Length of each element
114	(72)	BITSTRING	2		Reserved

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Table 239. Structure JDYOSXMT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
Work selection criteria in printable form. The work selection criteria string is represented in the format which would be used by appropriate JES configuration command.					
116	(74)	ADDRESS	2	JDYOWSCO	Offset from the beginning of DSECT to the work selection string
118	(76)	ADDRESS	2	JDYOWSCL	Length of the work selection string
Work selection criteria in encoded form. The work selection criteria is encoded as an array of bytes, where the value of each byte represents an attribute used for work selection. (See symbol definitions for work selection attributes - JDWSxxxx.)					
120	(78)	ADDRESS	2	JDYOWSEO	Offset from the beginning of DSECT to the work selection array
122	(7A)	ADDRESS	2	JDYOWSEL	Length of the work selection array
More work selection flags:					
124	(7C)	BITSTRING	1	JDYOWFL2	More Work Selection flags: "B'10000000'" Job ID range is for JOB "B'01000000'" Job ID range is for STC "B'00100000'" Job ID range is for TSU
		1... ..		JDY02JOB	
		.1.. ..		JDY02STC	
		..1.		JDY02TSU	
125	(7D)	BITSTRING	3		Reserved
125	(7D)	X'80'	0	JDYOSIZE	"*-JDYOSXMT" Size of SYSOUT transmitter OFFLOAD section (internal use only)

Table 240. Structure JDY2SXMT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDY2SXMT	, SYSOUT xmitter device JES2 section
0	(0)	ADDRESS	4	JDY2LNG	Length of this section
4	(4)	ADDRESS	1	JDY2TYPE	Section type
5	(5)	ADDRESS	1	JDY2MOD	Section type modifier
6	(6)	BITSTRING	2		Reserved
8	(8)	BITSTRING	3	JDY2DVID	Binary device id
11	(B)	BITSTRING	1		Reserved
11	(B)	X'C'	0	JDY2SIZE	"*-JDY2SXMT" Size of SYSOUT xmitter JES2 section (internal use only)

Table 241. Structure JDJHNJEC

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDJHNJEC	, NJE connection header
0	(0)	CHARACTER	8	JDJHEYE	Eye catcher
8	(8)	ADDRESS	2	JDJHOHDR	Offset to first (prefix) section
10	(A)	BITSTRING	1	JDJHFLAG	Header flags:
		1... ..		JDJHFHCN	"B'10000000'" this header has continuation
		.1.. ..		JDJHFICN	"B'01000000'" this header is continuation
11	(B)	BITSTRING	1		Reserved
12	(C)	SIGNED	4	JDJHDEV#	Number of related devices in the chain (see JDJHDEV8)
16	(10)	ADDRESS	8	JDJHJPL8	Address of IAZJPLXI for this device
16	(10)	X'14'	0	JDJHJPLX	"JDJHJPL8+4,4,C'A'" 31-bit part of a pointer
24	(18)	ADDRESS	8	JDJHNEX8	Address of header of the next NJE connection
24	(18)	X'1C'	0	JDJHNEXT	"JDJHNEX8+4,4,C'A'" 31-bit part of the pointer
32	(20)	ADDRESS	8	JDJHDEV8	Address of header of the first related device
32	(20)	X'24'	0	JDJHDEV8	"JDJHDEV8+4,4,C'A'" 31-bit part of the pointer
40	(28)	ADDRESS	8	JDJHCON8	Address of continuation header
40	(28)	X'2C'	0	JDJHCONT	"JDJHCON8+4,4,C'A'" 31-bit part of the pointer
40	(28)	X'30'	0	JDJHSIZE	"*-JDJHNJEC" Header size (internal use only)

Table 242. Structure JDJCNJEC

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDJCNJEC	, NJE connection common section
0	(0)	ADDRESS	4	JDJCLNG	Length of this section
4	(4)	ADDRESS	1	JDJCTYPE	Section type
5	(5)	ADDRESS	1	JDJCMOD	Section type modifier
6	(6)	BITSTRING	2		Reserved
8	(8)	CHARACTER	8	JDJCNNAME	NJE connection name
16	(10)	CHARACTER	8	JDJCSYSN	Owning MVS system name
24	(18)	CHARACTER	8	JDJCMBRN	JESplex member name
32	(20)	CHARACTER	8	JDJCADJN	Adjacent node name
40	(28)	CHARACTER	8	JDJCNDSL	Adjacent node security label
48	(30)	BITSTRING	2	JDJCNSTAT(0)	NJE connection status: (see common device status flags)
48	(30)	BITSTRING	1	JDJCNSTA1	first status byte
49	(31)	BITSTRING	1	JDJCNSTA2	second status byte
50	(32)	ADDRESS	1	JDJCNPROT	Communication protocol type:
		.... ..1		JDJCNPBSC	"X'01'" BSC
		.... ..1.		JDJCNPSNA	"X'02'" SNA
		.... ..11		JDJCNPTCP	"X'03'" TCP/IP
51	(33)	BITSTRING	1	JDJCNFLAG	Processing flags:
		1... ..		JDJCNFAUT	"B'10000000'" auto restart

IAZSSJD mapping

Table 242. Structure JDJCNJEC (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		JDJCFTRB	"B'01000000'" basic trace requested
		..1.		JDJCFTCM	"B'00100000'" common code trace requested
		...1		JDJCFTEX	"B'00010000'" extended trace requested
		.... 1..		JDJFCFND	"B'00001000'" auto connect required (CONNECT=YES)
		.... .1..		JDJFCFNA	"B'00000100'" auto connect not required (CONNECT=NO) if both JDJFCFNA and JDJFCFNN are off, CONNECT=DEFAULT
52	(34)	CHARACTER	10	JDJCNAM2	Associated device name: - line device name for BSC - logon device name for SNA - NETSRV name for TCP/IP
62	(3E)	SIGNED	2	JDJCRINT	Auto restart interval (minutes)
64	(40)	SIGNED	2	JDJCRETR	Max number of restart retries (0 - indefinite retry)
66	(42)	SIGNED	2	JDJCTR#	Number of SYSOUT transmitters
68	(44)	SIGNED	2	JDJCSRC#	Number of SYSOUT receivers
70	(46)	SIGNED	2	JDJCTR#	Number of job transmitters
72	(48)	SIGNED	2	JDJCRJ#	Number of job receivers
74	(4A)	BITSTRING	2		Reserved
76	(4C)	BITSTRING	4	JDJCSKID	TCP/IP socket ID assigned by NETSRV (NJE over TCP/IP)
80	(50)	CHARACTER	8	JDJCCSTA	Status, character value
80	(50)	X'58'	0	JDJCSIZE	"*-JDJCNJEC" Size of NJE connection common section (internal use only)

Table 243. Structure JDWHRMTW

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDWHRMTW	, Remote workstation data header
0	(0)	CHARACTER	8	JDWHEYE	Eye catcher
8	(8)	ADDRESS	2	JDWHOHDR	Offset to first (prefix) section
10	(A)	BITSTRING	2		Reserved
12	(C)	SIGNED	4	JDWHDEV#	Number of related devices in the chain (see JDWHDEV8)
16	(10)	ADDRESS	8	JDWHJPL8	Address of IAZJPLXI for this device
16	(10)	X'14'	0	JDWHJPLX	"JDWHJPL8+4,4,C'A'" 31-bit part of a pointer
24	(18)	ADDRESS	8	JDWHNEX8	Address of header of the next remote workstation
24	(18)	X'1C'	0	JDWHNEXT	"JDWHNEX8+4,4,C'A'" 31-bit part of the pointer
32	(20)	ADDRESS	8	JDWHDEV8	Address of header of the first related device
32	(20)	X'24'	0	JDWHDEVX	"JDWHDEV8+4,4,C'A'" 31-bit part of the pointer

Table 243. Structure JDWHRMTW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
32	(20)	X'28'	0	JDWHSIZE	"*-JDWHRMTW" Header size (internal use only)

Table 244. Structure JDWCRMTW

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDWCRMTW	, Remote workstation common section
0	(0)	ADDRESS	4	JDWCLNG	Length of this section
4	(4)	ADDRESS	1	JDWCTYPE	Section type
5	(5)	ADDRESS	1	JDWCMOD	Section type modifier
6	(6)	BITSTRING	2		Reserved
8	(8)	CHARACTER	10	JDWCNAME	Remote workstation name
18	(12)	CHARACTER	8	JDWCSYSN	Owning MVS system name
26	(1A)	CHARACTER	8	JDWCMBRN	JESplex member name
34	(22)	CHARACTER	8	JDWCDEVT	Remote workstation device type
42	(2A)	BITSTRING	2	JDWCSTAT(0)	Remote workstation status: (see common device status flags)
42	(2A)	BITSTRING	1	JDWCSTA1	first status byte
43	(2B)	BITSTRING	1	JDWCSTA2	second status byte
44	(2C)	ADDRESS	1	JDWCPR0T	Connection protocol type:
		.... ...1		JDWCPBSC	"X'01'" BSC
		.... ...1.		JDWCPSNA	"X'02'" SNA
45	(2D)	BITSTRING	1	JDWCFLAG	Processing flags:
		1...		JDWCFCMP	"B'1000000'" compression supported
		.1..		JDWCFCNS	"B'0100000'" workstation has console
		..1.		JDWCFMSG	"B'0010000'" messages will be printed if console is not available
		...1		JDWCFPWD	"B'00010000'" password set indicator
46	(2E)	CHARACTER	10	JDWCLINE	Associated line device name
56	(38)	SIGNED	2	JDWCBUFS	Buffer size (bytes)
58	(3A)	SIGNED	2	JDWCDSCI	Disconnect interval (seconds)
60	(3C)	SIGNED	2	JDWCRTC	Route code
62	(3E)	SIGNED	2	JDWCCRTC	Console route code
64	(40)	ADDRESS	1	JDWCWTIM	Wait time (seconds)
65	(41)	ADDRESS	1	JDWCPRT#	Number of attached printers
66	(42)	ADDRESS	1	JDWCPUN#	Number of attached punches
67	(43)	ADDRESS	1	JDWCRDR#	Number of attached readers
68	(44)	CHARACTER	8	JDWCCSTA	Status, character value
68	(44)	X'4C'	0	JDWCsize	"*-JDWCRMTW" Size of remote ws common section (internal use only)

Table 245. Structure JDWNSNA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDWNSNA	, Remote workstation SNA section

IAZSSJD mapping

Table 245. Structure JDWNSNA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	ADDRESS	4	JDWNLNG	Length of this section
4	(4)	ADDRESS	1	JDWNTYPE	Section type
5	(5)	ADDRESS	1	JDWNMOD	Section type modifier
6	(6)	BITSTRING	2		Reserved
8	(8)	CHARACTER	8	JDWNLUNM	SNA LU name
16	(10)	CHARACTER	10	JDWNLOGN	Logon device name
26	(1A)	BITSTRING	1	JDWNFLAG	Processing flags:
		1... ..		JDWNFLGN	"B'10000000'" enable automatic logon
		.1.. ..		JDWNFCMP	"B'01000000'" use compaction
		..1.		JDWNFMSG	"B'00100000'" send setup request via message (if not set - send via PDIR)
27	(1B)	BITSTRING	1		Reserved
27	(1B)	X'1C'	0	JDWNSIZE	"*-JDWNSNA" Size of remote workstation SNA section (internal use only)

Table 246. Structure JDWBSC

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDWBSC	, Remote workstation data for BSC
0	(0)	ADDRESS	4	JDWBLNG	Length of this section
4	(4)	ADDRESS	1	JDWBTYPE	Section type
5	(5)	ADDRESS	1	JDWBMOD	Section type modifier
6	(6)	BITSTRING	2		Reserved
8	(8)	BITSTRING	1	JDWBFLG1	Processing flags (1):
		1... ..		JDWB1BEX	"B'10000000'" buffer expansion feature
		.1.. ..		JDWB1BXA	"B'01000000'" additional buffer expansion feature
		..1.		JDWB1BLK	"B'00100000'" blocked data record format
		...1		JDWB1HTB	"B'00010000'" horizontal tabs feature
		.... 1...		JDWB1MFJ	"B'00001000'" add job name to messages
		.... .1..		JDWB1MFT	"B'00000100'" add time stamp to messages
		.... ..1.		JDWB1MRF	"B'00000010'" multi-record feature
		.... ...1		JDWB1MLV	"B'00000001'" multi-leaving capability
9	(9)	BITSTRING	1	JDWBFLG2	Processing flags (2):
		1... ..		JDWB2VAR	"B'10000000'" variable length record format (if not set - fixed length format)
		.1.. ..		JDWB2TPY	"B'01000000'" text transparency feature

Table 246. Structure JDWBSC (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		JDWB2SHR	"B'00100000'" shared line definition (multiple workstations can use the same line definition)
10	(A)	BITSTRING	2		Reserved
10	(A)	X'C'	0	JDWBSIZE	"*-JDWBSC" Size of remote ws BSC section (internal use only)

Table 247. Structure JDW2RMTW

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDW2RMTW	, Remote workstation data for JES2
0	(0)	ADDRESS	4	JDW2LNG	Length of this section
4	(4)	ADDRESS	1	JDW2TYPE	Section type
5	(5)	ADDRESS	1	JDW2MOD	Section type modifier
6	(6)	BITSTRING	2		Reserved
8	(8)	BITSTRING	1	JDW2FLAG	Processing flags:
		1...		JDW2F150	"B'10000000'" send HASP150 message to this workstation in addition to local operator
		.1..		JDW2F190	"B'01000000'" HASP190 message type is ACTION (if not set - INFO)
9	(9)	BITSTRING	3		Reserved
9	(9)	X'C'	0	JDW2SIZE	"*-JDW2RMTW" Size of remote ws JES2 section (internal use only)

Table 248. Structure JDAPPLIC

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDAPPLIC	, SNA application section
0	(0)	ADDRESS	4	JDAPLNG	Length of this section
4	(4)	ADDRESS	1	JDAPTYPE	Section type
5	(5)	ADDRESS	1	JDAPMOD	Section type modifier
6	(6)	BITSTRING	2		Reserved
8	(8)	CHARACTER	8	JDAPNAME	VTAM application name
16	(10)	CHARACTER	8	JDAPLOGM	VTAM logmode
24	(18)	SIGNED	2	JDAPREST	Application resistance
26	(1A)	BITSTRING	2		Reserved
28	(1C)	CHARACTER	8	JDAPCMPT	Compaction table name
28	(1C)	X'24'	0	JDAPSIZE	"*-JDAPPLIC" Size of SNA application section (internal use only)

Table 249. Structure JDA2APPL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDA2APPL	, SNA application JES2 section
0	(0)	ADDRESS	4	JDA2LNG	Length of this section

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Table 249. Structure JDA2APPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	ADDRESS	1	JDA2TYPE	Section type
5	(5)	ADDRESS	1	JDA2MOD	Section type modifier
6	(6)	BITSTRING	2		Reserved
8	(8)	CHARACTER	10	JDA2LNAM	Associated line name
18	(12)	CHARACTER	10	JDA2LGNM	Associated logon name
28	(1C)	BITSTRING	3	JDA2LNDV	Associated line device id
31	(1F)	BITSTRING	3	JDA2LGDV	Associated logon device id
34	(22)	BITSTRING	2		Reserved
34	(22)	X'24'	0	JDA2SIZE	"*-JDA2APPL" Size of SNA application JES2 section (internal use only)

Table 250. Structure JDSKSOCK

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDSKSOCK	, TCP socket section
0	(0)	ADDRESS	4	JDSKLNK	Length of this section
4	(4)	ADDRESS	1	JDSKTYPE	Section type
5	(5)	ADDRESS	1	JDSKMOD	Section type modifier
6	(6)	BITSTRING	2		Reserved
8	(8)	CHARACTER	8	JDSKNAME	Socket name
16	(10)	ADDRESS	2	JDSKIHNO	Offset to the IP host name from the section start
18	(12)	ADDRESS	2	JDSKIHNL	Length of the IP host name
20	(14)	BITSTRING	16	JDSKIADR	IP address
36	(24)	BITSTRING	16	JDSKTPNM	TCP port name
52	(34)	ADDRESS	2	JDSKTPNR	TCP port number
54	(36)	CHARACTER	10	JDSKNSRV	NETSRV name
64	(40)	BITSTRING	1	JDSKFLAG	Socket flags:
		1... ..		JDSKFTLS	"B'1000000'" secure socket (TLS)
		.1.. ..		JDSKFSRV	"B'0100000'" server-type socket - dynamically created for inbound (passive) TCP connections
65	(41)	BITSTRING	3		Reserved
65	(41)	X'44'	0	JDSKSIZE	"*-JDSKSOCK" Size of socket data section (internal use only)

Table 251. Structure JDK2SOCK

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDK2SOCK	, TCP socket JES2 section
0	(0)	ADDRESS	4	JDK2LNK	Length of this section
4	(4)	ADDRESS	1	JDK2TYPE	Section type
5	(5)	ADDRESS	1	JDK2MOD	Section type modifier
6	(6)	BITSTRING	2		Reserved
8	(8)	CHARACTER	10	JDK2LNAM	Associated line name
18	(12)	BITSTRING	3	JDK2LNDV	Associated line device id
21	(15)	BITSTRING	3	JDK2NSDV	Associated NETSRV device id
24	(18)	BITSTRING	2	JDK2REST	Socket resistance

Table 251. Structure JDK2SOCK (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
26	(1A)	BITSTRING	2		Reserved
26	(1A)	X'1C'	0	JDK2SIZE	"*-JDK2SOCK" Size of socket data JES2 section (internal use only)

Table 252. Structure JDNRNODE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDNRNODE	, Reachable NJE nodes section
0	(0)	ADDRESS	4	JDNRLNG	Length of this section
4	(4)	ADDRESS	1	JDNRTYPE	Section type
5	(5)	ADDRESS	1	JDNRMOD	Section type modifier
6	(6)	BITSTRING	2		Reserved
8	(8)	ADDRESS	2	JDNROENT	Offset to the first entry
10	(A)	ADDRESS	2	JDNRNENT	Number of entries (nodes) reported in this fragment
12	(C)	ADDRESS	2	JDNRSENT	Size of each node entry (mapped by JDINODE DSECT)
14	(E)	ADDRESS	2	JDNRIENT	Index of the first entry reported in this fragment
16	(10)	BITSTRING	1	JDNRFLAG	Flags:
		1... ..		JDNRFHCN	"B'10000000'" this section has continuation
		.1.. ..		JDNRFICN	"B'01000000'" this section is continuation
17	(11)	BITSTRING	3		Reserved
17	(11)	X'14'	0	JDNRSIZE	"*-JDNRNODE" Size of reachable NJE nodes section (internal use only)

Table 253. Structure JDINODE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDINODE	, NJE node information entry
0	(0)	CHARACTER	8	JDNINAME	Node name
8	(8)	BITSTRING	1	JDNIFLAG	Node connection status:
		1... ..		JDNIFACT	"B'10000000'" active
		.1.. ..		JDNIFPND	"B'01000000'" pending
8	(8)	X'9'	0	JDNISIZE	"*-JDINODE" Size of NJE node information entry (internal use only)

Table 254. Structure JDALULST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDALULST	, Active LU list section
0	(0)	ADDRESS	4	JDALLNG	Length of this section
4	(4)	ADDRESS	1	JDALTYPE	Section type
5	(5)	ADDRESS	1	JDALMOD	Section type modifier
6	(6)	BITSTRING	2		Reserved
8	(8)	ADDRESS	2	JDALOENT	Offset to the first entry

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Table 254. Structure JDALULST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
10	(A)	ADDRESS	2	JDALNENT	Number of entries (LUs) reported in this fragment
12	(C)	ADDRESS	2	JDALSENT	Size of each LU entry (mapped by JDAILUEN DSECT)
14	(E)	ADDRESS	2	JDALIENT	Index of the first entry reported in this fragment
16	(10)	BITSTRING	1	JDALFLAG	Flags:
		1...		JDALFHCN	"B'10000000'" this section has continuation
		.1...		JDALFICN	"B'01000000'" this section is continuation
17	(11)	BITSTRING	3		Reserved
17	(11)	X'14'	0	JDALSIZE	"*-JDALULST" Size of active LU list section (internal use only)

Table 255. Structure JDAILUEN

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDAILUEN	, LU information entry
0	(0)	CHARACTER	8	JDAINAME	LU name
8	(8)	CHARACTER	10	JDAIDNAM	Associated device name
8	(8)	X'12'	0	JDAISIZE	"*-JDAILUEN" Size of LU information entry (internal use only)

Table 256. Structure JDASOCKL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDASOCKL	, Active sockets section
0	(0)	ADDRESS	4	JDASLNG	Length of this section
4	(4)	ADDRESS	1	JDASTYPE	Section type
5	(5)	ADDRESS	1	JDASMOD	Section type modifier
6	(6)	BITSTRING	2		Reserved
8	(8)	ADDRESS	2	JDASOENT	Offset to the first entry
10	(A)	ADDRESS	2	JDASNENT	Number of entries (sockets) reported in this fragment
12	(C)	ADDRESS	2	JDASSENT	Size of each socket entry (mapped by JDAESKEN DSECT)
14	(E)	ADDRESS	2	JDASIENT	Index of the first entry reported in this fragment
16	(10)	BITSTRING	1	JDASFLAG	Flags:
		1...		JDASFHCN	"B'10000000'" this section has continuation
		.1...		JDASFICN	"B'01000000'" this section is continuation
17	(11)	BITSTRING	3		Reserved
17	(11)	X'14'	0	JDASSIZE	"*-JDASOCKL" Size of active sockets section (internal use only)

Table 257. Structure JDAESKEN

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDAESKEN	, Socket information entry
0	(0)	CHARACTER	8	JDAENAME	Socket name
8	(8)	CHARACTER	10	JDAEDNAM	Associated device name
18	(12)	CHARACTER	4	JDAESKID	Socket id assigned by NETSRV
18	(12)	X'16'	0	JDAESIZE	"*-JDAESKEN" Size of socket information entry (internal use only)

Table 258. Structure JDJBINFO

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDJBINFO	, Job information section
0	(0)	ADDRESS	4	JDJBLNG	Length of this section
4	(4)	ADDRESS	1	JDJBTYPE	Section type
5	(5)	ADDRESS	1	JDJBMOD	Section type modifier
6	(6)	BITSTRING	2		Reserved
8	(8)	CHARACTER	8	JDJBJOB	Name of the job being processed
16	(10)	CHARACTER	8	JDJBJOBI	Job id of the job being processed
24	(18)	SIGNED	4	JDJBJNUM	Job number of job being processed
28	(1C)	CHARACTER	8	JDJBOWNN	Name of the owner/creator of the job/SYSOUT dataset being processed
36	(24)	CHARACTER	8	JDJBOWSL	Security label of the owner/creator
44	(2C)	CHARACTER	8	JDJBJOB	Job class of the job being processed
52	(34)	BITSTRING	1	JDJBPRIO	Job priority
53	(35)	BITSTRING	1	JDJBTYPE	Job type
53	(35)	X'1'	0	JDJBSTC	"1" Started Task (STC)
53	(35)	X'2'	0	JDJBTSU	"2" Time Sharing User (TSU)
53	(35)	X'3'	0	JDJBJOB	"3" Batch job (JOB)
54	(36)	BITSTRING	2		Reserved
Job-level progress counters (for devices which process jobs rather than SYSOUT)					
56	(38)	SIGNED	4	JDJBTRC#	Total records in job
60	(3C)	SIGNED	4	JDJBPRC#	Number of records processed
60	(3C)	X'40'	0	JDJBFSIZE	"*-JDJBINFO" Size of job information section (internal use only)

Table 259. Structure JDUTINFO

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDUTINFO	, Output information section
0	(0)	ADDRESS	4	JDUTLNG	Length of this section
4	(4)	ADDRESS	1	JDUTTYPE	Section type
5	(5)	ADDRESS	1	JDUTMOD	Section type modifier
6	(6)	BITSTRING	2		Reserved

IAZSSJD mapping

Table 259. Structure JDUTINFO (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
8	(8)	CHARACTER	8	JDUTOUTC	Output class of the SYSOUT dataset being processed
16	(10)	CHARACTER	8	JDUTFORM	Current forms
24	(18)	CHARACTER	8	JDUTPRMD	Current PRMODE
32	(20)	CHARACTER	8	JDUTWRTN	Current Writer name
40	(28)	CHARACTER	8	JDUTTJBN	Transaction job name
48	(30)	CHARACTER	8	JDUTTWKI	Transaction work id
56	(38)	CHARACTER	4	JDUTFLSH	Current FLASH
60	(3C)	CHARACTER	4	JDUTFCB	Current FCB
64	(40)	CHARACTER	4	JDUTUCS	Current UCS
68	(44)	CHARACTER	18	JDUTDEST	Current destination
86	(56)	BITSTRING	1	JDUTPRIO	Output priority
87	(57)	BITSTRING	1	JDUTFLG1	Flags
		1...		JDUT1BRS	"B'10000000'" Burst setting (ON=YES, OFF=NO)
Progress counters of active SYSOUT dataset					
88	(58)	SIGNED	4	JDUTPG#	Total pages in SYSOUT dataset
92	(5C)	SIGNED	4	JDUTPPG#	Number of pages processed
96	(60)	SIGNED	4	JDUTTRC#	Total records in SYSOUT dataset
100	(64)	SIGNED	4	JDUTPRC#	Number of records processed
104	(68)	CHARACTER	8	JDUTTOWN	Transaction owner
104	(68)	X'70'	0	JDUTSIZE	"*-JDUTINFO" Size of output information section (internal use only)

Table 260. Structure JDU2INFO

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDU2INFO	, JES2 output information section
0	(0)	ADDRESS	4	JDU2LNG	Length of this section
4	(4)	ADDRESS	1	JDU2TYPE	Section type
5	(5)	ADDRESS	1	JDU2MOD	Section type modifier
6	(6)	BITSTRING	2		Reserved
8	(8)	CHARACTER	12	JDU2JOID(0)	Joe identifier for the unit of work in progress on device
8	(8)	CHARACTER	8	JDU2JOEN	Name of JOE for the unit of work
16	(10)	SIGNED	2	JDU2JOE1	JOE id 1
18	(12)	SIGNED	2	JDU2JOE2	JOE id 2
20	(14)	BITSTRING	8	JDU2IMQT	MQTR of spin IOT (format for spool read SSI)
28	(1C)	CHARACTER	12	JDU2DEST(0)	Binary destination of output
28	(1C)	SIGNED	2	JDU2NDE	Nodal part of binary destination
30	(1E)	SIGNED	2	JDU2RTE	Remote part of binary destination
32	(20)	CHARACTER	8	JDU2USER	Userid part of binary destination
32	(20)	X'28'	0	JDU2SIZE	"*-JDU2INFO" Size of output information section (internal use only)

Table 261. Structure JDU3INFO

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDU3INFO	, JES3 output information section
0	(0)	ADDRESS	4	JDU3LNG	Length of this section
4	(4)	ADDRESS	1	JDU3TYPE	Section type
5	(5)	ADDRESS	1	JDU3MOD	Section type modifier
6	(6)	BITSTRING	2		Reserved
8	(8)	ADDRESS	1	JDU3COPY	Copy count
9	(9)	BITSTRING	7		Reserved
9	(9)	X'10'	0	JDU3SIZE	"*-JDU3INFO" Size of output information section (internal use only)

Table 262. Structure JDSIHDR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDSIHDR	, System information header
0	(0)	CHARACTER	8	JDSIEYE	Eye-catcher
8	(8)	ADDRESS	2	JDSIOHDR	Offset to first (prefix) section
10	(A)	BITSTRING	6		Reserved
16	(10)	ADDRESS	8	JDSINEX8	Address of next header
16	(10)	X'14'	0	JDSINEXT	"JDSINEX8+4,4,C'A'" 31-bit part of the pointer
16	(10)	X'18'	0	JDSISIZE	"*-JDSIHDR" Header size (internal use only)

Table 263. Structure JDSGSTRG

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JDSGSTRG	, Storage management DSECT
0	(0)	CHARACTER	8	JDSGEYE	Eye-catcher
8	(8)	ADDRESS	2	JDSGSTHL	Length of header area
10	(A)	SIGNED	2	JDSGSTSP	Subpool of this block
10	(A)	X'E6'	0	JDSGSTPL	"230" Recommended subpool to use
12	(C)	SIGNED	4	JDSGSTTL	Total length of this block (including this header)
16	(10)	ADDRESS	8	JDSGNEXT	Pointer to next block
24	(18)	ADDRESS	8	JDSGAVL	Ptr to 1st available byte
32	(20)	ADDRESS	4	JDSGDATA(0)	Start of data in the block
32	(20)	X'20'	0	JDSGSIZE	"*-JDSGSTRG"

Table 264. Cross Reference for IAZSSJD

Name	Offset	Hex	Tag
JDAEDNAM	8		
JDAENAME	0		
JDAESIZE	12	16	
JDAESKEN	0		
JDAESKID	12		
JDAIDNAM	8		
JDAILUEN	0		

IAZSSJD mapping

Table 264. Cross Reference for IAZSSJD (continued)

Name	Offset	Hex Tag
JDAINAME	0	
JDAISIZE	8	12
JDALFHCN	10	80
JDALFICN	10	40
JDALFLAG	10	
JDALLNG	0	
JDALMOD	5	
JDALNENT	A	
JDALOENT	8	
JDALSENT	C	
JDALSIZE	11	14
JDALTYPE	4	
JDALULST	0	
JDAL1ENT	E	
JDAPCMPT	1C	
JDAPLNG	0	
JDAPLOGM	10	
JDAPMOD	5	
JDAPNAME	8	
JDAPPLIC	0	
JDAPREST	18	
JDAPSIZE	1C	24
JDAPTYPE	4	
JDASFHCN	10	80
JDASFICN	10	40
JDASFLAG	10	
JDASLNG	0	
JDASMOD	5	
JDASNENT	A	
JDASOCKL	0	
JDASOENT	8	
JDASSENT	C	
JDASSIZE	11	14
JDASTYPE	4	
JDA2APPL	0	
JDA2LGDV	1F	
JDA2LGNM	12	
JDA2LNAM	8	
JDA2LNDV	1C	
JDA2LNG	0	
JDA2MOD	5	
JDA2SIZE	22	24
JDA2TYPE	4	
JDBCSTA	3C	
JDBCDEVC	9	
JDBCDEVT	8	
JDBCFLG1	38	
JDBCJRCV	0	

Table 264. Cross Reference for IAZSSJD (continued)

Name	Offset	Hex Tag
JDBCLNG	0	
JDBCMBRN	26	
JDBCMOD	5	
JDBCNAME	A	
JDBCSECL	2E	
JDBCSize	3C	44
JDBCSTAT	1C	
JDBCSTA1	1C	
JDBCSTA2	1D	
JBCSYSN	1E	
JDBCTYPE	4	
JDBC1HLD	38	80
JDBC1RLS	38	40
JDBHEYE	0	D1C4C2C8
JDBHJPLX	10	14
JDBHJPL8	10	
JDBHJRCV	0	
JDBHNEXT	18	1C
JDBHNEX8	18	
JDBHOHDR	8	
JDBHPARN	20	24
JDBHPAR8	20	
JDBHSize	20	28
JDBOEANY	8	20
JDBOFLG1	8	
JDBOJRCV	0	
JDBOLNG	0	
JDBOMJBC	C	
JDBOMMB#	28	
JDBOMMBL	2A	
JDBOMMBO	26	
JDBOMOD	5	
JDBOMROU	14	
JDBOSize	7E	80
JDBOTYPE	4	
JDBOWANY	54	20
JDBOWCL#	62	
JDBOWCLL	64	
JDBOWCLO	60	
JDBOWDS#	68	
JDBOWDSL	6A	
JDBOWDSO	66	
JDBOWFLG	54	
JDBOWHLD	54	80
JDBOWJBN	34	
JDBOWJIH	5C	
JDBOWJIL	58	
JDBOWJOB	54	10
JDBOWMB#	74	

IAZSSJD mapping

Table 264. Cross Reference for IAZSSJD (continued)

Name	Offset	Hex Tag
JDBOWMBL	76	
JDBOWMBO	72	
JDBOWOWN	2C	
JDBOWRC#	6E	
JDBOWRCL	70	
JDBOWRCO	6C	
JDBOWRLS	54	40
JDBOWSCH	44	
JDBOWSCL	7A	
JDBOWSCO	78	
JDBOWSEL	7E	
JDBOWSEO	7C	
JDBOWSTC	54	8
JDBOWSVN	3C	
JDBOWTSU	54	4
JDB01NFY	8	80
JDB01STR	8	40
JDB2DVID	8	
JDB2JRCV	0	
JDB2LNG	0	
JDB2MOD	5	
JDB2SIZE	B	C
JDB2TYPE	4	
JDCCCONS	0	
JDCCSTA	38	
JDCCDEVC	9	
JDCCDEVT	8	
JDCCLNG	0	
JDCCMBRN	26	
JDCCMOD	5	
JDCCNAME	A	
JDCCSECL	2E	
JDCCSIZE	38	40
JDCCSTAT	1C	
JDCCSTA1	1C	
JDCCSTA2	1D	
JDCCSYSN	1E	
JDCCTYPE	4	
JDCHCONS	0	
JDCHEYE	0	D1C4C3C8
JDCHJPLX	10	14
JDCHJPL8	10	
JDCHNEXT	18	1C
JDCHNEX8	18	
JDCHOHDR	8	
JDCHPARN	20	24
JDCHPAR8	20	
JDCHSIZE	20	28
JDCXDATA	8	

Table 264. Cross Reference for IAZSSJD (continued)

Name	Offset	Hex Tag
JDCXLNG	0	
JDCXMOD	5	
JDCXPREF	0	
JDCXSIZE	8	8
JDCXTYPE	4	
JDC2CONS	0	
JDC2DVID	8	
JDC2LNG	0	
JDC2MOD	5	
JDC2SIZE	B	C
JDC2TYPE	4	
JDC3AUTH	8	
JDC3CONS	0	
JDC3DST#	14	
JDC3DSTL	16	
JDC3DSTO	12	
JDC3LNG	0	
JDC3MOD	5	
JDC3RTC#	E	
JDC3RTCL	10	
JDC3RTC0	C	
JDC3SIZE	16	18
JDC3TYPE	4	
JDDCIFC	198	2
JDDCINT	198	3
JDDCLCL	198	1
JDDCNJE	198	4
JDDCOFLD	198	5
JDDCRMT	198	6
JDDGCONS	198	10
JDDGIFC	198	20
JDDGLINE	198	30
JDDGOFLD	198	40
JDDGPRT	198	50
JDDGPUN	198	60
JDDGRCV	198	80
JDDGRDR	198	70
JDDGXMT	198	90
JDDTCONS	198	11
JDDTJRCV	198	81
JDDTJXMT	198	91
JDDTLINE	198	31
JDDTLOGN	198	21
JDDTNSRV	198	22
JDDTOFLD	198	41
JDDTPRT	198	51
JDDTPUN	198	61
JDDTRDR	198	71
JDDTSRCV	198	82

IAZSSJD mapping

Table 264. Cross Reference for IAZSSJD (continued)

Name	Offset	Hex Tag
JDDTSXMT	198	92
JDD2DEST	0	
JDD2DSIZ	4	C
JDD2NODE	0	
JDD2RTE	2	
JDD2USER	4	
JDGCAPPL	14	
JDGCCSTA	40	
JDGCDEVC	9	
JDGCDEVT	8	
JDGCFAUT	38	20
JDGCFERR	38	80
JDGCFLAG	38	
JDGCFLOG	38	8
JDGCFPWD	38	40
JDGCFTRC	38	10
JDGCLNG	0	
JDGCLOGN	0	
JDGCMBRN	26	
JDGCMOD	5	
JDGCNAME	A	
JDGCRETR	3C	
JDGCRINT	3A	
JDGCSECL	2E	
JDGCSIZE	40	48
JDGCSTAT	1C	
JDGCSTA1	1C	
JDGCSTA2	1D	
JDGCSYSN	1E	
JDGCTYPE	4	
JDGHCONT	28	2C
JDGHCON8	28	
JDGHEYE	0	D1C4C7C8
JDGHFHCN	A	80
JDGHFICN	A	40
JDGHFLAG	A	
JDGHJPLX	10	14
JDGHJPL8	10	
JDGHLOGN	0	
JDGHNEXT	18	1C
JDGHNEX8	18	
JDGHOHDR	8	
JDGHPARN	20	24
JDGHPAR8	20	
JDGHSIZE	28	30
JDG2DVID	8	
JDG2LNG	0	
JDG2LOGN	0	
JDG2MOD	5	

Table 264. Cross Reference for IAZSSJD (continued)

Name	Offset	Hex Tag
JDG2SIZE	B	C
JDG2TYPE	4	
JDG3DSPJ	8	
JDG3LNG	0	
JDG3LOGN	0	
JDG3MOD	5	
JDG3SIZE	12	14
JDG3SNLM	10	
JDG3TYPE	4	
JDJBINFO	0	
JDJBNUM	18	
JDJBJOB	35	3
JDJBJOB	2C	
JDJBJOBI	10	
JDJBJOB	8	
JDJBJTYP	35	
JDJBLNG	0	
JDJBMOD	5	
JDJBOWNN	1C	
JDJBOWSL	24	
JDJBPRC#	3C	
JDJBPRIO	34	
JDJB	3C	40
JDJBSTC	35	1
JDJBTRC#	38	
JDJBTSU	35	2
JDJBTYPE	4	
JDJCADJN	20	
JDJCCSTA	50	
JDJCFAUT	33	80
JDJFCNA	33	4
JDJFCND	33	8
JDJCF	33	
JDJCF	33	20
JDJCF	33	10
JDJCF	33	40
JDJCJRC#	48	
JDJCJTR#	46	
JDJCLNG	0	
JDJCMBRN	18	
JDJCMOD	5	
JDJCNAME	8	
JDJCNAME	34	
JDJCND	28	
JDJCNJEC	0	
JDJCPBSC	32	1
JDJCPROT	32	
JDJCP	32	2
JDJCP	32	3

IAZSSJD mapping

Table 264. Cross Reference for IAZSSJD (continued)

Name	Offset	Hex Tag
JDJCRETR	40	
JDJCRINT	3E	
JDJCSIZE	50	58
JDJCSKID	4C	
JDJCSRC#	44	
JDJCSTAT	30	
JDJCSTA1	30	
JDJCSTA2	31	
JDJCSTR#	42	
JDJCSYSN	10	
JDJCTYPE	4	
JDJHCONT	28	2C
JDJHCON8	28	
JDJHDEV#	C	
JDJHDEVC	20	24
JDJHDEV8	20	
JDJHEYE	0	D1C4D1C8
JDJHFHCN	A	80
JDJHFICN	A	40
JDJHFLAG	A	
JDJHJPLX	10	14
JDJHJPL8	10	
JDJHNEXT	18	1C
JDJHNEX8	18	
JDJHNJEC	0	
JDJHOHDR	8	
JDJHSIZE	28	30
JDK2LNAM	8	
JDK2LNDV	12	
JDK2LNG	0	
JDK2MOD	5	
JDK2NSDV	15	
JDK2REST	18	
JDK2SIZE	1A	1C
JDK2SOCK	0	
JDK2TYPE	4	
JDLCCINT	40	
JDLCCSTA	44	
JDLCDEVC	9	
JDLCDEVT	8	
JDLCDINT	3B	1
JDLCDISC	3B	
JDLCDNO	3B	0
JDLCDQUI	3B	2
JDL CFLG1	39	
JDL CFLG2	3A	
JDLCLINE	0	
JDLCLNG	0	
JDLCMBRN	26	

Table 264. Cross Reference for IAZSSJD (continued)

Name	Offset	Hex Tag
JDLCMOD	5	
JDLCNAME	A	
JDLCPBSC	38	1
JDLCPROT	38	
JDLCPSNA	38	2
JDLCPTCP	38	3
JDLCRETR	3E	
JDLCRINT	3C	
JDLCSECL	2E	
JDLCSIZE	44	4C
JDLCSTAT	1C	
JDLCSTA1	1C	
JDLCSTA2	1D	
JDLCSYSN	1E	
JDLCATYPE	4	
JDLCUNIT	14	
JDLC1AUT	39	1
JDLC1CMP	39	8
JDLC1DPX	39	4
JDLC1NJA	39	40
JDLC1NJE	39	10
JDLC1PWD	39	2
JDLC1RJA	39	80
JDLC1RJE	39	20
JDLC2AB	3A	80
JDLC2CNA	3A	4
JDLC2CNN	3A	2
JDLC2TCM	3A	10
JDLC2TEX	3A	8
JDLC2TRB	3A	20
JDLC2TRP	3A	40
JDLHCONT	30	34
JDLHCON8	30	
JDLHDEV#	C	
JDLHDEV#	28	2C
JDLHDEV8	28	
JDLHEYE	0	D1C4D3C8
JDLHFHCN	A	80
JDLHFICN	A	40
JDLHFLAG	A	
JDLHJPLX	10	14
JDLHJPL8	10	
JDLHLINE	0	
JDLHNEXT	18	1C
JDLHNEX8	18	
JDLHOHDR	8	
JDLHPARN	20	24
JDLHPAR8	20	
JDLHSIZE	30	38

IAZSSJD mapping

Table 264. Cross Reference for IAZSSJD (continued)

Name	Offset	Hex Tag
JDL2CNAM	8	
JDL2DVID	21	
JDL2FAB	20	10
JDL2FADS	20	80
JDL2FASC	20	8
JDL2FLAG	20	
JDL2FLEA	20	2
JDL2FLOG	20	4
JDL2FSHR	20	40
JDL2FSPH	20	20
JDL2JR#	1D	
JDL2JT#	1C	
JDL2LINE	0	
JDL2LNG	0	
JDL2MOD	5	
JDL2NJEN	12	
JDL2REST	1A	
JDL2SIZE	21	24
JDL2SR#	1F	
JDL2ST#	1E	
JDL2TYPE	4	
JDL3BPS	8	
JDL3LINE	0	
JDL3LNG	0	
JDL3MOD	5	
JDL3SIZE	8	C
JDL3TYPE	4	
JDMDAPCM	198	1
JDMDAPJ2	198	20
JDMDCNM	198	1
JDMDCNJ2	198	20
JDMDCNJ3	198	30
JDMDCNPX	198	0
JDMDJBCM	198	1
JDMDJRCM	198	1
JDMDJRJ2	198	20
JDMDJROF	198	21
JDMDJRPX	198	0
JDMDJTCM	198	1
JDMDJTJ2	198	20
JDMDJTOF	198	22
JDMDJTPX	198	0
JDMDJT2N	198	21
JDMDLGCM	198	1
JDMDLGJ2	198	20
JDMDLGJ3	198	30
JDMDLGPX	198	0
JDMDLNCM	198	1
JDMDLNJ2	198	20

Table 264. Cross Reference for IAZSSJD (continued)

Name	Offset	Hex Tag
JDMDLNJ3	198	30
JDMDLNPX	198	0
JDMDNJCM	198	1
JDMDNJPX	198	0
JDMDNSCM	198	1
JDMDNSJ2	198	20
JDMDNSJ3	198	30
JDMDNSPX	198	0
JDMDOFCM	198	1
JDMDOFJ2	198	20
JDMDOFPX	198	0
JDMDOTCM	198	1
JDMDOTJ2	198	20
JDMDOTJ3	198	30
JDMDPPCM	198	1
JDMDPPFS	198	3
JDMDPPFX	198	0
JDMDPPJ2	198	20
JDMDPPJ3	198	30
JDMDPPRM	198	4
JDMDPPWS	198	2
JDMDRDCM	198	1
JDMDRDIN	198	2
JDMDRDJ2	198	20
JDMDRDJ3	198	30
JDMDRDPX	198	0
JDMDRWBS	198	2
JDMDRWCM	198	1
JDMDRWJ2	198	20
JDMDRWPX	198	0
JDMDRWSN	198	3
JDMSKCM	198	1
JDMSKJ2	198	20
JDMSRCM	198	1
JDMSRJ2	198	20
JDMSROF	198	21
JDMSRPX	198	0
JDMDSTCM	198	1
JDMDSTJN	198	21
JDMDSTJ2	198	20
JDMDSTOF	198	22
JDMDSTPX	198	0
JDNCASID	3A	
JDNCCSTA	54	
JDNCDEVC	9	
JDNCDEVT	8	
JDNCFLG1	38	
JDNCLNG	0	
JDNCMBRN	26	

IAZSSJD mapping

Table 264. Cross Reference for IAZSSJD (continued)

Name	Offset	Hex Tag
JDNCMOD	5	
JDNCNAME	A	
JDNCNSRV	0	
JDNCNSVJ	48	
JDNCRETR	52	
JDNCRINT	50	
JDNCSECL	2E	
JDNCSIZE	54	5C
JDNCSKNM	14	
JDNCSTAK	3C	
JDNCSTAT	1C	
JDNCSTA1	1C	
JDNCSTA2	1D	
JDNCSYSN	1E	
JDNCTYPE	4	
JDNC1AUT	38	80
JDNC1TCM	38	20
JDNC1TEX	38	10
JDNC1TRB	38	40
JDNHCONT	28	2C
JDNHCON8	28	
JDNHEYE	0	D1C4D5C8
JDNHFHCN	A	80
JDNHFICN	A	40
JDNHFLAG	A	
JDNHJPLX	10	14
JDNHJPL8	10	
JDNHNEXT	18	1C
JDNHNEX8	18	
JDNHNSRV	0	
JDNHOHDR	8	
JDNHPARN	20	24
JDNHPAR8	20	
JDNHSIZE	28	30
JDNIFACT	8	80
JDNIFLAG	8	
JDNIFPND	8	40
JDNINAME	0	
JDNINODE	0	
JDNISIZE	8	9
JDNRFHCN	10	80
JDNRFICN	10	40
JDNRFLAG	10	
JDNRLNG	0	
JDNRMOD	5	
JDNRNENT	A	
JDNRNODE	0	
JDNROENT	8	
JDNRSENT	C	

Table 264. Cross Reference for IAZSSJD (continued)

Name	Offset	Hex Tag
JDNRSIZE	11	14
JDNRTYPE	4	
JDNR1ENT	E	
JDN2DVID	8	
JDN2LNG	0	
JDN2MOD	5	
JDN2NSRV	0	
JDN2SIZE	B	C
JDN2TYPE	4	
JDN3DSPJ	8	
JDN3LNG	0	
JDN3MOD	5	
JDN3NSRV	0	
JDN3SIZE	8	10
JDN3TYPE	4	
JDOCCSTA	38	
JDOCDEVC	9	
JDOCDEVT	8	
JDOCLNG	0	
JDOCMBRN	26	
JDOCMOD	5	
JDOCNAME	A	
JDOCFLD	0	
JDOCSECL	2E	
JDOCSIZE	38	40
JDOCSTAT	1C	
JDOCSTA1	1C	
JDOCSTA2	1D	
JDOCSYSN	1E	
JDOCTYPE	4	
JDOCUNIT	14	
JDOHDEV#	C	
JDOHDEV	20	24
JDOHDEV8	20	
JDOHEYE	0	D1C4D6C8
JDOHJPLX	10	14
JDOHJPL8	10	
JDOHNEXT	18	1C
JDOHNEX8	18	
JDOHFLD	0	
JDOH0HDR	8	
JDOHSIZE	20	28
JD02DSN	E	
JD02DVID	3D	
JD02FLG1	3A	
JD02FLG2	3B	
JD02LNG	0	
JD02MOD	5	
JD02NRUN	8	

IAZSSJD mapping

Table 264. Cross Reference for IAZSSJD (continued)

Name	Offset	Hex Tag
JD02NRVL	A	
JD020FLD	0	
JD02RETD	C	
JD02SIZE	3D	40
JD02TAL	3C	40
JD02TAUL	3C	48
JD02TBLP	3C	10
JD02TLAB	3C	
JD02TNL	3C	1
JD02TNSL	3C	4
JD02TSL	3C	2
JD02TSUL	3C	A
JD02TYPE	4	
JD021RCV	3A	40
JD021XMT	3A	80
JD022ARC	3B	80
JD022CRT	3B	40
JD022SAF	3B	20
JD022TRC	3B	10
JD022VAL	3B	8
JDPCCHR#	58	
JDPCCHRL	5A	
JDPCCHRO	56	
JDPCCKML	3A	
JDPCCKPG	3C	
JDPCCSTA	4E	
JDPCDEVC	9	
JDPCDEVT	8	
JDPCDFCB	3E	
JDPCFLID	44	
JDPCLNG	0	
JDPCMBRN	26	
JDPCMOD	5	
JDPCMODF	48	
JDPCMOD1	38	
JDPCMOD2	39	
JDPCMOD3	4C	
JDPCNAME	A	
JDPCNEWP	42	
JDPCNPAL	42	2
JDPCNPDF	42	0
JDPCNP1	42	1
JDPCPRPU	0	
JDPCSECL	2E	
JDPCSIZE	5A	5C
JDPCSTAT	1C	
JDPCSTA1	1C	
JDPCSTA2	1D	
JDPCSYSN	1E	

Table 264. Cross Reference for IAZSSJD (continued)

Name	Offset	Hex Tag
JDPCCTDEF	43	3
JDPCCTNO	43	2
JDPCCTRNS	43	
JDPCCTYES	43	1
JDPCCTYPE	4	
JDPCUNIT	14	
JDPC1DSS	38	8
JDPC1EDG	38	40
JDPC1FSS	38	80
JDPC1GPS	38	4
JDPC1HTR	38	20
JDPC1PAU	38	10
JDPC1TRC	38	2
JDPC1TRK	38	1
JDPC2FLU	39	10
JDPC2NIP	39	20
JDPC2SCH	39	40
JDPC2SP1	39	1
JDPC2SP2	39	2
JDPC2SP3	39	3
JDPC2VUC	39	80
JDPC3CKP	4C	80
JDPC3CKR	4C	40
JDPC3CKS	4C	20
JDPC3SUP	4C	10
JDPFCCON	23	1
JDPFCDFE	23	0
JDPFCDS	23	2
JDPFCJOB	23	3
JDPFCNON	23	4
JDPFCPMK	23	
JDPFCSEC	24	
JDPFDEVN	18	
JDPFFLAG	22	
JDPFFPRS	22	40
JDPFFTRC	22	80
JDPFLNG	0	
JDPFMOD	5	
JDPFNPRO	20	
JDPFPROC	10	
JDPFPRT	0	
JDPFSIZE	2E	30
JDPFSSNM	8	
JDPFSSYS	26	
JDPFTYPE	4	
JDPHEYE	0	D1C4D7C8
JDPHJPLX	10	14
JDPHJPL8	10	
JDPHNEXT	18	1C

IAZSSJD mapping

Table 264. Cross Reference for IAZSSJD (continued)

Name	Offset	Hex Tag
JDPHNEX8	18	
JDPHOHDR	8	
JDPHPARN	20	24
JDPHPAR8	20	
JDPHPRPU	0	
JDPHSIZE	20	28
JDPRCMPT	8	
JDPRDEVT	16	
JDPRFASI	1E	80
JDPRFCMP	1E	20
JDPRFCMT	1E	40
JDPRFCTL	1E	4
JDPRFFCB	1E	10
JDPRFLAG	1E	
JDPRFSSP	1E	8
JDPRLNG	0	
JDPRMOD	5	
JDPRPRT	0	
JDPRRECS	10	
JDPRSIZE	1F	20
JDPRTYPE	4	
JDPRWDTH	14	
JDPWCLS#	34	
JDPWCLSL	36	
JDPWCLSO	32	
JDPWDST#	46	
JDPWDSTL	48	
JDPWDSTO	44	
JDPWEWSL	50	
JDPWEWSO	4E	
JDPWFCBN	10	
JDPWFLG1	1E	
JDPWFLSH	14	
JDPWFRM#	3A	
JDPWFRML	3C	
JDPWFRMO	38	
JDPWLNG	0	
JDPWMOD	5	
JDPWOWNN	8	
JDPWPGLH	2C	
JDPWPGLL	28	
JDPWPRC#	40	
JDPWPRCL	42	
JDPWPRCO	3E	
JDPWPWSL	4C	
JDPWPWSO	4A	
JDPWRCLH	24	
JDPWRCLL	20	
JDPWRKSL	0	

Table 264. Cross Reference for IAZSSJD (continued)

Name	Offset	Hex Tag
JDPWSIZE	52	54
JDPWTYPE	4	
JDPWUCS#	1A	
JDPWUCSL	1C	
JDPWUCSO	18	
JDPW1BRS	1E	80
JDP2DVID	9	
JDP2FLAG	8	
JDP2FSEP	8	80
JDP2LNG	0	
JDP2MOD	5	
JDP2PRPU	0	
JDP2SFJR	C	40
JDP2SFST	C	20
JDP2SFST	C	10
JDP2SIZE	32	34
JDP2TYPE	4	
JDP2WFLG	C	
JDP2WJBN	10	
JDP2WJIH	1C	
JDP2WJIL	18	
JDP2WRC#	30	
JDP2WRCL	32	
JDP2WRCO	2E	
JDP2WRTN	20	
JDP2WVL#	2A	
JDP2WVLL	2C	
JDP2WVLO	28	
JDP3CB	26	
JDP3CBD	26	1
JDP3CBJ	26	2
JDP3CBN	26	3
JDP3CGS	25	
JDP3CGS1	25	1
JDP3CGS2	25	2
JDP3CKRC	22	
JDP3DEVT	10	
JDP3DSPJ	18	
JDP3FLG1	21	
JDP3GRPN	8	
JDP3HBUR	20	2
JDP3HCHR	20	40
JDP3HFCB	20	80
JDP3HFLG	20	
JDP3HFLS	20	8
JDP3HFRM	20	4
JDP3HMOD	20	10
JDP3HUCS	20	20
JDP3LNG	0	

IAZSSJD mapping

Table 264. Cross Reference for IAZSSJD (continued)

Name	Offset	Hex Tag
JDP3MOD	5	
JDP3PRPU	0	
JDP3SIZE	27	28
JDP3TRC	24	
JDP3TYPE	4	
JDP31BPG	21	20
JDP31DGY	21	10
JDP31DYN	21	80
JDP31OLG	21	40
JDP31PDC	21	8
JDP31PDF	21	4
JDRCCSTA	54	
JDRCDEVC	9	
JDRCDEVT	8	
JDRCDFJC	44	
JDRCDFMC	4C	
JDRCLNG	0	
JDRCMBRN	26	
JDRCMOD	5	
JDRCNAME	A	
JDRCPRC#	40	
JDRCRDR	0	
JDRCSECL	2E	
JDRCSIZE	54	5C
JDRCSTAT	1C	
JDRCSTA1	1C	
JDRCSTA2	1D	
JDRCSYSN	1E	
JDRCTJB#	38	
JDRCTRC#	3C	
JDRCTYPE	4	
JDRCUNIT	14	
JDRHEYE	0	D1C4D9C8
JDRHJPLX	10	14
JDRHJPL8	10	
JDRHNEXT	18	1C
JDRHNEX8	18	
JDRHOHDR	8	
JDRHPARN	20	24
JDRHPAR8	20	
JDRHRDR	0	
JDRHSIZE	20	28
JDRIASID	20	
JDRIJOBI	10	
JDRIJOBN	8	
JDRILNG	0	
JDRIMOD	5	
JDRIOWNN	18	
JDRIRDR	0	

Table 264. Cross Reference for IAZSSJD (continued)

Name	Offset	Hex Tag
JDRISIZE	22	24
JDRITYPE	4	
JDR2DVID	37	
JDR2FANY	36	4
JDR2FDVA	36	40
JDR2FHLD	36	80
JDR2FIND	36	2
JDR2FJBA	36	20
JDR2FLAG	36	
JDR2FSYA	36	10
JDR2FTRC	36	8
JDR2LNG	0	
JDR2MBR#	3E	
JDR2MBRL	40	
JDR2MBRO	3C	
JDR2MOD	5	
JDR2NODE	2C	
JDR2PRDS	8	
JDR2PTIN	35	
JDR2PTLM	34	
JDR2PUDS	1A	
JDR2RDR	0	
JDR2SIZE	42	44
JDR2TYPE	4	
JDR3ALVL	23	
JDR3DEVT	10	
JDR3DPTY	21	
JDR3DSPJ	18	
JDR3FABV	20	20
JDR3FACT	20	80
JDR3FBLP	20	10
JDR3FLAG	20	
JDR3FPGM	20	40
JDR3GRPN	8	
JDR3JLVL	22	
JDR3LNG	0	
JDR3MOD	5	
JDR3RDR	0	
JDR3REGL	28	
JDR3SIZE	28	2C
JDR3TIML	24	
JDR3TYPE	4	
JDSCCSTA	38	
JDSCDEVC	9	
JDSCDEVT	8	
JDSC LNG	0	
JDSCMBRN	26	
JDSCMOD	5	
JDSCNAME	A	

IAZSSJD mapping

Table 264. Cross Reference for IAZSSJD (continued)

Name	Offset	Hex Tag
JDSCSECL	2E	
JDSCSIZE	38	40
JDSCSRCV	0	
JDSCSTAT	1C	
JDSCSTA1	1C	
JDSCSTA2	1D	
JDSCSYSN	1E	
JDSCTYPE	4	
JDSGAVL	18	
JDSGDATA	20	
JDSGEYE	0	D1C4E2C7
JDSGNEXT	10	
JDSGSIZE	20	20
JDSGSTHL	8	
JDSGSTPL	A	E6
JDSGSTRG	0	
JDSGSTSP	A	
JDSGSTTL	C	
JDSHEYE	0	D1C4E2C8
JDSHJPLX	10	14
JDSHJPL8	10	
JDSHNEXT	18	1C
JDSHNEX8	18	
JDSHOHDR	8	
JDSHPARN	20	24
JDSHPAR8	20	
JDSHSIZE	20	28
JDSHSRCV	0	
JDSIEYE	0	D1C4E2C9
JDSIHDR	0	
JDSINEXT	10	14
JDSINEX8	10	
JDSIOHDR	8	18
JDSISIZE	10	18
JDSKFLAG	40	
JDSKFSRV	40	40
JDSKFTLS	40	80
JDSKIADR	14	
JDSKIHNL	12	
JDSKIHNO	10	
JDSKLNG	0	
JDSKMOD	5	
JDSKNAME	8	
JDSKNSRV	36	
JDSKSIZE	41	44
JDSKSOCK	0	
JDSKTPNM	24	
JDSKTPNR	34	
JDSKTYPE	4	

Table 264. Cross Reference for IAZSSJD (continued)

Name	Offset	Hex Tag
JDSOFLG1	8	
JDSOFLG2	4E	
JDSOFLG3	80	
JDSOFLG4	81	
JDSOLNG	0	
JDSOMCLS	24	
JDSOMDST	2C	
JDSOMFCB	C	
JDSOMFLH	10	
JDSOMFRM	14	
JDSOMOD	5	
JDSOMPRM	1C	
JDSOMUCS	3E	
JDSOMWTR	46	
JDSOSIZE	AA	AC
JDSOSRCV	0	
JDSOTYPE	4	
JDSOWCL#	86	
JDSOWCLL	88	
JDSOWCLO	84	
JDSOWCRT	58	
JDSOWDS#	98	
JDSOWDSL	9A	
JDSOWDSO	96	
JDSOWFCB	50	
JDSOWFLH	54	
JDSOWFM#	8C	
JDSOWFML	8E	
JDSOWFMO	8A	
JDSOWJBN	60	
JDSOWJIH	6C	
JDSOWJIL	68	
JDSOWPM#	92	
JDSOWPML	94	
JDSOWPMO	90	
JDSOWRC#	9E	
JDSOWRCL	A0	
JDSOWRCO	9C	
JDSOWSCL	A6	
JDSOWSCO	A4	
JDSOWSEL	AA	
JDSOWSEO	A8	
JDSOWUCS	70	
JDSOWWTR	78	
JDSO1NFY	8	80
JDSO1STR	8	40
JDSO2BRN	4E	40
JDSO2BRS	4E	80
JDSO2HLD	4E	20

IAZSSJD mapping

Table 264. Cross Reference for IAZSSJD (continued)

Name	Offset	Hex Tag
JDS020DH	4E	8
JDS020DK	4E	4
JDS020DL	4E	2
JDS020DW	4E	1
JDS02RLS	4E	10
JDS03BNS	80	2
JDS03BRS	80	80
JDS03HLD	80	40
JDS03HNS	80	1
JDS030DH	80	20
JDS030DK	80	10
JDS030DL	80	8
JDS030DW	80	4
JDS04JOB	81	80
JDS04STC	81	40
JDS04TSU	81	20
JDST1ACO	198	4
JDST1ACT	198	80
JDST1DRG	198	10
JDST1DRN	198	8
JDST1INA	198	40
JDST2END	198	1
JDST2HTD	198	20
JDST2HTG	198	8
JDST2INT	198	4
JDST2NRS	198	2
JDST2PAU	198	10
JDST2STE	198	80
JDST2STG	198	40
JDS2DVID	8	
JDS2LNG	0	
JDS2MOD	5	
JDS2SIZE	B	C
JDS2SRCV	0	
JDS2TYPE	4	
JDTYACLU	198	11
JDTYACSK	198	12
JDTYAPPL	198	E
JDTYCONS	198	1
JDTYJBRC	198	8
JDTYJBXM	198	A
JDTYJOBI	198	13
JDTYJRSV	198	FF
JDTYLINE	198	4
JDTYLOGN	198	2
JDTYNJEC	198	C
JDTYNSRV	198	3
JDTYOFLD	198	7
JDTYOUTI	198	14

Table 264. Cross Reference for IAZSSJD (continued)

Name	Offset	Hex Tag
JDTYPRPU	198	5
JDTYRDR	198	6
JDTYRMTW	198	D
JDTYRNOD	198	10
JDTYSOCK	198	F
JDTYSYRC	198	9
JDTYSYXM	198	B
JDUTDEST	44	
JDUTFCB	3C	
JDUTFLG1	57	
JDUTFLSH	38	
JDUTFORM	10	
JDUTINFO	0	
JDUTLNG	0	
JDUTMOD	5	
JDUTOUTC	8	
JDUTPPG#	5C	
JDUTPRC#	64	
JDUTPRIO	56	
JDUTPRMD	18	
JDUTSIZE	68	70
JDUTTJBN	28	
JDUTTOWN	68	
JDUTTPG#	58	
JDUTTRC#	60	
JDUTTWKI	30	
JDUTTYPE	4	
JDUTUCS	40	
JDUTWRTN	20	
JDUT1BRS	57	80
JDU2DEST	1C	
JDU2IMQT	14	
JDU2INFO	0	
JDU2JOEN	8	
JDU2JOE1	10	
JDU2JOE2	12	
JDU2JOID	8	
JDU2LNG	0	
JDU2MOD	5	
JDU2NDE	1C	
JDU2RTE	1E	
JDU2SIZE	20	28
JDU2TYPE	4	
JDU2USER	20	
JDU3COPY	8	
JDU3INFO	0	
JDU3LNG	0	
JDU3MOD	5	
JDU3SIZE	9	10

IAZSSJD mapping

Table 264. Cross Reference for IAZSSJD (continued)

Name	Offset	Hex Tag
JDU3TYPE	4	
JDWBFLG1	8	
JDWBFLG2	9	
JDWBLNG	0	
JDWBMOD	5	
JDWBSC	0	
JDWBSize	A	C
JDWBTYPE	4	
JDWB1BEX	8	80
JDWB1BLK	8	20
JDWB1BXA	8	40
JDWB1HTB	8	10
JDWB1MFJ	8	8
JDWB1MFT	8	4
JDWB1MLV	8	1
JDWB1MRF	8	2
JDWB2SHR	9	20
JDWB2TPY	9	40
JDWB2VAR	9	80
JDWCBUFS	38	
JDWCCRTC	3E	
JDWCCSTA	44	
JDWCDEVT	22	
JDWCDSCI	3A	
JDWFCMP	2D	80
JDWFCNS	2D	40
JDWCFLAG	2D	
JDWCFMSG	2D	20
JDWCFPWD	2D	10
JDWCLINE	2E	
JDWCLNG	0	
JDWCMBRN	1A	
JDWCMOD	5	
JDWCNAME	8	
JDWCPBSC	2C	1
JDWCPROT	2C	
JDWCPRT#	41	
JDWCPUNA	2C	2
JDWCPUN#	42	
JDWCRDR#	43	
JDWCRMTW	0	
JDWCRTC	3C	
JDWCSize	44	4C
JDWCSTAT	2A	
JDWCSTA1	2A	
JDWCSTA2	2B	
JDWCYSYN	12	
JDWCTYPE	4	
JDWCWTIM	40	

Table 264. Cross Reference for IAZSSJD (continued)

Name	Offset	Hex Tag
JDWHDEV#	C	
JDWHDEVC	20	24
JDWHDEV8	20	
JDWHEYE	0	D1C4E6C8
JDWHJPLX	10	14
JDWHJPL8	10	
JDWHNEXT	18	1C
JDWHNEX8	18	
JDWHOHDR	8	
JDWHRMTW	0	
JDWHSIZE	20	28
JDWNFCMP	1A	40
JDWNFLAG	1A	
JDWNFLGN	1A	80
JDWNFMSG	1A	20
JDWNLNG	0	
JDWNLOGN	10	
JDWNLUNM	8	
JDWNMOD	5	
JDWNSIZE	1B	1C
JDWNSNA	0	
JDWNTYPE	4	
JDWSBRST	198	21
JDWSCHRS	198	31
JDWSCLAS	198	1
JDWSCPID	198	32
JDWSCR TN	198	2
JDWSDEVT	198	33
JDWSFCBN	198	3
JDWSFLID	198	4
JDWSFORM	198	5
JDWSHLDI	198	22
JDWSJBID	198	6
JDWSJBLM	198	23
JDWSJBNM	198	7
JDWSMBAF	198	24
JDWSOPTY	198	8
JDWSOUTD	198	25
JDWSPRMD	198	9
JDWSRCJ2	198	26
JDWSRCJ3	198	34
JDWSSCHE	198	27
JDWSSLSH	198	28
JDWSSOSP	198	29
JDWSSOSR	198	2A
JDWSSRVC	198	2B
JDWSSSTAK	198	35
JDWSSVAF	198	2C
JDWSUCSN	198	A

IAZSSJD mapping

Table 264. Cross Reference for IAZSSJD (continued)

Name	Offset	Hex Tag
JDWSUSR	198	2D
JDWSWRN	198	2E
JDW2FLAG	8	
JDW2F150	8	80
JDW2F190	8	40
JDW2LNG	0	
JDW2MOD	5	
JDW2RMTW	0	
JDW2SIZE	9	C
JDW2TYPE	4	
JDXCCSTA	38	
JDXCDEVC	9	
JDXCDEVT	8	
JDXCJXMT	0	
JDXCLNG	0	
JDXCMBRN	26	
JDXCMOD	5	
JDXCNAME	A	
JDXCSECL	2E	
JDXCSIZE	38	40
JDXCSTAT	1C	
JDXCSTA1	1C	
JDXCSTA2	1D	
JDXCSYSN	1E	
JDXCTYPE	4	
JDXHEYE	0	D1C4E7C8
JDXHJPLX	10	14
JDXHJPL8	10	
JDXHJXMT	0	
JDXHNEXT	18	1C
JDXHNEX8	18	
JDXHOHDR	8	
JDXHPARN	20	24
JDXHPAR8	20	
JDXHSIZE	20	28
JDXNJXMT	0	
JDXNLNG	0	
JDXNMOD	5	
JDXNSIZE	16	18
JDXNTYPE	4	
JDXNWJSH	C	
JDXNWJSL	8	
JDXNWSCL	12	
JDXNWSCO	10	
JDXNWSEL	16	
JDXNWSEO	14	
JDXODDEL	9	1
JDXODHLD	9	2
JDXODISP	9	

Table 264. Cross Reference for IAZSSJD (continued)

Name	Offset	Hex Tag
JDXODKP	9	3
JDXOFANY	44	20
JDXOFLG1	8	
JDXOJXMT	0	
JDXOLNG	0	
JDXOMOD	5	
JDXOSIZE	6E	70
JDXOTYPE	4	
JDXOWCL#	4A	
JDXOWCLL	4C	
JDXOWCLO	48	
JDXOWDS#	50	
JDXOWDSL	52	
JDXOWDSO	4E	
JDXOWFLG	44	
JDXOWHLD	44	80
JDXOWJBN	14	
JDXOWJIH	38	
JDXOWJIL	34	
JDXOWJOB	44	10
JDXOWJSH	40	
JDXOWJSL	3C	
JDXOWMB#	5C	
JDXOWMBL	5E	
JDXOWMBO	5A	
JDXOWOWN	C	
JDXOWRC#	56	
JDXOWRCL	58	
JDXOWRCO	54	
JDXOWRLS	44	40
JDXOWSCH	24	
JDXOWSCL	6A	
JDXOWSCO	68	
JDXOWSEL	6E	
JDXOWSEO	6C	
JDXOWSTC	44	8
JDXOWSVN	1C	
JDXOWTSU	44	4
JDXOWVL#	62	
JDXOWVLL	64	
JDXOWVLO	60	
JDX01NFY	8	80
JDX01STR	8	40
JDX2DVID	8	
JDX2JXMT	0	
JDX2LNG	0	
JDX2MOD	5	
JDX2SIZE	B	C
JDX2TYPE	4	

IAZSSJD mapping

Table 264. Cross Reference for IAZSSJD (continued)

Name	Offset	Hex Tag
JDYCCSTA	38	
JDYCDEVC	9	
JDYCDEVT	8	
JDYCLNG	0	
JDYCMBRN	26	
JDYCMOD	5	
JDYCNAME	A	
JDYCSECL	2E	
JDYCSIZE	38	40
JDYCSTAT	1C	
JDYCSTA1	1C	
JDYCSTA2	1D	
JDYCSXMT	0	
JDYCSYSN	1E	
JDYCTYPE	4	
JDYHEYE	0	D1C4E8C8
JDYHJPLX	10	14
JDYHJPL8	10	
JDYHNEXT	18	1C
JDYHNEX8	18	
JDYHOHDR	8	
JDYHPARN	20	24
JDYHPAR8	20	
JDYHSIZE	20	28
JDYHSXMT	0	
JDYNFLAG	18	
JDYNFODH	18	80
JDYNFODK	18	40
JDYNFODL	18	20
JDYNFODW	18	10
JDYNLNG	0	
JDYNMOD	5	
JDYN SIZE	22	24
JDYN SXMT	0	
JDYN TYPE	4	
JDYN WDSH	C	
JDYN WDSL	8	
JDYN WPLH	14	
JDYN WPLL	10	
JDYN WSCL	1E	
JDYN WSCO	1C	
JDYN WSEL	22	
JDYN WSEO	20	
JDYODDEL	9	1
JDYODHLD	9	2
JDYODISP	9	
JDYODKP	9	3
JDYOFLG1	8	
JDYOLNG	0	

Table 264. Cross Reference for IAZSSJD (continued)

Name	Offset	Hex Tag
JDYOMOD	5	
JDYOSIZE	7D	80
JDYOSXMT	0	
JDYOTYPE	4	
JDYOWBNS	4D	2
JDYOWBRS	4D	80
JDYOWCL#	50	
JDYOWCLL	52	
JDYOWCLO	4E	
JDYOWDHL	28	
JDYOWDLL	24	
JDYOWDS#	62	
JDYOWDSL	64	
JDYOWDSO	60	
JDYOWFCB	C	
JDYOWFLG	4D	
JDYOWFLH	10	
JDYOWFL2	7C	
JDYOWFM#	56	
JDYOWFML	58	
JDYOWFMO	54	
JDYOWHLD	4D	40
JDYOWHNS	4D	1
JDYOWJBN	1C	
JDYOWJIH	38	
JDYOWJIL	34	
JDYOWODH	4D	20
JDYOWODK	4D	10
JDYOWODL	4D	8
JDYOWODW	4D	4
JDYOWOWN	14	
JDYOWPLH	30	
JDYOWPLL	2C	
JDYOWPM#	5C	
JDYOWPML	5E	
JDYOWPMO	5A	
JDYOWPTY	4C	
JDYOWRC#	68	
JDYOWRCL	6A	
JDYOWRCO	66	
JDYOWSCL	76	
JDYOWSCO	74	
JDYOWSEL	7A	
JDYOWSEO	78	
JDYOWUCS	3C	
JDYOWVL#	6E	
JDYOWVLL	70	
JDYOWVLO	6C	
JDYOWWTR	44	

IAZSSJD mapping

Table 264. Cross Reference for IAZSSJD (continued)

Name	Offset	Hex Tag
JDY01NFY	8	80
JDY01STR	8	40
JDY02JOB	7C	80
JDY02STC	7C	40
JDY02TSU	7C	20
JDY2DVID	8	
JDY2LNG	0	
JDY2MOD	5	
JDY2SIZE	B	C
JDY2SXMT	0	
JDY2TYPE	4	
SSJD	0	
SSJDACRT	CA	40404040
SSJDADJN	70	40404040
SSJDAJOB	C2	40404040
SSJDAPNM	78	40404040
SSJDDGN#	48	0
SSJDDGNA	44	
SSJDDGNM	3C	40404040
SSJDDST#	D8	0
SSJDDSTA	D4	
SSJDDVN#	38	0
SSJDDVNA	34	
SSJDDVNM	2A	40404040
SSJDERRJ	0	C
SSJDERRU	0	8
SSJDERRW	0	4
SSJDEYE	0	E2E2D1C4
SSJDEYEE	0	1C
SSJDFDRM	11	40
SSJDFLIN	11	80
SSJDFLTZ	24	0
SSJDFLT1	18	0
SSJDFLT2	19	0
SSJDFLT3	1B	0
SSJDFLT4	1C	0
SSJDFLT5	1E	0
SSJDFLT6	20	0
SSJDFLT7	21	0
SSJDFLT8	22	0
SSJDFLT9	23	0
SSJDFOPT	11	0
SSJDFREQ	E	
SSJDFTRE	0	4
SSJDGLBL	0	88
SSJDIFCP	120	124
SSJDIFC8	120	
SSJDINTE	0	18
SSJDINVL	0	90

Table 264. Cross Reference for IAZSSJD (continued)

Name	Offset	Hex Tag
SSJJDV#	148	0
SSJDLCL#	138	0
SSJDLCLP	100	104
SSJDLCL8	100	
SSJDLLEN8	198	1E0
SSJDLIMT	14	0
SSJDLIN#	158	0
SSJDLINP	128	12C
SSJDLIN8	128	
SSJDLMTR	0	14
SSJDLNG	8	
SSJDLNNM	5C	40404040
SSJDMBRN	54	40404040
SSJDMOD	A	B
SSJDMOD0	A	0
SSJDNDV#	15C	0
SSJDNJE#	144	0
SSJDNJEP	110	114
SSJDNJE8	110	
SSJDOBTD	E	4
SSJDODV#	150	0
SSJD0FL#	14C	0
SSJD0FLP	118	11C
SSJD0FL8	118	
SSJDOK	0	0
SSJDPARM	0	10
SSJDPDMC	F	1
SSJDPD64	F	2
SSJDPLMT	F	10
SSJDPOPT	F	0
SSJDPOP2	10	0
SSJDPOST	0	8C
SSJDPRLS	F	8
SSJDPRND	F	20
SSJDPRST	F	4
SSJDPSCK	F	40
SSJDPSES	F	80
SSJDP2AD	10	80
SSJDP2NF	10	40
SSJDP2SD	10	20
SSJDRDV#	140	0
SSJDRETN	FC	0
SSJDRMT#	13C	0
SSJDRMTP	108	10C
SSJDRMT8	108	
SSJDRSTG	E	8
SSJDRWIL	0	98
SSJDRWNM	66	40404040
SSJDSIN#	160	0

IAZSSJD mapping

Table 264. Cross Reference for IAZSSJD (continued)

Name	Offset	Hex Tag
SSJDSINP	130	134
SSJDSIN8	130	
SSJDSIZE	198	1C0
SSJDSKNM	80	40404040
SSJDSMAP	0	80
SSJDSMD0	C	0
SSJDSMLE	0	24
SSJDSMOD	C	D
SSJDSPTE	0	8
SSJDSRV#	154	0
SSJDSTGO	0	84
SSJDSTOR	0	14
SSJDSTRE	0	C
SSJDSTRP	170	
SSJDSUBF	0	10
SSJDSVER	C	C
SSJDSVMC	C	100
SSJDSVM1	C	100
SSJDSVRM	C	
SSJDSVR1	C	1
SSJDSYSN	4C	40404040
SSJDSZE1	198	1C0
SSJDTOKN	178	0
SSJDUNSD	0	20
SSJDVER	A	A
SSJDVER1	A	1
SSJDVRM	A	
SSJDVRMC	A	100
SSJDVRM1	A	100
SSJDWSCL	88	40404040
SSJDWSDS	A0	40404040
SSJDWSFM	90	40404040
SSJDWSJN	98	40404040
SSJDWSPR	BA	40404040
SSJDWSWR	B2	40404040
SSJDZCRT	24	40
SSJDZJOB	24	80
SSJDZOMO	13	5C
SSJD1ACT	18	80
SSJD1CHR	12	6F
SSJD1DRG	18	10
SSJD1DRN	18	8
SSJD1HOT	18	20
SSJD1INA	18	40
SSJD1NRM	18	E0
SSJD2END	19	1
SSJD2HTD	19	20
SSJD2HTG	19	8
SSJD2INT	19	4

Table 264. Cross Reference for IAZSSJD (continued)

Name	Offset	Hex Tag
SSJD2NRS	19	2
SSJD2PAU	19	10
SSJD2PRB	19	3C
SSJD2STE	19	80
SSJD2STG	19	40
SSJD3CON	1B	10
SSJD3JRC	1B	4
SSJD3JXM	1B	8
SSJD3PRT	1B	80
SSJD3PUN	1B	40
SSJD3RCV	1B	5
SSJD3RDR	1B	20
SSJD3SRC	1B	1
SSJD3SXM	1B	2
SSJD3XMT	1B	A
SSJD4LGN	1C	40
SSJD4LIN	1C	80
SSJD4NJE	1C	8
SSJD4NSV	1C	20
SSJD4OFL	1C	10
SSJD5IFC	1E	8
SSJD5INT	1E	4
SSJD5LCL	1E	80
SSJD5NJE	1E	10
SSJD5OFL	1E	20
SSJD5RMT	1E	40
SSJD6DGN	20	40
SSJD6LIN	20	8
SSJD6MBR	20	10
SSJD6NAM	20	80
SSJD6SYS	20	20
SSJD7NJA	21	20
SSJD7NJB	21	8
SSJD7NJK	21	10
SSJD7NJJ	21	40
SSJD7NJS	21	4
SSJD7NJT	21	2
SSJD7RWN	21	80
SSJD8FSS	22	40
SSJD8JES	22	80
SSJD9CLS	23	80
SSJD9DST	23	10
SSJD9FRM	23	40
SSJD9JBN	23	20
SSJD9PRM	23	4
SSJD9WRT	23	8
SSOBSSJD	0	53

IAZSSJD mapping

Chapter 42. IAZSSJP Information

IAZSSJP Programming Interface Information

IAZSSJP is a programming interface.

IAZSSJP Heading Information

Common Name: SSOB Extension for the JES Property Information Service (SSI 82)
Macro ID: IAZSSJP
DSECT Name: SSJP
Owning Component: JES Common (SC141)
Eye-Catcher ID: SSJP
Offset: 0
Length: 4
Storage Attributes: Subpool: caller
Key: Any
Residency: Any
Size: See SSJPSIZE equate
Created by: Caller of SSI function 'SSOBSSJP' = 82
Pointed to by: SSOBINDV in the IEFSSOBH mapping macro
Serialization: None required
Function: Defines the SSOB extension used by application programs to request JES Property Service from JES.

IAZSSJP mapping

Table 265. Structure

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

IAZSSJP mapping

Table 265. Structure (continued)

Offset	Offset		Len	Name(Dim)	Description
Dec	Hex	Type			
		%SSJPCMTS: ;			
		START OF SPECIFICATIONS			
01		DESCRIPTIVE NAME: SSOB Extension for the JES Property Information Service (SSI 82)			
02		ACRONYM: IAZSSJP			
01		MACRO NAME: IAZSSJP			
01		DSECT NAME: SSJP			
01		LABEL PREFIX: SSJP			
01		COMPONENT ID: JES Common (SC141)			
01		EXTERNAL CLASSIFICATION: GUPI			
01		END OF EXTERNAL CLASSIFICATION:			
01		EYE-CATCHER: SSJP			
02		OFFSET: 0			
02		LENGTH: 4			
01		STORAGE ATTRIBUTES:			
02		SUBPOOL: caller			
02		KEY: Any			
02		RESIDENCY: Any			
01		SIZE:			
		See SSJPSIZE equate			
01		CREATED BY: Caller of SSI function 'SSOBSSJP' = 82			
01		POINTED TO BY: SSOBINDV in the IEFSSOBH mapping macro			
01		SERIALIZATION: None required			
01		FUNCTION:			
		Defines the SSOB extension used by application programs to request JES Property Service from JES.			
01		METHOD OF ACCESS:			
02		ASM:			
		IAZSSJP DSECT=YES|NO			
		DSECT=YES - Provided DSECT for SSJP			
		DSECT=NO - Provides storage definition for SSJP			
		If DSECT=NO is specified, then you must ensure that label SSOBGN is defined. This can be accomplished by either using the IEFJSSOB macro to define the SSOB header along with at least one extension. Otherwise, you must define label SSOBGN immediately following the SSOB header.			
		In addition, the SSOB header field SSOBINDV should always be initialized by the caller to point to the functional extension.			
02		PL/X:			
		%DCL SSJP_ATRB CHAR			
		%SSJP_ATRB = 'value' (see description below)			
		%INCLUDE SYSLIB(IAZSSJP)			
		SSJP_ATRB is a global variable that determines SSJP's attributes. The variable should be set to a valid control block attribute such as 'BASED(SSOBINDV)' or '' (null).			
		In addition, the SSOB header field SSOBINDV should			

Table 265. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					always be initialized by the caller to point to the functional extension.
01					DELETED BY: Caller of SSI
01					FREQUENCY: 1 per call to function code 82
01					RESTRICTIONS: None
					END OF SPECIFICATIONS
01					CHANGE ACTIVITY:
					\$Z22LPRO=PROCSSI HBB77A0 131127 TJW: PROCLIB SSI
01					A000000-999999 Created for z/OS 1.11
01					NOTES:
					In the following description of fields, the notation before the field description can be one of the following:
					I. Input (appl always supplies information)
					O. Output (appl receives information)
% GOTO					END_OF_ASM_SSJP;
					Function value for SSOBFUNC
0	(0)	X'52'	0	SSOBSSJP	"82" JES Property information service id
0	(0)	DBL WORD	8	SSJP(0)	SSOB extension mapping - SSJP
					Return code values for SSOBRETN
0	(0)	X'0'	0	SSJPOK	"0" Request successful
0	(0)	X'4'	0	SSJPERRW	"4" Request completed with possible errors, see SSJPRETN for reason code
0	(0)	X'8'	0	SSJPERRU	"8" Request cannot be completed due to user error, see SSJPRETN for reason code
0	(0)	X'C'	0	SSJPERRJ	"12" Request cannot be completed due to an internal (JES) error, SSJPRETN contains internal JES reason code
0	(0)	X'10'	0	SSJPPARM	"16" The parameter list, ie the SSJP extension, is an invalid format - it is not an SSJP, the service version number is not supported, or the SSJP is not large enough
0	(0)	X'14'	0	SSJPSTOR	"20" Request cannot be processed because required storage cannot be obtained. No data can be returned to the caller
0	(0)	X'0'	0	SSJPBGN	"*"
0	(0)	CHARACTER	4	SSJPID	Extension identifier
4	(4)	ADDRESS	2	SSJPLEN	Length of SSOB extension area
6	(6)	SIGNED	2	SSJPVER	I.Version number of SSOB
6	(6)	BITSTRING	0	SSJPVER1	"X'0100'" z/OS 1.11 version (initial)
6	(6)	BITSTRING	0	SSJPVERC	"X'0100'" Current version number (z/OS 1.11)
8	(8)	BITSTRING	1	SSJPFREQ	I.Function request byte
8	(8)	X'4'	0	SSJPNJOD	"4" NJE node info obtain
8	(8)	X'8'	0	SSJPNJRS	"8" NJE node storage return
8	(8)	X'C'	0	SSJPSPOD	"12" Spool info obtain
8	(8)	X'10'	0	SSJPSPRS	"16" Spool storage return

IAZSSJP mapping

Table 265. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
8	(8)	X'14'	0	SSJPITOD	"20" Initiator info obtain
8	(8)	X'18'	0	SSJPITRS	"24" Initiator storage return
8	(8)	X'1C'	0	SSJPJXOD	"28" JESPLEX info obtain
8	(8)	X'20'	0	SSJPJXRS	"32" JESPLEX storage return
8	(8)	X'24'	0	SSJPCOD	"36" Job class info obtain
8	(8)	X'28'	0	SSJPCRS	"40" Job class storage return
8	(8)	X'2C'	0	SSJPPROD	"44" PROCLIB concat obtain
8	(8)	X'30'	0	SSJPPRRS	"48" PROCLIB storage return
9	(9)	BITSTRING	3	SSJPRSV1	Reserved

SSJPRETN provides additional information for some values of SSOBRETN. The meaning of the return codes is based on the value in SSOBRETN and the function being requested (SSJPFREQ). Values of SSJPRETN from 0-124 (x'7C') are reserved for the SSI router and problems it detects. Values of SSJPRETN from 128-252 ('FC') are reserved as COMMON reason codes for problems detected by the sub functions. Values of 256 (x'100') and above are SHARED by the sub functions. Additional SSJPRETN values can be found in the following data areas (based on function code):

Function code	Related	Description
SSJPNJOD (4)	IAZJPNJN	NJE node info obtain
SSJPNJRS (8)	IAZJPNJN	NJE node storage return
SSJPSPOD (12)	IAZJPSPL	Spool info obtain
SSJSPRS (16)	IAZJPSPL	Spool storage return
SSJPITOD (20)	IAZJPITD	Initiator info obtain
SSJPITRS (24)	IAZJPITD	Initiator storage return
SSJPJXOD (28)	IAZJPLEX	JESPLEX info obtain
SSJPJXRS (32)	IAZJPLEX	JESPLEX storage return
SSJPCOD (36)	IAZJPCLS	Job class info obtain
SSJPCRS (40)	IAZJPCLS	Job class storage return
SSJPPROD (44)	IAZJPROC	PROCLIB concat obtain
SSJPPRRS (48)	IAZJPROC	PROCLIB storage return

12	(C)	SIGNED	4	SSJPRETN	0.Reason code for error return code
----	-----	--------	---	----------	-------------------------------------

Values of SSJPRETN when SSOBRETN is SSJPERRU (8) for all functions (values of SSJPFREQ)

12	(C)	X'4'	0	SSJPUNSF	"4" Function code passed in SSJPFREQ is not supported
12	(C)	X'8'	0	SSJPNTDS	"8" SSJPUSER pointer is zero
12	(C)	X'C'	0	SSJPUNSD	"12" SSJPUSER CB version number is not correct
12	(C)	X'10'	0	SSJPSMLE	"16" SSJPUSER CB length is too small
12	(C)	X'14'	0	SSJPEYEE	"20" SSJPUSER CB eyecatcher is not correct
12	(C)	X'88'	0	SSJPINVA	"136" Invalid filter arguments.
12	(C)	X'8C'	0	SSJGPLBL	"140" Function not supported on global (JES3)

Table 265. Structure (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
12	(C)	X'90'		0	SSJPSMAP	"144" Error with storage addressed by storage management anchor pointer - e.g. not key 1, fetch protected, incorrect eyecatcher
Values of SSJPRETN when SSOBRETN is SSJPOSTOR (20) for all functions (values of SSJPFREQ)						
12	(C)	X'80'		0	SSJPGETM	"128" \$GETMAIN failed
12	(C)	X'84'		0	SSJPOSTGO	"132" STORAGE OBTAIN failed
This SSI function is a router for various JES requests. Each function has a related data area that must be pointed to by SSJUSER. The mapping of the data area depends on the function code in SSJPFREQ. The list of valid functions and related data areas is listed above						
16	(10)	ADDRESS		4	SSJUSER	I.Pointer to user parameter area
20	(14)	SIGNED		4	(2)	Reserved
32	(20)	DBL WORD		8	(0)	Align for length
32	(20)	X'20'		0	SSJPSIZ1	"*-SSJPBGN" Version 1 SSOB extension size
32	(20)	X'20'		0	SSJPSIZE	"*-SSJPBGN" Current SSOB extension length
32	(20)	X'40'		0	SSJPLEN8	"((SSOBHSIZ+7)/8)*8+SSJPSIZE" Total length of SSOB with SSOB extension

Table 266. Cross Reference for IAZSSJP

Name	Offset	Hex Tag
SSJP	0	
SSJPBGN	0	0
SSJPERRJ	0	C
SSJPERRU	0	8
SSJPERRW	0	4
SSJPEYEE	C	14
SSJPFREQ	8	
SSJPGETM	C	80
SSJPGLBL	C	8C
SSJPID	0	E2E2D1D7
SSJPINVA	C	88
SSJPITOD	8	14
SSJPITRS	8	18
SSJPJCOD	8	24
SSJPJCRS	8	28
SSJPJXOD	8	1C
SSJPJXRS	8	20
SSJPLEN	4	
SSJPLEN8	20	40
SSJPNJOD	8	4

IAZSSJP mapping

Table 266. Cross Reference for IAZSSJP (continued)

Name	Offset	Hex Tag
SSJPNJRS	8	8
SSJPNTDS	C	8
SSJPOK	0	0
SSJPPARM	0	10
SSJPPROD	8	2C
SSJPPRRS	8	30
SSJPRETN	C	
SSJPRSV1	9	
SSJPSIZE	20	20
SSJPSIZ1	20	20
SSJPSMAP	C	90
SSJPSMLE	C	10
SSJPSPOD	8	C
SSJPSPRS	8	10
SSJPSTGO	C	84
SSJPSTOR	0	14
SSJPUNSD	C	C
SSJPUNSF	C	4
SSJPUSER	10	
SSJPVER	6	
SSJPVERC	6	100
SSJPVER1	6	100
SSOBSSJP	0	52

Chapter 43. IAZYNCC Information

IAZYNCC Programming Interface Information

IAZYNCC is a programming interface.

IAZYNCC Heading Information

Common Name: Network Connection Control Record
 Macro ID: IAZYNCC
 DSECT Name: NCC
 Owning Component: JES COMMON (SC141)
 Eye-Catcher ID: None
 Storage Attributes: Subpool: n/a
 Key: n/a
 Residency: NCC records reside in various TP communication buffers (SNA, BSC, TCP/IP, and JESXCF).
 Size: NCCIL for 'I' and 'J' type records
 NCCCL for 'K' and 'L' type records
 NCCCL2 for 'K' and 'L' type records (secure signon)
 NCCAL for 'M' and 'N' type records
 Created by: JES2 and JES3
 Pointed to by: n/a
 Serialization: n/a
 Function: NCC records reside in various TP communication buffers, and are used to communicate connectivity information between nodes and MAS members.

IAZYNCC mapping

Table 267. Structure NCC

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NCC	Network Connection Control
0	(0)	BITSTRING	3	NCCRID(0)	Record Identifier
	1111	....		NCCRCBF0	"X'F0" Record control byte value for NCC records
0	(0)	ADDRESS	1	NCCRCB	Record control byte
1	(1)	BITSTRING	1	NCCSRCB	Sub-record control byte
		Initial Signon Control Record			
		Response Signon Control Record			
1	(1)	X'C9'	0	NCCISRCB	"C'I" Initial Signon character
1	(1)	X'D1'	0	NCCRSRCB	"C'J" Response Signon character
2	(2)	ADDRESS	1	NCCIDL	Length of logical record
3	(3)	CHARACTER	8	NCCINODE	Node identification
11	(B)	BITSTRING	1	NCCIQUAL	Qualifier if shared SPOOL
12	(C)	SIGNED	4	NCCIEVNT	Event sequence number
16	(10)	SIGNED	2	NCCIREST	Partial node to node resistance
18	(12)	SIGNED	2	NCCIBFSZ	Maximum transmission block size
20	(14)	CHARACTER	8	NCCILPAS	Line password
28	(1C)	CHARACTER	8	NCCINPAS	Node password

IAZYNCC mapping

Table 267. Structure NCC (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
36	(24)	BITSTRING 1... .. .1... ..	1	NCCIFLG NCCIFLGM NCCIFLGS	Flag byte "B'10000000'" Multiple trunk (set in response signon only) "B'01000000'" Secure signon protocol used (set in initial signon only)
37	(25)	BITSTRING 1... .. .1... ..	4	NCCIFEAT NCCIPREP NCCITRM	Feature flags "B'10000000'" BSC/CTCA quiesce options "B'01000000'" SNA termination options
EQU B'00100000' Reserved for future use					
		...1 ..		NCCIPACK	"B'00010000'" Multiple header records/buffer allowed
37	(25)	X'10' 1...	0	NCCIMHDR NCCIRIF	"NCCIPACK" (NCCIPACK is name in FAP) "B'00001000'" Request to exchange records may be omitted after first object sent in a stream
		.... .1..		NCCIMRCB	"B'00000100'" Mixed RCBs may be sent in a single buffer
		.... ..1.		NCCINOS	"B'00000010'" Non-printable SYSOUT data sets may be sent (EVENTLOG)
		.... ...1		NCCISSIN	"B'00000001'" This system supports spanned SYSIN data. The valid range for NDHCLREC is 0-32767 when this is used.
37	(25)	X'14'	0	NCCIPRAW	"NCCILPAS,L'NCCILPAS,C'X'" Random string
37	(25)	X'1C'	0	NCCIPENC	"NCCINPAS,L'NCCINPAS,C'X'" Encrypted random string
37	(25)	X'29'	0	NCCIL	"*-NCCRCB" Length of Initial/Response signon
41	(29)	BITSTRING	1	NCCIEND	End RCB
Concur Signon Control Record Reset Signon Control Record					
2	(2)	X'D2'	0	NCCESRCB	"C'K'" Reset Signon character
2	(2)	X'D3'	0	NCCCSRCB	"C'L'" Concur Signon character "
2	(2)	ADDRESS	1	NCCCDL	Length of logical record
3	(3)	SIGNED	4	NCCCEVNT	Event sequence number
7	(7)	SIGNED	2	NCCCREST(0)	Total node to node resistance
7	(7)	SIGNED	2	NCCEREST	Partial node to node resistance
7	(7)	X'9'	0	NCCCL	"*-NCCRCB" Length of Concur/Reset
9	(9)	BITSTRING	1	NCCEND	End RCB
9	(9)	BITSTRING	8	NCCCPENC	Encrypted random string
9	(9)	X'11'	0	NCCCL2	"*-NCCRCB" Length of secure Concur/Reset
17	(11)	BITSTRING	1	NCCEND2	End RCB

Table 267. Structure NCC (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
Add Connection Control Record						
Subtract Connection Control Record						
2	(2)	X'D4'		0	NCCASRCB	"C'M'" Add Connection character
2	(2)	X'D5'		0	NCCSSRCB	"C'N'" Subtract Connection character
2	(2)	ADDRESS		1	NCCADL	Length of logical record
3	(3)	CHARACTER		8	NCCANODA	Lower node identification
11	(B)	BITSTRING		1	NCCAQULA	Lower node qualifier
12	(C)	CHARACTER		8	NCCANODB	Higher node identification
20	(14)	BITSTRING		1	NCCAQULB	Higher node qualifier
21	(15)	SIGNED		4	NCCAEVNT	Event sequence number
25	(19)	SIGNED		2	NCCAREST	Node to node resistance (TOTAL)
25	(19)	X'1B'		0	NCCAL	"*-NCCRCB" Length of Add/Subtract record
27	(1B)	BITSTRING		1	NCCAEND	End RCB
42	(2A)	X'29'		0	NCCMXLEN	"(*-NCC)-L'NCCIEEND" Maximum length NCC record

Table 268. Cross Reference for IAZYNCC

Name	Offset	Hex Tag
NCC	0	
NCCADL	2	
NCCAEND	1B	0
NCCAEVNT	15	0
NCCAL	19	1B
NCCANODA	3	40404040
NCCANODB	C	40404040
NCCAQULA	B	0
NCCAQULB	14	0
NCCAREST	19	0
NCCASRCB	2	D4
NCCCDL	2	
NCCEND	9	0
NCCEND2	11	0
NCCCEVNT	3	0
NCCCL	7	9
NCCCL2	9	11
NCCCPENC	9	0
NCCCREST	7	
NCCSRCB	2	D3
NCCEREST	7	0
NCCESRCB	2	D2
NCCIBFSZ	12	0
NCCIDL	2	
NCCIEEND	29	0
NCCIEVNT	C	0
NCCIFEAT	25	
NCCIFLG	24	0

IAZYNCC mapping

Table 268. Cross Reference for IAZYNCC (continued)

Name	Offset	Hex Tag
NCCIFLGM	24	80
NCCIFLGS	24	40
NCCIL	25	29
NCCILPAS	14	40404040
NCCIMHDR	25	10
NCCIMRCB	25	4
NCCINODE	3	40404040
NCCINOS	25	2
NCCINPAS	1C	40404040
NCCIPACK	25	10
NCCIPENC	25	1C
NCCIPRAW	25	14
NCCIPREP	25	80
NCCIQUAL	B	0
NCCIREST	10	0
NCCIRIF	25	8
NCCISRCB	1	C9
NCCISSIN	25	1
NCCITRM	25	40
NCCMXLEN	2A	29
NCCRCB	0	
NCCRCBF0	0	F0
NCCRID	0	
NCCRSRCB	1	D1
NCCSRCB	1	
NCCSSRCB	2	D5

Chapter 44. IAZYTCT Information

IAZYTCT Heading Information

Common Name: NJE/TCP Control table
 Macro ID: IAZYTCT
 DSECT Name: TCT, TCTRTNS
 Owning Component: JES Common (SC141)
 Eye-Catcher ID: 'TCT'
 Offset: 0
 Length: 4
 Storage Attributes: Subpool: 231
 Key: 0
 Residency: Virtual storage below 2G, real storage anywhere,
 in the private storage of the IAZNJTCP address space.
 Size: See TCTSIZE and TCTRSIZE equates
 Created by: Address space initialization for
 NJE/TCP server address space
 Pointed to by: An address-space level token named IAZYTCT
 in the IAZNJTCP network server address space.
 TPRMTCT field of the IAZYTPRM data area
 Serialization: None required
 Function: Defines parameters associated with the IAZNJTCP
 network server address space.

IAZYTCT mapping

Table 269. Structure TCT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	TCT	NJE/TCP Control Table
0	(0)	CHARACTER	4	TCTEYE	Eye catcher
4	(4)	ADDRESS	2	TCTLEN	Length of status extension
4	(4)	X'1'	0	TCTVRSN1	"1" Version 1
4	(4)	X'1'	0	TCTCVRSN	"TCTVRSN1" Current version
6	(6)	ADDRESS	1	TCTVERS	Version
7	(7)	ADDRESS	1		Reserved
8	(8)	ADDRESS	4	TCTMNTCB	TCB address of main task
12	(C)	CHARACTER	4	TCTSSN	Subsystem name of owning JES
16	(10)	CHARACTER	8	TCTNDENM	NJE node name of owning JES
24	(18)	CHARACTER	16	TCTDEVNM	Device name associated with address space on owning JES (for messages)
40	(28)	BITSTRING	8	TCTJSDTA	Eight bytes of JES-dependent data to be associated with the server.

IAZYTCT mapping

Table 269. Structure TCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
<p>IP address and port information. If IP address or port values are filled in on input to IAZNJTCP, they will represent the IP address and/or port values that IAZNJTCP should use. If IP address or port values are not filled in on input to IAZNJTCP, they will default to the primary IP address defined for this system (as returned by TCP/IP), and/or the well-known port address for TCP/IP NJE (either SSL or non-SSL address)</p>					
48	(30)	BITSTRING	1	TCTFLAG1	Flag byte 1
		1... ..		TCT1SSL	"B'10000000'" Connections from this address space should use SSL protocols
<p>Trace values are initialized by JES when creating the TCT, and maintained by IAZNJTCP thereafter.</p>					
		.1..		TCT1TRCJ	"B'01000000'" JES Tracing active
		..1.		TCT1TRCC	"B'00100000'" IAZNJTCP tracing active
		...1		TCT1VERB	"B'00010000'" Verbose mode for WTOs from server
49	(31)	ADDRESS	1		Reserved
50	(32)	SIGNED	2	TCTKEEP1	Keep alive time interval
52	(34)	CHARACTER	255	TCTHSTNM(0)	IP host name (EBCDIC)
52	(34)	CHARACTER	255	TCTIPNAM	IP address (EBCDIC)
307	(133)	CHARACTER	1		Reserved
308	(134)	BITSTRING	16	TCTIPAD	128-bit IP address
324	(144)	CHARACTER	16	TCTSERVN	Service name (EBCDIC)
340	(154)	SIGNED	2	TCTPORT	Port number
342	(156)	BITSTRING	2	TCTBUFSZ	Max buffer size
344	(158)	BITSTRING	4	TCTIFEAT	Signon feature flags (See NCCIFEAT)
348	(15C)	CHARACTER	8	TCTSTACK	Name of TCP/IP stack
<p>Work queue FIFO queue of work elements to be processed at the address space level. These work elements represent requests to start and stop connection subtasks. The work elements are mapped by IAZYTNRQ. Adding and removing elements from this queue requires use of the PL0 instruction. The program-lock-token (PLT) value in R1 to serialize the operation should be the address of the queue head.</p>					
356	(164)	ADDRESS	4	TCTNRQH	Queue head
360	(168)	ADDRESS	4	TCTNRQT	Queue tail
364	(16C)	SIGNED	4	TCTNRECB	ECB indicating work has arrived on the work queue
368	(170)	ADDRESS	4	TCTRTNL	Pointer to list of JES exit routines called by IAZNJTCP
372	(174)	ADDRESS	4	TCTSERVL	Pointer to list of IAZNJTCP service routines called by JES
376	(178)	BITSTRING	8	TCTIAZDT	8-bytes of IAZNJTCP-dependent data
384	(180)	ADDRESS	4	(3)	Reserved for future use
400	(190)	DBL WORD	8	(0)	Double word alignment

Table 269. Structure TCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
400	(190)	X'190'	0	TCTSIZE	"*-TCT" Length of IAZYTCT

Table 270. Structure TCTRTNS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	TCTRTNS	, List of exit routines
0	(0)	CHARACTER	4	TCTREYE	Eyecatcher
4	(4)	ADDRESS	2	TCTRLLEN	Length of status extension
4	(4)	X'1'	0	TCTRVRS1	"1" Version 1
4	(4)	X'1'	0	TCTRCVRS	"TCTRVRS1" Current version
6	(6)	ADDRESS	1	TCTRVRS	Version
7	(7)	ADDRESS	1	TCTRTNCT	Total number of routines
8	(8)	ADDRESS	4	TCTRLIST(0)	Start of routine list
8	(8)	ADDRESS	4	TCTR_AS_EARLY	Early address space init
12	(C)	ADDRESS	4	TCTR_AS_INIT	Address space initialization
16	(10)	ADDRESS	4	TCTR_AS_TERM	Address space termination
20	(14)	ADDRESS	4	TCTR_AS_NRQ	Address space network request
24	(18)	ADDRESS	4	TCTR_AS_TRACE	Address space trace request
28	(1C)	ADDRESS	4	TCTR_ST_INIT	Connection subtask initialization
32	(20)	ADDRESS	4	TCTR_ST_TERM	Connection subtask termination
36	(24)	ADDRESS	4	TCTR_ST_NRQ	Connection subtask network request
40	(28)	ADDRESS	4	TCTR_ST_NMS	Connection subtask network msg
44	(2C)	ADDRESS	4	TCTR_ST_TRACE	Connection subtask trace request
48	(30)	ADDRESS	4	TCTR_IN_NCC	Inbound NCC record processing
52	(34)	ADDRESS	4	TCTR_IN_NMR	Inbound NMR record processing
56	(38)	ADDRESS	4	TCTR_IN_SYSIN	Inbound SYSIN record processing
60	(3C)	ADDRESS	4	TCTR_IN_SYSOUT	Inbound SYSOUT record processing
64	(40)	ADDRESS	4	TCTR_OUT_SYSIN	Outbound SYSIN record processing
68	(44)	ADDRESS	4	TCTR_OUT_SYSOUT	Outbound SYSOUT record processing
72	(48)	ADDRESS	4	TCTR_CONN_REQ	Make connection primary (send "I")
76	(4C)	ADDRESS	4	TCTRLEND(0)	End of routine list
76	(4C)	X'11'	0	TCTR#RTN	"(TCTRLEND-TCTRLIST)/4" Number of routines in list
76	(4C)	X'4C'	0	TCTRSIZE	"*-TCTRTNS" Length of routine list

Table 271. Structure TCTSERVS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	TCTSERVS	
0	(0)	CHARACTER	4	TCTSEYE	Eyecatcher
4	(4)	ADDRESS	2	TCTSLLEN	Length of status extension
4	(4)	X'1'	0	TCTSVRS1	"1" Version 1
4	(4)	X'1'	0	TCTSCVRS	"TCTSVRS1" Current version
6	(6)	ADDRESS	1	TCTSVRS	Version
7	(7)	ADDRESS	1	TCTSTNCT	Total number of routines
8	(8)	ADDRESS	4	TCTSLIST(0)	Start of routine list

IAZYTCT mapping

Table 271. Structure TCTSERVS (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
TCTS_ENQ - queues a NMR or NRQ to the server. On Entry R1 points to a list of 3 fullword parameters: Word 1: Address of NMS or NRQ Word 2: Address of queue head Word 3: Offset of next pointer in NMS or NRQ						
8	(8)	ADDRESS		4	TCTS_ENQ	Queue NMR or NRQ to server
12	(C)	ADDRESS		4	TCTSLEND(0)	End of routine list
12	(C)	X'1'		0	TCTS#RTN	"(TCTSLEND-TCTSLLIST)/4" Number of routines in list
12	(C)	X'C'		0	TCTSSIZE	"*-TCTSERVS" Length of service routine list

Table 272. Cross Reference for IAZYTCT

Name	Offset	Hex	Tag
TCT	0		
TCTBUFSZ	156		
TCTCVRSN	4		1
TCTDEVNM	18	40404040	
TCTEYE	0	E3C3E340	
TCTFLAG1	30		
TCTHSTNM	34		
TCTIAZDT	178		
TCTIFEAT	158		
TCTIPAD	134		
TCTIPNAM	34		
TCTJSDTA	28		
TCTKEEPI	32		
TCTLEN	4		190
TCTMNTCB	8		
TCTNDENM	10	40404040	
TCTNRECB	16C		
TCTNRQH	164		
TCTNRQT	168		
TCTPORT	154		
TCTR_AS_EARLY	8		
TCTR_AS_INIT	C		
TCTR_AS_NRQ	14		
TCTR_AS_TERM	10		
TCTR_AS_TRACE	18		
TCTR_CONN_REQ	48		
TCTR_IN_NCC	30		
TCTR_IN_NMR	34		
TCTR_IN_SYSIN	38		
TCTR_IN_SYSOUT	3C		
TCTR_OUT_SYSIN	40		
TCTR_OUT_SYSOUT	44		
TCTR_ST_INIT	1C		

Table 272. Cross Reference for IAZYTCT (continued)

Name	Offset	Hex Tag
TCTR_ST_NMS	28	
TCTR_ST_NRQ	24	
TCTR_ST_TERM	20	
TCTR_ST_TRACE	2C	
TCTR#RTN	4C	11
TCTRCVRS	4	1
TCTREYE	0	D9E3D5E2
TCTRLEN	4	4C
TCTRLEND	4C	
TCTRLIST	8	
TCTRSIZE	4C	4C
TCTR TNCT	7	
TCTR TNL	170	
TCTR TNS	0	
TCTRVERS	6	
TCTR VRS1	4	1
TCTS_ENQ	8	
TCTS#RTN	C	1
TCTSCVRS	4	1
TCTSERVL	174	
TCTSERVN	144	
TCTSERVS	0	
TCTSEYE	0	E2C5D9E5
TCTSIZE	190	190
TCTSLEN	4	C
TCTSLEND	C	
TCTS LIST	8	
TCTSSIZE	C	C
TCTSSN	C	40404040
TCTSTACK	15C	
TCTSTNCT	7	
TCTSVRS	6	
TCTSVRS1	4	1
TCTVERS	6	
TCTVRSN1	4	1
TCT1SSL	30	80
TCT1TRCC	30	20
TCT1TRCJ	30	40
TCT1VERB	30	10

IAZYTCT mapping

Chapter 45. IAZYTDBC Information

IAZYTDBC Heading Information

Common Name: NJE/TCP Data buffer
 Macro ID: IAZYTDBC
 DSECT Name: DBC
 Owing Component: JES Common (SC141)
 Eye-Catcher ID: 'PRM'
 Offset: 0
 Length: 4
 Storage Attributes: Subpool: 0
 Key: 0
 Residency: Virtual storage below 2G, real storage anywhere,
 in the private storage of the IAZNJTCP address space.
 Size: See DBCSIZE equate
 Created by: IAZNJTCP
 Pointed to by: Register 1 on entry to NJE/TCP Processign Routines
 Serialization: None required
 Function: Used to pass individual data records between JES
 exit routines and IAZNJTCP.

IAZYTDBC mapping

Table 273. Structure DBC

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DBC	NJE/TCP Data record
0	(0)	CHARACTER	4	DBCEYE	Eye catcher
4	(4)	ADDRESS	2	DBCLEN	Length of status extension
4	(4)	X'1'	0	DBCVR1	"1" Version 1
4	(4)	X'1'	0	DBCVR5	"DBCVR5" Current version
6	(6)	ADDRESS	1	DBCVR5	Version
7	(7)	BITSTRING	1	DBCFLG1	Flag byte 1
		1...		DBC_F1_CALL_AGAIN	"B'10000000'" A "call again" condition exists for this buffer
		.1..		DBC_F1_RI_ISSUED	"B'01000000'" Request to initiate stream issued
		..1.		DBC_F1_PI_ISSUED	"B'00100000'" Receiver issued Permission to initiate stream
		...1		DBC_F1_RC_ISSUED	"B'00010000'" Receiver issued a Receiver Cancel on the stream
		.... 1...		DBC_F1_PI_RECEIVED	"B'00001000'" Permission to initiate stream received
		.... .1..		DBC_F1_STRM_ACTIVE	"B'00000100'" RI/PI is complete on the stream and the stream is currently active
		.... ..1.		DBC_F1_STRM_INACT	"B'00000010'" RI received a RC or the stream is inactive
8	(8)	BITSTRING	1	DBCFLG2	Flag byte 2

IAZYTDBC mapping

Table 273. Structure DBC (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1... ..		DBC_F2_BUF_READY	"B'10000000'" TCP/IP buffer is ready with data to be copied to the DBC buffer
		.1... ..		DBC_F2_PENDING_CPY	"B'01000000'" If all of the TCP/IP transmission buffers are not available currently, this flag is set to indicate that data from DBC needs to be copied before calling the transmitter exit for more data
		..1.		DBC_F2_EOF_SENT	"B'00100000'" Transmission reached an EOF and the transmitter sent the EOF to the receiver
		...1		DBC_F2_TC_SENT	"B'00010000'" Indicate that transmit complete is sent by the receiver
		.... 1...		DBC_F2_XC_ISSUED	"B'00001000'" Transmitter cancel is issued on the xmitter
		.... .1..		DBC_F2_XC_RECEIVED	"B'00000100'" Transmitter cancel is received on the receiver
		.... ..1.		DBC_F2_XC_TO_ISSUE	"B'00000010'" Transmitter cancel to be issued on the xmitter
9	(9)	BITSTRING	1	DBCFLG3	Flag byte 3
		1... ..		DBC_F3_BUF_TRACE	"B'10000000'" JES is done tracing this buffer
		.1... ..		DBC_F3_SPANNED_PRC	"B'01000000'" Spanned record is currently being processed
		..1.		DBC_F3_CALLAGN_CTL	"B'00100000'" A "call again" condition exists for a control record in this buffer
10	(A)	BITSTRING	1	DBCRCB	RCB of stream this record is associated with
11	(B)	BITSTRING	1	DBCRCB	SRCB of record
12	(C)	SIGNED	2	DBCLEN	Actual data length in buffer
14	(E)	BITSTRING	2		Reserved for IBM use
16	(10)	ADDRESS	4	DBC DATA	Address of data record
16	(10)	X'14'	0	DBC SIZE	"*-DBC" Length of DBC area

Table 274. Cross Reference for IAZYTDBC

Name	Offset	Hex Tag
DBC	0	
DBC_F1_CALL_AGAIN	7	80
DBC_F1_PI_ISSUED	7	20
DBC_F1_PI_RECEIVED	7	8
DBC_F1_RC_ISSUED	7	10
DBC_F1_RI_ISSUED	7	40
DBC_F1_STRM_ACTIVE	7	4
DBC_F1_STRM_INACT	7	2
DBC_F2_BUF_READY	8	80
DBC_F2_EOF_SENT	8	20
DBC_F2_PENDING_CPY	8	40

Table 274. Cross Reference for IAZYTDBC (continued)

Name	Offset	Hex Tag
DBC_F2_TC_SENT	8	10
DBC_F2_XC_ISSUED	8	8
DBC_F2_XC_RECEIVED	8	4
DBC_F2_XC_TO_ISSUE	8	2
DBC_F3_BUF_TRACE	9	80
DBC_F3_CALLAGN_CTL	9	20
DBC_F3_SPANNED_PRC	9	40
DBCCVRS	4	1
DBCADATA	10	
DBCADLEN	C	
DBCEYE	0	C4C2C340
DBCFLG1	7	
DBCFLG2	8	
DBCFLG3	9	
DBCLEN	4	14
DBCRCB	A	
DBCFSIZE	10	14
DBCRCB	B	
DBCVERS	6	
DBCVERS1	4	1

IAZYTDBC mapping

Chapter 46. IAZYTNMS Information

IAZYTNSM Heading Information

Common Name: NJE/TCP Networking Message
 Macro ID: IAZYTNMS
 DSECT Name: NMS
 Owning Component: JES Common (SC141)
 Eye-Catcher ID: 'NMS'
 Offset: 0
 Length: 4
 Storage Attributes: Subpool: 0
 Key: 0
 Residency: Any
 Virtual storage below 2G, real storage anywhere,
 in the private storage of the IAZNJTCP address space.
 Size: See NMSSIZE equate
 Created by:
 Pointed to by: TPRMNS field of the IAZYTPRM data area
 TSCNMSH field of the IAZYTSCT data area
 TSCNMST field of the IAZYTSCT data area
 Serialization: None required
 Function: Defines an outgoing network message (NCC or NMR)
 to be sent across a NJE connection.

IAZYTNSM mapping

Table 275. Structure NMS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NMS	NJE/TCP Control Table
0	(0)	CHARACTER	4	NMSEYE	Eye catcher
4	(4)	ADDRESS	2	NMSLEN	Length of status extension
4	(4)	X'1'	0	NMSVRSN1	"1" Version 1
4	(4)	X'1'	0	NMSCVRSN	"NMSVRSN1" Current version
6	(6)	ADDRESS	1	NMSVERS	Version
7	(7)	ADDRESS	1		Reserved
8	(8)	ADDRESS	4	NMSNEXT	Address of next message
12	(C)	ADDRESS	4	NMSPREV	Address of previous message
16	(10)	CHARACTER	16	NMSDEVNM	Device name associated with socket on owning JES (for messages)
32	(20)	SIGNED	2	NMSRECLN	Total length of data in NMSREC (including RID)
34	(22)	SIGNED	2		Reserved
36	(24)	BITSTRING	256	NMSREC	NJE Record in buffer
36	(24)	X'24'	0	NMSRCB	"NMSREC,1,C'X'" RCB (RIDRCB)
36	(24)	X'25'	0	NMSSRCB	"NMSREC+1,1,C'X'" SRCB (RIDSRCB)
36	(24)	X'26'	0	NMSDLEN	"NMSREC+2,1,C'X'" LRECL (RIDRLEN)
36	(24)	X'27'	0	NMSDATA	"NMSREC+3,L'NMSREC-3,C'X'" Data
296	(128)	DBL WORD	8	NMSEND(0)	Doubleword align

IAZYTNS mapping

Table 275. Structure NMS (continued)

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
296	(128)	X'128'	0	NMSSIZE	"*-NMS" Length of message request

Table 276. Cross Reference for IAZYTNMS

Name	Offset	Hex Tag
NMS	0	
NMSCVRSN	4	1
NMSDATA	24	27
NMSDEVNM	10	40404040
NMSDLEN	24	26
NMSEND	128	
NMSEYE	0	D5D4E240
NMSLEN	4	128
NMSNEXT	8	
NMSPREV	C	
NMSRCB	24	24
NMSREC	24	
NMSRECLN	20	
NMSSIZE	128	128
NMSSRCB	24	25
NMSVERS	6	
NMSVRSN1	4	1

Chapter 47. IAZYTNRQ Information

IAZYTNRQ Heading Information

Common Name: NJE/TCP Networking Request
 Macro ID: IAZYTNRQ
 DSECT Name: NRQ
 Owning Component: JES Common (SC141)
 Eye-Catcher ID: 'NRQ'
 Offset: 0
 Length: 4
 Storage Attributes: Subpool: 0
 Key: 0
 Residency: Virtual storage below 2G, real storage anywhere,
 in the private storage of the IAZNJTCP address space.
 Size: See NRQSIZE equate
 Created by:
 Pointed to by: TCTNRQH field of the IAZYTCT data area
 TCTNRQT field of the IAZYTCT data area
 TPRMNRQ field of the IAZYTPRM data area
 TSCTNRQH field of the IAZYTSCT data area
 TSCTNRQT field of the IAZYTSCT data area
 Serialization: None required
 Function: Defines a request to the NJE server address space
 to begin or end a NJE connection.

IAZYTNRQ mapping

Table 277. Structure NRQ

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NRQ	NJE/TCP Control Table
0	(0)	CHARACTER	4	NRQEYE	Eye catcher
4	(4)	ADDRESS	2	NRQLEN	Length of status extension
4	(4)	X'1'	0	NRQVRSN1	"1" Version 1
4	(4)	X'1'	0	NRQCVRSN	"NRQVRSN1" Current version
6	(6)	ADDRESS	1	NRQVERS	Version
7	(7)	ADDRESS	1	NRQTYPE	Request type
7	(7)	X'1'	0	NRQTYPE_START_CONN	"1" Start connection type
7	(7)	X'2'	0	NRQTYPE_HALT_CONN	"2" Halt connection type
7	(7)	X'3'	0	NRQTYPE_STOP_CONN	"3" Stop connection type
7	(7)	X'4'	0	NRQTYPE_ENABLE_SESSP	"4" Enable all streams
7	(7)	X'5'	0	NRQTYPE_BEGIN_DIAG	"5" Begin session tracing
7	(7)	X'6'	0	NRQTYPE_END_DIAG	"6" End session tracing
7	(7)	X'7'	0	NRQTYPE_STOP_SERVER	"7" Stop server type
7	(7)	X'8'	0	NRQTYPE_RESET_SERVER	"8" Reset server type
8	(8)	BITSTRING	8	NRQJSDTA	Eight bytes of JES-dependent data
16	(10)	ADDRESS	4	NRQNEXT	Next IAZYTNRQ on chain
20	(14)	ADDRESS	4	NRQPREV	Previous IAZYTNRQ on chain
24	(18)	BITSTRING	1	NRQERRC	NRQ processing code

IAZYTNRQ mapping

Table 277. Structure NRQ (continued)

Offset	Offset		Len	Name(Dim)	Description
Dec	Hex	Type			
24	(18)	X'4'	0	NRQERRC_START_CONN	"4" Start connection failure (retryable)
24	(18)	X'8'	0	NRQERRC_NO_RETRY	"8" Start connection failure (non-retryable)
25	(19)	BITSTRING	7		Reserved
32	(20)	DBL WORD	8	(0)	Start of request dependent data
32	(20)	BITSTRING	256	NRQDATA(0)	Request dependent data
Variable data for requests of types:					
NRQTYPE_START_CONN					
NRQTYPE_HALT_CONN					
NRQTYPE_STOP_CONN					
32	(20)	CHARACTER	16	NRQDEVNM	Device name associated with socket on owning JES (for messages)
Additional variable data for NRQTYPE_START_CONN					
48	(30)	CHARACTER	255	NRQIPNAM	IP address (EBCDIC)
303	(12F)	CHARACTER	1		Reserved
304	(130)	BITSTRING	16	NRQIPAD	128-bit IP address
320	(140)	CHARACTER	16	NRQPORTN	Port name (EBCDIC)
336	(150)	SIGNED	2	NRQPORT	Port number
338	(152)	CHARACTER	8	NRQNODEN	NJE node name of connecting node
346	(15A)	BITSTRING	1	NRQSFLG1	Initial tracing values for connection
		1... ..		NRQS1TRJ	"B'10000000'" JES event and record trace
		.1.. ..		NRQS1TRC	"B'01000000'" IAZNJTCP internal tracing
		..1.		NRQS1VRB	"B'00100000'" IAZNJTCP verbose mode
		...1		NRQS1TLS	"B'00010000'" Enable TLS for this conn
347	(15B)	BITSTRING	1		Reserved
Variable data for requests of types:					
NRQTYPE_ENABLE_SESSP					
32	(20)	BITSTRING	2	NRQEBFSZ	Maximum buffer size allowed
34	(22)	BITSTRING	2		Reserved
36	(24)	BITSTRING	4	NRQIFEAT	Signon feature flags
40	(28)	ADDRESS	4	NRQNLDV(0)	Number of devices for each stream
40	(28)	ADDRESS	1	NRQJTNM	JTNUM (outbound SYSIN streams)
41	(29)	ADDRESS	1	NRQJRNM	JRNUM (inbound SYSIN streams)
42	(2A)	ADDRESS	1	NRQSTNM	STNUM (outbound SYSOUT streams)
43	(2B)	ADDRESS	1	NRQSRNM	SRNUM (inbound SYSOUT streams)
Variable data for requests of types:					
NRQTYPE_BEGIN_DIAG					
NRQTYPE_END_DIAG					
32	(20)	BITSTRING	1	NRQDFLG1	Tracing flags
		1... ..		NRQD1TRJ	"B'10000000'" Begin/end event and record tracing (JES Traces)

Table 277. Structure NRQ (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
		.1..	....		NRQD1TRC	"B'01000000'" Begin/end event and record tracing (IAZNJTCP traces)
		..1.	....		NRQD1VRB	"B'00100000'" Begin/end verbose messages from IAZNJTCP
352	(160)	DBL	WORD	8	NRQEND(0)	Double-word align
352	(160)	X'160'		0	NRQSIZE	"*-NRQ" Length of IAZYTNRQ request block

Table 278. Cross Reference for IAZYTNRQ

Name	Offset	Hex	Tag
NRQ	0		
NRQCVRSN	4		1
NRQDATA	20		
NRQDEVNM	20	40404040	
NRQDFLG1	20		
NRQD1TRC	20		40
NRQD1TRJ	20		80
NRQD1VRB	20		20
NRQEBFSZ	20		
NRQEND	160		
NRQERRC	18		
NRQERRC_NO_RETRY	18		8
NRQERRC_START_CONN	18		4
NRQEYE	0	D5D9D840	
NRQIFEAT	24		
NRQIPAD	130		
NRQIPNAM	30		
NRQJRNM	29		
NRQJSDTA	8		
NRQJTNM	28		
NRQLEN	4		160
NRQNEXT	10		
NRQNLDV	28		
NRQNODEN	152		
NRQPORT	150		
NRQPORTN	140		
NRQPREV	14		
NRQSFLG1	15A		
NRQSIZE	160		160
NRQSRNM	2B		
NRQSTNM	2A		
NRQS1TLS	15A		10
NRQS1TRC	15A		40
NRQS1TRJ	15A		80
NRQS1VRB	15A		20
NRQTYPE	7		
NRQTYPE_BEGIN_DIAG	7		5

IAZYTNRQ mapping

Table 278. Cross Reference for IAZYTNRQ (continued)

Name	Offset	Hex Tag
NRQTYPE_ENABLE_SESSP	7	4
NRQTYPE_END_DIAG	7	6
NRQTYPE_HALT_CONN	7	2
NRQTYPE_RESET_SERVER	7	8
NRQTYPE_START_CONN	7	1
NRQTYPE_STOP_CONN	7	3
NRQTYPE_STOP_SERVER	7	7
NRQVERS	6	
NRQVRSN1	4	1

Chapter 48. IAZYTPRM Information

IAZYTPRM Heading Information

Common Name: NJE/TCP Processing Routine Parameter Lists
 Macro ID: IAZYTPRM
 DSECT Name: TPRM
 Owning Component: JES Common (SC141)
 Eye-Catcher ID: 'PRM'
 Offset: 0
 Length: 4
 Storage Attributes: Subpool: 0
 Key: 0
 Residency: Virtual storage below 2G, real storage anywhere,
 in the private storage of the IAZNJTCP address space.
 Size: See TPRMSIZE equate
 Created by:
 Pointed to by: Register 1 on entry to NJE/TCP Processing Routines
 Serialization: None required
 Function: Defines parameter lists for each of the NJE/TCP
 Processing Routines

IAZYTPRM mapping

Table 279. Structure TPRM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	TPRM	NJE/TCP Control Table
0	(0)	CHARACTER	4	TPRMEYE	Eye catcher
4	(4)	ADDRESS	2	TPRMLEN	Length of status extension
4	(4)	X'1'	0	TPRMVRS1	"1" Version 1
4	(4)	X'1'	0	TPRMCVRS	"TPRMVRS1" Current version
6	(6)	ADDRESS	1	TPRMVERS	Version
7	(7)	ADDRESS	1		Reserved
8	(8)	ADDRESS	4	TPRMTCT	Address of IAZYTCT
12	(C)	ADDRESS	4	TPRMTSCT	Address of IAZYTSCT or 0
16	(10)	ADDRESS	4	TPRMNMS	Address of IAZYTNMS or 0
20	(14)	ADDRESS	4	TPRMNRQ	Address of IAZYTNRQ or 0
24	(18)	DBL WORD	8	TPRMDATA(0)	Variable data
Variable data for TRACE routines					
24	(18)	BITSTRING	1	TPRMTRFG	Flags
		1... ..		TPRMTRFI	"B'10000000'" Inbound data
		.1.. ..		TPRMTRFO	"B'01000000'" Outbound data
		..1.		TPRMTRFC	"B'00100000'" Control information
		...1		TPMTRTI	"B'00010000'" Data is input to service
		.... 1...		TPMTRTO	"B'00001000'" Data is output fm service
25	(19)	BITSTRING	1		Reserved
26	(1A)	SIGNED	2	TPRMTRLN	Length of trace data

IAZYTPRM mapping

Table 279. Structure TPRM (continued)

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
28	(1C)	ADDRESS	4	TPRMTRDT	Address of trace data
Variable data for SYSIN and SYSOUT data routines					
24	(18)	ADDRESS	4	TPRMDBCP	Address of IAZYTDBC or 0
28	(1C)	BITSTRING	1	TPRMDFG	Flags
		1...		TPRMDFT	"B'10000000'" Terminate current stream
		.1..		TPRMDFA	"B'01000000'" Terminate and ABEND link
29	(1D)	BITSTRING	3		Reserved
Variable data for CONN_REQ routine					
24	(18)	CHARACTER	8	TPRMNDEN	Adjacent node name
Variable data for ST_TERM routine					
24	(18)	BITSTRING	1	TPRMSTFG	Flags
		1...		TPRMSTNR	"B'10000000'" Non-retryable error
32	(20)	X'20'	0	TPRMSIZE	"*-TPRM" Length of parameter list

Table 280. Cross Reference for IAZYTPRM

Name	Offset	Hex Tag
TPRM	0	
TPRMCVRS	4	1
TPRMDATA	18	
TPRMDBCP	18	
TPRMEYE	0	D7D9D440
TPRMLEN	4	20
TPRMNDEN	18	
TPRMNMS	10	
TPRMNRQ	14	
TPRMSIZE	20	20
TPRMSTFG	18	
TPRMSTNR	18	80
TPRMTCT	8	
TPRMTDFA	1C	40
TPRMTDFG	1C	
TPRMTDFT	1C	80
TPRMTRDT	1C	
TPRMTRFC	18	20
TPRMTRFG	18	
TPRMTRFI	18	80
TPRMTRFO	18	40
TPRMTRLN	1A	
TPRMTRTI	18	10
TPRMTRTO	18	8
TPRMTSCT	C	
TPRMVERS	6	
TPRMVRS1	4	1

IAZYTPRM mapping

Chapter 49. IAZYTSCT Information

IAZYTSCCT Heading Information

Common Name: NJE/TCP Socket Control Table
 Macro ID: IAZYTSCT
 DSECT Name: TSCT
 Owning Component: JES Common (SC141)
 Eye-Catcher ID: 'TSCT'
 Offset: 0
 Length: 4
 Storage Attributes: Subpool: 0
 Key: 0
 Residency: Virtual storage below 2G, real storage anywhere,
 in the private storage of the IAZNJTCP address space.
 Size: See TSCTSIZE equate
 Created by: Task initialization for NJE connection
 task in NJE/TCP server address space
 Pointed to by: TPRMTSCT field of the IAZYTPRM data area
 Serialization: None required
 Function: Defines parameters associated with a specific NJE
 TCP/IP connection

IAZYTSCCT mapping

Table 281. Structure TSCT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	TSCT	NJE/TCP Socket Control Table
0	(0)	CHARACTER	4	TSCTEYE	Eye catcher
4	(4)	ADDRESS	2	TSCTLEN	Length of status extension
4	(4)	X'1'	0	TSCTVRS1	"1" Version 1
4	(4)	X'1'	0	TSCTCVRS	"TSCTVRS1" Current version
6	(6)	ADDRESS	1	TSCTVERS	Version
7	(7)	ADDRESS	1		Reserved
8	(8)	CHARACTER	16	TSCTDVNM	Device name associated with socket on owning JES (for messages)
24	(18)	CHARACTER	8	TSCTNDNM	NJE node name of adjacent node
32	(20)	BITSTRING	8	TSCTJSDT	JES-dependent data
Work queue FIFO queue of work elements to be processed at the socket level. These work elements represent requests change the status or attributes of a connecton subtask. These work elements are mapped by IAZYTNRQ. Adding and removing elements from this queue requires use of the PLO instruction. The program-lock-token (PLT) value in R1 to serialize the operation should be the address of the queue head.					
40	(28)	ADDRESS	4	TSCTNRQH	IAZYTNRQ queue head
44	(2C)	ADDRESS	4	TSCTNRQT	IAZYTNRQ queue tail

IAZYTST mapping

Table 281. Structure TSCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
48	(30)	SIGNED	4	TSCTQECB	ECB indicating work has arrived on the work queue
<p>IP address and port information. These values are filled in by IAZNJTCP after the socket has been created and represent the IP address and port on the other end of the connection.</p>					
52	(34)	CHARACTER	255	TSCTHSTN(0)	IP host name (EBCDIC)
52	(34)	CHARACTER	255	TSCTIPNM	IP address (EBCDIC)
307	(133)	CHARACTER	1		Reserved
308	(134)	BITSTRING	16	TSCTIPAD	128-bit IP address
324	(144)	CHARACTER	16	TSCTPRTN	Port name (EBCDIC)
340	(154)	BITSTRING	2	TSCTPORT	Port number
342	(156)	BITSTRING	1	TSCTFLG1	Flags
<p>Trace values are initialized by IAZNJTCP from the START_CONN NRQ, and maintained by IAZNJTCP thereafter</p>					
		1... ..		TSCT1TRJ	"B'10000000'" JES tracing active for line
		.1.. ..		TSCT1TRC	"B'01000000'" IAZNJTCP tracing active
		..1.		TSCT1VRB	"B'00100000'" IAZNJTCP WTO verbose mode
		...1		TSCT1TLS	"B'00010000'" Indicate secure TLS connection
343	(157)	BITSTRING	1		Reserved
344	(158)	BITSTRING	8	TSCTIAZD	8-bytes of IAZNJTCP-dependent data
352	(160)	SIGNED	4	TSCTSKID	Socket identifier
356	(164)	ADDRESS	4	(3)	Reserved
<p>Sub-device parameter definitions For each socket, there are potentially many streams: - Up to 8 inbound device streams - Up to 8 outbound device streams - Inbound and outbound control streams (NCC records) - Inbound and outbound message streams (NMR records) The following contain definitions for each individual stream.</p>					
368	(170)	DBL WORD	8	(0)	Alignment for subsections
368	(170)	BITSTRING	64	TSCTINST(8)	Definitions for 8 inbound streams
432	(1B0)	BITSTRING	1	TSCTOUST(8)	Definitions for 8 outbound streams
<p>Outbound message and control record queue FIFO queue of outbound network messages and control records (NCC records and NMRs). These messages are mapped by IAZYTNMS. Adding and removing elements from this queue requires use of the PLO instruction. The program-lock-token (PLT) value in R1 to serialize the operation should be the address of the queue head.</p>					
496	(1F0)	ADDRESS	4	TSCTNMSH	IAZYNMS outbound queue head
500	(1F4)	ADDRESS	4	TSCTNMST	IAZYNMS outbound queue tail
504	(1F8)	SIGNED	4	TSCTNECB	ECB indicating work has arrived on the work queue

Table 281. Structure TSCT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
508	(1FC)	SIGNED	4		Reserved
512	(200)	DBL WORD	8	TSCTEND(0)	Doubleword align
512	(200)	X'200'	0	TSCTSIZE	"*-TSCT" Length of IAZYTSCT

Table 282. Structure TSCTIN

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	TSCTIN	, Inbound subdevice parameters
0	(0)	BITSTRING	1	TSCTIN_RCB	RCB of inbound stream
1	(1)	BITSTRING	3		Reserved
4	(4)	SIGNED	4	TSCTIN_ECB	ECB posted by subdevice when JES processing routine is ready to accept new work
8	(8)	DBL WORD	8	(0)	Force alignment
8	(8)	X'8'	0	TSCTIN_LEN	"*-TSCTIN" Length of subsection

Table 283. Structure TSCTOUT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	TSCTOUT	, Outbound subdevice parameters
0	(0)	BITSTRING	1	TSCTOUT_RCB	RCB of outbound stream
1	(1)	BITSTRING	3		Reserved
4	(4)	SIGNED	4	TSCTOUT_ECB	ECB posted by subdevice when JES processing routine has new work to be processed
8	(8)	DBL WORD	8	(0)	Force alignment
8	(8)	X'8'	0	TSCTOUT_LEN	"*-TSCTOUT" Length of subsection

Table 284. Cross Reference for IAZYTSCT

Name	Offset	Hex Tag
TSCT	0	
TSCTCVRS	4	1
TSCTDVNM	8	40404040
TSCTEND	200	
TSCTEYE	0	E3E2C3E3
TSCTFLG1	156	
TSCTHSTN	34	
TSCTIAZD	158	
TSCTIN	0	
TSCTIN_ECB	4	
TSCTIN_LEN	8	8
TSCTIN_RCB	0	
TSCTINST	170	
TSCTIPAD	134	0
TSCTIPNM	34	40404040
TSCTJSDT	20	
TSCTLEN	4	200
TSCTNDNM	18	40404040

IAZYTSCCT mapping

Table 284. Cross Reference for IAZYTSCCT (continued)

Name	Offset	Hex Tag
TSCTNECB	1F8	
TSCTNMSH	1F0	
TSCTNMST	1F4	
TSCTNRQH	28	
TSCTNRQT	2C	
TSCTOUST	1B0	
TSCTOUT	0	
TSCTOUT_ECB	4	
TSCTOUT_LEN	8	8
TSCTOUT_RCB	0	
TSCTPORT	154	0
TSCTPRTN	144	40404040
TSCTQECB	30	
TSCTSIZE	200	200
TSCTSKID	160	
TSCTVERS	6	
TSCTVRS1	4	1
TSCT1TLS	156	10
TSCT1TRC	156	40
TSCT1TRJ	156	80
TSCT1VRB	156	20

Chapter 50. IAZYTTTRC Information

IAZYTTTRC Heading Information

Common Name: NJE/TCP Trace data
 Macro ID: IAZYTTTRC
 DSECT Name: TTRC
 Owning Component: JES Common (SC141)
 Eye-Catcher ID: 'TTRC'
 Offset: 0
 Length: 4
 Storage Attributes: Subpool: 0
 Key: 0
 Residency: Virtual storage below 2G, real storage anywhere,
 in the private storage of the IAZNJTCP address space.
 Size: See DBCSIZE equate
 Created by: IAZNJTCP
 Pointed to by: TPRMTRDT field of the IAZYTPRM data area
 Serialization: None required
 Function: Maps control information for tracing by the JES trace
 exit routine (TCTR_AS_TRACE or TCTR_ST_TRACE).
 The variable data pointed to by TPRMTRDT on input
 to the routine maps using this DSECT if the flag
 TPRMTRFC is set.

IAZYTTTRC mapping

Table 285. Structure TTRC

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	TTRC	NJE/TCP Data record
0	(0)	CHARACTER	4	TTRCEYE	Eye catcher
4	(4)	CHARACTER	20	TTRCSRVN	Service name
24	(18)	BITSTRING	4		Reserved
Input to service					
28	(1C)	BITSTRING	255	TTRCINP(0)	Input to service
Output from service					
28	(1C)	BITSTRING	4	TTRCOURT	Return code from service
32	(20)	BITSTRING	4	TTRCOURS	Reason code from service
36	(24)	BITSTRING	255	TTRCOUTP(0)	Output from service

Table 286. Cross Reference for IAZYTTTRC

Name	Offset	Hex Tag
TTRC	0	
TTRCEYE	0	E3E3D9C3
TTRCINP	1C	
TTRCOURS	20	
TTRCOURT	1C	

IAZYTTRC mapping

Table 286. Cross Reference for IAZYTTRC (continued)

Name	Offset	Hex Tag
TTRCOUTP	24	
TTRCSRVN	4	

Chapter 51. ICHPT Information

ICHPT Heading Information

Common Name: Installation Channel Path Table
 Macro ID: IHAICHPT
 DSECT Name: ICHPT
 Owning Component: I/O Supervisor (SC1C3)
 Eye-Catcher ID: None
 Storage Attributes: Subpool: 245
 Key: 0
 Size: 156 bytes
 Created by: IEAVNP02
 Pointed to by: CVTICHPT field of the CVT data area
 Serialization: None
 Function: Maps the 256 possible channel paths (CHPID) between the channel and the control units.

ICHPT mapping

Table 287. Structure ICHPT

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
0	(0)	STRUCTURE		256	ICHPT	
0	(0)	BITSTRING		1	ICHARRAY(0:255)	Array of 256 entries to map each unique channel path. NOTE: Only valid states---- X'E0',X'C0',X'80',X'00', X'F0',X'E8',X'F8'
		1...	....		ICHCONFIG	This CHPID is VALID for this installation. If 0, then ICHOWNED = 0 and ICHONLIN = 0.
		.1..	....		ICHOWNED	This CHPID is OWNED by This system. If 1, then ICHCONFIG = 1. If 0, then ICHONLIN = 0.
		..1.	....		ICHONLIN	This CHPID is ONLINE. If 1, then ICHCONFIG = 1 and ICHOWNED = 1.
		...1	....		ICHRCVIP	If 1, this CHPID is currently undergoing channel path recovery.
		....	1...		ICHVOIP	If 1, Vary Offline in progress for CHPID.
		....	.1..		ICHFORER	If 1, channel path recovery was unable to complete for a FORCE Channel Path Offline request.
		....	..1.		ICHRCVLS	If 1, channel path recovery has started its last scan of the UCBS.

ICHPT mapping

Chapter 52. ICHS Information

ICHS Heading Information

Common Name: IOS Channel Subsystem Information
 Macro ID: IOSDICHS
 DSECT Name: ICHS
 Owing Component: I/O Supervisor (SC1C3)
 Eye-Catcher ID: ICHS
 Offset: 0
 Length: 4
 Storage Attributes: Subpool: 245
 Key: 0
 Residency: 31-bit storage
 Size: See assembler listing
 Created by: - IOSNCHSF
 Pointed to by: - SCVTCHSI
 Serialization: None
 Function: This macro maps a header for the channel subsystem information (CHSI). The header is followed by the CHSI. The CHSI portion is mapped by the IEEMCHSI control block.

ICHS mapping

Table 288. Structure ICHS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	24	ICHS	
0	(0)	CHARACTER	16	ICHSHEAD	Header
0	(0)	CHARACTER	4	ICHSNAME	Control block acronym
4	(4)	UNSIGNED	1	ICHSVBR	Version of control block
5	(5)	CHARACTER	5	ICHSCMP	Component identification.
10	(A)	CHARACTER	2	ICHSFLGS	Flags.
10	(A)	BITSTRING	1	ICHSFLG1	First byte of flags.
		1...		ICHSVFLD	CHSI valid flag, set to zero, invalid, when there was a SCLP error and the channel subsystem information could not be obtained. Set to one, valid, when the information was obtained and stored in the CHSI.
		.111 1111		*	Reserved.
11	(B)	BITSTRING	1	*	Reserved.
12	(C)	CHARACTER	4	*	Reserved.
16	(10)	CHARACTER	8	ICHSCHSI	Channel subsystem information.

Table 289. Constants for ICHS

Len	Type	Value	Name	Description
Constants definitions				

ICHS mapping

Table 289. Constants for ICHS (continued)

Len	Type	Value	Name	Description
4	CHARACTER	ICHS	ICHSID	Control block ID.
1	DECIMAL	1	ICHSVER1	Version one of the control block.
5	CHARACTER	SC1C3	ICHSCOMP	Component control block belongs to.

Table 290. Cross Reference for ICHS

Name	Offset	Hex Tag
ICHS	0	
ICHSCHSI	10	
ICHSCMP	5	
ICHSFLGS	A	
ICHSFLG1	A	
ICHSHEAD	0	
ICHSNAME	0	
ICHSVALD	A	80
ICHSVER	4	

Chapter 53. ICSC Information

ICSC Heading Information

Common Name: System Resource Manager Installation Control Specification - Common Section
 Macro ID: IRAICSC
 DSECT Name: ICSC (unless DSECT=NO is coded)
 Owing Component: System Resource Manager (SC1CX)
 Eye-Catcher ID: N/A
 Storage Attributes: Subpool: 245
 Key: 0
 Residency: Above 16M line
 Size: 40 bytes
 Created by: IEEMB812, IEAVNP10
 Pointed to by: RMCTICST field of the RMCT data area
 Serialization: SRM Lock
 Function: Contains data identifying the current Installation Control Specification (ICS)

ICSC mapping

Table 291. Structure ICSC

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	40	ICSC	
0	(0)	CHARACTER	2	ICSCNAME	MEMBER ID
2	(2)	CHARACTER	1	ICSCMSKC	MASK CHARACTER
3	(3)	BITSTRING	1	ICSCFLAG	STATUS FLAGS
		1... ..		ICSCTS0	TSO SUBSYSTEM SPECIFIED
		.1.. ..		ICSCSTC	STC SUBSYSTEM SPECIFIED
		..1. ..		ICSCREPT	NON-TSO RPRTG ACTIVE
		...1 ..		ICSCRTSO	TSO REPORTING ACTIVE
		.... 1..		ICSCGRS	GRS WITH CONTROL PGN SPECIFIED
		.... .1..		ICSCMS6	MS6 has seen this
		.... ..1.		ICSC851E	IRA851E has been issued
		.... ...1		ICSCRSV2	RESERVED
4	(4)	SIGNED	4	ICSC LNG	TOTAL TABLE LENGTH
8	(8)	BITSTRING	8	ICSC TOC	TIME OF 'SET ICS' PROCESSING
16	(10)	ADDRESS	4	ICSC SET	'SET ICS' ROUTINE ADDRESS
20	(14)	SIGNED	2	ICSCHPGN	HIGHEST PG IN MEMBER
22	(16)	SIGNED	2	ICSCUPGN	CNT OF UNIQUE PGNS
24	(18)	SIGNED	2	ICSCLRPG	LOWEST RPGN IN MEMBER
26	(1A)	SIGNED	2	ICSCHRPG	HIGHEST RPGN IN MEMBER
28	(1C)	SIGNED	2	ICSCURPG	CNT OF UNIQUE RPGNS
30	(1E)	SIGNED	2	ICSCRSV3	RESERVED
32	(20)	ADDRESS	4	ICSCR PVT	ADDRESS OF RPGN VECTOR TABLE
36	(24)	ADDRESS	4	ICSCNICS	FOR SET, ADDR OF NEXT ICSC
40	(28)	CHARACTER	0	ICSC END	END OF ICSC

ICSC mapping

Table 292. Cross Reference for ICSC

Name	Offset	Hex Tag
ICSC	0	
ICSCEND	28	
ICSCFLAG	3	
ICSCGRS	3	08
ICSCHPGN	14	
ICSCHRPG	1A	
ICSC LNG	4	
ICSCLRPG	18	
ICSCMSKC	2	
ICSCMS6	3	04
ICSCNAME	0	
ICSCNICS	24	
ICSCREPT	3	20
ICSCR PVT	20	
ICSCRSV2	3	01
ICSCRSV3	1E	
ICSCRTS0	3	10
ICSCSET	10	
ICSCSTC	3	40
ICSC TOC	8	
ICSC TSO	3	80
ICSCUPGN	16	
ICSCURPG	1C	
ICSC851E	3	02

Chapter 54. ICT Information

ICT Heading Information

Common Name: System Resource Manager I/O Management Control Table
 Macro ID: IRAICT
 DSECT Name: ICT (unless DSECT=NO is coded)
 Owing Component: System Resource Manager (SC1CX)
 Eye-Catcher ID: ICT
 Offset: 0
 Length: CHAR(4)
 Storage Attributes: Subpool: Nucleus
 Key: 0
 Residency: Nucleus (above 16M line)
 Size: 72 bytes
 Created by: Assembled into nucleus module IRARMCNS
 Pointed to by: RMCTICT field of the RMCT data area
 Serialization: SRM lock
 Function: Contains logical channel usage information for use
 by SRM I/O management modules

ICT mapping

Table 293. Structure ICT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	72	ICT	I/O CONTROL TABLE
0	(0)	CHARACTER	4	ICTICT	ACRONYM IN EBCDIC -ICT-
I/O CONTROL CONSTANTS					
4	(4)	SIGNED	2	ICCNDCI	AVG CONNECT TIME/EXCP
6	(6)	SIGNED	2	ICCTPILO	LOW THRESHOLD FOR PERCENT TPI INTERRUPTS TIMES 100
8	(8)	SIGNED	2	ICCTPIHI	HIGH THRESHOLD FOR PERCENT TPI INTERRUPTS TIMES 100
10	(A)	SIGNED	2	ICCRSV1	4@L1C
12	(C)	SIGNED	4	ICCRSV2	
16	(10)	SIGNED	2	ICCRSV3	
18	(12)	SIGNED	2	ICCEDMDL	EST DD DMB DLAY IMPACT (PERCENT TIMES 100)
20	(14)	CHARACTER	0	ICCEND	END OF ICT CONSTANTS
VARIABLES FOR SELECTIVE I/O ENABLEMENT					
20	(14)	SIGNED	4	ICVTPIB	BASE COUNT OF I/O INTERRUPTS VIA TPI
24	(18)	SIGNED	4	ICVSLIHB	BASE COUNT OF I/O INTERRUPTS VIA SLIH
28	(1C)	SIGNED	2	ICVTPIP	PERCENT OF I/O INTERRUPTS HANDLED VIA TPI (PERCENT * 100)
30	(1E)	SIGNED	2	ICVRSVA	RESERVED
32	(20)	SIGNED	4	ICVRSV1	
I/O RELATED MESSAGE POINTERS					

ICT mapping

Table 293. Structure ICT (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
36	(24)	ADDRESS		4	ICCMS600	SRM CHANNEL DATA NOW AVAILABLE - IRA600I
40	(28)	ADDRESS		4	ICCMS601	SRM CHANNEL DATA NO LONGER AVAILABLE - IRA601I
44	(2C)	ADDRESS		4	ICCMS602	XX,SRM CHANNEL MEASUREMENTS TERMINATED - IRA602I
48	(30)	ADDRESS		4	ICCMS603	XX,SYSTEM ACTIVITY DISPLAY COUNTS NO LONGER BEING USED FOR CHANNEL UTILIZATIONS - 1RA603I
52	(34)	ADDRESS		4	ICCMS604	CHANNEL PATH MEASUREMENT FACILITY DATA NO LONGER AVAILABLE
56	(38)	ADDRESS		4	ICCMS605	CHANNEL PATH MEASUREMENT FACILITY RESTART IN PROGRESS
I/O CONTROL FLAGS						
60	(3C)	BITSTRING		1	ICTFLAGS	I/O CONTROL FLAGS
		1111	....		ICTDRSV4	RESERVED 3@L1D
		....	1...		ICTDISAB	DISABLE REQUEST TO IL5
		....	.111		*	RESERVED
61	(3D)	BITSTRING		3	ICTRSVA	RESERVED
64	(40)	SIGNED		4	ICTRSVB	RESERVED
68	(44)	SIGNED		4	ICTRSVC	RESERVED
72	(48)	CHARACTER		0	ICTEND	END OF ICT END OF THIS BLOCK

Table 294. Cross Reference for ICT

Name	Offset	Hex Tag
ICCEDMDL	12	
ICCEND	14	
ICCMS600	24	
ICCMS601	28	
ICCMS602	2C	
ICCMS603	30	
ICCMS604	34	
ICCMS605	38	
ICCNDCTI	4	
ICCRSV1	A	
ICCRSV2	C	
ICCRSV3	10	
ICCTPIHI	8	
ICCTPILO	6	
ICT	0	
ICTDISAB	3C	08
ICTDRSV4	3C	F0
ICTEND	48	
ICTFLAGS	3C	
ICTICT	0	
ICTRSVA	3D	
ICTRSVB	40	
ICTRSVC	44	
ICVRSVA	1E	

Table 294. Cross Reference for ICT (continued)

Name	Offset	Hex Tag
ICVRSV1	20	
ICVSLIHB	18	
ICVTPIB	14	
ICVTPIP	1C	

ICT mapping

Chapter 55. IDAL Information

IDAL Heading Information

Common Name: TCCW Translator Indirect Address List
 Macro ID: IECDIDAL
 DSECT Name: IDAL
 Owing Component: Execute Channel Program Processor (SC1C6)
 Eye-Catcher ID: None
 Storage Attributes: Subpool: 226
 Key: 0
 Size: Variable
 Created by: Callers of the CCW translation module, IECVTCCW
 Pointed to by: TCCWIDAL field of the TCCW data area
 IDALCHN field of the IDAL data area
 Serialization: Local lock
 Function: Contains all the Indirect Address Words (IDAWs) generated by the TCCW translator (IECVTCCW) in translating the callers virtual channel program to a real channel program. It also contains the IDAWs as a result of a callers virtual IDAW CCW.

IDAL mapping

Table 295. Structure IDAL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IDAL	
0	(0)	ADDRESS	4	IDALCHN	IDAL block chain pointer
4	(4)	ADDRESS	4		Reserved
4	(4)	X'8'	0	IDALHL	"*-IDAL" IDAL header block length
8	(8)	ADDRESS	4	IDALENTY	Indirect address list entry
8	(8)	X'4'	0	IDALEL	"*-IDALENTY" IDAW length
8	(8)	X'26'	0	IDALNE	"38" number of IDAW entries- 160 byte
8	(8)	X'3C'	0	IDALNEL	"60" number of IDAW entries- 248 byte
8	(8)	X'A0'	0	IDALBL	"IDALHL+IDALEL*IDALNE" IDAL block length

IDAL mapping

Chapter 56. IDX Information

IDX Programming Interface Information

IDX is a programming interface.

IDX Heading Information

Common Name: Index table
 Macro ID: IAZIDX
 DSECT Name: IAZIDX
 Owing Component: JES Common (SC141)
 Eye-Catcher ID: IDX
 Offset: IDXID
 Length: L'IDXID
 Storage Attributes: Subpool: 230
 Key: TCB key of FSS
 Residency: Virtual 24-bit, Real 31-bit
 Size: See IDXESIZ
 Created by: HASPFSSM (JES2)
 IATFPRA (JES3)
 Pointed to by: GCBIDX field of the \$GCB (JES2)
 INPXINDX field of the IATYINPX (JES3)
 GLRINDX field of the IAZFSIP parameter list
 Serialization: None required
 Function: Has information about a single record being processed
 by an FSS. The IDX is filled in by the JES and used
 by the FSS.

IDX mapping

Table 296. Structure IAZIDX

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IAZIDX	
0	(0)	X'0'	0	IDX	"IAZIDX" ALTERNATE DSECT NAME
0	(0)	CHARACTER	4	IDXID	INDEX TABLE ID
4	(4)	SIGNED	2	IDXNUM	NUMBER OF ENTRIES IN TABLE
6	(6)	SIGNED	2	IDXTRK	JES SUPPLIED TOKEN
8	(8)	SIGNED	4		RESERVED
8	(8)	X'C'	0	IXXSIZ	"*-IDX" FIXED INDEX HEADER SIZE
INDEX ENTRY					
12	(C)	SIGNED	4	INDEXENTRY(0)	INDEX ENTRY
12	(C)	SIGNED	2	INDEXENTRL	LENGTH OF THE INDEX ENTRY
14	(E)	SIGNED	2	INDEXRECL	LENGTH OF THE DATA PORTION
16	(10)	ADDRESS	1	INDEXFLAG1	FLAG BYTE
		1... ..		INDEXDSR	"B'10000000'" INDICATES DATA STREAM RECORD
		.1... ..		INDEXLMR	"B'01000000'" INDICATES LINE MODE RECORD

IDX mapping

Table 296. Structure IAZIDX (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
		..1.	....		IDXANSI	"B'00100000'" REC CONTAINS ANSI CNTRL CHARS
		...1	....		IDXMACH	"B'00010000'" REC CONTAINS MACH CNTRL CHARS
		....	1...		IDXSRS	"B'00001000'" RECORD SPLIT - START OF REC
		....	.1..		IDXSRM	"B'00000100'" RECORD SPLIT - MIDDLE OF REC
		....	..1.		IDXSRE	"B'00000010'" RECORD SPLIT - END OF REC
		....	...1		IDXOPJ	"B'00000001'" OPTCODE=J USED FOR REC
17	(11)	ADDRESS		1		RESERVED
18	(12)	ADDRESS		2	IDXORECL	Original LRECL of record (only passed if start or only IDX for record)
20	(14)	ADDRESS		4	IDXRADR	ADDR OF THE DATA PORTION OF REC
24	(18)	CHARACTER		8	IDXRECID	RECORD IDENTIFIER
32	(20)	SIGNED		4	(0)	BOUNDARY ALIGNMENT
32	(20)	X'14'		0	IDXESIZ	"*-IDXENTRY" INDEX ENTRY SIZE

Table 297. Cross Reference for IDX

Name	Offset	Hex Tag
IAZIDX	0	
IDX	0	0
IDXANSI	10	20
IDXDSR	10	80
IDXENTRL	C	
IDXENTRY	C	
IDXESIZ	20	14
IDXFLAG1	10	
IDXID	0	
IDXLMR	10	40
IDXMACH	10	10
IDXNUM	4	
IDXOPJ	10	1
IDXORECL	12	
IDXRADR	14	
IDXRECID	18	
IDXRECL	E	
IDXSIZ	8	C
IDXSRE	10	2
IDXSRM	10	4
IDXSRS	10	8
IDXTOK	6	

Chapter 57. IEAASM Information

IEAASM Programming Interface Information

IEAASM is a programming interface.

IEAASM Heading Information

Common Name: Supervisor Callable Services Asm Declarations
Macro ID: IEAASM
DSECT Name: N/A
Owning Component: Supervisor Control (SC1C5)
Eye-Catcher ID: N/A
Offset: N/A
Length: N/A
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: IEAASM defines Supervisor constants for programs written in the Assembler language

IEAASM mapping

Table 298. Structure IEAVAPEPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IEAVAPEPARMLIST	
0	(0)	ADDRESS	4	IEAVAPERETURNCODEPTR	Return Code Address
4	(4)	ADDRESS	4	IEAVAPEAUTHLEVELPTR	Auth Level Address
8	(8)	ADDRESS	4	IEAVAPEPAUSEELEMENTTOKENPTR	Pause Element Token Address

Table 299. Structure IEAVDPEPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IEAVDPEPARMLIST	
0	(0)	ADDRESS	4	IEAVDPERETURNCODEPTR	Return Code Address
4	(4)	ADDRESS	4	IEAVDPEAUTHLEVELPTR	Auth Level Address
8	(8)	ADDRESS	4	IEAVDPEPAUSEELEMENTTOKENPTR	Pause Element Token Address

Table 300. Structure IEAVPSEPARMLIST

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

IEAASM mapping

Table 300. Structure IEAVPSEPARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	ADDRESS	4	IEAVPSERETURNCODEPTR	Return Code Address
4	(4)	ADDRESS	4	IEAVPSEAUTHLEVELPTR	Auth Level Address
8	(8)	ADDRESS	4	IEAVPSECURRENTDUPAUSEELEMENTTOKENPTR	Pause Element Token Address
12	(C)	ADDRESS	4	IEAVPSEUPDATEDPAUSEELEMENTTOKENPTR	Updated Pause Element Token Address
16	(10)	ADDRESS	4	IEAVPSERELEASECODE	Release Code Address Address

Table 301. Structure IEAVRLSPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IEAVRLSPARMLIST	
0	(0)	ADDRESS	4	IEAVRLSRETURNCODEPTR	Return Code Address
4	(4)	ADDRESS	4	IEAVRLSAUTHLEVELPTR	Auth Level Address
8	(8)	ADDRESS	4	IEAVRLSTARGETDUPAUSEELEMENTTOKENPTR	Pause Element Token Address
12	(C)	ADDRESS	4	IEAVRLSTARGETDURELEASECODE	Release Code Address

Table 302. Structure IEAVXFRPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IEAVXFRPARMLIST	
0	(0)	ADDRESS	4	IEAVXFRRETURNCODEPTR	Return Code Address
4	(4)	ADDRESS	4	IEAVXFRAUTHLEVELPTR	Auth Level Address
8	(8)	ADDRESS	4	IEAVXFCURRENTDUPAUSEELEMENTTOKENPTR	Pause Element Token Address
12	(C)	ADDRESS	4	IEAVXFRUPDATEDPAUSEELEMENTTOKENPTR	Updated Pause Element Token Address
16	(10)	ADDRESS	4	IEAVXFCURRENTDURELEASECODE	Release Code Address
20	(14)	ADDRESS	4	IEAVXFRTARGETDUPAUSEELEMENTTOKENPTR	Pause Element Token Address
24	(18)	ADDRESS	4	IEAVXFRTARGETDURELEASECODE	Release Code Address

Table 303. Structure IEAVRPIPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IEAVRPIPARMLIST	
0	(0)	ADDRESS	4	IEAVRPIRETURNCODEPTR	Return Code Address
4	(4)	ADDRESS	4	IEAVRPIAUTHLEVELPTR	Auth Level Address
8	(8)	ADDRESS	4	IEAVRPIPAUSEELEMENTTOKENPTR	Pause Element Token Address
12	(C)	ADDRESS	4	IEAVRPIAUTHORIZATIONPTR	PE creator's authority Address
16	(10)	ADDRESS	4	IEAVRPIOWNERPTR	PE owner's STOKEN Address
20	(14)	ADDRESS	4	IEAVRPISTATEPTR	Address of PE's state
24	(18)	ADDRESS	4	IEAVRPIRELEASECODEPTR	Address of PE's release code if state is Released or Prereleased

Table 304. Structure IEAVTPEPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IEAVTPEPARMLIST	
0	(0)	ADDRESS	4	IEAVTPERRETURNCODEPTR	Return Code Address
4	(4)	ADDRESS	4	IEAVTPEPAUSEELEMENTTOKENPTR	Pause Element Token Address
8	(8)	ADDRESS	4	IEAVTPESTATEPTR	Address of PE's state
12	(C)	ADDRESS	4	IEAVTPERELEASECODEPTR	Address of PE's release code if state is Released or Prereleased

Table 305. Structure IEAVAPE2PARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IEAVAPE2PARMLIST	
0	(0)	ADDRESS	4	IEAVAPE2RETURNCODEPTR	Return Code Address
4	(4)	ADDRESS	4	IEAVAPE2AUTHLEVELPTR	Auth Level Address
8	(8)	ADDRESS	4	IEAVAPE2PAUSEELEMENTTOKENPTR	Pause Element Token Address
12	(C)	ADDRESS	4	IEAVAPE2PEOWNERSTOKENPTR	Pause Element Owner Stoken Address
16	(10)	ADDRESS	4	IEAVAPE2OWNERTERMRELEASECODEPTR	Owner Termination Release Code Address
20	(14)	ADDRESS	4	IEAVAPE2LINKAGEPTR	Linkage Address

Table 306. Structure IEAVDPE2PARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IEAVDPE2PARMLIST	
0	(0)	ADDRESS	4	IEAVDPE2RETURNCODEPTR	Return Code Address
4	(4)	ADDRESS	4	IEAVDPE2PAUSEELEMENTTOKENPTR	Pause Element Token Address
8	(8)	ADDRESS	4	IEAVDPE2LINKAGEPTR	Linkage Address

Table 307. Structure IEAVPSE2PARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IEAVPSE2PARMLIST	
0	(0)	ADDRESS	4	IEAVPSE2RETURNCODEPTR	Return Code Address
4	(4)	ADDRESS	4	IEAVPSE2CURRENTDUPAUSEELEMENTTOKENPTR	Pause Element Token Address
8	(8)	ADDRESS	4	IEAVPSE2UPDATEDPAUSEELEMENTTOKENPTR	Updated Pause Element Token Address
12	(C)	ADDRESS	4	IEAVPSE2RELEASECODE	Release Code Address Address
16	(10)	ADDRESS	4	IEAVPSE2LINKAGEPTR	Linkage Address

IEASM mapping

Table 308. Structure IEAVRLS2PARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IEAVRLS2PARMLIST	
0	(0)	ADDRESS	4	IEAVRLS2RETURNCODEPTR	Return Code Address
4	(4)	ADDRESS	4	IEAVRLS1TARGETDUPAUSEELEMENTTOKENPTR	Pause Element Token Address
8	(8)	ADDRESS	4	IEAVRLS2TARGETDURELEASECODE	Release Code Address
12	(C)	ADDRESS	4	IEAVRLS2LINKAGEPTR	Linkage Address

Table 309. Structure IEAVXFR2PARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IEAVXFR2PARMLIST	
0	(0)	ADDRESS	4	IEAVXFR2RETURNCODEPTR	Return Code Address
4	(4)	ADDRESS	4	IEAVXFR2CURRENTDUPAUSEELEMENTTOKENPTR	Pause Element Token Address
8	(8)	ADDRESS	4	IEAVXFR2UPDATEDPAUSEELEMENTTOKENPTR	Updated Pause Element Token Address
12	(C)	ADDRESS	4	IEAVXFR2CURRENTDURELEASECODE	Release Code Address
16	(10)	ADDRESS	4	IEAVXFR2TARGETDUPAUSEELEMENTTOKENPTR	Pause Element Token Address
20	(14)	ADDRESS	4	IEAVXFR2TARGETDURELEASECODE	Release Code Address
24	(18)	ADDRESS	4	IEAVXFR2LINKAGEPTR	Linkage Address

Table 310. Structure IEAVRPI2PARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IEAVRPI2PARMLIST	
0	(0)	ADDRESS	4	IEAVRPI2RETURNCODEPTR	Return Code Address
4	(4)	ADDRESS	4	IEAVRPI2AUTHLEVELPTR	Auth Level Address
8	(8)	ADDRESS	4	IEAVRPI2PAUSEELEMENTTOKENPTR	Pause Element Token Address
12	(C)	ADDRESS	4	IEAVRPI2LINKAGEPTR	Linkage Address
16	(10)	ADDRESS	4	IEAVRPI2OWNERSTOKENPTR	PE owner's STOKEN Address
20	(14)	ADDRESS	4	IEAVRPI2CURRENTSTOKENPTR	Current space's STOKEN Address
24	(18)	ADDRESS	4	IEAVRPI2STATEPTR	Address of PE's state
28	(1C)	ADDRESS	4	IEAVRPI2RELEASECODEPTR	Address of PE's release code if state is Released or Prereleased

Table 311. Structure IEAVPME2PARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IEAVPME2PARMLIST	
0	(0)	ADDRESS	4	IEAVPME2RETURNCODEPTR	
4	(4)	ADDRESS	4	IEAVPME2PETLISTPTR	
8	(8)	ADDRESS	4	IEAVPME2UPDATEDPETLISTPTR	
12	(C)	ADDRESS	4	IEAVPME2RELEASECODELISTPTR	

Table 311. Structure IEAVPME2PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
16	(10)	ADDRESS	4	IEAVPME2NUMBEROFPETSPT	
20	(14)	ADDRESS	4	IEAVPME2NUMBEROFPESTORELEASEPTR	
24	(18)	ADDRESS	4	IEAVPME2LINKAGEPTR	
28	(1C)	ADDRESS	4	IEAVPME2WORKAREAPTR	

Table 312. Structure IEA_PM_RELEASECODELIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IEA_PM_RELEASECODELIST	
0	(0)	BITSTRING	1	IEA_PM_RELEASECODEBYTE0	
		.... ...1		IEA_PM_RELEASECODEINDICATOR	"X'01'" If the Pause multiple return code contains zero then this bit indicates whether the PET represented by this list entry has been Released. If so (the bit is on), then Iea_Pm_ReleaseCode contains the release code for the PET represented by this list entry
1	(1)	BITSTRING	3	IEA_PM_RELEASECODE	Release code

Table 313. Structure IEA4APEPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IEA4APEPARMLIST	
0	(0)	ADDRESS	8	IEA4APERETURNCODEPTR	Return Code Address
8	(8)	ADDRESS	8	IEA4APEAUTHLEVELPTR	Auth Level Address
16	(10)	ADDRESS	8	IEA4APEPAUSEELEMENTTOKENPTR	Pause Element Token Address

Table 314. Structure IEA4DPEPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IEA4DPEPARMLIST	
0	(0)	ADDRESS	8	IEA4DPERETURNCODEPTR	Return Code Address
8	(8)	ADDRESS	8	IEA4DPEAUTHLEVELPTR	Auth Level Address
16	(10)	ADDRESS	8	IEA4DPEPAUSEELEMENTTOKENPTR	Pause Element Token Address

Table 315. Structure IEA4PSEPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IEA4PSEPARMLIST	
0	(0)	ADDRESS	8	IEA4PSERETURNCODEPTR	Return Code Address
8	(8)	ADDRESS	8	IEA4PSEAUTHLEVELPTR	Auth Level Address
16	(10)	ADDRESS	8	IEA4PSECURRENTDUPAUSEELEMENTTOKENPTR	Pause Element Token Address
24	(18)	ADDRESS	8	IEA4PSEUPDATEDPAUSEELEMENTTOKENPTR	

IEAASM mapping

Table 315. Structure IEA4PSEPARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
32	(20)	ADDRESS	8	IEA4PSERELEASECODE	Updated Pause Element Token Address Release Code Address Address

Table 316. Structure IEA4RLSPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IEA4RLSPARMLIST	
0	(0)	ADDRESS	8	IEA4RLSRETURNCODEPTR	Return Code Address
8	(8)	ADDRESS	8	IEA4RLSAUTHLEVELPTR	Auth Level Address
16	(10)	ADDRESS	8	IEA4RLSTARGETDUPAUSEELEMENTTOKENPTR	Pause Element Token Address
24	(18)	ADDRESS	8	IEA4RLSTARGETDURELEASECODE	Release Code Address

Table 317. Structure IEA4XFRPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IEA4XFRPARMLIST	
0	(0)	ADDRESS	8	IEA4XFRRETURNCODEPTR	Return Code Address
8	(8)	ADDRESS	8	IEA4XFRAUTHLEVELPTR	Auth Level Address
16	(10)	ADDRESS	8	IEA4XFRCURRENTDUPAUSEELEMENTTOKENPTR	Pause Element Token Address
24	(18)	ADDRESS	8	IEA4XFRUPDATEDPAUSEELEMENTTOKENPTR	Updated Pause Element Token Address
32	(20)	ADDRESS	8	IEA4XFRCURRENTDURELEASECODE	Release Code Address
40	(28)	ADDRESS	8	IEA4XFRTARGETDUPAUSEELEMENTTOKENPTR	Pause Element Token Address
48	(30)	ADDRESS	8	IEA4XFRTARGETDURELEASECODE	Release Code Address

Table 318. Structure IEA4RPIPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IEA4RPIPARMLIST	
0	(0)	ADDRESS	8	IEA4RPIRETURNCODEPTR	Return Code Address
8	(8)	ADDRESS	8	IEA4RPIAUTHLEVELPTR	Auth Level Address
16	(10)	ADDRESS	8	IEA4RPIPAUSEELEMENTTOKENPTR	Pause Element Token Address
24	(18)	ADDRESS	8	IEA4RPIAUTHORIZATIONPTR	PE creator's authority Address
32	(20)	ADDRESS	8	IEA4RPIOWNERPTR	PE owner's STOKEN Address
40	(28)	ADDRESS	8	IEA4RPISTATEPTR	Address of PE's state
48	(30)	ADDRESS	8	IEA4RPIRELEASECODEPTR	Address of PE's release code if state is Released or Prereleased

Table 319. Structure IEA4TPEPARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IEA4TPEPARMLIST	
0	(0)	ADDRESS	8	IEA4TPERRETURNCODEPTR	Return Code Address
8	(8)	ADDRESS	8	IEA4TPEPAUSEELEMENTTOKENPTR	Pause Element Token Address
16	(10)	ADDRESS	8	IEA4TPESTATEPTR	Address of PE's state
24	(18)	ADDRESS	8	IEA4TPERELEASECODEPTR	Address of PE's release code if state is Released or Prereleased

Table 320. Structure IEA4APE2PARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IEA4APE2PARMLIST	
0	(0)	ADDRESS	8	IEA4APE2RETURNCODEPTR	Return Code Address
8	(8)	ADDRESS	8	IEA4APE2AUTHLEVELPTR	Auth Level Address
16	(10)	ADDRESS	8	IEA4APE2PAUSEELEMENTTOKENPTR	Pause Element Token Address
24	(18)	ADDRESS	8	IEA4APE2PEOWNERSTOKENPTR	Pause Element Owner Stoken Address
32	(20)	ADDRESS	8	IEA4APE2OWNERTERMRELEASECODEPTR	Owner Termination Release Code Address
40	(28)	ADDRESS	8	IEA4APE2LINKAGEPTR	Linkage Address

Table 321. Structure IEA4DPE2PARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IEA4DPE2PARMLIST	
0	(0)	ADDRESS	8	IEA4DPE2RETURNCODEPTR	Return Code Address
8	(8)	ADDRESS	8	IEA4DPE2PAUSEELEMENTTOKENPTR	Pause Element Token Address
16	(10)	ADDRESS	8	IEA4DPE2LINKAGEPTR	Linkage Address

Table 322. Structure IEA4PSE2PARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IEA4PSE2PARMLIST	
0	(0)	ADDRESS	8	IEA4PSE2RETURNCODEPTR	Return Code Address
8	(8)	ADDRESS	8	IEA4PSE2CURRENTDUPAUSEELEMENTTOKENPTR	Pause Element Token Address
16	(10)	ADDRESS	8	IEA4PSE2UPDATEDPAUSEELEMENTTOKENPTR	Updated Pause Element Token Address
24	(18)	ADDRESS	8	IEA4PSE2RELEASECODE	Release Code Address Address
32	(20)	ADDRESS	8	IEA4PSE2LINKAGEPTR	Linkage Address

IEAASM mapping

Table 323. Structure IEA4RLS2PARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IEA4RLS2PARMLIST	
0	(0)	ADDRESS	8	IEA4RLS2RETURNCODEPTR	Return Code Address
8	(8)	ADDRESS	8	IEA4RLS1TARGETDUPAUSEELEMENTTOKENPTR	Pause Element Token Address
16	(10)	ADDRESS	8	IEA4RLS2TARGETDURELEASECODE	Release Code Address
24	(18)	ADDRESS	8	IEA4RLS2LINKAGEPTR	Linkage Address

Table 324. Structure IEA4XFR2PARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IEA4XFR2PARMLIST	
0	(0)	ADDRESS	8	IEA4XFR2RETURNCODEPTR	Return Code Address
8	(8)	ADDRESS	8	IEA4XFR2CURRENTDUPAUSEELEMENTTOKENPTR	Pause Element Token Address
16	(10)	ADDRESS	8	IEA4XFR2UPDATEDPAUSEELEMENTTOKENPTR	Updated Pause Element Token Address
24	(18)	ADDRESS	8	IEA4XFR2CURRENTDURELEASECODE	Release Code Address
32	(20)	ADDRESS	8	IEA4XFR2TARGETDUPAUSEELEMENTTOKENPTR	Pause Element Token Address
40	(28)	ADDRESS	8	IEA4XFR2TARGETDURELEASECODE	Release Code Address
48	(30)	ADDRESS	8	IEA4XFR2LINKAGEPTR	Linkage Address

Table 325. Structure IEA4RPI2PARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IEA4RPI2PARMLIST	
0	(0)	ADDRESS	8	IEA4RPI2RETURNCODEPTR	Return Code Address
8	(8)	ADDRESS	8	IEA4RPI2AUTHLEVELPTR	Auth Level Address
16	(10)	ADDRESS	8	IEA4RPI2PAUSEELEMENTTOKENPTR	Pause Element Token Address
24	(18)	ADDRESS	8	IEA4RPI2LINKAGEPTR	Linkage Address
32	(20)	ADDRESS	8	IEA4RPI2OWNERSTOKENPTR	PE owner's STOKEN Address
40	(28)	ADDRESS	8	IEA4RPI2CURRENTSTOKENPTR	Current space's STOKEN Address
48	(30)	ADDRESS	8	IEA4RPI2STATEPTR	Address of PE's state
56	(38)	ADDRESS	8	IEA4RPI2RELEASECODEPTR	Address of PE's release code if state is Released or Prereleased

Table 326. Structure IEA4PME2PARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IEA4PME2PARMLIST	
0	(0)	ADDRESS	8	IEA4PME2RETURNCODEPTR	
8	(8)	ADDRESS	8	IEA4PME2PETLISTPTR	
16	(10)	ADDRESS	8	IEA4PME2UPDATEDPETLISTPTR	
24	(18)	ADDRESS	8	IEA4PME2RELEASECODELISTPTR	

Table 326. Structure IEA4PME2PARMLIST (continued)

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
32	(20)	ADDRESS	8	IEA4PME2NUMBEROFPETSPTR	
40	(28)	ADDRESS	8	IEA4PME2NUMBEROFPESTORERELEASEPTR	
48	(30)	ADDRESS	8	IEA4PME2LINKAGEPTR	
56	(38)	ADDRESS	8	IEA4PME2WORKAREAPTR	

Table 327. Cross Reference for IEAASM

Name	Offset	Hex Tag
IEA_PM_RELEASECODE	1	
IEA_PM_RELEASECODEBYTE0	0	
IEA_PM_RELEASECODEINDICATOR	0	1
IEA_PM_RELEASECODELIST	0	
IEAVAPEAUTHLEVELPTR	4	
IEAVAPEPARMLIST	0	
IEAVAPEPAUSEELEMENTTOKENPTR	8	
IEAVAPERRETURNCODEPTR	0	
IEAVAPE2AUTHLEVELPTR	4	
IEAVAPE2LINKAGEPTR	14	
IEAVAPE2OWNERTERMRELEASECODEPTR	10	
IEAVAPE2PARMLIST	0	
IEAVAPE2PAUSEELEMENTTOKENPTR	8	
IEAVAPE2PEOWNERSTOKENPTR	C	
IEAVAPE2RETURNCODEPTR	0	
IEAVDPEAUTHLEVELPTR	4	
IEAVDPEPARMLIST	0	
IEAVDPEPAUSEELEMENTTOKENPTR	8	
IEAVDPERRETURNCODEPTR	0	
IEAVDPE2LINKAGEPTR	8	
IEAVDPE2PARMLIST	0	
IEAVDPE2PAUSEELEMENTTOKENPTR	4	
IEAVDPE2RETURNCODEPTR	0	
IEAVPME2LINKAGEPTR	18	
IEAVPME2NUMBEROFPESTORERELEASEPTR	14	
IEAVPME2NUMBEROFPETSPTR	10	
IEAVPME2PARMLIST	0	
IEAVPME2PETLISTPTR	4	
IEAVPME2RELEASECODELISTPTR	C	
IEAVPME2RETURNCODEPTR	0	
IEAVPME2UPDATEDPETLISTPTR	8	
IEAVPME2WORKAREAPTR	1C	
IEAVPSEAUTHLEVELPTR	4	
IEAVPSECURRENTDUPAUSEELEMENTTOKENPTR	8	
IEAVPSEPARMLIST	0	
IEAVPSERELEASECODE	10	
IEAVPSERETURNCODEPTR	0	
IEAVPSEUPDATEDPAUSEELEMENTTOKENPTR	C	
IEAVPSE2CURRENTDUPAUSEELEMENTTOKENPTR	4	
IEAVPSE2LINKAGEPTR	10	
IEAVPSE2PARMLIST	0	

IEAASM mapping

Table 327. Cross Reference for IEAASM (continued)

Name	Offset	Hex Tag
IEAVPSE2RELEASECODE	C	
IEAVPSE2RETURNCODEPTR	0	
IEAVPSE2UPDATEDPAUSEELEMENTTOKENPTR	8	
IEAVRLSAUTHLEVELPTR	4	
IEAVRLSPARMLIST	0	
IEAVRLSRETURNCODEPTR	0	
IEAVRLSTARGETDUPAUSEELEMENTTOKENPTR	8	
IEAVRLSTARGETDURELEASECODE	C	
IEAVRLS1TARGETDUPAUSEELEMENTTOKENPTR	4	
IEAVRLS2LINKAGEPTR	C	
IEAVRLS2PARMLIST	0	
IEAVRLS2RETURNCODEPTR	0	
IEAVRLS2TARGETDURELEASECODE	8	
IEAVRPIAUTHLEVELPTR	4	
IEAVRPIAUTHORIZATIONPTR	C	
IEAVRPIOWNERPTR	10	
IEAVRPIPARMLIST	0	
IEAVRPIPAUSEELEMENTTOKENPTR	8	
IEAVRPIRELEASECODEPTR	18	
IEAVRPIRETURNCODEPTR	0	
IEAVRPISTATEPTR	14	
IEAVRPI2AUTHLEVELPTR	4	
IEAVRPI2CURRENTSTOKENPTR	14	
IEAVRPI2LINKAGEPTR	C	
IEAVRPI2OWNERSTOKENPTR	10	
IEAVRPI2PARMLIST	0	
IEAVRPI2PAUSEELEMENTTOKENPTR	8	
IEAVRPI2RELEASECODEPTR	1C	
IEAVRPI2RETURNCODEPTR	0	
IEAVRPI2STATEPTR	18	
IEAVTPEPARMLIST	0	
IEAVTPEPAUSEELEMENTTOKENPTR	4	
IEAVTPERELEASECODEPTR	C	
IEAVTPERRETURNCODEPTR	0	
IEAVTPESTATEPTR	8	
IEAVXFRAUTHLEVELPTR	4	
IEAVXFRCURRENTDUPAUSEELEMENTTOKENPTR	8	
IEAVXFRCURRENTDURELEASECODE	10	
IEAVXFRPARMLIST	0	
IEAVXFRRETURNCODEPTR	0	
IEAVXFRTARGETDUPAUSEELEMENTTOKENPTR	14	
IEAVXFRTARGETDURELEASECODE	18	
IEAVXFRUPDATEDPAUSEELEMENTTOKENPTR	C	
IEAVXFR2CURRENTDUPAUSEELEMENTTOKENPTR	4	
IEAVXFR2CURRENTDURELEASECODE	C	
IEAVXFR2LINKAGEPTR	18	
IEAVXFR2PARMLIST	0	
IEAVXFR2RETURNCODEPTR	0	
IEAVXFR2TARGETDUPAUSEELEMENTTOKENPTR	10	

Table 327. Cross Reference for IEAASM (continued)

Name	Offset	Hex Tag
IEAVXFR2TARGETDURELEASECODE	14	
IEAVXFR2UPDATEDPAUSEELEMENTTOKENPTR	8	
IEA4APEAUTHLEVELPTR	8	
IEA4APEPARMLIST	0	
IEA4APEPAUSEELEMENTTOKENPTR	10	
IEA4APERRETURNCODEPTR	0	
IEA4APE2AUTHLEVELPTR	8	
IEA4APE2LINKAGEPTR	28	
IEA4APE2OWNERTERMRELEASECODEPTR	20	
IEA4APE2PARMLIST	0	
IEA4APE2PAUSEELEMENTTOKENPTR	10	
IEA4APE2PEOWNERSTOKENPTR	18	
IEA4APE2RETURNCODEPTR	0	
IEA4DPEAUTHLEVELPTR	8	
IEA4DPEPARMLIST	0	
IEA4DPEPAUSEELEMENTTOKENPTR	10	
IEA4DPERRETURNCODEPTR	0	
IEA4DPE2LINKAGEPTR	10	
IEA4DPE2PARMLIST	0	
IEA4DPE2PAUSEELEMENTTOKENPTR	8	
IEA4DPE2RETURNCODEPTR	0	
IEA4PME2LINKAGEPTR	30	
IEA4PME2NUMBEROFPESTORELEASEPTR	28	
IEA4PME2NUMBEROFPEPSPTR	20	
IEA4PME2PARMLIST	0	
IEA4PME2PETLISTPTR	8	
IEA4PME2RELEASECODELISTPTR	18	
IEA4PME2RETURNCODEPTR	0	
IEA4PME2UPDATEDPETLISTPTR	10	
IEA4PME2WORKAREAPTR	38	
IEA4PSEAUTHLEVELPTR	8	
IEA4PSECURRENTDUPAUSEELEMENTTOKENPTR	10	
IEA4PSEPARMLIST	0	
IEA4PSERELEASECODE	20	
IEA4PSERETURNCODEPTR	0	
IEA4PSEUPDATEDPAUSEELEMENTTOKENPTR	18	
IEA4PSE2CURRENTDUPAUSEELEMENTTOKENPTR	8	
IEA4PSE2LINKAGEPTR	20	
IEA4PSE2PARMLIST	0	
IEA4PSE2RELEASECODE	18	
IEA4PSE2RETURNCODEPTR	0	
IEA4PSE2UPDATEDPAUSEELEMENTTOKENPTR	10	
IEA4RLSAUTHLEVELPTR	8	
IEA4RLSPARMLIST	0	
IEA4RLSRETURNCODEPTR	0	
IEA4RLSTARGETDUPAUSEELEMENTTOKENPTR	10	
IEA4RLSTARGETDURELEASECODE	18	
IEA4RLS1TARGETDUPAUSEELEMENTTOKENPTR	8	
IEA4RLS2LINKAGEPTR	18	

IEAASM mapping

Table 327. Cross Reference for IEAASM (continued)

Name	Offset	Hex Tag
IEA4RLS2PARMLIST	0	
IEA4RLS2RETURNCODEPTR	0	
IEA4RLS2TARGETDURELEASECODE	10	
IEA4RPIAUTHLEVELPTR	8	
IEA4RPIAUTHORIZATIONPTR	18	
IEA4RPIOWNERPTR	20	
IEA4RPIPARMLIST	0	
IEA4RPIPAUSEELEMENTTOKENPTR	10	
IEA4RPIRELEASECODEPTR	30	
IEA4RPIRETURNCODEPTR	0	
IEA4RPISTATEPTR	28	
IEA4RPI2AUTHLEVELPTR	8	
IEA4RPI2CURRENTSTOKENPTR	28	
IEA4RPI2LINKAGEPTR	18	
IEA4RPI2OWNERSTOKENPTR	20	
IEA4RPI2PARMLIST	0	
IEA4RPI2PAUSEELEMENTTOKENPTR	10	
IEA4RPI2RELEASECODEPTR	38	
IEA4RPI2RETURNCODEPTR	0	
IEA4RPI2STATEPTR	30	
IEA4TPEPARMLIST	0	
IEA4TPEPAUSEELEMENTTOKENPTR	8	
IEA4TPERELEASECODEPTR	18	
IEA4TPERRETURNCODEPTR	0	
IEA4TPESTATEPTR	10	
IEA4XFRAUTHLEVELPTR	8	
IEA4XFRCURRENTDUPAUSEELEMENTTOKENPTR	10	
IEA4XFRCURRENTDURELEASECODE	20	
IEA4XFRPARMLIST	0	
IEA4XFRRETURNCODEPTR	0	
IEA4XFRTARGETDUPAUSEELEMENTTOKENPTR	28	
IEA4XFRTARGETDURELEASECODE	30	
IEA4XFRUPDATEDPAUSEELEMENTTOKENPTR	18	
IEA4XFR2CURRENTDUPAUSEELEMENTTOKENPTR	8	
IEA4XFR2CURRENTDURELEASECODE	18	
IEA4XFR2LINKAGEPTR	30	
IEA4XFR2PARMLIST	0	
IEA4XFR2RETURNCODEPTR	0	
IEA4XFR2TARGETDUPAUSEELEMENTTOKENPTR	20	
IEA4XFR2TARGETDURELEASECODE	28	
IEA4XFR2UPDATEDPAUSEELEMENTTOKENPTR	10	

Chapter 58. IEAMSYMP Information

IEAMSYMP Programming Interface Information

IEAMSYMP is a programming interface.

IEAMSYMP Heading Information

Common Name: Static Symbol Service Parameter List
Macro ID: IEAMSYMP
DSECT Name: Caller supplied
Owning Component: Supervisor Control (SC1C5)
Eye-Catcher ID: SYMP
Offset: 0
Length: 4
Storage Attributes: Residency: At direction of caller
Size: 128 bytes
Created by: Caller
Pointed to by: Invocation dependant
Serialization: None
Function: IEAMSYMP contains the mapping of the parameters used for communication between IPCS exits and the Static Symbol Service Parameter List.

IEAMSYMP mapping

Table 328. Structure

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		
0	(0)	X'80'	0	BIT0	"128"
0	(0)	X'40'	0	BIT1	"64"
0	(0)	X'20'	0	BIT2	"32"
0	(0)	X'10'	0	BIT3	"16"
0	(0)	X'8'	0	BIT4	"8"
0	(0)	X'4'	0	BIT5	"4"
0	(0)	X'2'	0	BIT6	"2"
0	(0)	X'1'	0	BIT7	"1"

Table 329. Structure SYMP

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SYMP	, IPCS name service parameter list
0	(0)	CHARACTER	1	SYMP000(0)	Begin IEAMSYMP
0	(0)	CHARACTER	6	SYMPID(0)	Static Symbol service parameter identifier
0	(0)	CHARACTER	4	SYMPIDC	SYMP acronym
4	(4)	CHARACTER	1	SYMPIDL	SYMP level indicator Set to '2' if using SYMBOL16 / SUBTEXT44.

IEAMSYMP mapping

Table 329. Structure SYMP (continued)

Offset							
Dec	Hex	Type	Len	Name(Dim)	Description		
5	(5)	CHARACTER	1		Reserved		
6	(6)	CHARACTER	2		Reserved		
8	(8)	CHARACTER	8	SYMPMODN	The name of the module requesting the service		
16	(10)	CHARACTER	8	SYMPSYMBOL	The input SYMBOL to be translated. Used when IDL is "1".		
24	(18)	CHARACTER	12		Reserved		
16	(10)	CHARACTER	16	SYMPSYMBOL16	The 16-byte symbol Used when IDL is "2".		
36	(24)	BITSTRING	2	SYMPFLG(0)	Processing flags		
36	(24)	BITSTRING	1	SYMPFL1	First byte of flags (input)		
		1...		SYMPFNOT	"BIT0" No output requested Set by caller, not housekept		
37	(25)	BITSTRING	1	SYMPFL2	Second byte of flags (output)		
		1...		SYMPSYMBOLNOTFOUND	"BIT0" Requested Symbol not found		
		.1..		SYMPSYSTEMDEFINED	"BIT1" System defined symbol		
		..1.		SYMPMISSINGSTORAGE	"BIT2" Missing storage		
		...1		SYMPLOGICALERROR	"BIT3" Logical Error In Data		
38	(26)	CHARACTER	10	SYMPSUBTEXT	The output Subtext. Used when IDL is "1".		
48	(30)	CHARACTER	12		Reserved		
60	(3C)	SIGNED	4	SYMPSUBTEXTLENGTH	Length of Subtext		
64	(40)	SIGNED	4	SYMPSYMBOLNUMBER	Position of symbol in Table		
68	(44)	SIGNED	4	SYMPTOTALSYMBOLS	Total number of symbols in Table		
72	(48)	ADDRESS	4	SYMPRBAD	Reference Block Address		
76	(4C)	BITSTRING	44	SYMPSUBTEXT44	The output Subtext. Used when IDL is "2".		
120	(78)	BITSTRING	8		Reserved		
128	(80)	CHARACTER	1	SYMP999(0)	End IEAMSYMP		

Table 330. Cross Reference for IEAMSYMP

Name	Offset	Hex Tag
BIT0	0	80
BIT1	0	40
BIT2	0	20
BIT3	0	10
BIT4	0	8
BIT5	0	4
BIT6	0	2
BIT7	0	1
SYMP	0	
SYMPFNOT	24	80
SYMPID	0	
SYMPIDC	0	E2E8D4D7
SYMPIDL	4	F1
SYMPLOGICALERROR	25	10
SYMPMISSINGSTORAGE	25	20
SYMPMODN	8	40404040

Table 330. Cross Reference for IEAMSYMP (continued)

Name	Offset	Hex Tag
SYMPFLG	24	
SYMPFL1	24	0
SYMPFL2	25	0
SYMPBAD	48	
SYMPSTEXT	26	40404040
SYMPSTEXTLENGTH	3C	0
SYMPSTEXT44	4C	0
SYMPSYMBOL	10	40404040
SYMPSYMBOLNOTFOUND	25	80
SYMPSYMBOLNUMBER	40	0
SYMPSYMBOL16	10	40404040
SYMPSYSTEMDEFINED	25	40
SYMPTOTALSYMBOLS	44	0
SYMP000	0	
SYMP999	80	

IEAMSYMP mapping

Chapter 59. IEANTASM Information

IEANTASM Programming Interface Information

IEANTASM is a programming interface.

IEANTASM Heading Information

Common Name: Name/Token Service Assembler Declares
Macro ID: IEANTASM
DSECT Name: N/A
Owning Component: Supervisor Control (SC1C5)
Eye-Catcher ID: N/A
Offset: N/A
Length: N/A
Storage Attributes: Main Storage: N/A
Virtual Storage: N/A
Auxiliary Storage: N/A
Subpool: N/A
Key: N/A
Data Space: N/A
Residency: N/A
Size: N/A
Created by: N/A
Pointed to by: N/A
Serialization: N/A
Function: IEANTASM defines types, related constants, and external entry declarations for the use of Name Token/Services from 390 Assembly Language

IEANTASM mapping

Table 331. Structure

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

IEANTASM mapping

Table 331. Structure (continued)

Offset	Offset		Len	Name(Dim)	Description
Dec	Hex	Type			
		START OF SPECIFICATIONS			
		PROPRIETARY_STATEMENT			
01		PROPRIETARY-STATEMENT			
		LICENSED MATERIALS - PROPERTY OF IBM			
		THIS MACRO IS "RESTRICTED MATERIALS OF IBM"			
		5694-A01 (C) COPYRIGHT IBM CORP. 1991,2002			
		END_OF_PROPRIETARY_STATEMENT			
01		Status: HBB7706			
01		Descriptive Name: Name/Token Service Assembler Declares			
02		Acronym: N/A			
01		Macro-name: IEANTASM			
01		DSECT-name: N/A			
01		Component: Supervisor Control (SC1C5)			
01		External Classification: GUPI			
01		End of External Classification:			
01		Eye-catcher: N/A			
02		Offset: N/A			
02		Length: N/A			
01		Storage-attributes: N/A			
02		Main-Storage: N/A			
02		Virtual-Storage: N/A			
02		Auxiliary-Storage: N/A			
02		Subpool: N/A			
02		Key: N/A			
02		Data-space: 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:			
02		IEANTASM defines types, related constants, and external entry declarations for the use of Name Token/Services from 390 Assembly Language			
01		Method-of-access:			
02		Include IEANTASM			
01		Notes:			
		The Name/Token services do not use a null character to terminate strings. All of the services expect name and token data to be a fixed-length 16-byte type. Name data cannot begin with or be composed entirely of null characters. However, token data may be any valid hex or EBCDIC string including null characters.			
01		Change-Activity:			
		\$L0=TOKEN, JBB4422, 910308, PD16JV: Name/Token Support			
		\$P1=PKI0261, JBB4422, 910517, PD16JV: Authorized levels			
		\$P2=PKI0302, JBB4422, 910621, PD16JV: Copyright info			
		\$P3=PKB0276, HBB4430, 920108, PD16CU: Convert to a macro			
		\$L1=R69885 HBB7703, 991010, PD00XB: Checkpoint support			
		END OF SPECIFICATIONS			
		Fixed Service Parameter and Return Code Defines			
		Name/Token Level Constants			
0	(0)	X'1'	0	IEANT_TASK_LEVEL	"1"
0	(0)	X'2'	0	IEANT_HOME_LEVEL	"2"
0	(0)	X'3'	0	IEANT_PRIMARY_LEVEL	"3"
0	(0)	X'4'	0	IEANT_SYSTEM_LEVEL	"4"
0	(0)	X'B'	0	IEANT_TASKAUTH_LEVEL	"11"
0	(0)	X'C'	0	IEANT_HOMEAUTH_LEVEL	"12"
0	(0)	X'D'	0	IEANT_PRIMARYAUTH_LEVEL	"13"

Table 331. Structure (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
Name/Token Persistence						
0	(0)	X'0'		0	IEANT_NOPERSIST	"0"
0	(0)	X'1'		0	IEANT_PERSIST	"1"
Name/Token Checkpoint						
0	(0)	X'0'		0	IEANT_NOCHECKPOINT	"0"
0	(0)	X'2'		0	IEANT_CHECKPOINTOK	"2"
Service Return Codes						
0	(0)	X'0'		0	IEANT_OK	"0"
0	(0)	X'4'		0	IEANT_DUP_NAME	"4"
0	(0)	X'4'		0	IEANT_NOT_FOUND	"4"
0	(0)	X'8'		0	IEANT_24BITMODE	"8"
0	(0)	X'10'		0	IEANT_NOT_AUTH	"16"
0	(0)	X'14'		0	IEANT_SRB_MODE	"20"
0	(0)	X'18'		0	IEANT_LOCK_HELD	"24"
0	(0)	X'1C'		0	IEANT_LEVEL_INVALID	"28"
0	(0)	X'20'		0	IEANT_NAME_INVALID	"32"
0	(0)	X'24'		0	IEANT_PERSIST_INVALID	"36"
0	(0)	X'28'		0	IEANT_AR_INVALID	"40"
0	(0)	X'2C'		0	IEANT_NOT_AMODE64	"44"
0	(0)	X'40'		0	IEANT_UNEXPECTED_ERR	"64"
End of Name/Token Services Include						

Table 332. Cross Reference for IEANTASM

Name	Offset	Hex Tag
IEANT_AR_INVALID	0	28
IEANT_CHECKPOINTOK	0	2
IEANT_DUP_NAME	0	4
IEANT_HOME_LEVEL	0	2
IEANT_HOMEAUTH_LEVEL	0	C
IEANT_LEVEL_INVALID	0	1C
IEANT_LOCK_HELD	0	18
IEANT_NAME_INVALID	0	20
IEANT_NOCHECKPOINT	0	0
IEANT_NOPERSIST	0	0
IEANT_NOT_AMODE64	0	2C
IEANT_NOT_AUTH	0	10
IEANT_NOT_FOUND	0	4
IEANT_OK	0	0
IEANT_PERSIST	0	1
IEANT_PERSIST_INVALID	0	24
IEANT_PRIMARY_LEVEL	0	3
IEANT_PRIMARYAUTH_LEVEL	0	D
IEANT_SRB_MODE	0	14
IEANT_SYSTEM_LEVEL	0	4
IEANT_TASK_LEVEL	0	1
IEANT_TASKAUTH_LEVEL	0	B

IEANTASM mapping

Table 332. Cross Reference for IEANTASM (continued)

Name	Offset	Hex Tag
IEANT_UNEXPECTED_ERR	0	40
IEANT_24BITMODE	0	8

Chapter 60. IECDPIRL Information

IECDPIRL Programming Interface Information

ONLY the following fields are part of the programming interface information:

- PIRCNT
- PIRDVRU
- PIROPT
- PIRRSTR

IECDPIRL Heading Information

Common Name: Purge I/O Restore List
Macro ID: IECDPIRL
DSECT Name: PIRL
Owning Component: IOS (SC1C3)
Eye-Catcher ID: 'PRL'
Offset: PIRLTAIL +0
Length: 3
Storage Attributes: Subpool: 254
Key: 0
Residency: Below 16M
Size: Variable. Depends on the number of entries.
PIRLHEAD -- X'0004' bytes
PIRLLEN -- X'0008' bytes per entry
PIRLTAIL -- X'000C' bytes
Created by: IOS Purge Processing
Pointed to by: IPIBPIRL field of the IPIB
DEBUSRPG field of the IEZDEB data area.
ASXBPIRL field of the ASXB data area.
PIRLNEXT field of the PIRL data area.
Serialization: Local Lock
Function: Describes the purged I/O restore list used by the
I/O purge services. For use with EXCP.

IECDPIRL mapping

Table 333. Structure PIRL

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PIRL	
0	(0)	CHARACTER	4	PIRLHEAD(0)	Header
0	(0)	BITSTRING	1	PIROPT	Restore option byte
1	(1)	BITSTRING	1	PIRCNT	Number of PIRRSTR entries
2	(2)	SIGNED	2		Reserved - must be 0
4	(4)	CHARACTER	8	PIRLLEN(0)	PIRL entries. PIRCNT contains the number of entries
4	(4)	ADDRESS	4	PIRRSTR	Pointer to I/O Request list for each IOS driver

IECDPIRL mapping

Table 333. Structure PIRL (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
8	(8)	ADDRESS		4	PIRDVRU	Pointer to additional information the driver maintains to insure the proper restoration of its queue of requests (E.G. protect keys, TCB addresses, etc)
12	(C)	CHARACTER		1	PIREND(0)	End of PIRL
12	(C)	X'C'		0	PIRL_LEN	"*-PIRL"

Table 334. Structure PIRLTAIL

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
0	(0)	STRUCTURE		0	PIRLTAIL	PIRL tail
0	(0)	CHARACTER		3	PIRLEYE	Eyecatcher
3	(3)	BITSTRING		1	PIRLCNT	Copy of PRLCNT
4	(4)	ADDRESS		4	PIRLNEXT	Pointer to next PIRL on the queue
8	(8)	ADDRESS		4	PIRLTCB	Task associated with this PIRL
PIROPT bit definitions						
		1... ..			PIROTCB	"X'80'" Restore request to the originating TCB instead of the restoring TCB
		.1.. ..			PIRSUPCK	"X'40'" Do TCB validity check regardless of the state of the caller
PIRL Constants						
8	(8)	X'D7D9D3'		0	PIRLEYEC	"C'PRL'" Eyecatcher for PIRLEYE
8	(8)	X'8'		0	PIRENTL	"8" Length of a PIRL entry
8	(8)	X'C'		0	PIRLTAIL_LEN	"*-PIRLTAIL"

Table 335. Cross Reference for IECDPIRL

Name	Offset	Hex	Tag
PIRCNT	1		
PIRDVRU	8		
PIREND	C		
PIRENTL	8		8
PIRL	0		
PIRL_LEN	C		C
PIRLCNT	4		
PIRLEYE	0		
PIRLEYEC	8	D7D9D3	
PIRLHEAD	0		
PIRLNEXT	4		
PIRLTAIL	0		
PIRLTAIL_LEN	8		C
PIRLTCB	8		
PIRLCNT	3		
PIROPT	0		

Table 335. Cross Reference for IECDPIRL (continued)

Name	Offset	Hex Tag
PIROTCB	8	80
PIRRSTR	4	
PIRSUPCK	8	40

IECDPIRL mapping

Chapter 61. IECDPPL Information

IECDPPL Programming Interface Information

IECDPPL is a programming interface.

IECDPPL Heading Information

Common Name: Purge Parameter List
 Macro ID: IECDPPL
 DSECT Name: PPL
 Owning Component: IOS (SC1C3)
 Eye-Catcher ID: None
 Storage Attributes: Subpool: Caller
 Key: Key of Caller
 Residency: Above or Below
 Size: 16 bytes
 Created by: Issuers of the PURGE macro
 Pointed to by: N/A
 Serialization: None
 Function: This DSECT describes the control block containing all the information necessary to do I/O purging (both halt and quiesce requests).

IECDPPL mapping

Table 336. Structure PPL

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	0	PPL	
0	(0)	SIGNED	4	PPLDSID(0)	SAME COMMENTS AS PPLDSIDA
0	(0)	BITSTRING	1	PPLOPT1	OPTION BYTE ONE
		1... ..		PPLDS	"X'80'" IF DSID PURGE REQUESTED (BIT 6), PURGE A SINGLE DSID (SEE PPLDSID). IF ZERO, DSID LIST PURGE.
		.1.. ..		PPLPOST	"X'40'" ECBS ASSOCIATED WITH THE I/O REQUESTS PURGED SHOULD BE POSTED WITH X'48'
		..1.		PPLHIO	"X'20'" HALT THE I/O REQUESTS AND DO NOT BUILD A PIRL.
		...1		PPLREL	"X'10'" PURGE ONLY THE I/O REQUESTS MARKED RELATED AND ASSOC WITH THE ARGUMENT
		.... 1...		PPLNPPL	"X'08'" INDICATOR THAT NEW PPL IS BEING USED AND THUS SHOULD BE ZERO
		.... .1..		PPLRB	"X'04'" DO NOT PURGE THE RB CHAIN FOR ASYNCHRONOUSLY SCHEDULED ROUTINES
		.... ..1.		PPLTASK	"X'02'" IF ASID PURGE IS NOT SPECIFIED PURGE A SINGLE TCB

IECDPPL mapping

Table 336. Structure PPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ...1		PPLXR	"X'01'" OPTION BYTE 2 IS PRESENT AND CONTAINS VALID INFORMATION
1	(1)	ADDRESS	3	PPLDSIDA	3 BYTE POINTER TO DSID ARG. IT MUST POINT TO A CONTROL BLOCK THAT HAS THE FOLLOWING FIELDS: MINUS 2 - TWO BYTE DSID VALIDITY INDEX PLUS 5 - THREE BYTE ADDRESS OF NEXT DSID OR ZERO ADDRESS OF TCB TO BE USED TO FIND THE I/O REQUESTS IF NO SUPPLIED, THE CURRENT TCB ADDRESS WILL BE USED.
4	(4)	SIGNED	4	PPLTCB(0)	PURGE COMPLETION CODE '7F' SUCCESSFUL COMPLETION '40' UNSUCCESSFUL COMPLETION SEE REG 15 FOR DETAILS NOTE: ALWAYS '7F' IF PPLXR=0.
4	(4)	BITSTRING	1	PPLCC	SEE DESCRIPTION FOR PPLTCB USED TO FIND THE I/O REQUESTS IF NOT SUPPLIED, THE CURRENT TCB ADDRESS WILL BE USED.
5	(5)	ADDRESS	3	PPLTCBA	3 BYTE ADDRESS OF THE ANCHOR FROM WHICH THE PURGED I/O REQUEST LIST WILL BE CHAINED.
8	(8)	SIGNED	4	PPLPIRL(0)	DRIVER ID -- REQUIRED DCRR 21082 FOR DSID PURGE REQUESTS DCRR 21082 DEFAULT VALUE OF X'00' DCRR 21082 IMPLIES EXCP IS OWNER DCRR 21082
8	(8)	BITSTRING	1	PPLDVRID	SEE DESCRIPTION FOR PPLPIRL
9	(9)	ADDRESS	3	PPLPIRLA	OPTION BYTE 2. OPTIONALLY PRESENT DEPENDING ON BIT 7 OF OPTION BYTE 1.
12	(C)	BITSTRING	1	PPLOPT2	"X'80'" CANCEL COMMAND REQUEST BYPASS SMGR CALL
		1...		PPLCAN	"X'20'" ASID PURGE SPECIFIED. THIS OPTION MAY BE SPECIFIED ONLY BY A REQUESTOR THAT IS IN SUPERVISOR STATE.
		..1.		PPLMEM	"X'10'" BYPASS VALIDITY CHECK 0 - BYPASS VALIDITY CHECK - SUPERVISOR STATE ONLY 1 - VALIDITY CHECK
		...1		PPLVC	"X'08'" PURGE ALL REQUESTS SO THAT WHEN RESTORED THEY CAN BE ASSOCIATED WITH THE TCB THAT ORIGINATED THEM.
		.... 1...		PPLOTCB	"X'04'" PURGE CALLED BY TASK TERMINATION. IF QUIESCE OPTION AND ANY I/O REQUESTS ENCOUNTERED, PURGE WILL NOT ISSUE WAIT.
		.... .1..		PPLTSKM	"X'02'" BYPASS STATUS START SRB - VALID ONLY FOR RCT CALL FOR MEMORY SWAP
		.... ...1.		PPLBSS	

Table 336. Structure PPL (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
	1		PPLUCB	"X'01'" PURGE DSID BY UCB ONLY WHEN THIS BIT IS ON ONLY REQUESTS FOR SPECIFIED UCB WILL BE PURGED.
13		(D)	BITSTRING	1		RESERVED AND SHOULD BE ZERO
14		(E)	SIGNED	2	PPLASID(0)	ASID OF ADDRESS SPACE TO WHICH I/O REQUESTS ARE ASSOCIATED.
14		(E)	SIGNED	2	PPLOFSET	OFFSET OF UCB WITHIN THE DEB FOR PURGE BY UCB ONLY.

Table 337. Cross Reference for IECDPPL

Name	Offset	Hex	Tag
PPL	0		
PPLASID	E		
PPLBSS	C	2	
PPLCAN	C	80	
PPLCC	4		
PPLDS	0	80	
PPLDSID	0		
PPLDSIDA	1		
PPLDVRID	8		
PPLEXR	0	1	
PPLHIO	0	20	
PPLMEM	C	20	
PPLNPPL	0	8	
PPLOFSET	E		
PPLOPT1	0		
PPLOPT2	C		
PPLOTCB	C	8	
PPLPIRL	8		
PPLPIRLA	9		
PPLPOST	0	40	
PPLRB	0	4	
PPLREL	0	10	
PPLTASK	0	2	
PPLTCB	4		
PPLTCBA	5		
PPLTSKM	C	4	
PPLUCB	C	1	
PPLVC	C	10	

IECDPPL mapping

Chapter 62. IECDRQEX Information

IECDRQEX Heading Information

Common Name: RQEX - EXCP Request Queue Element Extension
 Macro ID: IECDRQEX
 DSECT Name: RQEX
 Owing Component: Execute Channel Program Processor (SC1C6)
 Eye-Catcher ID: RQEX
 Offset: 0
 Length: 4
 Storage Attributes: Key: 0
 Size: 40 bytes
 Created by: IECVEXCP
 Pointed to by: User defined
 Serialization: None
 Function: This DSECT describes the control block used as an extension to the request queue element (RQE). With the RQE, this control block contains all the information necessary to initiate and terminate I/O requests within the EXCP processor.

IECDRQEX mapping

Table 338. Structure RQEX

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	40	RQEX	EXCP Request Queue Element Extension.
0	(0)	CHARACTER	4	RQEXID	Eye catcher RQEX.
4	(4)	UNSIGNED	1	RQEXVERN	Version number.
5	(5)	CHARACTER	3	*	Reserved.
8	(8)	ADDRESS	4	RQEXCPSE	Address of the channel program scan exit.
12	(C)	ADDRESS	4	RQEXXCPS	Address of the channel program scan exit data area (XCPS).
16	(10)	ADDRESS	4	RQEXFIX	Address of the fix list returned by the page fix appendage for EXCPVR requests. Valid only if RQEFIXST is on. If the high order bit is on, a page fix or page free is in progress.
		1...		RQEX_FIXFREE_INPROG	A page fix or page free request is in progress
20	(14)	UNSIGNED	4	RQEXTSV1	Temporary save area
24	(18)	CHARACTER	16	*	Reserved.

Table 339. Constants for IECDRQEX

Len	Type	Value	Name	Description
4	CHARACTER	RQEX	RQEXIDC	Eye catcher constant.
1	DECIMAL	1	RQEXVERC	Version number constant.
1	DECIMAL	40	RQEXLNTH	Length constant.

IECDRQEX mapping

Table 340. Cross Reference for IECDRQEX

Name	Offset	Hex Tag
RQEX	0	
RQEX_FIXFREE_INPROG	10	80
RQEXCPSE	8	
RQEXFIX	10	
RQEXID	0	
RQEXTSV1	14	
RQEXVERN	4	
RQEXXCPS	C	

Chapter 63. IEDB Information

IEDB Programming Interface Information

IEDB is a programming interface.

IEDB Heading Information

Common Name: I/O Error Data Block
Macro ID: IOSDIEDB
DSECT Name: IOSDIEDB
Owning Component: I/O Supervisor (SC1C3)
Eye-Catcher ID: IEDB
Offset: 0
Length: 4
Storage Attributes: Subpool: User
Key: User
Data Space: No
Residency: Any
Size: 48 or 96 bytes
Created by: Issuer of EXCP or STARTIO
Pointed to by: IOBEIEDB for EXCP or STARTIO
Serialization: None
Function: The IEDB is an optional control block used by users of EXCP or of the I/O driver interface. EXCP uses this block to save error data related to an EXCP request. This data is obtained from the ERP Work Area (EWA). I/O drivers may use this for the same reason, i.e., to save data from one exit to another even after the EWA has been freed. However, like EXCP, the I/O driver's normal or abnormal exit is expected to set the data in this field from the EWA. IOS does not provide this data for the user.
The IEDB can be either 48 or 96 bytes in length. If a 48 byte IEDB is provided, the version number must be set to one (IEDBVRSC). If a 96 byte IEDB is provided, the version number must be set to two (IEDBVRSC2).

IEDB mapping

Table 341. Structure IEDB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IEDB	I/O Error Data Block
0	(0)	CHARACTER	4	IEDBID	Eye catcher. Must be IEDB.
4	(4)	BITSTRING	1	IEDBVERS	Version number.
5	(5)	BITSTRING	1	IEDBFLG1	Flags field.
		1...		IEDBBDSN	"X'80'" The sense data was determined to be invalid and contains '10FE'x.
		.1..		IEDBFSAV	"X'40'" The failing storage address in IEDBFSA is valid

IEDB mapping

Table 341. Structure IEDB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
	EQU X'20'	Reserved			
	EQU X'10'	Reserved			
	EQU X'08'	Reserved			
	EQU X'04'	Reserved			
	EQU X'02'	Reserved			
	EQU X'01'	Reserved			
6	(6)	CHARACTER	1	IEDBCOD	I/O completion code field. This is the original completion code prior to EXCP changing it.
7	(7)	CHARACTER	1		Reserved.
8	(8)	CHARACTER	32	IEDBSNS(0)	Sense data.
8	(8)	CHARACTER	1	IEDBSN00	Sense byte 0.
9	(9)	CHARACTER	1	IEDBSN01	Sense byte 1.
10	(A)	CHARACTER	1	IEDBSN02	Sense byte 2.
11	(B)	CHARACTER	1	IEDBSN03	Sense byte 3.
12	(C)	CHARACTER	1	IEDBSN04	Sense byte 4.
13	(D)	CHARACTER	1	IEDBSN05	Sense byte 5.
14	(E)	CHARACTER	1	IEDBSN06	Sense byte 6.
15	(F)	CHARACTER	1	IEDBSN07	Sense byte 7.
16	(10)	CHARACTER	1	IEDBSN08	Sense byte 8.
17	(11)	CHARACTER	1	IEDBSN09	Sense byte 9.
18	(12)	CHARACTER	1	IEDBSN10	Sense byte 10.
19	(13)	CHARACTER	1	IEDBSN11	Sense byte 11.
20	(14)	CHARACTER	1	IEDBSN12	Sense byte 12.
21	(15)	CHARACTER	1	IEDBSN13	Sense byte 13.
22	(16)	CHARACTER	1	IEDBSN14	Sense byte 14.
23	(17)	CHARACTER	1	IEDBSN15	Sense byte 15.
24	(18)	CHARACTER	1	IEDBSN16	Sense byte 16.
25	(19)	CHARACTER	1	IEDBSN17	Sense byte 17.
26	(1A)	CHARACTER	1	IEDBSN18	Sense byte 18.
27	(1B)	CHARACTER	1	IEDBSN19	Sense byte 19.
28	(1C)	CHARACTER	1	IEDBSN20	Sense byte 20.
29	(1D)	CHARACTER	1	IEDBSN21	Sense byte 21.
30	(1E)	CHARACTER	1	IEDBSN22	Sense byte 22.
31	(1F)	CHARACTER	1	IEDBSN23	Sense byte 23.
32	(20)	CHARACTER	1	IEDBSN24	Sense byte 24.
33	(21)	CHARACTER	1	IEDBSN25	Sense byte 25.
34	(22)	CHARACTER	1	IEDBSN26	Sense byte 26.
35	(23)	CHARACTER	1	IEDBSN27	Sense byte 27.
36	(24)	CHARACTER	1	IEDBSN28	Sense byte 28.
37	(25)	CHARACTER	1	IEDBSN29	Sense byte 29.
38	(26)	CHARACTER	1	IEDBSN30	Sense byte 30.
39	(27)	CHARACTER	1	IEDBSN31	Sense byte 31.
40	(28)	CHARACTER	4		Reserved for future CSW expansion

Table 341. Structure IEDB (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
44	(2C)	SIGNED		4	IEDB2CSW	If the I/O requestor allowed prefetching of CCWs and data (IOBEP/IOBP) and specified that it wants to see both the channel and CU ending CCW address for errors that occur when the CU executes ahead of the channel and the 2nd CCW address is valid, this field contains the virtual CCW address of the last CCW executed by the control unit
44	(2C)	X'30'		0	IEDBEND	"*" End of version 1 IEDB
44	(2C)	X'30'		0	IEDBLNTH	"IEDBEND-IEDB" Length of version 1 IEDB
48	(30)	SIGNED		4	IEDB2(0)	Start of version 2 IEDB
48	(30)	BITSTRING		8	IEDBFSA(0)	Failing storage address (FSA)
48	(30)	SIGNED		4	IEDBFSAH	High order word of FSA
52	(34)	SIGNED		4	IEDBFSAH	Low order word of FSA
56	(38)	BITSTRING		40	IEDB2RSV	Reserved
56	(38)	X'60'		0	IEDB2END	"*" End of version 2 IEDB
56	(38)	X'60'		0	IEDB2LEN	"IEDB2END-IEDB" Length of version 2 IEDB
56	(38)	X'1'		0	IEDBVRSC	"1" Version number 1
56	(38)	X'2'		0	IEDBVRS2	"2" Version number 2

Table 342. Cross Reference for IEDB

Name	Offset	Hex Tag
IEDB	0	
IEDBBDSN	5	80
IEDBCOD	6	
IEDBEND	2C	30
IEDBFLG1	5	
IEDBFSA	30	
IEDBFSAH	30	
IEDBFSAH	34	
IEDBFSAV	5	40
IEDBID	0	
IEDBLNTH	2C	30
IEDBSNS	8	
IEDBSN00	8	
IEDBSN01	9	
IEDBSN02	A	
IEDBSN03	B	
IEDBSN04	C	
IEDBSN05	D	
IEDBSN06	E	
IEDBSN07	F	
IEDBSN08	10	
IEDBSN09	11	
IEDBSN10	12	

IEDB mapping

Table 342. Cross Reference for IEDB (continued)

Name	Offset	Hex Tag
IEDBSN11	13	
IEDBSN12	14	
IEDBSN13	15	
IEDBSN14	16	
IEDBSN15	17	
IEDBSN16	18	
IEDBSN17	19	
IEDBSN18	1A	
IEDBSN19	1B	
IEDBSN20	1C	
IEDBSN21	1D	
IEDBSN22	1E	
IEDBSN23	1F	
IEDBSN24	20	
IEDBSN25	21	
IEDBSN26	22	
IEDBSN27	23	
IEDBSN28	24	
IEDBSN29	25	
IEDBSN30	26	
IEDBSN31	27	
IEDBVERS	4	
IEDBVRSC	38	1
IEDBVRS2	38	2
IEDB2	30	
IEDB2CSW	2C	
IEDB2END	38	60
IEDB2LEN	38	60
IEDB2RSV	38	

Chapter 64. IEEMRCPT Information

IEEMRCPT Programming Interface Information

IEEMRCPT is a programming interface.

IEEMRCPT Heading Information

Common Name: Reconfiguration Pointer Table
Macro ID: IEEMRCPT
DSECT Name: RCPT
Owning Component: MP reconfiguration (SC1CZ)
Eye-Catcher ID: RCPT
Offset: 0
Length: 4
Storage Attributes: Subpool: 245
Key: 0
Size: 832 bytes
Created by: IEEVCPRA
Pointed to by: CSDRCPT field of the CSD data area.
Serialization: None
Function: Contains the addresses for the LCCA, LCCX and PCCA for each CPU configured offline by WLM.

IEEMRCPT mapping

Table 343. Structure RCPT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	RCPT	
0	(0)	CHARACTER	4	RCPTRCPT	Eye catcher RCPT
4	(4)	CHARACTER	60		Reserved
64	(40)	BITSTRING	1	RCPT_ARRAY(0)	Array of data associated with CPUs

Table 344. Structure RCPT_VT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	RCPT_VT	Addresses of LCCA, LCCX and PCCA for CPUs 1 to CVTMAXMP+1
0	(0)	ADDRESS	4	RCPT_LCCA	LCCA pointer
4	(4)	ADDRESS	4	RCPT_LCCX	LCCX pointer
8	(8)	ADDRESS	4	RCPT_PCCA	PCCA pointer

IEEMRCPT mapping

Chapter 65. IEESMCX Information

IEESMCX Heading Information

Common Name: SMF CONTROL TABLE EXTENSION
 Macro ID: IEESMCX
 DSECT Name: SMCX
 Owing Component: SYSTEM MANAGEMENT FACILITIES (SC100)
 Eye-Catcher ID: "SMCX"
 Offset: 0 ('0' in hex)
 Length: 4 bytes
 Storage Attributes: Subpool: 245
 Key: 0
 Residency: Above
 Size: 128 bytes ('80' in hex)
 FREQUENCY = 1 per MVS system
 Created by: IFASTART
 Pointed to by: SMCASMCX
 Serialization: None
 Function: Extended communications area used to hold data
 by SMF or other MVS components

IEESMCX mapping

Table 345. Structure SMCX

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	184	SMCX	
0	(0)	CHARACTER	4	SMCXID	SMCX CONTROL BLOCK ID - "SMCX"
4	(4)	SIGNED	2	SMCXLVL	SMCX CONTROL BLOCK LEVEL INDICATOR
6	(6)	SIGNED	2	SMCXLEN	SMCX CONTROL BLOCK LENGTH
8	(8)	CHARACTER	8	SMCXINTV	GLOBAL INTERVAL VALUE (TOD FORMAT)
16	(10)	CHARACTER	8	SMCXSYNV	GLOBAL INTERVAL SYNC VALUE (TOD FORMAT)
24	(18)	CHARACTER	2	SMCXINTP	INTVAL PARM VALUE (CHARACTER FORMAT)
26	(1A)	CHARACTER	2	SMCXSNP	SYNCVAL PARM VALUE (CHARACTER FORMAT)
28	(1C)	CHARACTER	8	SMCXINTE	TOD FORMAT OF THE NEXT SCHEDULED GLOBAL SYNCHED INTERVAL EXPIRATION
36	(24)	ADDRESS	4	SMCXINTT	POINTER TO THE GLOBAL INTERVAL TQE
40	(28)	ADDRESS	4	SMCXENFP	POINTER TO ENF PARAMETER LIST AREA
44	(2C)	ADDRESS	4	SMCXDFRQ	ADDRESS OF THE DEFERRED INTERVAL STQE CHAIN
48	(30)	ADDRESS	4	SMCX824A	Address of IEEMB824
52	(34)	CHARACTER	4	SMCXBIT1	BIT INDICATOR MASK (WORD 1)

IEESMCX mapping

Table 345. Structure SMCX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		SMCXSPDB	SYNC PROCESSING DISABLED INDICATOR
		.1..		SMCXEXCP	SUPPRESS EMPTY EXCP FLAG
		..1.		SMCXWFLD	1-IFALSWTR is currently performing SMF Flood Automation processing
		...1		SMCXRFER	1-No successful flood policy updates have been made since the last failure
		.... 1...		SMCXFTST	1-SMF Record flooding has been disabled due to errors
56	(38)	.... .1.. ADDRESS	4	SMCXEXPT	Processor capacity change ADDRESS OF INTEXPT RTN IN IEEMB839
60	(3C)	ADDRESS	4	SMCX839A	POINTER TO IEEMB839 WORK AREA
Variables Used to Process MEMLIMIT Keyword in IEEMB821					
64	(40)	CHARACTER	8	SMCXMEML	MEMLIMIT converted to M-BYTES in HEX
72	(48)	CHARACTER	6	SMCXMEM	MEMLIMIT in EBCDIC
72	(48)	CHARACTER	5	SMCXMEMD	First 5 characters of MEMLIMIT as entered in SMFPRMxx - digits 0-9
77	(4D)	CHARACTER	1	SMCXMEMU	Last character of MEMLIMIT - units M, G, T or P as entered in SMFPRMxx
78	(4E)	SIGNED	2	SMCX_SPEEDCHANGESEQ#	Used to tell if end-interval processing needs to be done due to a concurrent speed-change that occurred
80	(50)	ADDRESS	4	SMCXFLDTABLEPTR	SMF Flood Table
84	(54)	ADDRESS	4	SMCXPCWT	pointer to IFAPCWTR
88	(58)	CHARACTER	1	SMCXLSBT	Log Stream bits
		1...		SMCXLSDS	1-LogStream or 0-ManX/Y output 0 - if RECORDING(DATASET) parameter is processed 1 - if RECORDING(LOGSTREAM) parameter is processed
		.1..		SMCX_LOGGER_RESTARTED	ON indicates that Logger has restarted after having been unavailable. Set to ON by IFALSENF, set to OFF by IFALSMOD.
		..1.		SMCXLMOD	1-IFALSMOD was ACTIVE The bit is set to ON once and forever if IFALSMOD even once received control. (It is needed while IPLing to know were logstream parameters processed or not)
89	(59)	CHARACTER	1	*	RESERVED (Can be used later)
90	(5A)	UNSIGNED	2	SMCXSMFRESTARTS	Number of times SMF address space has been restarted
92	(5C)	ADDRESS	4	SMCX_WTDE_HEAD	Ptr to head of Work_To_Do Element,

Table 345. Structure SMCX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
96	(60)	ADDRESS	4	SMCX_WTDE_TAIL	Ptr to tail of Work_To_Do Element,
100	(64)	CHARACTER	28	SMCX_SMFTYPE23STATS	SMF Type 23 Statistics section
100	(64)	UNSIGNED	4	SMCX_RCENUMOFGETMAINREQUESTS	Number of Getmain requests since last SMF type 23 record
104	(68)	UNSIGNED	4	SMCX_RCEPGSBACKEDONGTMNREQS	Number of pages backed during Getmain requests since last SMF type 23 record
108	(6C)	UNSIGNED	4	SMCX_RCENUMOFFIXREQUESTS	Number of fix requests for storage (address space only) below two gigabytes since last SMF Type 23 record
112	(70)	UNSIGNED	4	SMCX_RCENUMFRAMESFX	Number of frames requested to be fixed for storage (address space only) below two gigabytes since last SMF Type 23 record
116	(74)	UNSIGNED	4	SMCX_RCE1STREFFAULTS	Number of first reference faults taken since last SMF Type 23 record
120	(78)	UNSIGNED	4	SMCX_RCENON1STREFFAULTS	Number of non-first reference faults taken since last SMF Type 23 record
124	(7C)	ADDRESS	4	SMCX_SMF23CPUARRAYPTR	Pointer to the SMF Type 23 Statistics CPU array section
128	(80)	SIGNED	4	SMCX_CAPACITY_CHANGE_ECB	Set by IFAENFL for POSTing IFASMF
132	(84)	ADDRESS	4	SMCX_CURR_PCD_PTR	Pointer to current Processor Capacity data area
136	(88)	UNSIGNED	2	SMCX_CURR_CAPACITY_CHANGE_CNT	Number of processor capacity changes that occurred since the previous regular interval record was written.
138	(8A)	UNSIGNED	2	SMCX_INTV_CAPACITY_CHANGE_CNT	Number of processor capacity changes that occurred since the previous (event or non event driven) interval record was written. This field is cleared when an event driven interval record is written. and its value will be > 1 when the number of processor capacity changes exceeds the value specified by MAXEVENTINTRECS
140	(8C)	UNSIGNED	2	SMCX_MAXEVENTINTRECS	value of MAXEVENTINTRECS
142	(8E)	CHARACTER	2	SMCXRSV3	reserved for alignment
144	(90)	ADDRESS	4	SMCX_DPEXITS_PTR	Pointer to valid IFASMFDP exits
148	(94)	ADDRESS	4	SMCX_DLEXITS_PTR	Pointer to valid IFASFDL exits
152	(98)	ADDRESS	4	SMCX_TMR_ECB_PTR	Pointer to ECB used for STIMER when ENQ not available
156	(9C)	CHARACTER	4	SMCXESWT	SWT(hhmm)value as entered in SMFPRMxx

IEESMCX mapping

Table 345. Structure SMCX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
160	(A0)	SIGNED	4	SMCXMSWT	SWT(hhmm)value in minutes
164	(A4)	SIGNED	4	SMCXTSWT	SWT(hhmm)value in units of 2**20 microseconds
168	(A8)	CHARACTER	4	SMCXETWT	TWT(hhmm)value as entered in SMFPRMxx
172	(AC)	SIGNED	4	SMCXMTWT	TWT(hhmm)value in minutes
176	(B0)	SIGNED	4	SMCXTTWT	TWT(hhmm)value in units of 2**20 microseconds
180	(B4)	ADDRESS	4	*	Reserved
184	(B8)	CHARACTER	0	SMCXEND	End of SMCX mapping

Table 346. Structure SMCX_SMF23CPUARRAY

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	16	SMCX_SMF23CPUARRAY	SMF Type 23 Statistics CPU array section
0	(0)	ADDRESS	4	SMCX_NEXTCPU	Address of next cpu array element (0 if last one)
4	(4)	UNSIGNED	4	SMCX_IOWIOCNT	Number of I/Os since last SMF Type 23 record
8	(8)	UNSIGNED	4	SMCX_LCCATCBC	Number of unlocked TCB dispatches since last SMF Type 23 record
12	(C)	UNSIGNED	4	SMCX_LCCASRBC	Number of SRB dispatches since last SMF Type 23 record
16	(10)	CHARACTER	0	SMCXEND1	End of SMCX_SMF23CPUArray mapping

Table 347. Structure SMCX_DUMP_EXIT_TBL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	*	SMCX_DUMP_EXIT_TBL	Mapping for a dump exit table
0	(0)	CHARACTER	20	SMCX_DMPETB_HDR	Table header
0	(0)	CHARACTER	8	SMCX_DMPTBL_ID	Eye catcher 'SMCXDMPT'
8	(8)	SIGNED	4	SMCX_DMPTBPL	Length and subpool
8	(8)	UNSIGNED	1	SMCX_DMPTBSP	Subpool of table
9	(9)	UNSIGNED	3	SMCX_DMPTBLN	Length of table
12	(C)	SIGNED	4	SMCX_DMP_ENTRIES	Number of entries
16	(10)	CHARACTER	4	SMCX_DMP_FLAGS	Flags
		1...		SMCX_DMP_UPDATED_WO_ENQ	This table was updated without serialization on the enqueue
20	(14)	CHARACTER	12	SMCX_DMPEXTS(*)	Exit name array
20	(14)	CHARACTER	3	SMCX_DMPEXIT_FLAGS	Flags for this exit
		1...		SMCX_DMP_LAST_ENTRY	Last entry flag
23	(17)	UNSIGNED	1	SMCX_DMPUSRN	1 - USER1 2 - USER2 3 - USER3
24	(18)	CHARACTER	8	SMCX_DMPNM	Dump exit name

Table 348. Structure SMCX_PROC_CAPACITY_DATA

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
0	(0)	STRUCTURE		48	SMCX_PROC_CAPACITY_DATA	Processor Capacity Data from WLM fields, as indicated
0	(0)	CHARACTER		4	SMCX_PCD_EYE_CATCHER	'PCD '
4	(4)	ADDRESS		4	SMCX_PCD_PRIOR	PCD that was built prior to this PCD
8	(8)	BITSTRING		8	SMCX_PCD_CHANGE_TIME	RMCTZ_Capacity_Change_Time (STCK format)
16	(10)	SIGNED		4	SMCX_PCD_RQSVSUS	RQSVSUS
20	(14)	SIGNED		4	SMCX_PCD_RCTPCPUA_ACTUAL	RCTPCPUA_actual
24	(18)	SIGNED		4	SMCX_PCD_RCTPCPUA_NOMINAL	RCTPCPUA_nominal@L5A
28	(1C)	SIGNED		4	SMCX_PCD_RCTPCPUA_SCALING	RCTPCPUA_scaling_factor
32	(20)	UNSIGNED		1	SMCX_PCD_CAPACITY_ADJ_IND	RMCTZ_Capacity_Adjustment_Indication
33	(21)	UNSIGNED		1	SMCX_PCD_CAPACITY_CHG_RSN	RMCTZ_Capacity_Change_Reason
34	(22)	UNSIGNED		2	SMCX_PCD_INTV_CHANGE_CNT	COPIED from SMCX_Intv_Capacity_Change_Cnt
36	(24)	SIGNED		4	SMCX_PCD_SCHEDULED_SRBS	The number of SRBs currently scheduled to run that point to this PCD. This count is decremented at the end of each SRB routine. When the count is zero, the PCD is eligible to be freed.@L5A
40	(28)	BITSTRING		1	SMCX_PCD_FLAGS	
		1... ..			SMCX_PCD_RQSVSUS_ERR	Error retrieving RQSVSuS
		.1... ..			SMCX_PCD_ERR	Error retrieving the rest of the capacity group data
		..1... ..			SMCX_PCD_EVENT_INTV	Set to on when the current STQE is for an event driven interval
41	(29)	CHARACTER		3	SMCXRSV2	Reserved for alignment
44	(2C)	SIGNED		4	SMCX_PCD_RMCTADJN_NOMINAL	Nominal CPU rate adjustment
48	(30)	CHARACTER		0	SMCXEND2	End of SMCX_Processor_Capacity_Data mapping

Table 349. Constants for IEESMCX

Len	Type	Value	Name	Description
4	CHARACTER	SMCX	SMCXSMCX	"SMCX" EBCDIC NAME
2	DECIMAL	1	SMCXLVL1	LEVEL 1 INDICATOR

Table 350. Cross Reference for IEESMCX

Name	Offset	Hex	Tag
SMCX	0		
SMCX_CAPACITY_CHANGE_ECB	80		
SMCX_CURR_CAPACITY_CHANGE_CNT	88		
SMCX_CURR_PCD_PTR	84		
SMCX_DLEXITS_PTR	94		
SMCX_DMP_ENTRIES	C		
SMCX_DMP_FLAGS	10		
SMCX_DMP_LAST_ENTRY	14	80	
SMCX_DMP_UPDATED_WO_ENQ	10	80	

IEESMCX mapping

Table 350. Cross Reference for IEESMCX (continued)

Name	Offset	Hex Tag
SMCX_DMPETB_HDR	0	
SMCX_DMPEXIT_FLAGS	14	
SMCX_DMPEXTS	14	
SMCX_DMPNM	18	
SMCX_DMPTBL_ID	0	
SMCX_DMPTBLN	9	
SMCX_DMPTBPL	8	
SMCX_DMPTBSP	8	
SMCX_DMPUSRN	17	
SMCX_DPEXITS_PTR	90	
SMCX_DUMP_EXIT_TBL	0	
SMCX_INTV_CAPACITY_CHANGE_CNT	8A	
SMCX_IOWIOCNT	4	
SMCX_LCCASRBC	C	
SMCX_LCCATCBC	8	
SMCX_LOGGER_RESTARTED	58	40
SMCX_MAXEVENTINTRECS	8C	
SMCX_NEXTCPU	0	
SMCX_PCD_CAPACITY_ADJ_IND	20	
SMCX_PCD_CAPACITY_CHG_RSN	21	
SMCX_PCD_CHANGE_TIME	8	
SMCX_PCD_ERR	28	40
SMCX_PCD_EVENT_INTV	28	20
SMCX_PCD_EYE_CATCHER	0	
SMCX_PCD_FLAGS	28	
SMCX_PCD_INTV_CHANGE_CNT	22	
SMCX_PCD_PRIOR	4	
SMCX_PCD_RCTPCPUA_ACTUAL	14	
SMCX_PCD_RCTPCPUA_NOMINAL	18	
SMCX_PCD_RCTPCPUA_SCALING	1C	
SMCX_PCD_RMCTADJN_NOMINAL	2C	
SMCX_PCD_RQSVSUS	10	
SMCX_PCD_RQSVSUS_ERR	28	80
SMCX_PCD_SCHEDULED_SRBS	24	
SMCX_PROC_CAPACITY_DATA	0	
SMCX_RCENON1STREFFAULTS	78	
SMCX_RCENUMFRAMESFX	70	
SMCX_RCENUMOFFIXREQUESTS	6C	
SMCX_RCENUMOFGETMAINREQUESTS	64	
SMCX_RCEPGSBACKEDONGTMNREQS	68	
SMCX_RCE1STREFFAULTS	74	
SMCX_SMFTYPE23STATS	64	
SMCX_SMF23CPUARRAY	0	
SMCX_SMF23CPUARRAYPTR	7C	
SMCX_SPEEDCHANGESEQ#	4E	
SMCX_TMR_ECB_PTR	98	
SMCX_WTDE_HEAD	5C	
SMCX_WTDE_TAIL	60	
SMCXBIT1	34	

Table 350. Cross Reference for IEESMCX (continued)

Name	Offset	Hex Tag
SMCXDFRQ	2C	
SMCXEND	B8	
SMCXEND1	10	
SMCXEND2	30	
SMCXENFP	28	
SMCXESWT	9C	
SMCXETWT	A8	
SMCXEXCP	34	40
SMCXEXPT	38	
SMCXFLDTABLEPTR	50	
SMCXFTST	34	08
SMCXID	0	
SMCXINTE	1C	
SMCXINTP	18	
SMCXINTT	24	
SMCXINTV	8	
SMCXLEN	6	
SMCXLMOD	58	20
SMCXLSBT	58	
SMCXLSDS	58	80
SMCXLVL	4	
SMCXMEM	48	
SMCXMEMD	48	
SMCXMEML	40	
SMCXMEMU	4D	
SMCXMSWT	A0	
SMCXMTWT	AC	
SMCXPC	34	04
SMCXPCWT	54	
SMCXRFER	34	10
SMCXRSV2	29	
SMCXRSV3	8E	
SMCXSMFRESTARTS	5A	
SMCXSPDB	34	80
SMCXSYNP	1A	
SMCXSYNV	10	
SMCXTSWT	A4	
SMCXTTWT	B0	
SMCXWFLD	34	20
SMCX824A	30	
SMCX839A	3C	

IEESMCX mapping

Chapter 66. IEEZB833 Information

IEEZB833 Programming Interface Information

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

- VDEV_DDR_CALLER
- VDEV_DO_NOT_CHECK_VOLSER
- VDEV_DWNLVL_ENQS_HELD
- VDEV_ERROR_MESSAGES
- VDEV_ERROR_SUPPRESS_PATH_MSGS
- VDEV_ISSUE_ALL_MESSAGES
- VDEV_SMS_LIBRARY

IEEZB833 Heading Information

Common Name: VARY Device Service Input
Macro ID: IEEZB833
DSECT Name: VDEV VDEVARR
Owning Component: Master Scheduler (SC1B8)
Eye-Catcher ID: 'VDEV'
Offset: 0
Length: 4
Storage Attributes: Key: Caller
Size: Version dependent:
For version 1 (the default):
X'10' byte header plus 4 bytes per device
For version 10:
X'20' byte header plus 4 bytes per device
Created by: Caller of IEEVARYD service
Pointed to by: N/A
Serialization: None
Function: Maps the input parameters for invokers of the IEEVARYD service.

IEEZB833 mapping

Table 351. Structure VDEV

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	VDEV	VARY Device Service Input
0	(0)	DBL WORD	8	VDEV_VERSION_1(0)	Align on doubleword boundary
0	(0)	CHARACTER	4	VDEV_ID	VDEV identifier ('VDEV')
4	(4)	BITSTRING	1	VDEV_VERSION	VDEV version number
5	(5)	BITSTRING	3		Reserved
8	(8)	BITSTRING	2	VDEV_KEYWORDS(0)	VARY device command keywords
8	(8)	BITSTRING	1	VDEV_KEYWORDS1	First byte of keywords
		1...		VDEV_ONLINE	"X'80" ONLINE keyword
		.1..		VDEV_OFFLINE	"X'40" OFFLINE keyword
		..1.		VDEV_AUTOSWITCH	"X'20" AUTOSWITCH keyword

IEEZB833 mapping

Table 351. Structure VDEV (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		VDEV_UNAVAIL	"X'10'" UNAVAILABLE keyword
9	(9)	BITSTRING	1	VDEV_KEYWORDS2	Second byte of keywords
		1...		VDEV_UNCOND	"X'80'" UNCOND keyword
		.1..		VDEV_SHR	"X'40'" SHR keyword
		..1.		VDEV_RESET	"X'20'" RESET keyword
		...1		VDEV_FORCE	"X'10'" FORCE keyword
		.... 1...		VDEV_ON	"X'08'" ON keyword
		.... .1..		VDEV_OFF	"X'04'" OFF keyword
10	(A)	BITSTRING	2	VDEV_OPTIONS(0)	Additional options
10	(A)	BITSTRING	1	VDEV_OPTIONS1	First byte of additional options
		1...		VDEV_KEEP_OFFLINE_CM	"X'80'" Keep device(s) offline due to a configuration manager
		.1..		VDEV_DWNLVL_ENQS_HELD	"X'40'" Provided for compatibility with HBB7720 and below. Was VDEV_ENQS_HELD. This flag should not be used as of HBB7730
		..1.		VDEV_ERROR_SUPPRESS_PATH_MSGS	"X'20'" Issue error messages but suppress pathing messages
		...1		VDEV_SMS_LIBRARY	"X'10'" SMS library is being varied
		.... 1...		VDEV_ERROR_MESSAGES	"X'08'" Issue error messages
		.... .1..		VDEV_DO_NOT_CHECK_VOLSER	"X'04'" Bring the device online without checking its volume serial number
		.... ..1.		VDEV_DDR_CALLER	"X'02'" Indicate that DDR issued the internal vary
		.... ...1		VDEV_DO_NOT_WAIT_FOR_ENQ	"X'01'" Return to the caller if SYSIEFSD.Q4 cannot be obtained in a short amount of time
11	(B)	BITSTRING	1	VDEV_OPTIONS2	Second byte of additional options
		1...		VDEV_CART_AND_CONSID	"X'80'" Use the CART and CONSID specified. This requires a VERSION10 VDEV
		.1..		VDEV_ISSUE_ALL_MESSAGES	"X'40'" Return all messages. This requires a VERSION10 VDEV
12	(C)	BITSTRING	4	VDEV_CONSID	Console ID
12	(C)	X'10'	0	VDEV_LENGTH_VERSION1	"*-VDEV" Length of VDEV version 1
12	(C)	X'10'	0	VDEV_LENGTH	"*-VDEV" Length of this VDEV version Input

Table 352. Structure VDEVARR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	VDEVARR	IEEVARYD Device Array Entry
0	(0)	SIGNED	4	(0)	Align on fullword boundary
0	(0)	BITSTRING	2	VDEVARR_DEVN	Device number
2	(2)	BITSTRING	2		Reserved
2	(2)	X'4'	0	VDEVARR_LENGTH	"*-VDEVARR" Length of IEEVARYD Device Array Entry

Table 352. Structure VDEVARR (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
Constants						
	1		VDEV_VERN_1	"X'01'" Version for VDEV version 1
2		(2)	X'1'	0	VDEV_VERN	"VDEV_VERN_1" VDEV version
2		(2)	X'C4C5E5'	0	VDEV_CBID	"C'VDEV'" VDEV identifier

Table 353. Cross Reference for IEEZB833

Name	Offset	Hex	Tag
VDEV	0		
VDEV_AUTOSWITCH	8		20
VDEV_CART_AND_CONSID	B		80
VDEV_CBID	2		C4C5E5
VDEV_CONSID	C		
VDEV_DDR_CALLER	A		2
VDEV_DO_NOT_CHECK_VOLSER	A		4
VDEV_DO_NOT_WAIT_FOR_ENQ	A		1
VDEV_DWNLVL_ENQS_HELD	A		40
VDEV_ERROR_MESSAGES	A		8
VDEV_ERROR_SUPPRESS_PATH_MSGS	A		20
VDEV_FORCE	9		10
VDEV_ID	0		
VDEV_ISSUE_ALL_MESSAGES	B		40
VDEV_KEEP_OFFLINE_CM	A		80
VDEV_KEYWORDS	8		
VDEV_KEYWORDS1	8		
VDEV_KEYWORDS2	9		
VDEV_LENGTH	C		10
VDEV_LENGTH_VERSION1	C		10
VDEV_OFF	9		4
VDEV_OFFLINE	8		40
VDEV_ON	9		8
VDEV_ONLINE	8		80
VDEV_OPTIONS	A		
VDEV_OPTIONS1	A		
VDEV_OPTIONS2	B		
VDEV_RESET	9		20
VDEV_SHR	9		40
VDEV_SMS_LIBRARY	A		10
VDEV_UNAVAIL	8		10
VDEV_UNCOND	9		80
VDEV_VERN	2		1
VDEV_VERN_1	2		1
VDEV_VERSION	4		
VDEV_VERSION_1	0		
VDEVARR	0		
VDEVARR_DEVN	0		
VDEVARR_LENGTH	2		4

IEEZB833 mapping

Chapter 67. IEEZB834 Information

IEEZB834 Programming Interface Information

The following field is NOT programming interface information:

- VDRSARR_OFFLINE_OPERATOR

IEEZB834 Heading Information

Common Name: VARY Device Service Results
 Macro ID: IEEZB834
 DSECT Name: VDRSARR
 Owing Component: Master Scheduler (SC1B8)
 Eye-Catcher ID: None
 Storage Attributes: Key: Caller
 Size: VDRSARR -- X'0068' bytes
 Created by: Caller of IEEVARYD service
 Pointed to by: N/A
 Serialization: None
 Function: Maps the output from the IEEVARYD service.

IEEZB834 mapping

Table 354. Structure VDRSARR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	VDRSARR	VARY Device Service Results Array
0	(0)	CHARACTER	2	VDRSARR_OUTPUT_FLAGS	Output flags
0	(0)	CHARACTER	1	VDRSARR_OUTPUT_FLAGS1	First byte of output flags
Bit definitions:					
		1...		VDRSARR_OUTPUT_VALID	"X'80'" Device output is valid
		.1..		VDRSARR_MSG_RETURNED	"X'40'" Message area contains a message
1	(1)	CHARACTER	1	VDRSARR_OUTPUT_FLAGS2	Second byte of output flags
2	(2)	CHARACTER	2		Reserved
4	(4)	SIGNED	4	VDRSARR_RETCODE	Device return code
8	(8)	SIGNED	4	VDRSARR_RSNCODE	Device reason code
12	(C)	CHARACTER	12		Reserved
24	(18)	CHARACTER	71	VDRSARR_MSGAREA	Message area
95	(5F)	CHARACTER	9		Reserved
95	(5F)	X'68'	0	VDRSARR_LENGTH	"104" Length of VARY Device Service Results Array Entry
Device Return Codes (values for VDRSARR_RETCODE)					
95	(5F)	X'0'	0	VDRSARR_OK	"0" Successfully varied online/offline or the AUTOSWITCH attribute or the unavailable state for the device was successfully changed

IEEZB834 mapping

Table 354. Structure VDRSARR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
95	(5F) X'4'		0	VDRSARR_ALREADY_OK	"4" Already online/offline or in requested AUTOSWITCH mode
95	(5F) X'8'		0	VDRSARR_PENDING	"8" Pending offline
95	(5F) X'C'		0	VDRSARR_ONLINE_WITH_REST	"12" Online with restrictions
95	(5F) X'10'		0	VDRSARR_FAIL	"16" Did not come online/offline or the AUTOSWITCH attribute or the unavailable state was not changed for the device
95	(5F) X'14'		0	VDRSARR_OFF_PENDBOX	"20" Offline and pending boxed
95	(5F) X'18'		0	VDRSARR_PENDOFF_PENDBOX	"24" Pending offline and pending boxed
95	(5F) X'20'		0	VDRSARR_UNEXP_ERR	"32" Unexpected error
Device Reason Codes (values for VDRSARR_RSNCODE)					
95	(5F) X'0'		0	VDRSARR_NO_INFO	"0" No additional information
95	(5F) X'1'		0	VDRSARR_SEE_MSGAREA	"1" See message area
95	(5F) X'2'		0	VDRSARR_NOUCB	"2" No UCB for device
95	(5F) X'3'		0	VDRSARR_UNIT_MUST_BE_OFFLINE	"3" Unit must be OFFLINE before its AUTOSWITCH attribute or unavailable state can be changed
95	(5F) X'4'		0	VDRSARR_DEVICE_NOT_VALID	"4" Unit is not a valid device type for the AUTOSWITCH attribute or unavailable state
95	(5F) X'6'		0	VDRSARR_NO_LOG_PATHS	"6" Device has no logical paths
95	(5F) X'7'		0	VDRSARR_NO_PHY_PATHS	"7" Device has no physical paths
95	(5F) X'8'		0	VDRSARR_IN_USE	"8" Device in use by system function
95	(5F) X'9'		0	VDRSARR_ABORT	"9" VARY processing aborted
95	(5F) X'A'		0	VDRSARR_DYN_PATH	"10" Dynamic pathing failed
95	(5F) X'B'		0	VDRSARR_ASSIGN	"11" Device assigned to another system
95	(5F) X'C'		0	VDRSARR_INCOMP_ASSIGN	"12" Incompatible assign requested
95	(5F) X'D'		0	VDRSARR_ASSIGN_FAILED	"13" Assign failed
95	(5F) X'E'		0	VDRSARR_PENDOFF_BOXED	"14" Pending offline and boxed
95	(5F) X'F'		0	VDRSARR_KEPT_OFFLINE_CM	"15" Device being kept offline by a configuration manager
95	(5F) X'10'		0	VDRSARR_OFFLINE_OPERATOR	"16" Device is offline due to operator and cannot be brought online as part of an SMS library operation
95	(5F) X'11'		0	VDRSARR_IN_TAPE_LIB	"17" Device is in a system-managed tape library
95	(5F) X'12'		0	VDRSARR_IN_USE_BY_CUIR	"18" Device is in use by C.U.I.R.
95	(5F) X'13'		0	VDRSARR_NOT_ELIGIBLE	"19" Device is not eligible for a vary operation (e.g., device is SYSRES or non-base multiple exposure)
95	(5F) X'14'		0	VDRSARR_VOLUME_NOT_READ	"20" Volume could not be read
95	(5F) X'15'		0	VDRSARR_MANAGED_BY_JES3	"21" Device is managed by JES3

Table 354. Structure VDRSARR (continued)

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
95	(5F)	X'16'	0	VDRSARR_CONSOLE_CHANGING	"22" Device is the console device for a console which is currently changing console status
95	(5F)	X'17'	0	VDRSARR_CONSOLE_IO	"23" Device is the console device for a console which has invalid input/output capabilities
95	(5F)	X'18'	0	VDRSARR_MASTER_OFF_FORCE	"24" Device is the console device for the master console and the OFFLINE and FORCE keywords were not specified. This value is not used in HBB7730 or above.
95	(5F)	X'19'	0	VDRSARR_MASTER_OTHER_ACT	"25" Device is the console device for the master console and there is at least one other active full capability console. This value is not used in HBB7730 or above.
95	(5F)	X'1A'	0	VDRSARR_MASTER_MSTCONS	"26" Device is the console device for the master console and the VARY MSTCONS command can be accepted from any console. This value is not used in HBB7730 or above.
95	(5F)	X'1B'	0	VDRSARR_MASTER_CANDIDATE	"27" Device is the console device for the master console candidate or the local candidate. This value is not used in HBB7730 or above.
95	(5F)	X'1C'	0	VDRSARR_HARDCOPY_CONSOLE	"28" Device is the console device for the hardcopy console Note: this return code is no longer used as of JBB7727.
95	(5F)	X'1D'	0	VDRSARR_DEVICE_RESERVED	"29" Device is not allowed to be OFFLINEd when it is reserved
95	(5F)	X'68'	0	VDRSARR_LEN	"*-VDRSARR"

Table 355. Cross Reference for IEEZB834

Name	Offset	Hex Tag
VDRSARR	0	
VDRSARR_ABORT	5F	9
VDRSARR_ALREADY_OK	5F	4
VDRSARR_ASSIGN	5F	B
VDRSARR_ASSIGN_FAILED	5F	D
VDRSARR_CONSOLE_CHANGING	5F	16
VDRSARR_CONSOLE_IO	5F	17
VDRSARR_DEVICE_NOT_VALID	5F	4
VDRSARR_DEVICE_RESERVED	5F	1D
VDRSARR_DYN_PATH	5F	A
VDRSARR_FAIL	5F	10

IEEZB834 mapping

Table 355. Cross Reference for IEEZB834 (continued)

Name	Offset	Hex Tag
VDRSARR_HARDCOPY_CONSOLE	5F	1C
VDRSARR_IN_TAPE_LIB	5F	11
VDRSARR_IN_USE	5F	8
VDRSARR_IN_USE_BY_CUIR	5F	12
VDRSARR_INCOMP_ASSIGN	5F	C
VDRSARR_KEPT_OFFLINE_CM	5F	F
VDRSARR_LEN	5F	68
VDRSARR_LENGTH	5F	68
VDRSARR_MANAGED_BY_JES3	5F	15
VDRSARR_MASTER_CANDIDATE	5F	1B
VDRSARR_MASTER_MSTCONS	5F	1A
VDRSARR_MASTER_OFF_FORCE	5F	18
VDRSARR_MASTER_OTHER_ACT	5F	19
VDRSARR_MSG_RETURNED	0	40
VDRSARR_MSGAREA	18	
VDRSARR_NO_INFO	5F	0
VDRSARR_NO_LOG_PATHS	5F	6
VDRSARR_NO_PHY_PATHS	5F	7
VDRSARR_NOT_ELIGIBLE	5F	13
VDRSARR_NOUCB	5F	2
VDRSARR_OFF_PENDBOX	5F	14
VDRSARR_OFFLINE_OPERATOR	5F	10
VDRSARR_OK	5F	0
VDRSARR_ONLINE_WITH_REST	5F	C
VDRSARR_OUTPUT_FLAGS	0	
VDRSARR_OUTPUT_FLAGS1	0	
VDRSARR_OUTPUT_FLAGS2	1	
VDRSARR_OUTPUT_VALID	0	80
VDRSARR_PENDING	5F	8
VDRSARR_PENDOFF_BOXED	5F	E
VDRSARR_PENDOFF_PENDBOX	5F	18
VDRSARR_RETCODE	4	
VDRSARR_RSNCODE	8	
VDRSARR_SEE_MSGAREA	5F	1
VDRSARR_UNEXP_ERR	5F	20
VDRSARR_UNIT_MUST_BE_OFFLINE	5F	3
VDRSARR_VOLUME_NOT_READ	5F	14

Chapter 68. IEEZB887 Information

IEEZB887 Programming Interface Information

IEEZB887 is a programming interface.

IEEZB887 Heading Information

Common Name: EMCS Console Display Mapping
Macro ID: IEEZB887
DSECT Name: ECDM
Owning Component: Master Scheduler (SC1B8)
Eye-Catcher ID: ECDM
Offset: 4
Length: 4
Storage Attributes: Main Storage: Yes
Virtual Storage: No
Auxiliary Storage: No
Subpool: Caller's
Key: Caller's
Data Space: No
Residency: Any
Size: ECDM_HDR -- X'0014' bytes
ECDM_SUMM -- X'0018' bytes
ECDM_INFO -- X'0070' bytes
ECDM_MSCP -- X'0014' bytes
ECDM_CNSW -- X'0014' bytes
ECDM_DSP -- X'001C' bytes
NOTE THAT SOME SECTIONS CAN ACTUALLY BE OF VARIABLE LENGTH. SEE THE DECLARED STRUCTURES FOR DETAILS.
Created by: IEEQEMCS
Pointed to by: Set up by caller, pointed to by Register 1 during IEEQEMCS processing
Serialization: None
Function: Mapping of EMCS Console Data returned by Query EMCS Console Service (IEEQEMCS)

IEEZB887 mapping

Table 356. Structure ECDM_HDR

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ECDM_HDR	EMCS Console Data Header Mapping
0	(0)	CHARACTER	4	ECDM_ACRN	Eyecatcher
4	(4)	BITSTRING	4	ECDM_VERS	Version
8	(8)	SIGNED	4	ECDM_HDR_SIZE	Size of ECDM block
12	(C)	SIGNED	4	ECDM_SIZE	Size of entire data buffer
16	(10)	SIGNED	2	ECDM_NENT	Number of console entries in the output buffer
18	(12)	CHARACTER	2		Reserved
18	(12)	X'14'	0	ECDM_HDR_LEN	"*-ECDM_HDR"

IEEZB887 mapping

Table 357. Structure ECDM_SUMM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ECDM_SUMM	EMCS console SUMM block
0	(0)	SIGNED	2	ECDM_SUMM_TYPE	Type of block. Should be ECDM_TYPE_SUMM
2	(2)	CHARACTER	2		Reserved
4	(4)	SIGNED	4	ECDM_SUMM_SIZE	Size of the ECDM_SUMM block
8	(8)	SIGNED	4	ECDM_SUMM_CONS_SIZE	Size of the entire EMCS console entry
12	(C)	BITSTRING	2	ECDM_SUMM_FLGS	Flag bytes
12	(C)	BITSTRING	1	ECDM_SUMM_FLG1	Flag byte 1

Bit definitions:

		1... ..		ECDM_SUMM_INFO	"X'80'" Data block was returned for this entry
		.1.. ..		ECDM_SUMM_MSCP	"X'40'" MSCOPE list was returned for this entry
		..1.		ECDM_SUMM_CNSW	"X'20'" CN_SWITCH list was returned for this entry (not supported as of HBB7730)
		...1		ECDM_SUMM_DSP	"X'10'" Dataspace block was returned for this entry
13	(D)	BITSTRING	1	ECDM_SUMM_FLG2	Flag byte 2

Bit definitions:

		1... ..		ECDM_SUMM_ACTIVE	"X'80'" ON = console is active
14	(E)	CHARACTER	2		Reserved
16	(10)	CHARACTER	8	ECDM_SUMM_NAME	Console name
16	(10)	X'18'	0	ECDM_SUMM_LEN	"*-ECDM_SUMM"

Table 358. Structure ECDM_INFO

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ECDM_INFO	EMCS console INFO block
0	(0)	SIGNED	2	ECDM_INFO_TYPE	Type of block. Should be ECDM_TYPE_INFO
2	(2)	CHARACTER	2		Reserved
4	(4)	SIGNED	4	ECDM_INFO_SIZE	Size of this console INFO block
8	(8)	SIGNED	4	ECDM_INFO_CNID	4-byte console ID
12	(C)	BITSTRING	1	ECDM_INFO_MIGID	1-byte migration ID (not supported as of HBB7730)
13	(D)	BITSTRING	1	ECDM_INFO_FLG1	Miscellaneous flag byte

Bit definitions:

		1... ..		ECDM_INFO_SWTO_VALID	"X'80'" This console has been switched (SWITCHTO is valid) (not supported as of HBB7730)
		.1.. ..		ECDM_INFO_ALTGRP_VALID	"X'40'" There is an alternate group for this console (not supported as of HBB7730)
		..1.		ECDM_INFO_MIGID_VALID	"X'20'" There is a migration ID for this console (Reserved as of HBB7730)
		...1		ECDM_INFO_JOBINFO_VALID	"X'10'" There is a JOBNAME and JOBID available for this console

Table 358. Structure ECDM_INFO (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		ECDM_INFO_AUTOACT_VALID	"X'08'" There is an AUTOACT group available for this console
		.... .1..		ECDM_INFO_AUTOACT_SUSP	"X'04'" There is an AUTOACT group defined but AUTOACT processing is suspended
		.... ..1.		ECDM_INFO_AUTOACT_NOTAVAIL	"X'02'" AUTOACT info is not available for this console (not on this system)
14	(E)	SIGNED	2	ECDM_INFO_ASID	ASID (only valid if this is an active console on this system, otherwise it is zero)
16	(10)	BITSTRING	1	ECDM_INFO_STFLG	Console status flag byte
Bit definitions:					
		1...		ECDM_INFO_ACTIVE	"X'80'" Console is active
		.1..		ECDM_INFO_PD	"X'40'" Console is in PD mode
		..1.		ECDM_INFO_SYSCONS	"X'20'" Console is a System Console
17	(11)	BITSTRING	1	ECDM_INFO_RTFLG	Routing Flags
Bit definitions:					
		1...		ECDM_INFO_RSV1	"X'80'" Reserved was ECDM_INFO_UD
		.1..		ECDM_INFO_HC	"X'40'" HC bit
		..1.		ECDM_INFO_AUTO	"X'20'" AUTO bit
		...1		ECDM_INFO_MNJB	"X'10'" Monitor jobnames
		.... 1...		ECDM_INFO_MNST	"X'08'" Monitor status
		.... .1..		ECDM_INFO_MNSS	"X'04'" Monitor sessions
		.... ..1.		ECDM_INFO_MSCP_ALL	"X'02'" MSCOPE=*ALL
		.... ...1		ECDM_INFO_NO_MSCP	"X'01'" No MSCOPE data available - this is not a sysplex
18	(12)	BITSTRING	1	ECDM_INFO_DOM	DOM attribute bits
Bit definitions:					
		1...		ECDM_INFO_DOMALL	"X'80'" DOM=ALL
		.1..		ECDM_INFO_DOMNORM	"X'40'" DOM=NORMAL
		..1.		ECDM_INFO_DOMNONE	"X'20'" DOM=NONE
19	(13)	BITSTRING	1	ECDM_INFO_MLVL	Level Byte
Bit definitions:					
		1...		ECDM_INFO_LVW	"X'80'" Display WTOR's
		.1..		ECDM_INFO_LVIA	"X'40'" Display Immediate Action messages
		..1.		ECDM_INFO_LVCE	"X'20'" Display Critical Eventual Action messages
		...1		ECDM_INFO_LVE	"X'10'" Display Eventual Action messages
		.... 1...		ECDM_INFO_LVI	"X'08'" Display Informational messages
		.... .1..		ECDM_INFO_LVBC	"X'04'" Display Broadcast messages
20	(14)	BITSTRING	1	ECDM_INFO_AUTH	Console authority byte
Bit definitions:					

IEEZB887 mapping

Table 358. Structure ECDM_INFO (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1... ..		ECDM_INFO_SYS	"X'80'" Console has SYS authority
		.1..		ECDM_INFO_IO	"X'40'" Console has IO authority
		.1.		ECDM_INFO_CONS	"X'20'" Console has CONS authority
		...1		ECDM_INFO_MASTER	"X'10'" Console has MASTER authority
21	(15)	BITSTRING	1	ECDM_INFO_RTFLG2	Routing Flags Byte 2
Bit definitions:					
		1... ..		ECDM_INFO_INTIDS	"X'80'" Console has INTIDS (receiving messages for console id zero)
		.1..		ECDM_INFO_UNKNIDS	"X'40'" Console has UNKNIDS (receiving messages for unknown CNIDs)
22	(16)	CHARACTER	2		Reserved
24	(18)	CHARACTER	8	ECDM_INFO_KEY	User assigned key
32	(20)	CHARACTER	8	ECDM_INFO_SYSNM	System name
40	(28)	CHARACTER	8	ECDM_INFO_TERM	Terminal name
48	(30)	CHARACTER	8	ECDM_INFO_JOBNM	JOBNAME
56	(38)	CHARACTER	8	ECDM_INFO_JOBID	JOBID
64	(40)	CHARACTER	8	ECDM_INFO_CSYS	CMDSYS
72	(48)	CHARACTER	8	ECDM_INFO_ALTGRP	ALTGRP (not supported as of HBB7730)
80	(50)	CHARACTER	8	ECDM_INFO_SWTO	SWITCHTO (not supported as of HBB7730)
88	(58)	CHARACTER	16	ECDM_INFO_ROUT	Routing codes
104	(68)	CHARACTER	8	ECDM_INFO_AUTOACT	AUTOACT
104	(68)	X'70'	0	ECDM_INFO_LEN	"*-ECDM_INFO"

Table 359. Structure ECDM_MSCP

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ECDM_MSCP	EMCS console MSCOPE block
0	(0)	CHARACTER	12	ECDM_MSCP_HDR	MSCOPE fixed-size header. Should be ECDM_TYPE_MSCP
0	(0)	SIGNED	2	ECDM_MSCP_TYPE	Type of block
2	(2)	CHARACTER	2		Reserved
4	(4)	SIGNED	4	ECDM_MSCP_SIZE	Size of this console MSCOPE block
8	(8)	SIGNED	4	ECDM_MSCP_MNUM	Number of entries in MSCOPE block
12	(C)	CHARACTER	8	ECDM_MSCP_LIST	MSCOPE list
12	(C)	X'14'	0	ECDM_MSCP_LEN	"*-ECDM_MSCP"

Table 360. Structure ECDM_CNSW

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ECDM_CNSW	EMCS console CNSWITCH block (not supported as of HBB7730)

Table 360. Structure ECDM_CNSW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	CHARACTER	12	ECDM_CNSW_HDR	CNSWITCH fixed-size header. Should be ECDM_TYPE_CNSW
0	(0)	SIGNED	2	ECDM_CNSW_TYPE	Type of block
2	(2)	CHARACTER	2		Reserved
4	(4)	SIGNED	4	ECDM_CNSW_SIZE	Size of this console CNSWITCH block
8	(8)	SIGNED	4	ECDM_CNSW_MNUM	Number of entries in CNSWITCH block
12	(C)	CHARACTER	8	ECDM_CNSW_LIST	CNSWITCH list
12	(C)	X'14'	0	ECDM_CNSW_LEN	"*-ECDM_CNSW"

Table 361. Structure ECDM_DSP

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ECDM_DSP	Dataspace status mapping
0	(0)	SIGNED	2	ECDM_DSP_TYPE	Type of block. Should be ECDM_TYPE_DSP
2	(2)	CHARACTER	2		Reserved
4	(4)	SIGNED	4	ECDM_DSP_SIZE	Size of the dataspace status mapping
8	(8)	SIGNED	4	ECDM_DSP_QD	Queue depth in use
12	(C)	SIGNED	4	ECDM_DSP_QLIM	Queue depth limit
16	(10)	BITSTRING	1	ECDM_DSP_ALERTPCT	Alert percentage
17	(11)	BITSTRING	1	ECDM_DSP_ERR	Error condition byte

Bit definitions:

		1...		ECDM_DSP_CLIM	"X'80'" Queueing stopped by Memory Limit
		.1..		ECDM_DSP_DLIM	"X'40'" Queueing stopped by Queue Depth Limit
		..1.		ECDM_DSP_INTR	"X'20'" Queueing stopped by Internal Error
		...1		ECDM_DSP_ALERT	"X'10'" Queueing reached Alert Percentage
18	(12)	CHARACTER	2		Reserved
20	(14)	SIGNED	4	ECDM_DSP_CURRDSSIZE	Current dataspace size in kilobytes (K)
24	(18)	SIGNED	4	ECDM_DSP_MAXDSSIZE	Maximum dataspace size in kilobytes (K)
24	(18)	X'C3C4D4'	0	ECDM_ACR	"C'ECDM'" Eyecatcher

Version numbers

		.... ...1		ECDM_VERS1	"X'00000001'" Version number
		.... ..11		ECDM_VERS3	"X'00000003'" Version number 3
		.... 1.1.		ECDM_VERS_HBB7730	"X'0000000A'" Version number 10
		...1		ECDM_VERS_HBB7750	"X'00000010'" Version number 16
		...1		ECDM_VERID	"X'00000010'" Current version number

Sub-block identifiers

24	(18)	X'8'	0	ECDM_TYPE_SUMM	"8" Console SUMM block type
24	(18)	X'10'	0	ECDM_TYPE_INFO	"16" Console INFO block type
24	(18)	X'20'	0	ECDM_TYPE_MSCP	"32" Console MSCOPE block type

IEEZB887 mapping

Table 361. Structure ECDM_DSP (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
24	(18)	X'40'		0	ECDM_TYPE_CNSW	"64" Console CNSWITCH block type (not supported as of HBB7730)
24	(18)	X'80'		0	ECDM_TYPE_DSP	"128" Console dataspace block type
24	(18)	X'1C'		0	ECDM_DSP_LEN	"*-ECDM_DSP"

Table 362. Cross Reference for IEEZB887

Name	Offset	Hex Tag
ECDM_ACR	18	C3C4D4
ECDM_ACRN	0	
ECDM_CNSW	0	
ECDM_CNSW_HDR	0	
ECDM_CNSW_LEN	C	14
ECDM_CNSW_LIST	C	
ECDM_CNSW_MNUM	8	
ECDM_CNSW_SIZE	4	
ECDM_CNSW_TYPE	0	
ECDM_DSP	0	
ECDM_DSP_ALERTPCT	10	
ECDM_DSP_ALRT	11	10
ECDM_DSP_CLIM	11	80
ECDM_DSP_CURRDSSIZE	14	
ECDM_DSP_DLIM	11	40
ECDM_DSP_ERR	11	
ECDM_DSP_INTR	11	20
ECDM_DSP_LEN	18	1C
ECDM_DSP_MAXDSSIZE	18	
ECDM_DSP_QD	8	
ECDM_DSP_QLIM	C	
ECDM_DSP_SIZE	4	
ECDM_DSP_TYPE	0	
ECDM_HDR	0	
ECDM_HDR_LEN	12	14
ECDM_HDR_SIZE	8	
ECDM_INFO	0	
ECDM_INFO_ACTIVE	10	80
ECDM_INFO_ALTGRP	48	
ECDM_INFO_ALTGRP_VALID	D	40
ECDM_INFO_ASID	E	
ECDM_INFO_AUTH	14	
ECDM_INFO_AUTO	11	20
ECDM_INFO_AUTOACT	68	
ECDM_INFO_AUTOACT_NOTAVAIL	D	2
ECDM_INFO_AUTOACT_SUSP	D	4
ECDM_INFO_AUTOACT_VALID	D	8
ECDM_INFO_CNID	8	
ECDM_INFO_CONS	14	20
ECDM_INFO_CSYS	40	

Table 362. Cross Reference for IEEZB887 (continued)

Name	Offset	Hex Tag
ECDM_INFO_DOM	12	
ECDM_INFO_DOMALL	12	80
ECDM_INFO_DOMNONE	12	20
ECDM_INFO_DOMNORM	12	40
ECDM_INFO_FLG1	D	
ECDM_INFO_HC	11	40
ECDM_INFO_INTIDS	15	80
ECDM_INFO_IO	14	40
ECDM_INFO_JOBID	38	
ECDM_INFO_JOBINFO_VALID	D	10
ECDM_INFO_JOBNM	30	
ECDM_INFO_KEY	18	
ECDM_INFO_LEN	68	70
ECDM_INFO_LVBC	13	4
ECDM_INFO_LVCE	13	20
ECDM_INFO_LVE	13	10
ECDM_INFO_LVI	13	8
ECDM_INFO_LVIA	13	40
ECDM_INFO_LVW	13	80
ECDM_INFO_MASTER	14	10
ECDM_INFO_MIGID	C	
ECDM_INFO_MIGID_VALID	D	20
ECDM_INFO_MLVL	13	
ECDM_INFO_MNJB	11	10
ECDM_INFO_MNSS	11	4
ECDM_INFO_MNST	11	8
ECDM_INFO_MSCP_ALL	11	2
ECDM_INFO_NO_MSCP	11	1
ECDM_INFO_PD	10	40
ECDM_INFO_ROUT	58	
ECDM_INFO_RSV1	11	80
ECDM_INFO_RTFLG	11	
ECDM_INFO_RTFLG2	15	
ECDM_INFO_SIZE	4	
ECDM_INFO_STFLG	10	
ECDM_INFO_SWTO	50	
ECDM_INFO_SWTO_VALID	D	80
ECDM_INFO_SYS	14	80
ECDM_INFO_SYSCONS	10	20
ECDM_INFO_SYSNM	20	
ECDM_INFO_TERM	28	
ECDM_INFO_TYPE	0	
ECDM_INFO_UNKNIDS	15	40
ECDM_MSCP	0	
ECDM_MSCP_HDR	0	
ECDM_MSCP_LEN	C	14
ECDM_MSCP_LIST	C	
ECDM_MSCP_MNUM	8	
ECDM_MSCP_SIZE	4	

IEEZB887 mapping

Table 362. Cross Reference for IEEZB887 (continued)

Name	Offset	Hex Tag
ECDM_MSCP_TYPE	0	
ECDM_NENT	10	
ECDM_SIZE	C	
ECDM_SUMM	0	
ECDM_SUMM_ACTIVE	D	80
ECDM_SUMM_CNSW	C	20
ECDM_SUMM_CONS_SIZE	8	
ECDM_SUMM_DSP	C	10
ECDM_SUMM_FLGS	C	
ECDM_SUMM_FLG1	C	
ECDM_SUMM_FLG2	D	
ECDM_SUMM_INFO	C	80
ECDM_SUMM_LEN	10	18
ECDM_SUMM_MSCP	C	40
ECDM_SUMM_NAME	10	
ECDM_SUMM_SIZE	4	
ECDM_SUMM_TYPE	0	
ECDM_TYPE_CNSW	18	40
ECDM_TYPE_DSP	18	80
ECDM_TYPE_INFO	18	10
ECDM_TYPE_MSCP	18	20
ECDM_TYPE_SUMM	18	8
ECDM_VERID	18	10
ECDM_VERS	4	
ECDM_VERS_HBB7730	18	A
ECDM_VERS_HBB7750	18	10
ECDM_VERS1	18	1
ECDM_VERS3	18	3

Chapter 69. IEEZB888 Information

IEEZB888 Programming Interface Information

IEEZB888 is a programming interface.

IEEZB888 Heading Information

Common Name: IEEQEMCS Return and Reason Codes
Macro ID: IEEZB888
DSECT Name: N/A
Owning Component: Master Scheduler (SC1B8)
Eye-Catcher ID: Offset: N/A
Length: N/A
Storage Attributes: Main Storage: Yes
Virtual Storage: No
Auxiliary Storage: No
Subpool: Caller's
Key: Caller's
Data Space: No
Residency: Any
Size: N/A
Created by: IEEQEMCS
Pointed to by: N/A
Serialization: None
Function: Mapping of IEEQEMCS Return and Reason Codes

IEEZB888 mapping

Table 363. Structure

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

IEEZB888 mapping

Table 363. Structure (continued)

Offset Dec	Offset Hex Type	Len Name(Dim)	Description
			IEEZB888_1; START OF SPECIFICATIONS
			01 MACRO NAME: IEEZB888
			01 DESCRIPTIVE NAME: IEEQEMCS Return and Reason Codes
			01 EXTERNAL CLASSIFICATION: PI
			01 END OF EXTERNAL CLASSIFICATION:
			01 PROPRIETARY STATEMENT= PROPRIETARY_STATEMENT
			LICENSED MATERIALS - PROPERTY OF IBM
			5694-A01 (C) COPYRIGHT IBM CORP. 1999, 2005
			STATUS= HBB7720
			END_OF_PROPRIETARY_STATEMENT
			01 DSECT NAME: N/A
			01 COMPONENT: Master Scheduler (SC1B8)
			01 EYE-CATCHER:
			02 OFFSET: N/A
			02 LENGTH: N/A
			01 STORAGE ATTRIBUTES:
			02 MAIN STORAGE: Yes
			02 VIRTUAL STORAGE: No
			02 AUXILIARY STORAGE: No
			02 DATA SPACE: No
			02 SUBPOOL: Caller's
			02 KEY: Caller's
			02 Residency: Any
			01 SIZE: N/A
			01 FUNCTION: Mapping of IEEQEMCS Return and Reason Codes
			01 METHOD OF ACCESS:
			BAL - Specify: IEEZB888
			PL/X - %INCLUDE SYSLIB(IEEZB888)
			01 CREATED BY: IEEQEMCS
			01 POINTED TO BY: N/A
			DELETED BY= Caller of IEEQEMCS
			DISTRIBUTION= AMODGEN
			01 SERIALIZATION: None
			01 OPERATION:
			CHANGE ACTIVITY =
			\$MAC(IEEZB888) COMP(SC1B8): IEEQEMCS Return and Reason Codes
			\$L0=DEMCS, JBB6607, 980428 , PDTA: Display EMCS / IEEQEMCS
			\$P1=PWK0502, HBB6608, 981209 , PDZH: Add EXTERNAL CLASSIFICATION
			and SHOWHDR updates
			\$P2=ME02630, HBB7720, 050218 , PDKP: Make it CBGEN source
			START OF CHANGE ACTIVITY
			A 000000-999999
			C Make the macro the CBGEN source rather than the generated
			CBGEN output.
			END OF CHANGE ACTIVITY
			END OF SPECIFICATIONS
			IEEQEMCS Return and Reason Code definitions
	IEEQE_RC_OK	"X'00000000'" Meaning: EMCS consoles have been found. In the case of a REQUEST type of SUMMARY, INFO, or FULL, the output buffer was sufficient to hold all of the information for the consoles meeting the search criteria. Action: None required.

Table 363. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		IEEQE_RC_NOCONS	"X'00000004'" Meaning: No EMCS consoles meet the specified filters. Action: None required.
		.... 1...		IEEQE_RC_NOSTOR	"X'00000008'" Meaning: Insufficient return buffer storage to complete the query operation. Action: Refer to the action provided with the specific reason code.
		.... .1..		IEEQE_RS_TOKSZCONS	"X'00000004'" Meaning: A token and recommended buffer size have been returned in TOKEN and RECSIZE. Also, some console information has been returned in the output buffer. Action: After processing the information returned in the console buffer, issue IEEQEMCS again with the token that was returned by this call to IEEQEMCS so that more console information may be returned.
		.... 1...		IEEQE_RS_TOKSZNOCONS	"X'00000008'" Meaning: A token and recommended buffer size have been returned in TOKEN and RECSIZE. The output buffer is too small to return any EMCS consoles. Action: Allocate a new buffer that is at least the size returned in RECSIZE, and issue IEEQEMCS again with the new buffer and the token returned on the previous IEEQEMCS call. The recommended buffer size returned in RECSIZE is sufficient to hold only one console. It may be necessary to obtain a buffer larger than that to hold all of the consoles returned by IEEQEMCS.
		...1 ..1.		IEEQE_RS_NOTOKSZRET	"X'00000012'" Meaning: TOKEN and RECSIZE parameters were not coded on the macro invocation, so IEEQEMCS could not return a recommended buffer size to the caller. The buffer size specified by BUFSIZE was not sufficient to hold all of the consoles returned by IEEQEMCS. Action: Issue IEEQEMCS again with the TOKEN and RECSIZE parameters.

IEEZB888 mapping

Table 363. Structure (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
		...1	..1.		IEEQE_RC_INVTK	"X'00000012'" Meaning: Invalid token in parameter list. Action: Issue IEEQEMCS again with a correct token or a token of zeros.
		...1	.11.		IEEQE_RC_INVPL	"X'00000016'" Meaning: Invalid parameter list. Action: Refer to the action provided with the specific reason code.
	1..		IEEQE_RS_INVACRN	"X'00000004'" Meaning: The acronym in the parameter list was invalid. Action: Correct the acronym in the parameter list and issue IEEQEMCS again.
		1...		IEEQE_RS_INVADDR	"X'00000008'" Meaning: An output address is invalid. An ABEND occurred while trying to access storage at an address specified in the parameter list, possibly because that storage is not accessible by the caller, or the storage does not exist. Action: Correct the invalid address in the parameter list and issue IEEQEMCS again.
		...1	..1.		IEEQE_RS_INVBUFSIZEADDR	"X'00000012'" Meaning: The length of the buffer in the parameter list was invalid. Action: Correct the buffer length in the parameter list and issue IEEQEMCS again.
		...1	.11.		IEEQE_RS_INVLGTH	"X'00000016'" Meaning: The length of the parameter list is invalid. Action: Correct the length in the parameter list and issue IEEQEMCS again.
		..1.	....		IEEQE_RS_INVVERS	"X'00000020'" Meaning: The version specified in the parameter list is invalid. Action: Correct the version in the parameter list and issue IEEQEMCS again.
		..1.	.1..		IEEQE_RS_INVFUNC	"X'00000024'" Meaning: The REQUEST type specified in the parameter list is not a valid REQUEST type. Action: Correct the REQUEST type in the parameter list and issue IEEQEMCS again.
		..1.	1...		IEEQE_RS_INVSTAT	"X'00000028'" Meaning: The STATUS specified in the parameter list is not a valid STATUS type. Action: Correct the STATUS in the parameter list and issue IEEQEMCS again.

Table 363. Structure (continued)

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
	..11	..1.		IEEQE_RS_INVAUTH	"X'00000032'" Meaning: The command authority specified in the parameter list is not a valid command authority type. Action: Correct the AUTH in the parameter list and issue IEEQEMCS again.
	..11	.11.		IEEQE_RS_INVDOM	"X'00000036'" Meaning: The DOM attribute specified in the parameter list is not a valid DOM attribute type. Action: Correct the DOM in the parameter list and issue IEEQEMCS again.
	.1..	....		IEEQE_RS_INCONSIST	"X'00000040'" Meaning: A set of parameters specified in the parameter list conflict with each other. Action: Correct the parameter list to not have conflicting parameters and issue IEEQEMCS again.
	.1..	.1..		IEEQE_RS_INVATTR	"X'00000044'" Meaning: The routing attributes specified in the parameter list are not valid routing attribute types. Action: Correct the ATTR field in the parameter list and issue IEEQEMCS again.
	.11.	.1..		IEEQE_RC_SYSERR	"X'00000064'" Meaning: System Error. This return code is for IBM diagnostic purposes only. Action: Record the return and reason codes and supply it to the appropriate IBM support personnel.
	....	.1..		IEEQE_RS_SYSABEND	"X'00000004'" Meaning: An ABEND occurred during processing. This reason code is for IBM diagnostic purposes only. Action: Record the return and reason codes and supply it to the appropriate IBM support personnel.
	....	1...		IEEQE_RS_SYSERR	"X'00000008'" Meaning: An error occurred during processing. This reason code is for IBM diagnostic purposes only. Action: Record the return and reason codes and supply it to the appropriate IBM support personnel.

Table 364. Cross Reference for IEEZB888

Name	Offset	Hex Tag
IEEQE_RC_INVPL	0	16

IEEZB888 mapping

Table 364. Cross Reference for IEEZB888 (continued)

Name	Offset	Hex Tag
IEEQE_RC_INV TOK	0	12
IEEQE_RC_NOCONS	0	4
IEEQE_RC_NOSTOR	0	8
IEEQE_RC_OK	0	0
IEEQE_RC_SYSERR	0	64
IEEQE_RS_INCONSIST	0	40
IEEQE_RS_INVACRN	0	4
IEEQE_RS_INVADDR	0	8
IEEQE_RS_INVATTR	0	44
IEEQE_RS_INVAUTH	0	32
IEEQE_RS_INVBUFSIZEADDR	0	12
IEEQE_RS_INVDOM	0	36
IEEQE_RS_INVFUNC	0	24
IEEQE_RS_INVLGTH	0	16
IEEQE_RS_INVSTAT	0	28
IEEQE_RS_INVVERS	0	20
IEEQE_RS_NOTOKSZRET	0	12
IEEQE_RS_SYSABEND	0	4
IEEQE_RS_SYSERR	0	8
IEEQE_RS_TOKSZCONS	0	4
IEEQE_RS_TOKSZNOCONS	0	8

Chapter 70. IEEZB889 Information

IEEZB889 Programming Interface Information

IEEZB889 is a programming interface.

IEEZB889 Heading Information

Common Name: IEECMDS Buffer Mapping
Macro ID: IEEZB889
DSECT Name: CMDS
Owning Component: Master Scheduler (SC1B8)
Eye-Catcher ID: CMDS
Offset: 4
Length: 4
Storage Attributes: Main Storage: Yes
Virtual Storage: No
Auxiliary Storage: No
Subpool: Caller's
Key: Caller's
Data Space: No
Residency: Any
Size: Variable
CMDS_HDR -- X'0030' bytes
CMDS_ENTRY -- X'00B0' bytes
Created by: IEECMDS
Pointed to by: Set up by caller, pointed to by Register 1
during IEECMDS processing
Serialization: None
Function: Mapping of Command Data returned by Query/Remove
Command Service (IEECMDS)

IEEZB889 mapping

Table 365. Structure CMDS_HDR

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CMDS_HDR	Command Data Header Mapping
0	(0)	CHARACTER	4	CMDS_ACRN	Eyecatcher
4	(4)	BITSTRING	4	CMDS_VERS	Version
8	(8)	SIGNED	4	CMDS_HDR_SIZE	Size of Header
12	(C)	SIGNED	4	CMDS_SIZE	Size of entire data buffer
16	(10)	SIGNED	4	CMDS_NUMENT	Number of command entries in the output buffer
20	(14)	SIGNED	4	CMDS_NUM_MTCH	Number of commands which match input filters
24	(18)	SIGNED	4	CMDS_NUM_MTCHE	Number of executing commands which match input filters
28	(1C)	SIGNED	4	CMDS_NUM_MTCHW	Number of waiting commands which match input filters
32	(20)	SIGNED	4	CMDS_NUM_TOTAL	Total number of attached commands in the system

IEEZB889 mapping

Table 365. Structure CMDS_HDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
36	(24)	SIGNED	4	CMDS_NUM_TOTE	Total number of attached commands executing
40	(28)	SIGNED	4	CMDS_NUM_TOTW	Total number of attached commands waiting
44	(2C)	CHARACTER	4		Reserved
44	(2C)	X'30'	0	CMDS_HDR_LEN	"*-CMDS_HDR"

Table 366. Structure CMDS_ENTRY

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CMDS_ENTRY	Command ENTRY block
0	(0)	SIGNED	4	CMDS_ENTRY_SIZE	Size of the CMDS_ENTRY block
4	(4)	BITSTRING	2	CMDS_ENTRY_FLGS	Flag bytes
4	(4)	BITSTRING	1	CMDS_ENTRY_FLG1	Flag byte 1

Bit definitions:

		1...		CMDS_ENTRY_EXECUTING	"X'80'" Command is executing
		.1..		CMDS_ENTRY_WAITING	"X'40'" Command is/was waiting for execution
		..1.		CMDS_ENTRY_REMOVED	"X'20'" REQUEST was REMOVE, command is removed
5	(5)	BITSTRING	1	CMDS_ENTRY_FLG2	Flag byte 2
5	(5)	BITSTRING	1		Reserved
6	(6)	CHARACTER	2	CMDS_ENTRY_RSVD1	Reserved
8	(8)	CHARACTER	8	CMDS_ENTRY_TIME	Time stamp (STCK) when command was issued (if waiting) or was attached (if executing)
16	(10)	CHARACTER	4	CMDS_ENTRY_CLASS	Command Class
20	(14)	CHARACTER	4	CMDS_ENTRY_ID	Command ID
24	(18)	CHARACTER	8	CMDS_ENTRY_JOB	Jobname of issuer
32	(20)	CHARACTER	4	CMDS_ENTRY_ASID	ASID of issuer
36	(24)	CHARACTER	8	CMDS_ENTRY_NAME	Command name
44	(2C)	ADDRESS	4	CMDS_ENTRY_TCB	TCB address of executing cmd
48	(30)	CHARACTER	126	CMDS_ENTRY_TEXT	Command text
174	(AE)	CHARACTER	2	CMDS_ENTRY_RSVD2	Reserved
174	(AE)	X'D4C4E2'	0	CMDS_ACR	"C'CMDS'" Eyecatcher
174	(AE)	X'30'	0	CMDS_HEADER_LENGTH	"48" Length of header section
174	(AE)	X'B0'	0	CMDS_ENTRY_LENGTH	"176" Length of each entry

Version numbers

		.... ...1		CMDS_VERS1	"X'00000001'" Version number
		.... ...1		CMDS_VERID	"X'00000001'" Current version number

Return and Reason Codes

			CMDS_RC_OK	"X'00000000'" Meaning: Matching commands have been found. In the case of a REQUEST type of INFO or REMOVE, the output buffer was sufficient to hold all of the information for the commands meeting the search criteria. Action: None required.
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Table 366. Structure CMDS_ENTRY (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		CMDS_RC_NOCMDS	"X'00000004'" Meaning: No commands meet the specified filters. Action: None required.
		.... 1...		CMDS_RC_NOSTOR	"X'00000008'" Meaning: Insufficient return buffer storage to complete the query operation. Action: Refer to the action provided with the specific reason code.
		.... .1..		CMDS_RS_SOMECMDS	"X'00000004'" Meaning: The output buffer is too small to contain all requested information, but does contain the information for one or more commands. Action: The count of matching commands has been returned. Adjust the buffer size so that it is at least as large as the count multiplied by the the length of an entry, plus the length of the header. Constants CMDS_HEADER_LENGTH and CMDS_ENTRY_LENGTH represent these amounts.
		.... 1...		CMDS_RS_NOCMDS	"X'00000008'" Meaning: The output buffer is too small to contain the information for even one command. Action: The count of matching commands has been returned. Adjust the buffer size so that it is at least as large as the count multiplied by the the length of an entry, plus the length of the header. Constants CMDS_HEADER_LENGTH and CMDS_ENTRY_LENGTH represent these amounts.
		...1		CMDS_RC_INVPL	"X'00000010'" Meaning: Invalid parameter list. Action: Refer to the action provided with the specific reason code.
		.... .1..		CMDS_RS_INVACRN	"X'00000004'" Meaning: The acronym in the parameter list was invalid. Action: Correct the acronym in the parameter list and issue IEECMDS again.

IEEZB889 mapping

Table 366. Structure CMDS_ENTRY (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		CMDS_RS_INVADDR	"X'00000008'" Meaning: An output address is invalid. An ABEND occurred while trying to access storage at an address specified in the parameter list, possibly because that storage is not accessible by the caller, or the storage does not exist. Action: Correct the invalid address in the parameter list and issue IEECMDS again.
		.... 11..		CMDS_RS_INVBUFFER	"X'0000000C'" Meaning: The address or length of the buffer in the parameter list was invalid. Action: Correct the buffer length in the parameter list and issue IEECMDS again.
		...1		CMDS_RS_INVLGTH	"X'00000010'" Meaning: The length of the parameter list is invalid. Action: Correct the length in the parameter list and issue IEECMDS again.
		...1 .1..		CMDS_RS_INVVERS	"X'00000014'" Meaning: The version specified in the parameter list is invalid. Action: Correct the version in the parameter list and issue IEECMDS again.
		...1 1...		CMDS_RS_INVFUNC	"X'00000018'" Meaning: The REQUEST type specified in the parameter list is not a valid REQUEST type. Action: Correct the REQUEST type in the parameter list and issue IEECMDS again.
		...1 11..		CMDS_RS_INVCLASS	"X'0000001C'" Meaning: The CLASS specified in the parameter list is not a valid CLASS name. Action: Correct the CLASS in the parameter list and issue IEECMDS again.
		..1.		CMDS_RS_INVID	"X'00000020'" Meaning: The ID specified in the parameter list is not a valid ID value. The ID value must be a decimal number in EBCDIC (printable) characters. Action: Correct the ID in the parameter list and issue IEECMDS again.
		.1..		CMDS_RC_SYSERR	"X'00000040'" Meaning: System Error. This return code is for IBM diagnostic purposes only. Action: Record the return and reason codes and supply it to the appropriate IBM support personnel.

Table 366. Structure CMDS_ENTRY (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		CMDS_RS_SYSABEND	"X'00000004'" Meaning: An ABEND occurred during processing. This reason code is for IBM diagnostic purposes only.
		.... 1...		CMDS_RS_SYSERR	"X'00000008'" Meaning: An error occurred during processing. This reason code is for IBM diagnostic purposes only.
174	(AE)	BITSTRING	0	CMDS_RC_CMD_NOT_ABENDABLE	"X'0000F001'" Meaning: MarkCMDSAbend has been requested but could not be processed since the command is marked non-abendable. Action: None
174	(AE)	X'B0'	0	CMDS_ENTRY_LEN	"*-CMDS_ENTRY"

Table 367. Cross Reference for IEEZB889

Name	Offset	Hex Tag
CMDS_ACR	AE	D4C4E2
CMDS_ACRN	0	
CMDS_ENTRY	0	
CMDS_ENTRY_ASID	20	
CMDS_ENTRY_CLASS	10	
CMDS_ENTRY_EXECUTING	4	80
CMDS_ENTRY_FLGS	4	
CMDS_ENTRY_FLG1	4	
CMDS_ENTRY_FLG2	5	
CMDS_ENTRY_ID	14	
CMDS_ENTRY_JOB	18	
CMDS_ENTRY_LEN	AE	B0
CMDS_ENTRY_LENGTH	AE	B0
CMDS_ENTRY_NAME	24	
CMDS_ENTRY_REMOVED	4	20
CMDS_ENTRY_RSVD1	6	
CMDS_ENTRY_RSVD2	AE	
CMDS_ENTRY_SIZE	0	
CMDS_ENTRY_TCB	2C	
CMDS_ENTRY_TEXT	30	
CMDS_ENTRY_TIME	8	
CMDS_ENTRY_WAITING	4	40
CMDS_HDR	0	
CMDS_HDR_LEN	2C	30
CMDS_HDR_SIZE	8	
CMDS_HEADER_LENGTH	AE	30
CMDS_NUM_MTCH	14	
CMDS_NUM_MTCHE	18	
CMDS_NUM_MTCHW	1C	
CMDS_NUM_TOTAL	20	
CMDS_NUM_TOTE	24	
CMDS_NUM_TOTW	28	

IEEZB889 mapping

Table 367. Cross Reference for IEEZB889 (continued)

Name	Offset	Hex Tag
CMDS_NUMENT	10	
CMDS_RC_CMD_NOT_ABENDABLE	AE	F001
CMDS_RC_INVPL	AE	10
CMDS_RC_NOCMDS	AE	4
CMDS_RC_NOSTOR	AE	8
CMDS_RC_OK	AE	0
CMDS_RC_SYSERR	AE	40
CMDS_RS_INVACRN	AE	4
CMDS_RS_INVADDR	AE	8
CMDS_RS_INVBUFFER	AE	C
CMDS_RS_INVCLASS	AE	1C
CMDS_RS_INVFUNC	AE	18
CMDS_RS_INVID	AE	20
CMDS_RS_INVLGTH	AE	10
CMDS_RS_INVVERS	AE	14
CMDS_RS_NOCMDS	AE	8
CMDS_RS_SOMECMDS	AE	4
CMDS_RS_SYSABEND	AE	4
CMDS_RS_SYSERR	AE	8
CMDS_SIZE	C	
CMDS_VERID	AE	1
CMDS_VERS	4	
CMDS_VERS1	AE	1

Chapter 71. IEFALCXT Information

IEFALCXT Programming Interface Information

IEFALCXT is a programming interface.

IEFALCXT Heading Information

Common Name: IEF_ALLC_EVENT exit parameter list
Macro ID: IEFALCXT
DSECT Name: NONE
Owning Component: Allocation (SC1B4)
Eye-Catcher ID: ALCXT
Offset: 0
Length: 6
Storage Attributes: Subpool: 230
Key: 1
Residency: Any
Size: 40 for ALCXT + 12 for ALCXT_dataArea + 8 for DDlist
Created by: IEFAB421
Pointed to by: Reg1 which points to a word holding its pointer on entry to the IEF_ALLC_EVENT exit.
Serialization: None
Function: Contains area for parmlist of IEF_ALLC_EVENT

IEFALCXT mapping

Table 368. Structure ALCXT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ALCXT	
0	(0)	CHARACTER	6	ALCXT_ID	Eye-catcher ALCXT
6	(6)	SIGNED	2	ALCXT_VERSION	version
8	(8)	SIGNED	2	ALCXT_LENGTH	length
10	(A)	CHARACTER	8	ALCXT_JOBNAME	Jobname
18	(12)	CHARACTER	8	ALCXT_STEPNAME	Stepname
26	(1A)	CHARACTER	8	ALCXT_PROCSTEPNAME	Proc Stepname
34	(22)	SIGNED	2	ALCXT_FN	exit function
36	(24)	ADDRESS	4	ALCXT_DATA@	pointer to ALCXT data area
36	(24)	X'28'	0	ALCXT_LEN	"*-ALCXT"

Table 369. Structure ALCXT_DATAAREA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ALCXT_DATAAREA	ALCXT data area
0	(0)	SIGNED	4	ALCXT_BATCHBEGINDATA	Data for BatchBegin Function
0	(0)	CHARACTER	12	ALCXT_BATCHENDDATA	Data for BatchEnd Function
0	(0)	CHARACTER	8		
8	(8)	SIGNED	4	ALCXT_BATCHRC	Retcode at end of Batch request
0	(0)	CHARACTER	8	ALCXT_DYNBEGINDATA	Data for Dynalloc-Begin function

IEFALCXT mapping

Table 369. Structure ALCXT_DATAAREA (continued)

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
0	(0)	CHARACTER	8	ALCXT_DYNBEGIN_DDNAME	DDname for Dynalloc-Begin
0	(0)	CHARACTER	12	ALCXT_DYNENDDATA	Data for Dynalloc-End function
0	(0)	CHARACTER	8	ALCXT_DYNEND_DDNAME	DDname for Dynalloc- End
8	(8)	SIGNED	4	ALCXT_DYNRC	Retcode at the end of Dynalloc
0	(0)	SIGNED	4	ALCXT_ALLOCTIONABENDED	Data for AllocationABENDED function
0	(0)	CHARACTER	8	ALCXT_CONCATDATA	Data for concatenation event
0	(0)	SIGNED	4	ALCXT_CONCATDDNUMBER	Number of DDnames being concatenated
4	(4)	ADDRESS	4	ALCXT_CONCATDATA@	Pointer to ALCXT_DDList
0	(0)	CHARACTER	8	ALCXT_DECONCATDATA	Data for deconcatenation event
0	(0)	SIGNED	4	ALCXT_DECONCATDDNUMBER	Number of DDnames being deconcatenated
4	(4)	ADDRESS	4	ALCXT_DECONCATDATA@	Pointer to ALCXT_DDList
0	(0)	CHARACTER	12	ALCXT_BATCHUNALLOCDATA	Data for Batch Unallocate
0	(0)	CHARACTER	8		
8	(8)	SIGNED	4	ALCXT_BATCHUNALLOC_RC	Batch Unallocation RC
0	(0)	CHARACTER	12	ALCXT_DYNUNALLOCDATA	Data for Dynamic Unallocate
0	(0)	CHARACTER	8	ALCXT_DYNUNALLOC_DD	Dynamic Unallocate DDN
8	(8)	SIGNED	4	ALCXT_DYNUNALLOC_RC	Dynamic Unallocation RC
0	(0)	SIGNED	4	ALCXT_RECOVERYPREWAITDATA	Data for RecoveryPreWait
0	(0)	SIGNED	4	ALCXT_RECOVERYPOSTWAITDATA	Data for RecoveryPostWait
12	(C)	X'C'	0	ALCXT_DATAAREA_LEN	"*-ALCXT_DATAAREA"

Table 370. Structure ALCXT_DDLIST

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	0	ALCXT_DDLIST	
0	(0)	CHARACTER	8	ALCXT_DDENTRY	
0	(0)	CHARACTER	8	ALCXT_DDNAME	List of DDnames
CONSTANTS					
0	(0)	X'1'	0	KALCXT_VERSION_1	"1" version number
0	(0)	X'1'	0	KALCXT_BATCHBEGIN	"1" Batch request- Begin function
0	(0)	X'2'	0	KALCXT_BATCHEND	"2" Batch request- End function
0	(0)	X'3'	0	KALCXT_DYNBEGIN	"3" dynalloc request Begin function
0	(0)	X'4'	0	KALCXT_DYNEND	"4" dynalloc request End function
0	(0)	X'5'	0	KALCXT_ALLOCATIONABENDED	"5" Allocation Abended function
0	(0)	X'6'	0	KALCXT_DYNCONCAT	"6" Concatenate DD function
0	(0)	X'7'	0	KALCXT_DYNDECONCAT	"7" Deconcatenate DD function
0	(0)	X'8'	0	KALCXT_BATCHUNALLOC	"8" Unallocation (batch)
0	(0)	X'9'	0	KALCXT_DYNUNALLOC	"9" Unallocation (Dynamic)
0	(0)	X'A'	0	KALCXT_RECOVERYPREWAIT	"10" Recovery Allocation is about to enter a wait
0	(0)	X'B'	0	KALCXT_RECOVERYPOSTWAIT	"11" Recovery Allocation has just completed a wait
0	(0)	X'0'	0	KALCXT_GOODRC	"0" Good Retcode in Allocation
0	(0)	X'4'	0	KALCXT_FAILRC	"4" Failure Retcode in Allocation

Table 370. Structure ALCXT_DDLIST (continued)

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
0	(0)	X'8'	0	ALCXT_DDLIST_LEN	"*-ALCXT_DDLIST"

Table 371. Cross Reference for IEFALCXT

Name	Offset	Hex	Tag
ALCXT	0		
ALCXT_ALLOCTIONABENDED	0		
ALCXT_BATCHBEGINDATA	0		
ALCXT_BATCHENDDATA	0		
ALCXT_BATCHRC	8		
ALCXT_BATCHUNALLOC_RC	8		
ALCXT_BATCHUNALLOCDATA	0		
ALCXT_CONCATDATA	0		
ALCXT_CONCATDATA@	4		
ALCXT_CONCATDDNUMBER	0		
ALCXT_DATA@	24		
ALCXT_DATAAREA	0		
ALCXT_DATAAREA_LEN	C		C
ALCXT_DENTRY	0		
ALCXT_DDLIST	0		
ALCXT_DDLIST_LEN	0		8
ALCXT_DDNAME	0		
ALCXT_DECONCATDATA	0		
ALCXT_DECONCATDATA@	4		
ALCXT_DECONCATDDNUMBER	0		
ALCXT_DYNBEGIN_DDNAME	0		
ALCXT_DYNBEGINDATA	0		
ALCXT_DYNEND_DDNAME	0		
ALCXT_DYNENDDATA	0		
ALCXT_DYNRC	8		
ALCXT_DYNUNALLOC_DD	0		
ALCXT_DYNUNALLOC_RC	8		
ALCXT_DYNUNALLOCDATA	0		
ALCXT_FN	22		
ALCXT_ID	0		
ALCXT_JOBNAME	A		
ALCXT_LEN	24		28
ALCXT_LENGTH	8		
ALCXT_PROCSTEPNAME	1A		
ALCXT_RECOVERYPOSTWAITDATA	0		
ALCXT_RECOVERYPREWAITDATA	0		
ALCXT_STEPNAME	12		
ALCXT_VERSION	6		
KALCXT_ALLOCATIONABENDED	0		5
KALCXT_BATCHBEGIN	0		1
KALCXT_BATCHEND	0		2
KALCXT_BATCHUNALLOC	0		8
KALCXT_DYNBEGIN	0		3

IEFALCXT mapping

Table 371. Cross Reference for IEFALCXT (continued)

Name	Offset	Hex Tag
KALCXT_DYNCONCAT	0	6
KALCXT_DYNDECONCAT	0	7
KALCXT_DYNEND	0	4
KALCXT_DYNUNALLOC	0	9
KALCXT_FAILRC	0	4
KALCXT_GOODRC	0	0
KALCXT_RECOVERYPOSTWAIT	0	B
KALCXT_RECOVERYPREWAIT	0	A
KALCXT_VERSION_1	0	1

Chapter 72. IEFCTUX Information

IEFCITUX Heading Information

Common Name: Converter/Interpreter User Exit Trace Record Mapping
Macro ID: IEFCTUX
DSECT Name: TUX
Owning Component: Converter/Interpreter - CI (SC1B9)
Eye-Catcher ID: None
Storage Attributes: Subpool: 0
Key: 1
Residency: Any
Size: 160 (decimal)
FREQUENCY =
2 per IEFUJV invocation while GTF
is active for the id. There are 2
invocations to IEFUJV from the
Converter and 1 invocation to
IEFUJV from the Interpreter.
Created by: Converter and Interpreter when GTF is active
for ID=X'F63'
Pointed to by: Presented as GTF trace records
Serialization: None
Function: This macro maps the record used in the GTF tracing
of the IEFUJV exit

IEFCITUX mapping

Table 372. Structure TUX

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	160	TUX	
0	(0)	CHARACTER	8	TUXORIGN	Name of module
8	(8)	CHARACTER	6	TUXSTATE	State of trace record
14	(E)	CHARACTER	4	TUXRC15	Return code from UJV exit
18	(12)	CHARACTER	24	TUXUJVP	IEFUJV parameter list
42	(2A)	CHARACTER	36	TUXSMFP	SMF common exit parameter list
78	(4E)	CHARACTER	80	TUXJCLIM	80-byte JCL image
158	(9E)	CHARACTER	1	TUXFUNCD	Function code
159	(9F)	CHARACTER	1	TUXJESOP	JES options to converter

IEFCITUX mapping

Chapter 73. IEFCNPRM Information

IEFCNPRM Heading Information

Common Name: Converter Parameter List
 Macro ID: IEFCNPRM
 DSECT Name: CNPRM, CNPREXIT
 Owing Component: Converter (SC1B9)
 Eye-Catcher ID: CNPR
 Offset: 0
 Length: 4
 Storage Attributes: Subpool: Any private area subpool
 Key: Key of caller
 Residency: Above or Below
 Size: 144 decimal (for version=3)
 = 120 decimal (for version=2)
 FREQUENCY = 1 per instance of a converter
 Created by: Caller of the MVS Converter
 Pointed to by: Register 1 contains the address of
 CNPRM upon entry to the Converter,
 CNPRXLST points to CNPREXIT when exits
 are included.
 Serialization: None
 Function: Maps the input to the MVS Converter.

IEFCNPRM mapping

Table 373. Structure CNPRM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	144	CNPRM	
0	(0)	CHARACTER	8	CNPRHDR	
0	(0)	CHARACTER	4	CNPRACRO	Acronym "CNPR"
4	(4)	UNSIGNED	2	CNPRVERS	Version number
6	(6)	UNSIGNED	2	CNPRLNTH	Length
8	(8)	ADDRESS	4	CNPRENV	Address of existing converter environment
12	(C)	SIGNED	4	CNPRREAS	Converter reason code, further defines register 15 return code
16	(10)	CHARACTER	4	CNPRSSYS	Name of the subsystem that selected this job
20	(14)	UNSIGNED	4	CNPRCONS	Console Identifier
Converter Option Switches					
24	(18)	BITSTRING	1	CNPROPTS	Converter options switches (Same offset as NELOPSWT in the IEFNEL)
		1...		CNPRSMF	If zero, indicates a started task
		.1...		CNPRTSOP	Term=TS has been specified and overrides all other parms on the DD statement

IEFCNPRM mapping

Table 373. Structure CNPRM (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
		..1.	....		CNPRNOWT	Do not wait for JCLLIB to be recalled
		...1	....		CNPRWEE	Wait for JCLLIB if data set is exclusively ENQueued
		....	1...		CNPRNEW	New format parameter list
		....	.1..		CNPRTERM	Terminate Converter Env.
		....	..1.		CNPRRGNX	0=CNPRREG contains default size of entire region. 1=CNPRREG contains default below-the-line region and CNPRREGA contains default above-the-line region
		....	...1		*	Reserved
25	(19)	BITSTRING		1	CNPRJBFL	JOB level flags
		1111	....		*	Reserved
		....	1...		CNPRJCLI	JCLLIB processed
		....	.111		*	Reserved
26	(1A)	CHARACTER		2	*	Reserved
28	(1C)	CHARACTER		16	CNPRACBS	ACBs passed to the converter
28	(1C)	ADDRESS		4	CNPRTXT	Address of open ACB for the MVS/CI text data set
32	(20)	ADDRESS		4	CNPRMSG	Address of open ACB for message data set
36	(24)	ADDRESS		4	CNPRJCL	Address of open ACB for spooled JCL data set
40	(28)	ADDRESS		4	CNPRSTMT	Address of open ACB for statement image data set
44	(2C)	ADDRESS		4	CNPRJMR	Address of job management record
48	(30)	ADDRESS		4	CNPRPROC	Address of open DCB for procedure library
52	(34)	ADDRESS		4	CNPRXLST	Address of list of special converter exits mapped by CNPREXIT
56	(38)	ADDRESS		4	CNPRSSYM	Address of a string of data in SET statement format defining system symbolics and associated values
60	(3C)	SIGNED		2	CNPRSYML	Length of string of system symbolics

The following 24 bytes are set by the JES according to their whims (such as the CIPARM in the JES3 inish deck.) Do not assume you use any bits or bytes between CNPRPARM and CNPRMLV2.

62	(3E)	BITSTRING		1	CNPRPARM	Parameter options
		1111	....		*	Reserved
		....	1...		*	Reserved
		....	.1..		CNPRSWAA	User SWA Above indicator
		....	..1.		CNPRACCT	Account number required
		....	...1		CNPRPGMN	Programmer name required
63	(3F)	CHARACTER		2	CNPRJPTY	Default JOB priority
65	(41)	CHARACTER		8	CNPRTIME	Default for JOB time limit
65	(41)	CHARACTER		6	CNPRMIN	Default minutes
71	(47)	CHARACTER		2	CNPRSEC	Default seconds
73	(49)	CHARACTER		5	CNPRREG	Region size including the unit of K or M (e.g. 2048M or 0512K)

Table 373. Structure CNPRM (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
78	(4E)	CHARACTER		1	CNPRCMD5	Command Disposition 0 - Execute command 1 - Display and execute command 2 - Display and request disp 3 - Ignore command
79	(4F)	CHARACTER		1	CNPRLABL	Label Processing 0 - BLP will be treated as NL 1 - BLP will be treated as bypass label
80	(50)	CHARACTER		4	CNPRAUTH	MCS command authority
84	(54)	CHARACTER		2	CNPRMSG1	Message Level Defaults
84	(54)	CHARACTER		1	CNPRMLV1	Default for printing JCL statements
85	(55)	CHARACTER		1	CNPRMLV2	Default for printing messages
86	(56)	CHARACTER		1	CNPRMCLS	Default message class
87	(57)	BITSTRING		1	CNPR_JOBCLASS_ATTR	JOBCLASS attributes flags
			1... ..		CNPR_DSENQSHR_AUTO	DSENQSHR JOBCLASS attribute AUTO
			.1.. ..		CNPR_DSENQSHR_ALLOW	DSENQSHR JOBCLASS attribute ALLOW NOTE: ALLOW is the default for HBB7790 installations. If this is a downlevel installation, it will assume the value of DISALLOW (which is 0). Therefore, the function will always be disabled on HBB7780 & below level installations
			..1.		CNPR_SYSSYM_ALLOW	SYSSYM JOBCLASS attribute Use of system symbols in batch job JCL is allowed
			...1 1111		*	Reserved and available
88	(58)	CHARACTER		8	CNPRJDVT	JDVT name if the default JDVT is not to be used. Nulls indicate to use the default
96	(60)	ADDRESS		4	CNPREXTP	Address of parameter area to be communicated to the exits out of the converter supported by JES. Value is passed in the third word of the parameter list to the Post Scan Text Exit
100	(64)	BITSTRING		1	CNPROPT1	Parameter options (not passed to exit) Copied as a byte, not individually
			1... ..		CNPRSWTO	Suppress WTO messages
			.1.. ..		CNPRDJLI	Disable JCLLIB
			..1.		CNPRDIF	Disable IF THEN ELSE
			...1		CNPRDINC	Disable INCLUDE
			.... 1..		CNPR1STM	Converter is to process only the first statement
			.... .1..		CNPRMERG	Converter is to merge two input statements
101	(65)	CHARACTER		1	*	Reserved
102	(66)	UNSIGNED		2	CNPRASID	Address Space Identifier to be used to find START symbolic parameters
104	(68)	ADDRESS		4	CNPRSYMT	Address of system symbolic table to be used by the Converter

IEFCNPRM mapping

Table 373. Structure CNPRM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
108	(6C)	ADDRESS	4	CNPRJSYM	Address of JCL symbols, mapped by IEFSJSYD, to be used by the Converter (Note that JCL SET statements within the JCL will override these values.)
112	(70)	SIGNED	4	CNPBCP_LEVEL	Minimum level of MVS BCP required to execute functions in this job or 0 (no specific level req'd). This is output from Converter. Values used here correspond to values defined for ECVTPSEQ.
116	(74)	ADDRESS	4	CNPJOBCORRELATOR_PTR	Job correlator for this job, used to uniquely track individual jobs. Correlators are 64 bytes long.
Version 3 (or greater) extension. Exists if CNPRRGNX = 1 and/or CNPVERS => 3.					
120	(78)	CHARACTER	6	CNPRREGA	Above-the-line region size including the unit K, M, or G (e.g. 16383K). Valid when CNPRRGNX = 1.
126	(7E)	CHARACTER	18	*	Reserved

Table 374. Structure CNPREXIT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	*	CNPREXIT	
0	(0)	CHARACTER	8	CNPRXHR	Exit list header
0	(0)	SIGNED	2	CNPRXLEN	Length of all exit entries
2	(2)	CHARACTER	6	*	Reserved
8	(8)	CHARACTER	8	CNPRXENT(*)	Array of exit list entries
8	(8)	CHARACTER	1	CNPRLKID	Linkage Identification
9	(9)	CHARACTER	1	CNPREXID	Exit Identification
10	(A)	CHARACTER	6	CNPREXEP	Entry point name specified
10	(A)	CHARACTER	2	*	
12	(C)	ADDRESS	4	CNPREXAD	Entry point address specified

Table 375. Structure JES_OPEN_SYSIN_PARMLST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	16	JES_OPEN_SYSIN_PARMLST	
0	(0)	SIGNED	4	JES_OPEN_SEQ_NUM	DS Seq number
4	(4)	CHARACTER	12	*	Reserved

Table 376. Structure JES_PUT_SYSIN_PARMLST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	16	JES_PUT_SYSIN_PARMLST	
0	(0)	ADDRESS	4	JES_PUT_RECORD@	Rec Addr

Table 376. Structure JES_PUT_SYSIN_PARMLST (continued)

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
4	(4)	CHARACTER	12	*	Reserved

Table 377. Structure JES_CLOSE_SYSIN_PARMLST

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	16	JES_CLOSE_SYSIN_PARMLST	
0	(0)	CHARACTER	16	*	Reserved

Table 378. Constants for IEFCNPRM

Len	Type	Value	Name	Description
4	DECIMAL	3	CNPRCVER	Current version number
4	DECIMAL	3	CNPR@L9	Version number for @L9
4	DECIMAL	2	CNPR\$01	Version number for \$01 cleanup
1	HEX	80	CNPRXNAM	Entry point specified by name
1	HEX	20	CNPRXADD	Entry point specified as an address
1	HEX	00	CNPRXNOP	Ignore this exit entry
1	HEX	80	CNPRXTX	ID for Post Scan Text Exit
1	HEX	40	CNPROPEN	ID for Open SYSIN DS exit@L4A
1	HEX	20	CNPRPUT	ID for put sysin DS exit
1	HEX	10	CNPRCLOS	ID for Close SYSIN exit.
1	HEX	09	CNPRUJVV	IEFUJV with environment information

Table 379. Cross Reference for IEFCNPRM

Name	Offset	Hex	Tag
CNPBCP_LEVEL	70		
CNPJOBBCORRELATOR_PTR	74		
CNPR_DSENQSHR_ALLOW	57	40	
CNPR_DSENQSHR_AUTO	57	80	
CNPR_JOBCLASS_ATTR	57		
CNPR_SYSSYM_ALLOW	57	20	
CNPRACBS	1C		
CNPRACCT	3E	02	
CNPRACRO	0		
CNPRASID	66		
CNPRAUTH	50		
CNPRCMDS	4E		
CNPRCONS	14		
CNPRDIF	64	20	
CNPRDINC	64	10	
CNPRDJLI	64	40	
CNPRENV	8		
CNPREXAD	C		
CNPREXEP	A		
CNPREXID	9		
CNPREXIT	0		

IEFCNPRM mapping

Table 379. Cross Reference for IEFCNPRM (continued)

Name	Offset	Hex Tag
CNPREXTP	60	
CNPRHDR	0	
CNPRJBFL	19	
CNPRJCL	24	
CNPRJCLI	19	08
CNPRJDVT	58	
CNPRJMR	2C	
CNPRJPTY	3F	
CNPRJSYM	6C	
CNPRLABL	4F	
CNPRLKID	8	
CNPRLNTH	6	
CNPRM	0	
CNPRMCLS	56	
CNPRMERG	64	04
CNPRMIN	41	
CNPRMLV1	54	
CNPRMLV2	55	
CNPRMSG	20	
CNPRMSGL	54	
CNPRNEW	18	08
CNPRNOWT	18	20
CNPROPTS	18	
CNPROPT1	64	
CNPRPARM	3E	
CNPRPGMN	3E	01
CNPRPROC	30	
CNPREAS	C	
CNPRREG	49	
CNPRREGA	78	
CNPRRGX	18	02
CNPRSEC	47	
CNPRSMF	18	80
CNPRSSYM	38	
CNPRSSYS	10	
CNPRSTMT	28	
CNPRSWAA	3E	04
CNPRSWTO	64	80
CNPRSYML	3C	
CNPRSYMT	68	
CNPRTERM	18	04
CNPRTIME	41	
CNPRTSOP	18	40
CNPRTXT	1C	
CNPRVERS	4	
CNPRWEE	18	10
CNPRXENT	8	
CNPRXHR	0	
CNPRXLEN	0	

Table 379. Cross Reference for IEFCNPRM (continued)

Name	Offset	Hex Tag
CNPRXLST	34	
CNPR1STM	64	08
JES_CLOSE_SYSIN_PARMLST	0	
JES_OPEN_SEQ_NUM	0	
JES_OPEN_SYSIN_PARMLST	0	
JES_PUT_RECORD@	0	
JES_PUT_SYSIN_PARMLST	0	

IEFCNPRM mapping

Chapter 74. IEFDELT Information

IEFDELT Programming Interface Information

IEFDELT is a programming interface.

IEFDELT Heading Information

Common Name: Eligible Device Table (EDT) Latch Table
 Macro ID: IEFDELT
 DSECT Name: ELT
 Owning Component: Allocation (SC1B4)
 Eye-Catcher ID: ELT
 Offset: 0
 Length: 4
 Storage Attributes: Main Storage: YES
 Virtual Storage: N/A
 Auxiliary Storage: N/A
 Subpool: 230
 Key: Caller key
 Residency: ANY
 Size: ELT -- X'0040' bytes
 Created by: IEFEIS01
 Pointed to by: BASED()
 Serialization: None
 Function: Maps the output areas for the EDTINFO RTNEDTLT service.

IEFDELT mapping

Table 380. Structure ELT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ELT	
0	(0)	CHARACTER	32	ELT_HEADER	ELT header
0	(0)	CHARACTER	4	ELT_ID	Eye-catcher 'ELT '
4	(4)	BITSTRING	1	ELT_VERSION	Version number
5	(5)	BITSTRING	1	ELT_SUBPOOL	Subpool where the ELT resides
6	(6)	CHARACTER	1	ELT_FLAGS	Flags

Bit definitions:

1...	ELT_EDTVAL	"X'80" EDT for this ELT exists
The original/intermediate/final ELT flags are only set when transitioning from one EDT to another. If no EDT transition is occurring, none will be set.		
.1..	ELT_ORIGINAL	"X'40" EDT for this ELT is the original EDT
..1.	ELT_INTERMED	"X'20" EDT for this ELT is the intermediate EDT
...1	ELT_FINAL	"X'10" EDT for this ELT is the final EDT

IEFDELT mapping

Table 380. Structure ELT (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
7	(7)	CHARACTER		1		Reserved
8	(8)	SIGNED		4	ELT_LENGTH	Total length of ELT (ELT header + ELT entries)
12	(C)	SIGNED		4	ELT_COUNT	Count of valid latch entries
16	(10)	SIGNED		4	ELT_BINDS	Total number of address spaces bound on the EDT
20	(14)	CHARACTER		12		Reserved
32	(20)	CHARACTER		32	ELT_ENTRY	ELT entry
32	(20)	SIGNED		2	ELT_ASID	Asid where latch exists
34	(22)	CHARACTER		2		Reserved
36	(24)	CHARACTER		8	ELT_JOBNAME	Jobname holding latch
44	(2C)	SIGNED		4	ELT_BIND_COUNT	Count of binds for this address space
48	(30)	CHARACTER		16		Reserved
Constants						
48	(30)	X'D3E340'		0	ELT_ELT	"C'ELT '" ELT control block ID
48	(30)	X'1'		0	ELT_VER	"1" ELT control block version number
48	(30)	X'1'		0	ELT_CUR_VER	"1" ELT current version number
48	(30)	X'E6'		0	ELT_SPN	"230" ELT subpool number
48	(30)	X'F'		0	ELT_MAX_ENT	"15" Maximum of 15 latch entries
48	(30)	X'40'		0	ELT_LEN	"*-ELT"

Table 381. Cross Reference for IEFDELT

Name	Offset	Hex	Tag
ELT	0		
ELT_ASID	20		
ELT_BIND_COUNT	2C		
ELT_BINDS	10		
ELT_COUNT	C		
ELT_CUR_VER	30		1
ELT_EDTVAL	6		80
ELT_ELT	30	D3E340	
ELT_ENTRY	20		
ELT_FINAL	6		10
ELT_FLAGS	6		
ELT_HEADER	0		
ELT_ID	0		
ELT_INTERMED	6		20
ELT_JOBNAME	24		
ELT_LEN	30		40
ELT_LENGTH	8		
ELT_MAX_ENT	30		F
ELT_ORIGINAL	6		40
ELT_SPN	30		E6
ELT_SUBPOOL	5		
ELT_VER	30		1
ELT_VERSION	4		

Chapter 75. IEFDISMP Information

IEFDISMP Programming Interface Information

IEFDISMP is a programming interface.

IEFDISMP Heading Information

Common Name: DD Service Output Mapping
Macro ID: IEFDISMP
DSECT Name: DVAR DVAR_DEVICE_LIST
Owning Component: Allocation (SC1B4)
Eye-Catcher ID: None
Storage Attributes: Main Storage: No
Virtual Storage: Yes
Auxiliary Storage: Yes
Subpool: Determined by caller of IEFDDSRV
or 0, if not specified
Key: Key of caller
Data Space: No
Residency: ABOVE if permitted by subpool,
otherwise BELOW
Size: Variable, contained in DVAR_LENGTH
Created by: IEFADSRV
Pointed to by: Address is stored into the caller's
parameter list
Serialization: Caller should ensure the returned UCBs
are not dynamically deleted.
Function: Maps the output of IEFDDSRV RETRIEVE DEVENTRY
and EXTRACT TYPE=DEVIENTRY requests

IEFDISMP mapping

Table 382. Structure DVAR

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DVAR	Device area
0	(0)	SIGNED	4	(0)	
0	(0)	X'0'	0	DVAR_HEADER	"*" Device area header
0	(0)	BITSTRING	1	DVAR_SUBPOOL	Subpool in which the device area resides
1	(1)	BITSTRING	3	DVAR_LENGTH	Length of the device area
4	(4)	SIGNED	4	DVAR_NUM_DVLIST	Number of device lists returned in the device area
4	(4)	X'8'	0	DVAR_HEADER_END	"*" End of device area header
4	(4)	X'8'	0	DVAR_DEVLST_ADDR_ENTRY	"*" Device list address entry
8	(8)	ADDRESS	4	DVAR_DEVLST_ADDR	Device list address
8	(8)	X'C'	0	DVAR_DEVLST_ADDR_ENTRY_END	"*" End of device list address entry

IEFDISMP mapping

Table 383. Structure DVAR_DEVICE_LIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DVAR_DEVICE_LIST	Device list
0	(0)	X'0'	0	DVAR_LIST_HEADER	"*" Device list header
0	(0)	SIGNED	4	DVAR_NUM_DVENT	Number of entries in the device list
0	(0)	X'4'	0	DVAR_LIST_HEADER_END	"*" End of device area header
0	(0)	X'4'	0	DVAR_LIST_ENTRY	"*" Device list entry
4	(4)	ADDRESS	4	DVAR_DEV_ADDR	UCB address
4	(4)	X'8'	0	DVAR_ENTRY_END	"*" End of device list entry

Table 384. Structure DEVIODEVLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DEVIODEVLIST	DevIO list
0	(0)	X'0'	0	DEVIODEVLISTHEADER	"*" DevIO list header
0	(0)	SIGNED	4	DEVIONUMENTRIES	Number of entries in the DevIO list
0	(0)	X'4'	0	DEVIODEVLISTHEADEREND	"*" End of device area header
0	(0)	X'4'	0	DEVIODEVLISTENTRY	"*" DevIO list entry
4	(4)	ADDRESS	4	DEVIUUCBPTR	UCB address
8	(8)	BITSTRING	8	DEVIOMBLOCKSIZE	Block size
16	(10)	SIGNED	4	DEVIOWEXPCOUNT	# of EXCPs issued against this device
20	(14)	SIGNED	4	DEVIOWCONNECTTIME	Device connect time
20	(14)	X'18'	0	DEVIOWDEVLISTENTRYEND	"*" End of DevIO list entry
Constants					
20	(14)	X'8'	0	DVAR_HDR_LEN	"DVAR_HEADER_END-DVAR_HEADER" Length of the device area header
20	(14)	X'4'	0	DVAR_DEVLIST_ADDR_ENTRY_END-DVAR_DEVLIST_ADD	"DVAR_DEVLIST_ADDR_ENTRY_END-DVAR_DEVLIST_ADD"
0	(0)	X'4'	0	DVAR_DEVLIST_HDR_LEN	"DVAR_LIST_HEADER_END-DVAR_LIST_HEADER" Length of device list header
0	(0)	X'4'	0	DVAR_DEVENT_LEN	"DVAR_ENTRY_END-DVAR_LIST_ENTRY" Length of one device list entry
0	(0)	X'4'	0	DEVIOWDEVLISTHEADERLENGTH	"DevIODevListHeaderEnd-DevIODevListHeader" Length of DevIO list header
0	(0)	X'14'	0	DEVIOWDEVLISTENTRYLENGTH	"DevIODevListEntryEnd-DevIODevListEntry" Length of DevIO list entry

Table 385. Cross Reference for IEFDISMP

Name	Offset	Hex Tag
DEVIOMBLOCKSIZE	8	
DEVIOWCONNECTTIME	14	
DEVIOWDEVLIST	0	

Table 385. Cross Reference for IEFDISMP (continued)

Name	Offset	Hex Tag
DEVIODEVLISTENTRY	0	4
DEVIODEVLISTENTRYEND	14	18
DEVIODEVLISTENTRYLENGTH	0	14
DEVIODEVLISTHEADER	0	0
DEVIODEVLISTHEADEREND	0	4
DEVIODEVLISTHEADERLENGTH	0	4
DEVIODEXCPCOUNT	10	
DEVIONUMENTRIES	0	
DEVIUOUCBPTR	4	
DVAR	0	
DVAR_DEV_ADDR	4	
DVAR_DEVENT_LEN	0	4
DVAR_DEVICE_LIST	0	
DVAR_DEVLST_ADDR	8	
DVAR_DEVLST_ADDR_ENTRY	4	8
DVAR_DEVLST_ADDR_ENTRY_END	8	C
DVAR_DEVLST_ADDRENT_LEN	14	4
DVAR_DEVLST_HDR_LEN	0	4
DVAR_ENTRY_END	4	8
DVAR_HDR_LEN	14	8
DVAR_HEADER	0	0
DVAR_HEADER_END	4	8
DVAR_LENGTH	1	
DVAR_LIST_ENTRY	0	4
DVAR_LIST_HEADER	0	0
DVAR_LIST_HEADER_END	0	4
DVAR_NUM_DVENT	0	
DVAR_NUM_DVLIST	4	
DVAR_SUBPOOL	0	

IEFDISMP mapping

Chapter 76. IEFDISRC Information

IEFDISRC Programming Interface Information

IEFDISRC is a programming interface.

IEFDISRC Heading Information

Common Name: DD Service Return and Reason Codes
Macro ID: IEFDISRC
DSECT Name: N/A
Owning Component: Allocation (SC1B4)
Eye-Catcher ID: NONE
Storage Attributes: Main Storage: N/A
Virtual Storage: N/A
Auxiliary Storage: N/A
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 the return and reason codes used by DD service.

IEFDISRC mapping

Table 386. Structure

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

IEFDISRC mapping

Table 386. Structure (continued)

Offset Dec	Offset Hex Type	Len	Name(Dim)	Description
%DISRCASM: ;				
START OF SPECIFICATIONS				
01	MACRO NAME =		IEFDISRC	
01	DESCRIPTIVE NAME =		DD Service Return and Reason Codes	
01	PROPRIETARY STATEMENT=		PROPRIETARY_STATEMENT	
LICENSED MATERIALS - PROPERTY OF IBM				
5650-ZOS COPYRIGHT IBM CORP. 1994, 2015				
STATUS= HBB77A0				
END_OF_PROPRIETARY_STATEMENT				
01	FUNCTION =		Defines the return and reason codes used by DD service.	
01	EXTERNAL CLASSIFICATION:		GUPI	
01	END OF EXTERNAL CLASSIFICATION:			
01	NOTES =		None	
02	DEPENDENCIES =			
- This macro should be updated if new return or reason codes are defined for the IEFDDSRV service.				
02	RESTRICTIONS =		None	
INVOCATION				
01	METHOD OF ACCESS =			
02	BAL =			
IEFDISRC				
02	PL/AS =			
%INCLUDE SYSLIB(IEFDISRC)				
01	DSECT NAME =		N/A	
01	COMPONENT =		Allocation (SC1B4)	
01	EYE CATCHER =		NONE	
02	OFFSET =		N/A	
02	LENGTH =		N/A	
01	CREATED BY =		N/A	
01	POINTED TO BY =		N/A	
01	SERIALIZATION =		N/A	
01	STORAGE ATTRIBUTES =			
02	MAIN STORAGE =		N/A	
02	VIRTUAL STORAGE =		N/A	
02	AUXILIARY STORAGE =		N/A	
02	SUBPOOL =		N/A	
02	KEY =		N/A	
02	RESIDENCY =		N/A	
02	FREQUENCY =		N/A	
01	SIZE =		N/A	
01	CHANGE ACTIVITY =			
\$L0= UCBVP HBB5520 940210 PDEM: UCBVS support				
\$P1= PN71717 HBB5520 941020 PDEM: Add reason codes				
\$P2= PN71431 HBB5520 941020 PDEM: Add reason codes				
\$P3= PYN0203 HBB7708 020228 PDNN: Add reason codes				
\$P4= PYN1119 HBB7708 030620 PDNN: Repair PYN0203				
\$L1= ALLOPERF HBB7770 090530 PDHV: Allocation performance				
IEFDDSRV updates				
\$L2= ALLOPERF HBB7770 090630 PDHV: Allocation performance				
IEFDDSRV MODIFY				
\$P5= ME17326 HBB7770 100110 PDHV: IEFDDSRV updates				
\$P6= ME21797 HBB7790 111028 PDTA: Do not allow DSENQMGMT=MEMORY				
for ASID 1				

Table 386. Structure (continued)

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
\$L3=	ALC2MDS	HBB77A0	130914	PDTA:	IEFDDSRV AREALEN support
\$O2=	0A45195	HBB7770	140701	PDTA:	Update TCBPTR= documentation
\$P7=	ME27909	HBB77A0	141028	PDTA:	Cross-memory IEFDDSRV
					END OF SPECIFICATIONS
IEFDISRC	- A	- 000000-999999			
IEFDISRC	- A	- Added the following invalid parameter reason codes (in decimal):			
		- 20 The specified ACB pointer is 0			
		- 24 Bad input parameters			
	- A	- Added return/reason codes for recovery			
IEFDISRC	- A	- Added the following request failed reason codes (in decimal):			
		- 12 TIOT ENQ failed			
		- 16 Failed to obtain lock			
		- 20 Invalid TCB			
IEFDISRC	- A	- Added the following request failed reason code (in decimal):			
		- 24 DSAB resides above the 16MB line but LOC=ANY was not specified			
IEFDISRC	- A	- Added the following request failed reason code (in decimal):			
		- 28 DSAB obtained from the input DCB/ACB resides above the 16MB line but LOC=ANY was not specified			
		Note: PYN0203 added both codes to the assembler but failed to add this code to the PLX declares.			
IEFDISRC	- A	- Added the following reason codes in support of ALLOPERF:			
		08/0020 - VERSION and parameter list length were inconsistent			
		08/0024 - The parameter list version does not support the IEFDDSRV function requested			
		08/0028 - The parameter list version is higher than is supported by IEFDDSRV			
		0C/0100 - The DD name cannot be modified while the DD is open			
		0C/0104 - The requested feature has not been enabled by the installation			
		0C/0108 - The requested new DDNAME does not follow the documented rules for a DDNAME			
		0C/010C - The DD to be modified is concatenated to a named DD			
		0C/0128 - The DD to be modified is in an inconsistent state and cannot be modified.			

IEFDISRC mapping

Table 386. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		0C/012C			- The requested feature is already set.
		0C/0130			- The requested DDNAME is already in use by another DD.
IEFDISRC	- A	- Added the following reason codes in support of ME17326:			
		08/002C			- The function in the parameter list is not supported by IEFDDSRV
IEFDISRC	- A	- Added reason code 0C/0134.			
IEFDISRC	- A	- Added 08/0030 and 0C/0024.			
IEFDISRC	- C	- Update documentation for 0C/0014.			
IEFDISRC	- C	- Add the following reason codes:			
		08/0034			- Unsupported environment
		04/0004			- Insufficient length. This replaces 0C/0024.
%GOTO DISRCPLX;					
IEFDDSRV RETURN CODES (decimal)					
0	(0)	X'0'	0	DDSRV_SUCCESS	"0" X'000' IEFDDSRV completed successfully
0	(0)	X'0'	0	DDSRV_FUNCTION_COMPLETE	"0" X'000' Function completed
0	(0)	X'4'	0	DDSRV_WARNING	"4" X'004' Function completed with a warning
0	(0)	X'8'	0	DDSRV_INVALID_PARAMETERS	"8" X'008' Invalid input parameters to IEFDDSRV
0	(0)	X'C'	0	DDSRV_REQUEST_FAIL	"12" X'00C' IEFDDSRV request failed
0	(0)	X'10'	0	DDSRV_RCVENT	"16" X'010' IEFDDSRV recovery entered
0	(0)	X'0'	0	DDSRV_RSN_OK	"0" X'000' Success reason code
0	(0)	X'0'	0	DDSRV_RCN_OK	"DDSRV_RSN_OK" X'000' Success reason code. Defined to be consistent with the definitions in the section below. DDSRV_RSN_OK is preferred
IEFDDSRV REASON CODES (decimal)					
RETURN CODE DDSRV_WARNING (decimal)					
0	(0)	X'4'	0	DDSRV_INSUFFICIENT_LENGTH	"4" X'004' Insufficient AREALEN to contain the output. The necessary length is in the DVAR_LENGTH field of the output area
RETURN CODE DDSRV_INVALID_PARAMETERS (decimal)					
0	(0)	X'4'	0	DDSRV_BLANK_DDNAME	"4" X'004' The specified or obtained DD name is blank
0	(0)	X'8'	0	DDSRV_ZERO_DSAB	"8" X'008' The specified or obtained DSAB pointer is zero
0	(0)	X'C'	0	DDSRV_ZERO_DCB	"12" X'00C' A zero DCB pointer was specified
0	(0)	X'10'	0	DDSRV_INVALID_SUBPOOL	"16" X'010' An invalid subpool was specified
0	(0)	X'14'	0	DDSRV_ZERO_ACB	"20" X'014' A zero ACB pointer was specified
0	(0)	X'18'	0	DDSRV_BAD_PARM	"24" X'018' Bad input parms

Table 386. Structure (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
0	(0)	X'18'		0	DDSRV_INPUT_DSAB_ABOVE	"24" X'018' The input DSAB resides above the 16MB line but LOC=ANY was not specified
0	(0)	X'18'		0	DDSRV_DSAB_ABOVE	"DDSRV_INPUT_DSAB_ABOVE" X'018' The input DSAB resides above the 16MB line but LOC=ANY was not specified. Defined to be consistent with the definitions in the section below.
0	(0)	X'20'		0	DDSRV_MISMATCHED_VERSLEN	"32" X'020' VERSION and parameter list length were inconsistent
0	(0)	X'24'		0	DDSRV_UNSUPPORTED_VERSFUNC	"36" X'024' The parameter list version does not support the IEFDDSRV function requested
0	(0)	X'28'		0	DDSRV_UNSUPPORTED_VERSION	"40" X'028' The parameter list version is higher than is supported by IEFDDSRV
0	(0)	X'2C'		0	DDSRV_UNSUPPORTED_FUNCTION	"44" X'02C' The function in the parameter list is not supported by IEFDDSRV
0	(0)	X'30'		0	DDSRV_AREALEN_MINIMUM_LENGTH	"48" X'030' The AREALEN is smaller than the minimum length
0	(0)	X'34'		0	DDSRV_UNSUPPORTED_ENVIRONMENT	"52" X'034' Invalid environment for the specified function (cross- memory).
RETURN CODE DDSRV_REQUEST_FAIL (decimal)						
0	(0)	X'4'		0	DDSRV_INVALID_DDNAME	"4" X'004' The specified or obtained DD name is invalid
0	(0)	X'8'		0	DDSRV_INVALID_DSAB	"8" X'008' The specified or obtained DSAB pointer is invalid
0	(0)	X'C'		0	DDSRV_TIOTENQ_FAIL	"12" X'00C' Failed to obtain TIOT resource or resource was held with shared control when exclusive control of the resource was required
0	(0)	X'10'		0	DDSRV_LOCK_FAIL	"16" X'010' Failed to obtain lock
0	(0)	X'14'		0	DDSRV_INVALID_TCB	"20" X'014' The specified TCB pointer does not point to a valid TCB, or points to a TCB that is not valid for this request.
0	(0)	X'1C'		0	DDSRV_OBTAINED_DSAB_ABOVE	"28" X'01C' The DSAB obtained from the input DCB/ACB resides above the 16MB line but LOC=ANY was not specified
0	(0)	X'20'		0	DDSRV_TCTTIOT_OFFSET_ZERO	"32" X'020' The TCTTIOT offset obtained from the DSAB is zero
0	(0)	X'100'		0	DDSRV_DD_IS_OPEN	"256" X'100' The DD name cannot be modified while the DD is open

IEFDISRC mapping

Table 386. Structure (continued)

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
0	(0)	X'104'	0	DDSRV_FEATURE_NOT_ENABLED	"260" X'104' The requested feature has not been enabled by the installation
0	(0)	X'108'	0	DDSRV_INVALID_NEWDDNAME	"264" X'108' The requested new DDNAME does not follow the documented rules for a DDNAME
0	(0)	X'10C'	0	DDSRV_DD_IN_CONCATENATION	"268" X'10C' The DD to be modified is concatenated to a named DD
0	(0)	X'128'	0	DDSRV_DD_VALIDATION_FAILED	"296" X'128' The DD to be modified is in an inconsistent state and cannot be modified.
0	(0)	X'12C'	0	DDSRV_FEATURE_ALREADY_SET	"300" X'12C' The requested feature is already set.
0	(0)	X'130'	0	DDSRV_DD_NAME_ALREADY_IN_USE	"304" X'130' The requested DDNAME is already in use by another DD.
0	(0)	X'134'	0	DDSRV_ASID_1_NOT_ALLOWED	"308" X'134' The requested function is not allowed from ASID 1

Table 387. Cross Reference for IEFDISRC

Name	Offset	Hex Tag
DDSRV_AREALEN_MINIMUM_LENGTH	0	30
DDSRV_ASID_1_NOT_ALLOWED	0	134
DDSRV_BAD_PARM	0	18
DDSRV_BLANK_DDNAME	0	4
DDSRV_DD_IN_CONCATENATION	0	10C
DDSRV_DD_IS_OPEN	0	100
DDSRV_DD_NAME_ALREADY_IN_USE	0	130
DDSRV_DD_VALIDATION_FAILED	0	128
DDSRV_DSAB_ABOVE	0	18
DDSRV_FEATURE_ALREADY_SET	0	12C
DDSRV_FEATURE_NOT_ENABLED	0	104
DDSRV_FUNCTION_COMPLETE	0	0
DDSRV_INPUT_DSAB_ABOVE	0	18
DDSRV_INSUFFICIENT_LENGTH	0	4
DDSRV_INVALID_DDNAME	0	4
DDSRV_INVALID_DSAB	0	8
DDSRV_INVALID_NEWDDNAME	0	108
DDSRV_INVALID_PARAMETERS	0	8
DDSRV_INVALID_SUBPOOL	0	10
DDSRV_INVALID_TCB	0	14
DDSRV_LOCK_FAIL	0	10
DDSRV_MISMATCHED_VERSLEN	0	20
DDSRV_OBTAINED_DSAB_ABOVE	0	1C
DDSRV_RCN_OK	0	0
DDSRV_RCVENT	0	10
DDSRV_REQUEST_FAIL	0	C

Table 387. Cross Reference for IEFDISRC (continued)

Name	Offset	Hex Tag
DDSRV_RSN_OK	0	0
DDSRV_SUCCESS	0	0
DDSRV_TCTTIOT_OFFSET_ZERO	0	20
DDSRV_TIOTENQ_FAIL	0	C
DDSRV_UNSUPPORTED_ENVIRONMENT	0	34
DDSRV_UNSUPPORTED_FUNCTION	0	2C
DDSRV_UNSUPPORTED_VERSFUNC	0	24
DDSRV_UNSUPPORTED_VERSION	0	28
DDSRV_WARNING	0	4
DDSRV_ZERO_ACB	0	14
DDSRV_ZERO_DCB	0	C
DDSRV_ZERO_DSAB	0	8

IEFDISRC mapping

Chapter 77. IEFDISXT Information

IEFDISXT Programming Interface Information

IEFDISXT is a programming interface.

IEFDISXT Heading Information

Common Name: IEF_ALLC_MOD exit parameter list
 Macro ID: IEFDISXT
 DSECT Name: DISXT_PARMLIST
 Owing Component: Allocation (SC1B4)
 Eye-Catcher ID: DISXT
 Offset: 0
 Length: 6
 Storage Attributes: Virtual Storage: YES
 Subpool: 230
 Key: 1
 Size: 56 bytes
 DISXT_PARMLIST -- X'0038' bytes
 Created by: IEFADSM
 Pointed to by: Register 1 on entry
 Serialization: None.
 Function: Contains area for parmlist of IEF_ALLC_MOD

IEFDISXT mapping

Table 388. Structure DISXT_PARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DISXT_PARMLIST	
0	(0)	CHARACTER	6	DISXT_ID	Eyecatcher - 'DISXT '
6	(6)	SIGNED	2	DISXT_VERSION	Version of this parmlist
8	(8)	SIGNED	2	DISXT_LEN	Length of the parmlist
10	(A)	SIGNED	2	DISXT_FN	Modify function
12	(C)	CHARACTER	8	DISXT_JOBNAME	Job name
20	(14)	CHARACTER	8	DISXT_PROCSTEPNAME	the name of the step in the procedure
28	(1C)	CHARACTER	8	DISXT_STEPNAME	job step name
36	(24)	CHARACTER	20	DISXT_PARMS	modify parameters
36	(24)	CHARACTER	20	DISXT_MODIFYALLOCATION	For modify allocation
36	(24)	ADDRESS	4	DISXT_MOD_DSAB@	address of the DSAB of the affected DD
40	(28)	CHARACTER	8	DISXT_OLD_DDNAME	DD name before modify
48	(30)	CHARACTER	8	DISXT_NEW_DDNAME	DD name after modify
Modify function constants					
48	(30)	X'1'	0	KDISXT_VERSION_1	"1"
DISXT_len (modify function) constants					
48	(30)	X'1'	0	KDISXT_MODALDDNAME	"1"
48	(30)	X'38'	0	DISXT_PARMLIST_LEN	"*-DISXT_PARMLIST"

IEFDISXT mapping

Table 389. Cross Reference for IEFDISXT

Name	Offset	Hex Tag
DISXT_FN	A	
DISXT_ID	0	
DISXT_JOBNAME	C	
DISXT_LEN	8	
DISXT_MOD_DSAB@	24	
DISXT_MODIFYALLOCATION	24	
DISXT_NEW_DDNAME	30	
DISXT_OLD_DDNAME	28	
DISXT_PARMLIST	0	
DISXT_PARMLIST_LEN	30	38
DISXT_PARAMS	24	
DISXT_PROCSTEPNAME	14	
DISXT_STEPNAME	1C	
DISXT_VERSION	6	
KDISXT_MODALDDNAME	30	1
KDISXT_VERSION_1	30	1

Chapter 78. IEFDOKEY Information

IEFDOKEY Programming Interface Information

IEFDOKEY is a programming interface.

IEFDOKEY Heading Information

Common Name: Dynamic OUTPUT Key Mapping
Macro ID: IEFDOKEY
DSECT Name: None
Owning Component: Dynamic Output (BB131)
Eye-Catcher ID: None
Storage Attributes: Subpool: N/A
Key: N/A
Residency: N/A
Size: N/A
FREQUENCY = N/A
Created by: N/A
Pointed to by: N/A
Serialization: N/A
Function: This macro maps the Dynamic OUTPUT keys. The keys are passed to Dynamic OUTPUT in text units when Dynamic OUTPUT is invoked via the OUTADD macro. Text unit keys are two bytes in length. The keys are defined in this mapping as EQUates.

IEFDOKEY mapping

Table 390. Structure

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

IEFDOKEY mapping

Table 390. Structure (continued)

Offset Dec	Offset Hex Type	Len	Name(Dim)	Description
%DOKEY1: ;				
	START OF SPECIFICATIONS			
	MACRO NAME = IEFDOKEY			
	ACRONYM = IEFDOKEY			
	DESCRIPTIVE NAME = Dynamic OUTPUT Key Mapping			
01	PROPRIETARY STATEMENT=			
	PROPRIETARY STATEMENT			
	LICENSED MATERIALS - PROPERTY OF IBM			
	5650-ZOS COPYRIGHT IBM CORP. 1988, 2013			
	STATUS= HBB7790			
	END_OF_PROPRIETARY_STATEMENT			
	FUNCTION = This macro maps the Dynamic OUTPUT keys.			
	The keys are passed to Dynamic OUTPUT in text			
	units when Dynamic OUTPUT is invoked via the			
	OUTADD macro. Text unit keys are two bytes			
	in length. The keys are defined in this mapping			
	as EQUates.			
01	EXTERNAL CLASSIFICATION: GUPI			
01	END OF EXTERNAL CLASSIFICATION:			
	NOTES =			
	Bilingual Mapping Macro (PL/S and BAL)			
	Key names consist of the prefix 'DO' followed by			
	the name of the OUTPUT JCL statement keyword which			
	they correspond to, for a maximum length of eight			
	characters. If this scheme does not provide a			
	unique key name, the least significant digit of			
	the key number will be used as a suffix for the			
	key name, i.e.			
	DOMODIF6 EQU X'0016' MODIFY (module name)			
	DOMODIF7 EQU X'0017' MODIFY (TRC)			
	|_suffix_____|			
	of key name obtained from			
	the key number to create			
	unique key names for the			
	MODIFY keys			
	Key names are in alphabetical order. New key			
	labels should be added in the correct position			
	by label name and not key number.			
	INVOCATION			
	METHOD OF ACCESS =			
	BAL = IEFDOKEY			
	PLS = %INCLUDE SYSLIB(IEFDOKEY)			
	DSECT NAME = None			
	COMPONENT = Dynamic Output (BB131)			
	EYE CATCHER = None			
	OFFSET = N/A			
	LENGTH = N/A			
	CREATED BY = N/A			
	POINTED TO BY = N/A			
	DELETED BY = N/A			
	SERIALIZATION = N/A			
	STORAGE ATTRIBUTES = None			
	ALLOCATION METHOD = N/A			
	SUBPOOL = N/A			
	KEY = N/A			

Table 390. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					RESIDENCY = N/A
					SIZE = N/A
					FREQUENCY = N/A
					DISTRIBUTION LIBRARY = AMACLIB
					CHANGE ACTIVITY =
					\$P0= PC20283 JBB2223 870629 PDJY: Dynamic OUTPUT Support
					\$D1= DCR0063 JBB2223 880101 PDJY: Dynamic OUTPUT Support
					\$L1= SP313 JBB3313 880113 PDK1: MVS/SP3.1.3
					\$D2= DCR0318 HBB3310 880118 PDJY: Dynamic OUTPUT Support
					\$L2= EMVS2 HBB4410 880905 PDKK: Enterprise II - ESI
					\$P1= PE01272 HBB4410 881212 PDZ1: Fix EMVS2 declares
					\$P2= PE01579 HBB4410 890403 PDZ1: Alphabetize labels
					\$L3= BPRT HBB4410 891023 PDC9: Boulder Printer Support
					\$T1= OY30620 JBB3313 901001 PDC9: Added USERLIB Key
					\$O1= OY48603 HBB4420 911209 PDDZ: OUTPUT USERDATA Support
					\$P3= PKB3464 HBB4430 920901 PDDZ: SHOWHDR format complete
					\$O2= OW04349 HBB4420 940401 PDCL: OUTBIN Support
					\$P4= PN72253 HBB5520 941221 PDH1: Computer Output Microfiche
					\$O4 = OW13320 HBB5510 950615 PDH1: OVFL Support
					\$O5 = OW21839 HBB4430 960807 PDAS: IP PrintWay
					\$O6 = OW24596 HBB4430 970115 PDAS: Set Media Size Support
					\$O7 = OW27295 HBB5520 970602 PDAS: Open Print/Planform 1133/ Planform 1596 Support
					\$L4 = FSSDATA HBB6605 970819 PDAS: FSSDATA Keyword Support
					\$L5 = CZ4 HBB7707 011219 PDOH: AFPSTATS Keyword Support
					\$L6 = DCO HBB7708 021009 PDOH: Email Keyword Support
					\$L7 = DFV HBB7709 030515 PDKQ: USERPATH Keyword Support
					\$L8 = DFT HBB7730 050301 PD00: PRTATTRS and AFPPARMS keyword support
					\$L9 = ME20682 HBB7780 110201 PDHV: COPYCNT Keyword support
					\$LA = JCLJECL HBB7790 121001 PD00: In support of Common JCL JES2 line item (LI3091) Feature: ME24771
					ME25796 HBB7790 130221 PD00: Fixed Copyright
					END OF SPECIFICATIONS
					A 000000-999999

IEFDOKEY mapping

Table 390. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					D Removed dynamic output from JBB2223
					A ADDED KEYS DODPAGEL AND DOSYSARE
					A Added dynamic output to HBB3310
					A Added new keywords for ESI support - ADDRESS BUILDING DEPT NAME TITLE OUTDISP ROOM
					C Fixed declarations for EMVS2 keywords.
					C Fixed order so the labels are in alphabetical order
					A Added NOTIFY Keyword
					A Added USERLIB key
					A Added USERDATA key (DOUSERDA)
					A Added SHOWHDR details in prologue
					A Added OUTBIN key in support of PSF/MVS 220
					A Added DOCOMSET key in support of the Computer Output Microfiche SPE
					A Added OVFL key in support of JES3 OW11080
					A Added new keywords in support of IP PrintWay RETRYT RETRYL RETAINS RETAINF PRQUEUE PRTOPTNS Modified DEST
					A Added FORMLEN & PRERROR keys in support of Set Media Size
					A Added new keywords in support of Open Print & planforms RESFMT COLORMAP DUPLEX INTRAY OFFSETxx OVERLAYx PORTNO
					A Added FSSDATA key in support of Open Print
					A Added AFPSTATS key
					A Added MAILBCC, MAILCC, MAILFILE, MAILFROM, MAILTO, and REPLYTO keys
					A Added USERPATH key
					A Added PRTATTRS and AFPPARMS keys
					A Added COPYCNT to support more copies than COPIES keyword
					A Added DOMERGE and DODDNAME keys. %GOTO DOKEY2;
					KEYS FOR Dynamic OUTPUT
		..1. .111		DOADDRES	"X'0027'" ADDRESS
		.1.1 ...1		DOAFPPRM	"X'0051'" AFPPARMS
		.1.. 1...		DOAFPST	"X'0048'" AFPPARMS
		..1. 1...		DOBUILD	"X'0028'" BUILDING
		.... ...1		DOBURST	"X'0001'" BURST
		.... ..1.		DOCHARS	"X'0002'" CHARS
		.... ..11		DOCKPTLI	"X'0003'" CKPTLINE
		.... .1..		DOCKPTPA	"X'0004'" CKPTPAGE
		.... .1.1		DOCKPTSE	"X'0005'" CKPTSEC
		.... .11.		DOCLASS	"X'0006'" CLASS
		..11 1.1.		DOCOLORM	"X'003A'" COLORMAP
		.... .111		DOCOMPAC	"X'0007'" COMPACT
		..11 ..1.		DOCOMSET	"X'0032'" COMSETUP
		.... 1...		DOCONTRO	"X'0008'" CONTROL
		.... 1..1		DOCOPIE9	"X'0009'" COPIES
		.... 1.1.		DOCOPIEA	"X'000A'" COPIES (group values)
		.1.1 ..1.		DOCOPYCN	"X'0052'" COPYCNT
0	(0)	BITSTRING	0	DODATAACK	"X'2022'" DATAACK
		.1.1 .1..		DODDNAME	"X'0054'" DDNAME
		.... 1.11		DODEFAUL	"X'000B'" DEFAULT
		..1. 1..1		DODEPT	"X'0029'" DEPT
		.... 11..		DODEST	"X'000C'" DEST
		..1. ..11		DODPAGEL	"X'0023'" DPAGELBL
		..11 11.1		DODUPLEX	"X'003D'" DUPLEX
		.... 11.1		DOFCB	"X'000D'" FCB

Table 390. Structure (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
		....	111.		DOFLASE	"X'000E'" FLASH (overlay name)
		....	1111		DOFLASF	"X'000F'" FLASH (count)
		...1	11.1		DOFORMD	"X'001D'" FORMDEF
		..11	1.11		DOFORMLN	"X'003B'" FORMLEN
		...1	....		DOFORMS	"X'0010'" FORMS
		.1..	.111		DOFSSDAT	"X'0047'" FSSDATA
		...1	...1		DOGROUPI	"X'0011'" GROUPID
		...1	..1.		DOINDEX	"X'0012'" INDEX
		..11	111.		DOINTRAY	"X'003E'" INTRAY
		...1	.1..		DOLINDEX	"X'0014'" LINDEX
		...1	.1.1		DOLINECT	"X'0015'" LINECT
		.1..	1..1		DOMAILBC	"X'0049'" MAILBCC
		.1..	1.1.		DOMAILCC	"X'004A'" MAILCC
		.1..	1.11		DOMAILFI	"X'004B'" MAILFILE
		.1..	11..		DOMAILFR	"X'004C'" MAILFROM
		.1..	11.1		DOMAILTO	"X'004D'" MAILTO
0	(0)	BITSTRING		0	DOMERGE	"X'8003'" MERGE
		...1	.11.		DOMODIF6	"X'0016'" MODIFY (module name)
		...1	.111		DOMODIF7	"X'0017'" MODIFY (TRC)
		..1.	11.1		DONAME	"X'002D'" NAME
		..1.	1111		DONOTIFY	"X'002F'" NOTIFY
		.1..	..11		DOXOFSTB	"X'0043'" OFFSETXB
		.1..	...1		DOXOFSTF	"X'0041'" OFFSETXF
		.1..	.1..		DOYOFSTB	"X'0044'" OFFSETYB
		.1..	..1.		DOYOFSTF	"X'0042'" OFFSETYF
0	(0)	BITSTRING		0	DOOUTBIN	"X'2023'" OUTBIN
		..1.	1.11		DOOUTDB	"X'002B'" OUTDISP - NORMAL
		..1.	11..		DOOUTDC	"X'002C'" OUTDISP - ABNORMAL
		..11	..11		DOOVFL	"X'0033'" OVERFLOW
		.1..	....		DOOVRLYB	"X'0040'" OVERLAYB
		..11	1111		DOOVRLYF	"X'003F'" OVERLAYF
		...1	1111		DOPAGEDE	"X'001F'" PAGEDEF
		..1.	...1		DOPIMSG	"X'0021'" PIMSG
		.1..	.1.1		DOPORTNO	"X'0045'" PORTNO
		...1	1...		DOPRMODE	"X'0018'" PRMODE
		..11	1..1		DOPROPTN	"X'0039'" PRTOPTNS
		.1.1	....		DOPRTATT	"X'0050'" PRTATTRS
		..11	11..		DOPRTERR	"X'003C'" PRTERROR
		..11	1...		DOPRTQUE	"X'0038'" PRTQUEUE
		...1	1..1		DOPRTY	"X'0019'" PRTY
		.1..	111.		DOREPLYT	"X'004E'" REPLYTO
		.1..	.11.		DORESMT	"X'0046'" RESFMT
		..11	.111		DORETANF	"X'0037'" RETAINF
		..11	.11.		DORETANS	"X'0036'" RETAINS
		..11	.1..		DORETRYT	"X'0034'" RETRYT
		..11	.1.1		DORETRYL	"X'0035'" RETRYL
		..1.	.11.		DOROOM	"X'0026'" ROOM
		..1.	.1..		DOSYSARE	"X'0024'" SYSAREA
		..1.	...1		DOTHRESH	"X'0022'" THRESHLD
		..1.	1.1.		DOTITLE	"X'002A'" TITLE
		...1	1.1.		DOTRC	"X'001A'" TRC
		...1	1.11		DOUCS	"X'001B'" UCS

IEFDOKEY mapping

Table 390. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
	..11	...1		DOUSERDA	"X'0031'" USERDATA
	..1.	111.		DOUSERLI	"X'002E'" USERLIB
	.1..	1111		DOUSERPA	"X'004F'" USERPATH
	...1	11..		DOWRITER	"X'001C'" WRITER

Table 391. Cross Reference for IEFDOKEY

Name	Offset	Hex Tag
DOADDRES	0	27
DOAFPPRM	0	51
DOAFPST	0	48
DOBUILD	0	28
DOBURST	0	1
DOCHARS	0	2
DOCKPTLI	0	3
DOCKPTPA	0	4
DOCKPTSE	0	5
DOCLASS	0	6
DOCOLORM	0	3A
DOCOMPAC	0	7
DOCOMSET	0	32
DOCONTRO	0	8
DOCOPIEA	0	A
DOCOPIE9	0	9
DOCOPYCN	0	52
DODATAACK	0	2022
DODDNAME	0	54
DODEFAUL	0	B
DODEPT	0	29
DODEST	0	C
DODPAGEL	0	23
DODUPLEX	0	3D
DOFCB	0	D
DOFLASE	0	E
DOFLASF	0	F
DOFORMD	0	1D
DOFORMLN	0	3B
DOFORMS	0	10
DOFSSDAT	0	47
DOGROUPI	0	11
DOINDEX	0	12
DOINTRAY	0	3E
DOLINDEX	0	14
DOLINECT	0	15
DOMAILBC	0	49
DOMAILCC	0	4A
DOMAILFI	0	4B
DOMAILFR	0	4C
DOMAILTO	0	4D

Table 391. Cross Reference for IEFDOKEY (continued)

Name	Offset	Hex Tag
DOMERGE	0	8003
DOMODIF6	0	16
DOMODIF7	0	17
DONAME	0	2D
DONOTIFY	0	2F
DOOUTBIN	0	2023
DOOUTDB	0	2B
DOOUTDC	0	2C
DOOVFL	0	33
DOOVRLYB	0	40
DOOVRLYF	0	3F
DOPAGEDE	0	1F
DOPIMSG	0	21
DOPORTNO	0	45
DOPRMODE	0	18
DOPROPTN	0	39
DOPRTATT	0	50
DOPRTERR	0	3C
DOPRTQUE	0	38
DOPRTY	0	19
DOREPLYT	0	4E
DORESFMT	0	46
DORETANF	0	37
DORETANS	0	36
DORETRYL	0	35
DORETRYT	0	34
DOROOM	0	26
DOSYSARE	0	24
DOTHRESH	0	22
DOTITLE	0	2A
DOTRC	0	1A
DOUCS	0	1B
DOUSERDA	0	31
DOUSERLI	0	2E
DOUSERPA	0	4F
DOWRITER	0	1C
DOXOFSTB	0	43
DOXOFSTF	0	41
DOYOFSTB	0	44
DOYOFSTF	0	42

IEFDOKEY mapping

Chapter 79. IEFDORC Information

IEFDORC Programming Interface Information

The following fields are NOT programming interface information:

- DORCABNA
- DORCABNB
- DORCABNC
- DORCABN1
- DORCABN2
- DORCABN3
- DORCABN4
- DORCABN5
- DORCABN6
- DORCABN7
- DORCABN8
- DORCABN9
- DORCAB12
- DORCAB13
- DORCAB14
- DORCAB15

IEFDORC Heading Information

Common Name: Dynamic Output SVC Reason Codes
Macro ID: IEFDORC
DSECT Name: n/a
Owning Component: Scheduler JCL Facility (BB131)
Eye-Catcher ID: none
Storage Attributes: Virtual Storage: n/a (EQU's only)
Size: n/a
Created by: n/a
Pointed to by: n/a
Serialization: None
Function: Maps the return codes and reason codes used by
Dynamic Output

IEFDORC mapping

Table 392. Structure

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

IEFDORC mapping

Table 392. Structure (continued)

Offset Dec	Offset Hex Type	Len Name(Dim)	Description
			START OF SPECIFICATIONS
			MACRO NAME = IEFDORC
			DESCRIPTIVE NAME = Dynamic Output SVC Reason Codes
			01 PROPRIETARY STATEMENT=
			PROPRIETARY_STATEMENT
			LICENSED MATERIALS - PROPERTY OF IBM
			THIS MACRO IS "RESTRICTED MATERIALS OF IBM"
			5655-068 (C) COPYRIGHT IBM CORP. 1988, 1993
			SEE COPYRIGHT INSTRUCTIONS
			STATUS= HBB5510
			END_OF_PROPRIETARY_STATEMENT
			FUNCTION = Maps the return codes and reason codes used by
			Dynamic Output
			RESTRICTIONS = The following reason codes are reserved for use
			by the Dynamic OUTPUT Installation Exit:
			'6000'X through '7FFF'X
			MODULE TYPE = Macro
			DSECT NAME = n/a
			ACRONYM = IEFDORC
			COMPONENT = Scheduler JCL Facility (BB131)
			01 EXTERNAL CLASSIFICATION:
			02 GUPI: BASE
			02 DMTI: FIELDS
			DORCABN1 DORCABN9
			DORCABN2 DORCABNA
			DORCABN3 DORCABNB
			DORCABN4 DORCABNC
			DORCABN5 DORCAB12
			DORCABN6 DORCAB13
			DORCABN7 DORCAB14
			DORCABN8 DORCAB15
			01 END OF EXTERNAL CLASSIFICATION
			EYE CATCHER = none
			OFFSET = n/a
			LENGTH = n/a
			STORAGE ATTRIBUTES:
			VIRTUAL STORAGE = n/a (EQU's only)
			SIZE = n/a
			CREATED BY = n/a
			POINTED TO BY = n/a
			SERIALIZATION = None
			INVOCATION =
			BAL - IEFDORC
			PL/S - %INCLUDE SYSLIB(IEFDORC)
			CHANGE ACTIVITY = D0,D1,P1,D2,D3,T0,L1,P2,L2,01,L3,02,P3
			\$D0= DCR0023 JBB2223 861117 PDFF: DYNAMIC OUTPUT SUPPORT
			\$D1= DCR0034 JBB2223 870114 PDJY: DYNAMIC OUTPUT SUPPORT
			\$P1= PC20286 JBB2223 870629 PDJY: DYNAMIC OUTPUT SUPPORT
			\$D2= DCR0063 JBB2223 880101 PDJY: DYNAMIC OUTPUT SUPPORT
			\$D3= DCR0318 HBB3310 880118 PDJY: DYNAMIC OUTPUT SUPPORT
			\$T0= OY22236 HBB3310 800403 PDJY: One use support
			\$L1= EMVS2 HBB4410 890626 PDDZ: SWB Serialization

Table 392. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					\$P2= PE04063 HBB4410 900504 PDCL: Allowable SJF Errors
					\$L2= EMVS2 HBB4410 900604 PDCL: SWB Serialization
					\$01= OY37240 HBB3310 901116 PDCL: Fix one use support
					\$L3= POSIX HBB4430 920108 PDCL: OPEN/MVS Support
					\$02= OY62069 HBB4430 920326 PDCC: New SJF Update reason code
					\$P3= PIG4009 HBB5510 930421 PDJY: Continuous Improvement PTM
					END OF SPECIFICATIONS
					A 000000-999999
					A Add unique parameter list error reason codes. Add unique abend reason codes.
					A New reason codes for added error checking
					D Removed dynamic output from JBB2223
					A Added dynamic output to HBB3310
					A Added reason codes for one use support
					A New ABEND reason codes for SWB serialization support.
					A Reason code for invalid TEXT character.
					D Deleted ABEND reason codes for one use support.
					A Added additional reason code for one use support
					A Added support of new reason codes returned from SJF Update
					A Added reason code DORCZKEY to match SJF Update reason code SJRCZKEY.
					A Added new ABEND reason codes for error in SSI call
					A Added SHOWHDR
					%GOTO DORCPLS;
					Dynamic Output Return Codes
					0 (0) X'0'
				0	DONOERRS
					"0" Successful completion
				0	DOENVERR
					"4" Environmental error
				0	DOREQDNY
					"8" Request denied by, or because of, the installation exit
				0	DOINVPRM
					"12" Invalid parameter list
				0	DOSYSERR
					"16" System error
					Dynamic Output Reason Codes
					0 (0) X'0'
				0	DORCNOER
					"0" X'000' Processing successful
					Parameter errors, text units
					NOTE: These reason codes are always accompanied by a return code of DOINVPRM. These errors are caused by the caller or faulty installation exit text unit modifications
					0 (0) X'300'
				0	DORCIVCH
					"768" X'300' Invalid choice specified for parameter
				0	DORCGMAX
					"769" X'301' Numeric parameter exceeds maximum
				0	DORCLMIN
					"770" X'302' Numeric parameter less than minimum
				0	DORCNUM
					"771" X'303' No parameter specified
				0	DORCNLLN
					"774" X'306' Length of level exceeds maximum
				0	DORCNLM
					"775" X'307' Number of levels exceeds the maximum
				0	DORCNFCH
					"776" X'308' Invalid first character of level
				0	DORCNOCH
					"777" X'309' Invalid character other than the first in level in parameter

IEFDORC mapping

Table 392. Structure (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
0	(0)	X'30A'		0	DORCNLIV	"778" X'30A' Invalid specification of levels
0	(0)	X'30B'		0	DORCIVNP	"779" X'30B' Invalid number of parameters
0	(0)	X'30C'		0	DORCIVLN	"780" X'30C' Invalid parameter length
0	(0)	X'30D'		0	DORCNKEY	"781" X'30D' Invalid key
0	(0)	X'30E'		0	DORCDUPK	"782" X'30E' Duplicate key
0	(0)	X'30F'		0	DORCIVKY	"783" X'30F' Key not allowed
0	(0)	X'310'		0	DORCNSLE	"784" X'310' Sublist element not defined
0	(0)	X'311'		0	DORCMTUP	"785" X'311' The maximum number of text unit pointers allowed has been exceeded
0	(0)	X'312'		0	DORCIVTX	"786" X'312' Invalid TEXT character
0	(0)	X'313'		0	DORCISEQ	"787" X'313' Invalid character sequence
0	(0)	X'314'		0	DORCIBIT	"788" X'314' Invalid bits specified in a bitstring parameter

Parameter errors, DOCNP

NOTE: If these reason codes are accompanied by a return code of DOREQDNY, then the installation exit has made invalid alterations to the caller's DOCNP. Otherwise, these reason codes will be accompanied by a return code of DOINVPRM, indicating the caller passed an invalid DOCNP.

0	(0)	X'380'		0	DORCLNIV	"896" X'380' Invalid parameter length in DOCNLEN
0	(0)	X'381'		0	DORCNZF1	"897" X'381' Unused DOCNFNC1 bits not zero
0	(0)	X'382'		0	DORCNZF2	"898" X'382' Unused DOCNFNC2 bits not zero
0	(0)	X'383'		0	DORCNZR1	"899" X'383' Reserved field DOCNRSV1 not zero
0	(0)	X'384'		0	DORCNZR2	"900" X'384' Reserved field DOCNRSV2 not zero
0	(0)	X'385'		0	DORCIVID	"901" X'385' Invalid parameter list identifier in DOCNID
0	(0)	X'386'		0	DORCIVVR	"902" X'386' Invalid parameter list version in DOCNVERS
0	(0)	X'387'		0	DORCNOFN	"903" X'387' No function (i.e. add or delete) requested
0	(0)	X'388'		0	DORCIVFN	"904" X'388' More than one function (i.e. add and delete) requested
0	(0)	X'389'		0	DORCIVTP	"905" X'389' Text unit pointer (DOCNTXTP) specified for a delete request
0	(0)	X'38A'		0	DORCIVEQ	"906" X'38A' Conditional enqueue (DOCNCENQ) specified for a delete request
0	(0)	X'38B'		0	DORCIVNM	"907" X'38B' Invalid descriptor name (DOCNNAME)

Table 392. Structure (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
0	(0)	X'38C'		0	DORCIVRZ	"908" X'38C' Register pointing to the parameter list pointer is zero
0	(0)	X'38D'		0	DORCIVDZ	"909" X'38D' Pointer to the SVC parameter list (DOCNP) is zero
0	(0)	X'38E'		0	DORCIVHB	"910" X'38E' High order bit in parameter list pointer is not zero
0	(0)	X'38F'		0	DORCIVTU	"911" X'38F' Text units required for an add request
0	(0)	X'390'		0	DORCP0C4	"912" X'390' 0C4 ABEND, appears to have occurred while referencing user parameters
0	(0)	X'391'		0	DORCNZRO	"913" X'391' Reserved field DOCNRSV0 not zero
0	(0)	X'392'		0	DORCONEU	"914" X'392' Bit X'40' of byte DOCNFNC2 is on for a delete request
0	(0)	X'393'		0	DORCREUS	"915" X'393' Bit X'20' of byte DOCNFNC2 is on for a delete request
0	(0)	X'394'		0	DORCREON	"916" X'394' DOCNONEU and DOCNREUS must both be on or both be off
Environmental errors						
0	(0)	X'400'		0	DORCGET1	"1024" X'400' GETMAIN unsuccessful in SVC
0	(0)	X'401'		0	DORCEXST	"1025" X'401' Output descriptor specified already exists
0	(0)	X'402'		0	DORCNDES	"1026" X'402' Output descriptor specified does not exist
0	(0)	X'403'		0	DORCBTCH	"1027" X'403' Output descriptor specified was not dynamically created, cannot delete
0	(0)	X'404'		0	DORCESTA	"1028" X'404' Unable to establish recovery environment
0	(0)	X'405'		0	DORCNENQ	"1029" X'405' ENQueue resource unavailable at this time
0	(0)	X'406'		0	DORCNONM	"1030" X'406' No more system generated names can be created, the maximum number allowed are in use
0	(0)	X'407'		0	DORCGET2	"1031" X'407' GETMAIN unsuccessful in SJF
0	(0)	X'408'		0	DORCALTT	"1032" X'408' Caller's text units were altered by another task during dynamic output processing
0	(0)	X'409'		0	DORCALTP	"1033" X'409' Caller's text unit pointers were altered by another task during dynamic output processing
Installation exit caused errors						

IEFDORC mapping

Table 392. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'500'	0	DORCINST	"1280" X'500' Reason code from installation exit out of allowable range
0	(0)	X'501'	0	DORCINRC	"1281" X'501' Return code from installation exit is zero, but reason code is non zero
0	(0)	X'502'	0	DORCINRT	"1282" X'502' Invalid return code from the installation exit
0	(0)	X'503'	0	DORCINKE	"1283" X'503' Return code from installation exit is zero, but returned key in error is nonzero
0	(0)	X'504'	0	DORCZKEY	"1284" X'504' Installation exit modified the text unit keys to include a zero key
System errors					
0	(0)	X'700'	0	DORCABND	"1792" X'700' ABEND in the Dynamic OUTPUT control routine
0	(0)	X'701'	0	DORCSJAB	"1793" X'701' ABEND in the Scheduler JCL Facility
0	(0)	X'702'	0	DORCXABD	"1794" X'702' ABEND in the Dynamic OUTPUT Installation Exit
ABEND reason codes					
NOTE: ABENDs are issued when unexpected return or reason codes are received from SJF. The ABEND codes are unique for each situation in which this is detected. Therefore, there may be more than one ABEND reason code for an SJF function.					
0	(0)	X'1'	0	DORCABN1	"0001" X'001' ABEND issued due to unexpected return and/or reason code from SJF FIND
0	(0)	X'2'	0	DORCABN2	"0002" X'002' ABEND issued due to unexpected reason code from SJF UPDATE
0	(0)	X'3'	0	DORCABN3	"0003" X'003' ABEND issued due to unexpected return code from SJF UPDATE
0	(0)	X'4'	0	DORCABN4	"0004" X'004' ABEND issued due to unexpected return and/or reason code from SJF FIND
0	(0)	X'5'	0	DORCABN5	"0005" X'005' ABEND issued due to unexpected return and/or reason code from SJF FIND
0	(0)	X'6'	0	DORCABN6	"0006" X'006' ABEND issued due to unexpected return and/or reason code from SJF DELETE
0	(0)	X'7'	0	DORCABN7	"0007" X'007' ABEND issued due to unexpected return code from SJF TERMINATE
0	(0)	X'8'	0	DORCABN8	"0008" X'008' ABEND issued due to unexpected return code from SJF TERMINATE
0	(0)	X'9'	0	DORCABN9	"0009" X'009' ABEND issued due to unexpected return code from SJF TERMINATE

Table 392. Structure (continued)

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
0	(0)	X'A'	0	DORCABNA	"0010" X'00A' ABEND issued due to unexpected return code from SJF TERMINATE
0	(0)	X'B'	0	DORCABNB	"0011" X'00B' ABEND issued due to unexpected return code from SJF TERMINATE
0	(0)	X'C'	0	DORCABNC	"0012" X'00C' ABEND issued due to unexpected return code from SJF TERMINATE ABEND codes 0014-0017 are used in One Use SWB support below HBB4410
0	(0)	X'12'	0	DORCAB12	"0018" X'012' ABEND issued due to unexpected return code from SJF TERMINATE
0	(0)	X'13'	0	DORCAB13	"0019" X'013' ABEND issued due to unexpected return code from SJF RETURNSWB
0	(0)	X'14'	0	DORCAB14	"0020" X'014' ABEND issued due to an error in an SSI call
0	(0)	X'15'	0	DORCAB15	"0021" X'015' ABEND issued due to an error in call to include segment IEFSSVIS

Table 393. Cross Reference for IEFDORC

Name	Offset	Hex Tag
DOENVERR	0	4
DOINVPRM	0	C
DONOERRS	0	0
DORCABNA	0	A
DORCABNB	0	B
DORCABNC	0	C
DORCABND	0	700
DORCABN1	0	1
DORCABN2	0	2
DORCABN3	0	3
DORCABN4	0	4
DORCABN5	0	5
DORCABN6	0	6
DORCABN7	0	7
DORCABN8	0	8
DORCABN9	0	9
DORCAB12	0	12
DORCAB13	0	13
DORCAB14	0	14
DORCAB15	0	15
DORCALTP	0	409
DORCALTT	0	408
DORCBTCH	0	403
DORCDUPK	0	30E
DORCESTA	0	404

IEFDORC mapping

Table 393. Cross Reference for IEFDORC (continued)

Name	Offset	Hex Tag
DORCEXST	0	401
DORCGET1	0	400
DORCGET2	0	407
DORCGMAX	0	301
DORCIBIT	0	314
DORCINKE	0	503
DORCINRC	0	501
DORCINRT	0	502
DORCINST	0	500
DORCISEQ	0	313
DORCIVCH	0	300
DORCIVDZ	0	38D
DORCIVEQ	0	38A
DORCIVFN	0	388
DORCIVHB	0	38E
DORCIVID	0	385
DORCIVKY	0	30F
DORCIVLN	0	30C
DORCIVNM	0	38B
DORCIVNP	0	30B
DORCIVRZ	0	38C
DORCIVTP	0	389
DORCIVTU	0	38F
DORCIVTX	0	312
DORCIVVR	0	386
DORCLMIN	0	302
DORCLNIV	0	380
DORCMTUP	0	311
DORCNDES	0	402
DORCNENQ	0	405
DORCNFCH	0	308
DORCNKEY	0	30D
DORCNLIV	0	30A
DORCNLLN	0	306
DORCNLMN	0	307
DORCNNUM	0	303
DORCNOCH	0	309
DORCNOER	0	0
DORCNOFN	0	387
DORCNONM	0	406
DORCNSLE	0	310
DORCNZF1	0	381
DORCNZF2	0	382
DORCNZR0	0	391
DORCNZR1	0	383
DORCNZR2	0	384
DORCONEU	0	392
DORCPOC4	0	390
DORCREON	0	394

Table 393. Cross Reference for IEFDORC (continued)

Name	Offset	Hex Tag
DORCREUS	0	393
DORCSJAB	0	701
DORCXABD	0	702
DORCZKEY	0	504
DOREQDNY	0	8
DOSYSERR	0	10

IEFDORC mapping

Chapter 80. IEFDOTUM Information

IEFDOTUM Programming Interface Information

IEFDOTUM is a programming interface.

IEFDOTUM Heading Information

Common Name: Dynamic Output Text Unit Mappings
Macro ID: IEFDOTUM
DSECT Name: DOCNTLST, DOCNUNIT, DOCNTFLD
Owning Component: Dynamic Output (BB131)
Eye-Catcher ID: None
Storage Attributes: Subpool: Any
Key: Caller's key
Residency: Any
Size: 1st section: 4 bytes
2nd section: 31 bytes
3rd section: 6 bytes plus a variable-length field at offset 6
4th section: 2 bytes plus a variable-length field at offset 2
Created by: User of dynamic output services
Pointed to by: The OUTADD macro, DOCNP
Serialization: None
Function: Maps the text units and text unit pointer structures for Dynamic OUTPUT.

IEFDOTUM mapping

Table 394. Structure DOCNTLST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DOCNTLST	Text unit pointer list mapping
0	(0)	SIGNED	4	DOCNTPTR	Text unit pointer
		1...		DOCNTLT	"X'80'" 0n for the last text unit pointer

Table 395. Structure DOCNUNIT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DOCNUNIT	Text unit mapping
0	(0)	BITSTRING	2	DOCNTKEY	Key
2	(2)	BITSTRING	2	DOCNTNUM	Number of length/parameter pairs
4	(4)	CHARACTER	1	DOCNTENT(0)	
4	(4)	BITSTRING	2	DOCNTLTH	Length of first or only parameter
6	(6)	CHARACTER	1	DOCNTPAR	First or only parameter

IEFDOTUM mapping

Table 396. Structure DOCNTFLD

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
0	(0)	STRUCTURE		0	DOCNTFLD	Mapping for length/parameter pair
0	(0)	BITSTRING		2	DOCNTLEN	Length of parameter
2	(2)	CHARACTER		1	DOCNTPRM	Parameter

Table 397. Cross Reference for IEFDOTUM

Name	Offset	Hex Tag
DOCNTENT	4	
DOCNTFLD	0	
DOCNTKEY	0	
DOCNTLEN	0	
DOCNTLST	0	
DOCNTLT	0	80
DOCNTLTH	4	
DOCNTNUM	2	
DOCNTPAR	6	
DOCNTPRM	2	
DOCNTPTR	0	
DOCNUNIT	0	

Chapter 81. IEFENFSC Information

IEFENFSC Heading Information

Common Name: ENF Schedule SRB Listener Control Block
 Macro ID: IEFENFSC
 DSECT Name: ENFSC
 Owing Component: Event Notification Facility (BB131)
 Eye-Catcher ID: ENFSC
 Offset: 0
 Length: 6
 Storage Attributes: Subpool: 241
 Key: 0
 Residency: Any
 Size: 40 bytes (decimal)
 Created by: IEFENFM
 Pointed to by: None
 Serialization: ENFSC_USE_COUNT is used to determine how many users of the ENFSC exist.
 Function: ENF control block used when a signal request is issued to an event code that has SRBEXIT listeners on the ENF listen element chain. This block holds information that can be accessed by the routine that schedules the SRBs (IEFENFM), the ENF SRB routine (IEFENFSR), and the SRB resource termination manager (IEFENFPD).

IEFENFSC mapping

Table 398. Structure ENFSC

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	40	ENFSC	
0	(0)	CHARACTER	6	ENFSC_ID	Eye catcher
6	(6)	UNSIGNED	2	ENFSC_LEN	Control block length
8	(8)	UNSIGNED	1	ENFSC_VERS	Version number
9	(9)	BITSTRING	1	ENFSC_FLAGS	Flag byte
		1...		ENFSC_FREEPRM_CODED	When on, the signaler has coded FREEPRM
		.111 1111		ENFSC_RSV1	Reserved
10	(A)	UNSIGNED	1	ENFSC_SUBPOOL	ENFSC subpool
11	(B)	UNSIGNED	1	ENFSC_KEY	ENFSC key
12	(C)	CHARACTER	4	ENFSC_EVENT_CODE	Event code
16	(10)	SIGNED	4	ENFSC_USE_COUNT	The number of users of this control block.
20	(14)	ADDRESS	4	ENFSC_SIGP_ADDR	Address of the signaler's parameter list
24	(18)	SIGNED	4	ENFSC_SIGP_LENGTH	Length of the signaler's parameter list if FREEPRM coded, otherwise zero.

IEFENFSC mapping

Table 398. Structure ENFSC (continued)

Offset				Len	Name(Dim)	Description
Dec	Hex	Type				
28	(1C)	UNSIGNED		1	ENFSC_SIGP_SUBPOOL	Subpool number of storage holding signaler's parm list if FREEPRM coded, otherwise zero.
29	(1D)	UNSIGNED		1	ENFSC_SIGP_KEY	Key of storage holding signaler's parameter list if FREEPRM coded, otherwise zero.
30	(1E)	SIGNED		2	ENFSCSIGNALLERSHASN	Signaller's HASN
32	(20)	ADDRESS		4	ENFSC_ENSG_ADDR	Address of ENSG parameter list to be provided to listeners
36	(24)	ADDRESS		4	ENFSCSIGNALLERSR14	Signaller's return addr

Table 399. Constants for IEFENFSC

Len	Type	Value	Name	Description
6	CHARACTER	ENFSC	ENFSCID	
1	DECIMAL	2	ENFSCVER	
1	DECIMAL	0	ENFSC_KEY_CONST	
1	DECIMAL	241	ENFSC_SUBPOOL_CONST	

Table 400. Cross Reference for IEFENFSC

Name	Offset	Hex Tag
ENFSC	0	
ENFSC_ENSG_ADDR	20	
ENFSC_EVENT_CODE	C	
ENFSC_FLAGS	9	
ENFSC_FREEPRM_CODED	9	80
ENFSC_ID	0	
ENFSC_KEY	B	
ENFSC_LEN	6	
ENFSC_RSV1	9	7F
ENFSC_SIGP_ADDR	14	
ENFSC_SIGP_KEY	1D	
ENFSC_SIGP_LENGTH	18	
ENFSC_SIGP_SUBPOOL	1C	
ENFSC_SUBPOOL	A	
ENFSC_USE_COUNT	10	
ENFSC_VERS	8	
ENFSCSIGNALLERSHASN	1E	
ENFSCSIGNALLERSR14	24	

Chapter 82. IEFENFSG Information

IEFENFSG Programming Interface Information

IEFENFSG is a programming interface.

IEFENFSG Heading Information

Common Name: ENF Signal Data
 Macro ID: IEFENFSG
 DSECT Name: ENSG - ENF signal information
 Owing Component: Event Notification Facility (BB131)
 Eye-Catcher ID: ENSG
 Offset: 0
 Length: 4 bytes
 Storage Attributes: Main Storage: No
 Virtual Storage: Yes
 Auxiliary Storage: Yes
 Subpool: 0, 229, 241, or 255
 Key: 0
 Data Space: No
 Residency: ANY
 Size: 76 bytes (decimal)
 Created by: IEFENFNM
 Pointed to by: Fifth word of the address list pointed to by register 1
 on entry to an ENF listen exit
 Serialization: None
 Function: Maps signal information provided to ENF
 listeners by ENF

IEFENFSG mapping

Table 401. Structure ENSG

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ENSG	, ENF-provided input data
0	(0)	SIGNED	4	(0)	
0	(0)	CHARACTER	12	ENSG_HEADER(0)	Header information
0	(0)	CHARACTER	4	ENSGID	Control block identifier (ENSGCID)
4	(4)	SIGNED	2	ENSGVERS	Version number. Current version is ENSGCVVER.
6	(6)	SIGNED	2	ENSGLEN	Length of ENSG control block
8	(8)	CHARACTER	4		Reserved
12	(C)	CHARACTER	64	ENSG_SIGNAL_DATA(0)	Information about the signal sent to the listen exit
12	(C)	SIGNED	4	ENSG_EVENT_CODE	Event code
16	(10)	CHARACTER	4	ENSG_QUAL	Event qualifier
20	(14)	CHARACTER	32	ENSG_BITMAP_QUAL	Bit-mapped event qualifier
52	(34)	CHARACTER	1	ENSG_SIGNAL_FLAGS	Flags describing signal
		1...		ENSG_FOREIGN_SYSTEM	"X'80'" Signal originated on another system

IEFENFSG mapping

Table 401. Structure ENSG (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
53	(35)	CHARACTER		3		Reserved
56	(38)	CHARACTER		8	ENSG_SOURCE_SYSTEM_NAME	Name of system where signal originated
64	(40)	CHARACTER		4	ENSG_SOURCE_SYSTEM_TOKEN(0)	XCF token identifying the system where the signal originated. This field contains 0 when sysplex-wide ENF is not available for any reason. When 0, the signal originated on the listening system.
64	(40)	CHARACTER		1	ENSG_SOURCE_SYSTEM_SLOT	XCF slot number of originating system
65	(41)	CHARACTER		3		Reserved (XCF token)
68	(44)	CHARACTER		8		Reserved
68	(44)	X'4C'		0	ENSG_END	"*" End of signal information
Constant values						
68	(44)	X'D5E2C7'		0	ENSGCID	"C'ENSG'" Control block ID value
68	(44)	X'1'		0	ENSGVER1	"1" First version of IEFENFSG
68	(44)	X'1'		0	ENSGCVER	"ENSGVER1" Current version of IEFENFSG

Table 402. Cross Reference for IEFENFSG

Name	Offset	Hex	Tag
ENSG	0		
ENSG_BITMAP_QUAL	14		
ENSG_END	44	4C	
ENSG_EVENT_CODE	C		
ENSG_FOREIGN_SYSTEM	34	80	
ENSG_HEADER	0		
ENSG_QUAL	10		
ENSG_SIGNAL_DATA	C		
ENSG_SIGNAL_FLAGS	34		
ENSG_SOURCE_SYSTEM_NAME	38		
ENSG_SOURCE_SYSTEM_SLOT	40		
ENSG_SOURCE_SYSTEM_TOKEN	40		
ENSGCID	44	D5E2C7	
ENSGCVER	44	1	
ENSGID	0		
ENSGLEN	6		
ENSGVERS	4		
ENSGVER1	44	1	

Chapter 83. IEFENFSP Information

IEFENFSP Heading Information

Common Name: ENF Schedule SRB Parameter List
 Macro ID: IEFENFSP
 DSECT Name: ENFSP
 Owing Component: Event Notification Facility (BB131)
 Eye-Catcher ID: ENFSP
 Offset: 0
 Length: 6
 Storage Attributes: Subpool: 241
 Key: 0
 Residency: Any
 Size: 48 bytes (decimal)
 FREQUENCY = One per SRB scheduled from IEFENFNM
 Created by: IEFENFNM
 Pointed to by: SRBPARM in IEFENFNM and IEFENFSR
 Serialization: None
 Function: Parameter list passed from IEFENFNM to the
 ENF SRB Routine (IEFEFNSR).

IEFENFSP mapping

Table 403. Structure ENFSP

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	48	ENFSP	
0	(0)	CHARACTER	6	ENFSP_ID	Parameter list identifier
6	(6)	UNSIGNED	2	ENFSP_LEN	Parameter list length
8	(8)	UNSIGNED	1	ENFSP_VERS	Parameter list version number
9	(9)	CHARACTER	3	ENFSP_RSV1	Reserved
12	(C)	ADDRESS	4	ENFSP_ENFSC_ADDR	Address of the ENFSC created for this signal request
16	(10)	ADDRESS	4	ENFSP_ENFL_ADDR	Address of the listen element defining the SRB EXIT
20	(14)	CHARACTER	28	ENFSP_RSV2	Reserved - maps to the end of the 12 full words obtained by GETSRB

Table 404. Constants for IEFENFSP

Len	Type	Value	Name	Description
6	CHARACTER	ENFSP	ENFSPCID	Parameter list ID
1	DECIMAL	1	ENFSPVER	Parameter list version

IEFENFSP mapping

Chapter 84. IEFENF40 Information

IEFENF40 Programming Interface Information

IEFENF40 is a programming interface.

IEFENF40 Heading Information

Common Name: Mapping macro for ENF Event Code #40 Listeners
 Macro ID: IEFENF40
 DSECT Name: ENF40
 Owing Component: Subsystem Interface - SSI (SC1B6)
 Eye-Catcher ID: 'ENF40 '
 Offset: 0
 Length: 6
 Storage Attributes: Subpool: Common subpool
 Key: 1
 Residency: Any
 Size: 36 bytes ('24'X)
 FREQUENCY = 1 per ENF 40 signal
 Created by: Job Entry Subsystem (e.g. JES2)
 Pointed to by: Upon entry to ENF event code 40 listen
 exit, register 1 points to a word that
 contains the address of the ENF40 parameter
 list.
 Serialization: None
 Function: Job Entry Subsystem (JES) initialization / ending
 event code 40 listen exit parameter list mapping

IEFENF40 mapping

Table 405. Structure ENF40

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ENF40	ENF40 mapping
0	(0)	SIGNED	4	(0)	Full word alignment
0	(0)	CHARACTER	6	ENF40_ID	Id 'ENF40 '
6	(6)	BITSTRING	1	ENF40_VERSION	Version of mapping
7	(7)	BITSTRING	1		Reserved
8	(8)	SIGNED	2	ENF40_LENGTH	Length of parameter list
10	(A)	BITSTRING	2		Reserved
12	(C)	BITSTRING	4	ENF40_QUALIFIER	Qualifier code
16	(10)	CHARACTER	4	ENF40_SSNM	Actual name of subsystem
20	(14)	CHARACTER	8	ENF40_CNAM	Common name of subsystem
28	(1C)	CHARACTER	8		Reserved
28	(1C)	X'24'	0	ENF40_SIZE	"*-ENF40" Length of ENF40 parameter area
28	(1C)	X'1'	0	ENF40_CVER	"1" Current version
		.... ....		ENF40_INIT	"X'80000000'" Job entry subsystem has initialized qualifier

IEFENF40 mapping

Table 405. Structure ENF40 (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
			ENF40_TERM	"X'40000000'" Job entry subsystem is ending qualifier

Table 406. Cross Reference for IEFENF40

Name	Offset	Hex	Tag
ENF40	0		
ENF40_CNAM	14		
ENF40_CVER	1C		1
ENF40_ID	0		
ENF40_INIT	1C		0
ENF40_LENGTH	8		
ENF40_QUALIFIER	C		
ENF40_SIZE	1C		24
ENF40_SSNM	10		
ENF40_TERM	1C		0
ENF40_VERSION	6		

Chapter 85. IEFEVARY Information

IEFEVARY Programming Interface Information

The following field is NOT programming interface information:

- EVACSCB

IEFEVARY Heading Information

Common Name: VARY PARAMETER LIST
 Macro ID: IEFEVARY
 DSECT Name: EVARY
 Owing Component: ALLOCATION (SC1B4)
 Eye-Catcher ID: NONE
 Storage Attributes: Subpool: USER'S SUBPOOL
 Key: CALLER'S KEY
 Residency: ANY
 Size: 56 BYTES
 Created by: ISSUERS OF VARY ENF EVENTS 1, 2, 23 AND 24
 Pointed to by: FIRST WORD OF PARAMETER LIST POINTED TO BY
 R1 ON ENTRY TO ENF LISTEN EXIT
 Serialization: NONE
 Function: CONTAINS DEVICE INFORMATION PASSED BY THE
 SIGNALLERS OF THE VARY ONLINE AND VARY OFFLINE
 EVENTS TO THE LISTENERS.

IEFEVARY mapping

Table 407. Structure EVARY

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
0	(0)	STRUCTURE		0	EVARY	VARY PARAMETER LIST
0	(0)	SIGNED		4	EVAUCBA	UCB ADDRESS FOR DEVICE
4	(4)	SIGNED		2	EVARSV4	RESERVED
6	(6)	BITSTRING		1	EVARSV5	RESERVED
7	(7)	CHARACTER		1	EVARSV1	RESERVED
8	(8)	BITSTRING		1	EVAFUNC	FUNCTION BYTE
			.... ...1		EVARSV8	"X'01'" RESERVED
			.... ..1.		EVAVARY	"X'02'" VARY REQUESTS
			.... ..11		EVARSV9	"X'03'" RESERVED
			.... ..1..		EVARSV10	"X'04'" RESERVED
9	(9)	BITSTRING		1	EVAFLGS	REQUEST TYPE FLAG
			1...		EVAONLI	"X'80'" ONLINE REQUEST
			.1..		EVAOFLI	"X'40'" OFFLINE REQUEST
			..1.		EVADEVK	"X'20'" DEVICE REQUEST
			...1		EVAVALID	"X'10'" VALID FLAG
			.... 1...		EVASCHG	"X'08'" SMS VOLUME STATUS CHANGE
			.... ..1..		EVAPND	"X'04'" PENDING OFFLINE REQUEST
			.... ..1.		EVAFORCE	"X'02'" OFFLINE FORCE REQUEST - VALID ONLY FOR PENDING OFFLINE ENF SIGNAL

IEFEVARY mapping

Table 407. Structure EVARY (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
		....	...1		EVAFRSV3	"X'01'" RESERVED
10	(A)	SIGNED		2	EVALEN	LENGTH OF VARY PARAMETER LIST
12	(C)	ADDRESS		4	EVACSCB	POINTER TO CSCB (OPTIONAL)
16	(10)	CHARACTER		6	EVAVOLID	VOLUME SERIAL
22	(16)	CHARACTER		2	EVARSV11	RESERVED
24	(18)	CHARACTER		4	EVACONSO	CONSOLE ID, MAY BE ZERO IF NOT AVAILABLE
28	(1C)	CHARACTER		8	EVACART	CART, MAY BE ZERO IF NOT AVAILABLE
36	(24)	CHARACTER		1	EVARSV12	RESERVED
36	(24)	X'38'		0	EVALLEN	"*-EVARY" LENGTH OF VARY PARAMETER LIST

Table 408. Cross Reference for IEFEVARY

Name	Offset	Hex	Tag
EVACART	1C		
EVACONSO	18		
EVACSCB	C		
EVADEVC	9		20
EVAFLGS	9		
EVAFORCE	9		2
EVAFRSV3	9		1
EVAFUNC	8		
EVALEN	A		
EVALLEN	24		38
EVAOFLI	9		40
EVAONLI	9		80
EVAPND	9		4
EVARSV1	7		
EVARSV10	8		4
EVARSV11	16		
EVARSV12	24		
EVARSV4	4		
EVARSV5	6		
EVARSV8	8		1
EVARSV9	8		3
EVARY	0		
EVASCHG	9		8
EVAUCBA	0		
EVAVALID	9		10
EVAVARY	8		2
EVAVOLID	10		

Chapter 86. IEFJFRQP Information

IEFJFRQP Programming Interface Information

IEFJFRQP is a programming interface.

IEFJFRQP Heading Information

Common Name: IEFJFRQ Exit Routine Parameter List
Macro ID: IEFJFRQP
DSECT Name: FRQP - IEFJFRQP parameter list FRQP_PLIST_AREA - Pointer list on entry to IEFJFRQ
Owning Component: Subsystem Interface (SC1B6)
Eye-Catcher ID: FRQP
Offset: 0
Length: 4 bytes
Storage Attributes: Main Storage: No
Virtual Storage: Yes
Auxiliary Storage: Yes
Subpool: 230 when IEFJFRQ is called in supervisor state,
132 when IEFJFRQ is called in problem state
Key: Key of the caller of the SSI, or key 1
Data Space: No
Residency: Below
Size: 40 bytes (decimal)
Created by: Subsystem Interface
Pointed to by: First word of a 2-word parameter list pointed to by
register 1 on entry to an IEFJFRQ exit routine
Serialization: None
Function: Maps the parameter list passed to exit
routines associated with the IEFJFRQ exit point.

IEFJFRQP mapping

Table 409. Structure FRQP

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	FRQP	IEFJFRQ parameter list
0	(0)	SIGNED	4	FRQP_HEADER(0)	Parameter list header
0	(0)	CHARACTER	4	FRQPID	Control block identifier (FRQPCID)
4	(4)	SIGNED	2	FRQPVERS	Version number. Current version number is FRQPCVER.
6	(6)	SIGNED	2	FRQPLEN	Length of parameter list
8	(8)	CHARACTER	4		Reserved
12	(C)	SIGNED	4	FRQP_INPUT(0)	Input passed to exit routine
12	(C)	ADDRESS	4	FRQP_SSOB@	Address of SSOB representing the current SSI function request
16	(10)	CHARACTER	2	FRQP_INPUT_FLAGS(0)	Flags describing the current SSI request
16	(10)	CHARACTER	1	FRQP_INPUT_FLAG1	First flag byte

IEFJFRQP mapping

Table 409. Structure FRQP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1... ..		FRQP_BCST_RQST	"X'80'" On when the current function request is broadcast, off when directed
		.1... ..		FRQP_PRE_RQST	"X'40'" On when the exit routine is being called before the function request is processed by the target subsystem, off when the request has been processed by all subsystems
		..1.		FRQP_LOJ_SSIB	"X'20'" On when the SSI provided a copy of the life-of-job SSIB (original SSOBSSIB=0)
17	(11)	CHARACTER	1	FRQP_INPUT_FLAG2	Second flag byte
18	(12)	SIGNED	2		Reserved
20	(14)	SIGNED	4	FRQP_CURRENT_SSI_RETCODE	Current cumulative return code that would be returned to the SSI's caller if the exit does not intervene
24	(18)	CHARACTER	12	FRQP_CORRELATION_TOKEN(0)	Token identifying current function request, for use in correlating the multiple exit calls resulting from the same directed or broadcast function request
24	(18)	CHARACTER	8	FRQP_SYSTEM_TOKEN	This piece of the token is unique across an IPL on a single system
32	(20)	SIGNED	4	FRQP_SYSPLEX_ID	This piece of the token appended to FRQP_SYSTEM_TOKEN makes the correlation token unique across the sysplex
36	(24)	CHARACTER	4		Reserved
36	(24)	X'28'	0	FRQP_END	"*" End of FRQP parameter list

Table 410. Structure FRQP_PLIST_AREA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	FRQP_PLIST_AREA	, Parameter list pointed to by register 1 on entry to an IEFJFRQ exit routine
0	(0)	SIGNED	4	FRQP_PLIST@	Address of IEFJFRQP parameter list
4	(4)	SIGNED	4	FRQP_DYNAREA@	Address of working storage provided to exit routine
		1... ..		FRQP_DYNAREA_LAST	"X'80'" High-order bit indicates that this is the last pointer in the parameter list
Constant values					
4	(4)	X'D9D8D7'	0	FRQPCID	"C'FRQP'" Control block ID value
4	(4)	X'1'	0	FRQPVER1	"1" First version of FRQP
4	(4)	X'1'	0	FRQPCVER	"FRQPVER1" Current version of FRQP

Table 410. Structure FRQP_PLIST_AREA (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
4	(4)	X'200'		0	FRQP_DYNSIZE	"512" Size of working storage provided to exit routines
4	(4)	X'28'		0	FRQP_LEN	"FRQP_END-FRQP" Length of FRQP parameter list
Return code values set by IEFJFRQ exit routines The SSI checks return codes only on return from the pre-request instance of the IEFJFRQ exit. The return code is ignored on return from the post-request instance of the exit.						
4	(4)	X'0'		0	FRQP_PROCEED	"0" Route the request to the target subsystem
4	(4)	X'4'		0	FRQP_SUPPRESS	"4" Do not route the request to the target subsystem
4	(4)	X'8'		0	FRQP_INTERRUPT	"8" Do not route the request to the target subsystem or to any subsystems not yet processed (broadcast requests only)
4	(4)	X'18'		0	FRQP_STOP_EXIT_ROUTINE_CALLS	"24" Do not route the request to the target subsystem or to any subsystems not yet processed (broadcast requests only) and do not call any other exit routines associated with this exit

Table 411. Cross Reference for IEFJFRQP

Name	Offset	Hex	Tag
FRQP	0		
FRQP_BCST_RQST	10	80	
FRQP_CORRELATION_TOKEN	18		
FRQP_CURRENT_SSI_RETCODE	14		
FRQP_DYNAREA_LAST	4	80	
FRQP_DYNAREA@	4		
FRQP_DYNSIZE	4	200	
FRQP_END	24	28	
FRQP_HEADER	0		
FRQP_INPUT	C		
FRQP_INPUT_FLAGS	10		
FRQP_INPUT_FLAG1	10		
FRQP_INPUT_FLAG2	11		
FRQP_INTERRUPT	4	8	
FRQP_LEN	4	28	
FRQP_LOJ_SSIB	10	20	
FRQP_PLIST_AREA	0		
FRQP_PLIST@	0		
FRQP_PRE_RQST	10	40	
FRQP_PROCEED	4	0	
FRQP_SSOB@	C		
FRQP_STOP_EXIT_ROUTINE_CALLS	4	18	
FRQP_SUPPRESS	4	4	
FRQP_SYSPLEX_ID	20		

IEFJFRQP mapping

Table 411. Cross Reference for IEFJFRQP (continued)

Name	Offset	Hex Tag
FRQP_SYSTEM_TOKEN	18	
FRQPCID	4	D9D8D7
FRQPCVER	4	1
FRQPID	0	
FRQPLEN	6	
FRQPVERS	4	
FRQPVER1	4	1

Chapter 87. IEFJSBVT Information

IEFJSBVT Heading Information

Common Name: Function Routine Input Table Mapping
 Macro ID: IEFJSBVT
 DSECT Name: JSBVT (fixed header), JSBTBL (function routine area), JSBFCODG (function code area)
 Owing Component: Subsystem Interface (SC1B6)
 Eye-Catcher ID: None
 Storage Attributes: Subpool: determined by caller of IEFJSVEC
 Key: determined by caller of IEFJSVEC
 Residency: Any
 Size: Variable (JSBVT header = 16 bytes)
 Created by: Caller of IEFJSVEC
 Pointed to by: VTSSVTD field of the VT SPL data area
 Serialization: None
 Function: Maps the function routine data used in building a subsystem vector table through IEFJSVEC. IEFJSVEC has been superseded for external use by IEFSSVT and the function of this macro is performed by IEFSSVTI.

IEFJSBVT mapping

Table 412. Structure JSBVT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JSBVT	FIXED HEADER OF SSVT TABLE DATA
0	(0)	SIGNED	4	JSBHDR(0)	HEADER SECTION
0	(0)	CHARACTER	4	JSBID	IDENTIFIER 'JSBV'
4	(4)	SIGNED	2	JSBLEN	LENGTH OF HEADER SECTION
6	(6)	BITSTRING	1	JSBVERS	VERSION OF MAPPING
7	(7)	BITSTRING	1	JSBRSV2	RESERVED
8	(8)	SIGNED	2	JSBFUN	NUMBER OF FUNCTION ROUTINES SPECIFIED IN THIS TABLE OF DATA
10	(A)	BITSTRING	1	JSBSPL	SUBPOOL FOR SSVT
11	(B)	BITSTRING	1	JSBRSV1	RESERVED
12	(C)	SIGNED	2	JSBMAXFR	MAXIMUM NUMBER OF FUNCTION ROUTINE ENTRIES REQUIRED (FOR SSVT CREATE)
14	(E)	SIGNED	2	JSBRSV3	RESERVED
14	(E)	X'10'	0	JSBVTLT	"*-JSBVT" SIZE OF FIXED HEADER
16	(10)	SIGNED	4	JSBDATA(0)	FUNCTION ROUTINE DATA

Table 413. Structure JSBTBL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JSBTBL	ONE FOR EACH FUNCTION RTN
0	(0)	SIGNED	2	JSBLGTH	LENGTH OF THIS RTN'S DATA AREA
2	(2)	CHARACTER	8	JSBNME	NAME OF FUNCTION ROUTINE

IEFJSBVT mapping

Table 413. Structure JSBTBL (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
10	(A)	SIGNED		2	JSBNUM	NUMBER OF FUNCTION CODES SUPPORTED
10	(A)	X'C'		0	JSBTBLGT	"*-JSBTBL" SIZE OF FUNCTION ROUTINE DATA

Table 414. Structure JSBFCODG

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
0	(0)	STRUCTURE		0	JSBFCODG	ONE FOR EACH FUNCTION CODE
0	(0)	SIGNED		2	JSBFCOD	THE FUNCTION CODE
0	(0)	X'2'		0	JSBCDLGT	"*-JSBFCODG" SIZE OF FUNCTION CODE
0	(0)	X'1'		0	JSBCVERS	"1" CURRENT VERSION OF MAPPING

Table 415. Cross Reference for IEFJSBVT

Name	Offset	Hex Tag
JSBCDLGT	0	2
JSBCVERS	0	1
JSBDATA	10	
JSBFCOD	0	
JSBFCODG	0	
JSBFUN	8	
JSBHDR	0	
JSBID	0	
JSBLEN	4	
JSBLGTH	0	
JSBMAXFR	C	
JSBNME	2	
JSBNUM	A	
JSBRSV1	B	
JSBRSV2	7	
JSBRSV3	E	
JSBSPL	A	
JSBTBL	0	
JSBTBLGT	A	C
JSBVERS	6	
JSBVT	0	
JSBVTLT	E	10

Chapter 88. IEFJSEPL Information

IEFJSEPL Programming Interface Information

IEFJSEPL is a programming interface.

IEFJSEPL Heading Information

Common Name: Subsystem event routine parameter list
Macro ID: IEFJSEPL
DSECT Name: JSEPL
Owning Component: Subsystem Interface (SC1B6)
Eye-Catcher ID: JSEPL
Offset: 0
Length: 5
Storage Attributes: Subpool: Caller-specified
Key: 0
Size: X'20' bytes
Created by: IEFJPACT
Pointed to by: On entry to the event notification exit routine, register 1 points to the IEFJSEPL parameter list.
Serialization: None
Function: Defines the subsystem event routine parameter list, enabled using the IEFSSI REQUEST=OPTIONS,EVENTRTN= service.

IEFJSEPL mapping

Table 416. Structure JSEPL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JSEPL	Subsystem event parameter list
0	(0)	CHARACTER	5	JSEEYEC	Eyecatcher - 'JSEPL'
5	(5)	BITSTRING	1	JSEVER	Version of the parameter list
6	(6)	SIGNED	2	JSELGTH	Length of the parameter list
8	(8)	BITSTRING	1	JSEEVENT	Event type - see JSEEvent_xxx constants below
9	(9)	CHARACTER	3		Reserved for alignment
12	(C)	CHARACTER	4	JSESSNAME	Subsystem name
16	(10)	ADDRESS	4	JSESSCVT	Pointer to SSCVT
20	(14)	CHARACTER	12		Reserved for future use
20	(14)	X'1'	0	JSECVER	"1" Current version number
20	(14)	X'1'	0	JSEVER1	"1" Version 1
20	(14)	X'1'	0	JSEEVENT_DELETE	"1" Delete event
20	(14)	X'20'	0	JSEPL_LEN	"*-JSEPL"

Table 417. Cross Reference for IEFJSEPL

Name	Offset	Hex Tag
JSECVER	14	1

IEFJSEPL mapping

Table 417. Cross Reference for IEFJSEPL (continued)

Name	Offset	Hex Tag
JSEEVENT	8	
JSEEVENT_DELETE	14	1
JSEEYEC	0	
JSELGTH	6	
JSEPL	0	
JSEPL_LEN	14	20
JSESSCVT	10	
JSESSNAME	C	
JSEVER	5	
JSEVER1	14	1

Chapter 89. IEFJSQRY Information

IEFJSQRY Programming Interface Information

IEFJSQRY is a programming interface.

IEFJSQRY Heading Information

Common Name: IEFSSI QUERY Output Mapping
Macro ID: IEFJSQRY
DSECT Name: JQRY_HEADER - Output header data JQRY_SUBSYS_ENTRY - Data for one subsystem
JQRY_VT_ENTRY - Data for one vector table
Owning Component: Subsystem Interface (SC1B6)
Eye-Catcher ID: JQRY
Offset: 0
Length: 4 bytes
Storage Attributes: Main Storage: No
Virtual Storage: Yes
Auxiliary Storage: Yes
Subpool: Determined by caller of IEFSSI REQUEST=QUERY
Key: Key of IEFSSI caller (if subpool is variable key)
Data Space: No
Residency: ABOVE if permitted by subpool, otherwise BELOW
Size: JQRY_HEADER_LEN + (number subsystems * JQRY_SUBSYS_LEN)
Created by: Subsystem Interface
Pointed to by: User pointer identified by the WORKAREA keyword in the IEFSSI invocation
Serialization: None
Function: Maps the output of an IEFSSI QUERY request

IEFJSQRY mapping

Table 418. Structure JQRY_HEADER

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JQRY_HEADER	, IEFSSI QUERY output area
0	(0)	SIGNED	4	(0)	
0	(0)	CHARACTER	4	JQRYID	Control block identifier (JQRYCID)
4	(4)	SIGNED	2	JQRYVERS	Version number. Current version is JQRYCVER.
6	(6)	SIGNED	2		Reserved
8	(8)	SIGNED	4	JQRYLEN	Length of data returned by the QUERY request
12	(C)	SIGNED	4	JQRY_NUM_SUBSYS	Number of subsystems for which data is returned
12	(C)	X'10'	0	JQRY_SUBSYS_DATA	"*" Subsystem data

IEFJSQRY mapping

Table 419. Structure JQRY_SUBSYS_ENTRY

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JQRY_SUBSYS_ENTRY	, Data for one subsystem
0	(0)	CHARACTER	4	JQRY_SUBSYS_NAME	Name of the subsystem
4	(4)	BITSTRING	1	JQRY_SSID	Subsystem ID
		.... ....		JQRY_SSID_UNKNOWN	"X'00'" SSID value when unknown
		.... ..1.		JQRY_SSID_JES2	"X'02'" SSID value when JES2
		.... ..11		JQRY_SSID_JES3	"X'03'" SSID value when JES3
5	(5)	CHARACTER	7		Reserved
Any future subsystem status flags will be defined only in the 1-byte fields JQRY_STATUS1 and JQRY_STATUS2. The existing 2-byte flag fields are left for compatibility, but new flags will be defined as 1-byte values.					
12	(C)	CHARACTER	2	JQRY_STATUS(0)	Subsystem flags
12	(C)	BITSTRING	0	JQRY_PRIMARY	"X'8000'" Subsystem is the primary subsystem
12	(C)	BITSTRING	0	JQRY_DYNAMIC	"X'4000'" Subsystem is dynamic
12	(C)	BITSTRING	0	JQRY_DYNSSI_COMMANDS	"X'2000'" Subsystem responds to the SETSSI command. Valid only if JQRY_DYNAMIC set.
12	(C)	BITSTRING	0	JQRY_ACTIVE	"X'1000'" Subsystem is active
		.... ...1		JQRY_INCOMPLETE	"X'0001'" Data for this subsystem may be incomplete
12	(C)	CHARACTER	1	JQRY_STATUS1	Subsystem flags - byte 1
		1...		JQRY_PRIMARY1	"X'80'" Subsystem is the primary subsystem
		.1..		JQRY_DYNAMIC1	"X'40'" Subsystem is dynamic
		..1.		JQRY_DYNSSI_COMMANDS1	"X'20'" Subsystem responds to the SETSSI command. Valid only if JQRY_DYNAMIC1 set.
		...1		JQRY_ACTIVE1	"X'10'" Subsystem is active
		.... 1..		JQRY_EVENTRTN_LOADED	"X'08'" Subsystem has a subsystem event routine loaded and available
13	(D)	CHARACTER	1	JQRY_STATUS2	Subsystem flags - byte 2
		.... ...1		JQRY_INCOMPLETE2	"X'01'" Data for this subsystem may be incomplete
14	(E)	SIGNED	2	JQRY_NUM_VT	Number of vector tables associated with this subsystem
14	(E)	X'10'	0	JQRY_VT_LIST	"*" List of associated vector tables (space for description of two vector tables)

Table 420. Structure JQRY_VT_ENTRY

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	JQRY_VT_ENTRY	, Data for one vector table
0	(0)	SIGNED	4	JQRY_VT_LOC	Vector table locator. This is a token if JQRY_VT_SSI_MANAGED is set, and the vector table address if the flag is not set.
4	(4)	BITSTRING	1	JQRY_VT_FLAGS	Vector table flags

Table 420. Structure JQRY_VT_ENTRY (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
		1...	....		JQRY_VT_ACTIVE	"X'80'" This vector table is being used to route function requests
		.1...	....		JQRY_VT_SSI_MANAGED	"X'40'" Vector table is SSI-managed (created via IEFSSVT)
5	(5)	CHARACTER		3		Reserved
8	(8)	CHARACTER		4		Reserved
12	(C)	BITSTRING		32	JQRY_VT_FUNC_LIST(0)	Function code list
12	(C)	BITSTRING		31	JQRY_VT_FUNC_CODES	Bit mask indicating support function codes ('1'B = supported). Valid if JQRY_VT_SSI_MANAGED or JQRY_VT_ACTIVE set.
44	(2C)	CHARACTER		8		Reserved
44	(2C)	X'34'		0	JQRY_VT_END	"*" End of vector table entry
Constant values						
44	(2C)	X'D8D9E8'		0	JQRYCID	"C'JQRY'" Control block ID value
44	(2C)	X'1'		0	JQRYVER1	"1" First version of IEFJSQRY
44	(2C)	X'1'		0	JQRYCVER	"JQRYVER1" Current version of IEFJSQRY
44	(2C)	X'34'		0	JQRY_VT_LEN	"JQRY_VT_END-JQRY_VT_ENTRY" Length of data for one vector table
44	(2C)	X'78'		0	JQRY_SUBSYS_LEN	"JQRY_VT_LIST-JQRY_SUBSYS_ENTRY+(2*JQRY_VT_LEN)" Length of data for one subsystem
44	(2C)	X'10'		0	JQRY_HEADER_LEN	"JQRY_SUBSYS_DATA-JQRY_HEADER" Length of JQRY_HEADER section

Table 421. Cross Reference for IEFJSQRY

Name	Offset	Hex Tag
JQRY_ACTIVE	C	1000
JQRY_ACTIVE1	C	10
JQRY_DYNAMIC	C	4000
JQRY_DYNAMIC1	C	40
JQRY_DYNSSI_COMMANDS	C	2000
JQRY_DYNSSI_COMMANDS1	C	20
JQRY_EVENTRTN_LOADED	C	8
JQRY_HEADER	0	
JQRY_HEADER_LEN	2C	10
JQRY_INCOMPLETE	C	1
JQRY_INCOMPLETE2	D	1
JQRY_NUM_SUBSYS	C	
JQRY_NUM_VT	E	
JQRY_PRIMARY	C	8000
JQRY_PRIMARY1	C	80
JQRY_SSID	4	
JQRY_SSID_JES2	4	2

IEFJSQRY mapping

Table 421. Cross Reference for IEFJSQRY (continued)

Name	Offset	Hex Tag
JQRY_SSID_JES3	4	3
JQRY_SSID_UNKNOWN	4	0
JQRY_STATUS	C	
JQRY_STATUS1	C	
JQRY_STATUS2	D	
JQRY_SUBSYS_DATA	C	10
JQRY_SUBSYS_ENTRY	0	
JQRY_SUBSYS_LEN	2C	78
JQRY_SUBSYS_NAME	0	
JQRY_VT_ACTIVE	4	80
JQRY_VT_END	2C	34
JQRY_VT_ENTRY	0	
JQRY_VT_FLAGS	4	
JQRY_VT_FUNC_CODES	C	
JQRY_VT_FUNC_LIST	C	
JQRY_VT_LEN	2C	34
JQRY_VT_LIST	E	10
JQRY_VT_LOC	0	
JQRY_VT_SSI_MANAGED	4	40
JQRYCID	2C	D8D9E8
JQRYCVER	2C	1
JQRYID	0	
JQRYLEN	8	
JQRYVERS	4	
JQRYVER1	2C	1

Chapter 90. IEFJSRC Information

IEFJSRC Programming Interface Information

IEFJSRC is a programming interface.

IEFJSRC Heading Information

Common Name: Dynamic SSI Return and Reason Codes
Macro ID: IEFJSRC
DSECT Name: N/A
Owning Component: Initiator (SC1B6)
Eye-Catcher ID: N/A
Offset: N/A
Length: N/A
Storage Attributes: Main Storage: N/A
Virtual Storage: N/A
Auxiliary Storage: N/A
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 the return and reason codes used by
Dynamic SSI services.

IEFJSRC mapping

Table 422. Structure

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

IEFJSRC mapping

Table 422. Structure (continued)

Offset	Offset			
Dec	Hex	Type	Len	Name(Dim)
				START OF SPECIFICATIONS
01				MACRO NAME = IEFJSRC
01				DESCRIPTIVE NAME = Dynamic SSI Return and Reason Codes
01				PROPRIETARY STATEMENT=
				PROPRIETARY_STATEMENT
				LICENSED MATERIALS - PROPERTY OF IBM
				5650-ZOS COPYRIGHT IBM CORP. 1994, 2015
				STATUS= HBB77A0
				END_OF_PROPRIETARY_STATEMENT
01				FUNCTION = Defines the return and reason codes used by
				Dynamic SSI services.
01				EXTERNAL CLASSIFICATION: GUPI
01				END OF EXTERNAL CLASSIFICATION:
01				NOTES =
				- The reason code values are determined as follows:
				For each SSI service, reason codes are assigned within
				numerical ranges, where each range is associated with a
				specific request type. The first 2 decimal digits
				identify the request type. The remaining digits are
				sequential starting with '00'.
02				DEPENDENCIES =
				- This macro should be updated if new return or reason
				codes are defined for the following SSI services:
				IEFSSI
				IEFSSVT
02				RESTRICTIONS = None
				INVOCATION
01				METHOD OF ACCESS =
02				PL/AS =
				%INCLUDE SYSLIB(IEFJSRC)
02				BAL =
				IEFJSRC
				Return and reason codes can be tested as in the
				following example:
				CL R15,=AL4(IEFSSI_SUCCESS)
01				DSECT NAME = N/A
01				COMPONENT = Initiator (SC1B6)
01				EYE CATCHER = N/A
02				OFFSET = N/A
02				LENGTH = N/A
01				CREATED BY = N/A
01				POINTED TO BY = N/A
01				SERIALIZATION = N/A
01				STORAGE ATTRIBUTES =
				02 MAIN STORAGE = N/A
				02 VIRTUAL STORAGE = N/A
				02 AUXILIARY STORAGE = N/A
				02 SUBPOOL = N/A
				02 KEY = N/A
				02 RESIDENCY = N/A
				02 FREQUENCY = N/A
01				SIZE = N/A
01				CHANGE ACTIVITY =
				\$L0= SSIDP HBB5520 930923 PDBN: Dynamic SSI
				\$D1= DN70009 HBB5520 940210 PDBN: Dynamic SSI
				\$P1= PN70199 HBB5520 940210 PDBN: Dynamic SSI

Table 422. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					\$P2= PN70254 HBB5520 940310 PDBN: Dynamic SSI
					\$D2= DN70025 HBB5520 940414 PDBN: Dynamic SSI
					\$D3= DN70027 HBB5520 940414 PDBN: Dynamic SSI
					\$P3= PN70337 HBB5520 940414 PDBN: Dynamic SSI
					\$P4= PN70937 HBB5520 940908 PDBN: Dynamic SSI
					\$L1= SSIDEL HBB77A0 140601 PDTA: SSI DELETE support Feature ME27621
					END OF SPECIFICATIONS
					A 000000-999999
					D Remove support for subsystem deletion
					A Define IEFSSVT_INVALID_FROUTINE reason code
					A Define IEFSSVT_NO_FCODES reason code
					D Remove support for vector table usage monitoring
					A Add IEFSSI_WARNING and IEFSSVT_WARNING return codes
					A Define IEFSSVT_MAXENTRIES_TOO_BIG reason code
					C Change comments on IEFSSI_UNAVAILABLE and IEFSSVT_UNAVAILABLE to indicate return code may be received if service requested on a down-level system.
					C Add IEFSSI_EVENTRTN_NOT_FOUND reason code.
					%GOTO JSRCPLS;
					IEFSSI RETURN CODES (decimal)
					0 (0) X'0'
					0 (0) X'4'
					0 (0) X'8'
					0 (0) X'C'
					0 (0) X'14'
					0 (0) X'18'
					0 IEFSSI_SUCCESS "0" X'000' Processing successful
					0 IEFSSI_WARNING "4" X'004' Processing partially successful
					0 IEFSSI_INVALID_PARAMETERS "8" X'008' Invalid parameters
					0 IEFSSI_REQUEST_FAIL "12" X'00C' Request failed
					0 IEFSSI_SYSTEM_ERROR "20" X'014' System error
					0 IEFSSI_UNAVAILABLE "24" X'018' SSI service routines not available (too early or down-level system)
					IEFSSI REASON CODES (decimal)
					RETURN CODE IEFSSI_SUCCESS
					0 (0) X'0'
					0 IEFSSI_FUNCTIONS_COMPLETE "0" X'000' Subsystem service request complete
					RETURN CODE IEFSSI_WARNING
					ADD REQUEST WARNINGS (100 - 199)
					ACTIVATE REQUEST WARNINGS (200 - 299)
					DEACTIVATE REQUEST WARNINGS (300 - 399)
					0 (0) X'12C'
					0 IEFSSI_DEACT_INACTIVE "300" X'12C' Subsystem already inactive
					0 (0) X'12D'
					0 IEFSSI_DEACT_OUT_VT_NOT_SSI "301" X'12D' Subsystem deactivated but previously-active vector table not SSI-managed. OUTTOKEN value is 0.
					SWAP REQUEST WARNINGS (500 - 599)
					0 (0) X'1F4'
					0 IEFSSI_SWAP_INACTIVE "500" X'1F4' Subsystem was initially inactive. OUTTOKEN value is 0.
					0 (0) X'1F5'
					0 IEFSSI_SWAP_OUT_VT_NOT_SSI "501" X'1F5' Swap complete but previously-active vector table not SSI-managed. OUTTOKEN value is 0.

IEFJSRC mapping

Table 422. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
OPTIONS REQUEST WARNINGS (600 - 699) PUT REQUEST WARNINGS (700 - 799) GET REQUEST WARNINGS (800 - 899) QUERY REQUEST WARNINGS (900 - 999)					
0	(0)	X'384'	0	IEFSSI_QUERY_INCOMPLETE	"900" X'384' Data returned by query may be incomplete. Check the JQRY_INCOMPLETE flag for each subsystem queried.
RETURN CODE IEFSSI_INVALID_PARAMETERS					
0	(0)	X'0'	0	IEFSSI_SUBSYSTEM_UNKNOWN	"0" X'000' Subsystem not defined to SSI
0	(0)	X'4'	0	IEFSSI_NON_DYNAMIC	"4" X'004' Subsystem not dynamic
0	(0)	X'8'	0	IEFSSI_BAD_VT_TOKEN	"8" X'008' Vector table token does not correspond to a valid vector table
0	(0)	X'C'	0	IEFSSI_INVALID_NAME	"12" X'00C' Subsystem or routine name contains invalid characters
0	(0)	X'10'	0	IEFSSI_INIT_PARMS	"16" X'010' Initialization routine parameter string too long
RETURN CODE IEFSSI_REQUEST_FAIL					
ADD REQUEST ERRORS (100 - 199)					
0	(0)	X'64'	0	IEFSSI_DUPLICATE_SUBSYSTEM	"100" X'064' Subsystem already exists
0	(0)	X'65'	0	IEFSSI_INITRTN_NOT_FOUND	"101" X'065' Initialization routine could not be found
0	(0)	X'66'	0	IEFSSI_INITRTN_ABEND	"102" X'066' Initialization routine ABENDED
0	(0)	X'67'	0	IEFSSI_ADD_STORAGE	"103" X'067' Unable to obtain storage for subsystem definition
ACTIVATE REQUEST ERRORS (200 - 299)					
0	(0)	X'C8'	0	IEFSSI_SUBSYSTEM_ACTIVE	"200" X'0C8' Subsystem already active
0	(0)	X'C9'	0	IEFSSI_ACT_NO_ELIGIBLE_VT	"201" X'0C9' Subsystem vector table not specified and no valid defaults available
DEACTIVATE REQUEST ERRORS (300 - 399)					
SWAP REQUEST ERRORS (500 - 599)					
0	(0)	X'1F4'	0	IEFSSI_SWAP_NO_ELIGIBLE_VT	"500" X'1F4' Subsystem vector table not specified and no valid defaults available
0	(0)	X'1F6'	0	IEFSSI_SWAP_ALREADY_ACTIVE	"502" X'1F6' Vector table to be made active (specified by INTOKEN) is already active
OPTIONS REQUEST ERRORS (600 - 699)					
0	(0)	X'258'	0	IEFSSI_EVENTRTN_NOT_FOUND	"600" X'258' EVENTRTN routine could not be found
PUT REQUEST ERRORS (700 - 799) GET REQUEST ERRORS (800 - 899) QUERY REQUEST ERRORS (900 - 999)					

Table 422. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'384'	0	IEFSSI_QUERY_STORAGE	"900" X'384' Unable to obtain storage for output of query request
IEFSSVT RETURN CODES (decimal)					
0	(0)	X'0'	0	IEFSSVT_SUCCESS	"0" X'000' Processing successful
0	(0)	X'4'	0	IEFSSVT_WARNING	"4" X'004' Processing partially successful
0	(0)	X'8'	0	IEFSSVT_INVALID_PARAMETERS	"8" X'008' Invalid parameters
0	(0)	X'C'	0	IEFSSVT_REQUEST_FAIL	"12" X'00C' Request failed
0	(0)	X'10'	0	IEFSSVT_LOAD_ERROR	"16" X'010' Error LOADING subsystem function routine
0	(0)	X'14'	0	IEFSSVT_SYSTEM_ERROR	"20" X'014' System error
0	(0)	X'18'	0	IEFSSVT_UNAVAILABLE	"24" X'018' SSI service routines not available (too early or down-level system)
IEFSSVT REASON CODES (decimal)					
RETURN CODE IEFSSVT_SUCCESS					
0	(0)	X'0'	0	IEFSSVT_FUNCTIONS_COMPLETE	"0" X'000' Vector table service request complete
RETURN CODE IEFSSVT_WARNING					
RETURN CODE IEFSSVT_INVALID_PARAMETERS					
0	(0)	X'0'	0	IEFSSVT_SUBSYSTEM_UNKNOWN	"0" X'000' Subsystem not defined to SSI
0	(0)	X'4'	0	IEFSSVT_NON_DYNAMIC	"4" X'004' Subsystem not dynamic
0	(0)	X'8'	0	IEFSSVT_BAD_VT_TOKEN	"8" X'008' Vector table token does not correspond to a valid vector table
0	(0)	X'C'	0	IEFSSVT_INVALID_NAME	"12" X'00C' Subsystem or routine name contains invalid characters
0	(0)	X'10'	0	IEFSSVT_INVALID_FUNCTION_CODE	"16" X'010' Function code outside valid range
0	(0)	X'14'	0	IEFSSVT_DUPLICATE_FUNCTION_CODE	"20" X'014' Function code appears more than once in input table
0	(0)	X'18'	0	IEFSSVT_INVALID_FROUTINE	"24" X'018' Function routine name / address is null
0	(0)	X'1C'	0	IEFSSVT_NO_FCODES	"28" X'01C' Function routine entry in input table specifies no function codes
RETURN CODE IEFSSVT_REQUEST_FAIL					
CREATE REQUEST ERRORS (100 - 199)					
0	(0)	X'64'	0	IEFSSVT_MAX_VECTOR_TABLES	"100" X'064' Maximum number of vector already exists for subsystem
0	(0)	X'65'	0	IEFSSVT_STORAGE	"101" X'065' Unable to obtain storage for vector table
0	(0)	X'66'	0	IEFSSVT_MAXENTRIES_TOO_SMALL	

IEFJSRC mapping

Table 422. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'67'	0	IEFSSVT_MAXENTRIES_TOO_BIG	"102" X'066' MAXENTRIES value less than number of function routines in input table
					"103" X'067' MAXENTRIES greater than maximum (255)
ENABLE REQUEST ERRORS (200 - 299)					
0	(0)	X'C8'	0	IEFSSVT_ENABLE_NO_ELIGIBLE_VT	"200" X'0C8' Subsystem vector table not specified and no valid defaults available
0	(0)	X'C9'	0	IEFSSVT_ENABLE_MAX_ROUTINES	"201" X'0C9' No room for new function routines in vector table
0	(0)	X'CA'	0	IEFSSVT_FUNCTION_ALREADY_ENABLED	"202" X'0CA' The subsystem already responds to one of the codes for which the enable request was submitted
DISABLE REQUEST ERRORS (300 - 399)					
0	(0)	X'12C'	0	IEFSSVT_DISABLE_NO_ELIGIBLE_VT	"300" X'12C' Subsystem vector table not specified and no valid defaults available
EXCHANGE REQUEST ERRORS (500 - 599)					
0	(0)	X'1F4'	0	IEFSSVT_EXCHANGE_NO_ELIGIBLE_VT	"500" X'1F4' Subsystem vector table not specified and no valid defaults available
0	(0)	X'1F5'	0	IEFSSVT_EXCHANGE_MAX_ROUTINES	"501" X'1F5' No room for new function routines in vector table

Table 423. Cross Reference for IEFJSRC

Name	Offset	Hex Tag
IEFSSI_ACT_NO_ELIGIBLE_VT	0	C9
IEFSSI_ADD_STORAGE	0	67
IEFSSI_BAD_VT_TOKEN	0	8
IEFSSI_DEACT_INACTIVE	0	12C
IEFSSI_DEACT_OUT_VT_NOT_SSI	0	12D
IEFSSI_DUPLICATE_SUBSYSTEM	0	64
IEFSSI_EVENTRTN_NOT_FOUND	0	258
IEFSSI_FUNCTIONS_COMPLETE	0	0
IEFSSI_INIT_PARMS	0	10
IEFSSI_INITRTN_ABEND	0	66
IEFSSI_INITRTN_NOT_FOUND	0	65
IEFSSI_INVALID_NAME	0	C
IEFSSI_INVALID_PARAMETERS	0	8

Table 423. Cross Reference for IEFJSRC (continued)

Name	Offset	Hex Tag
IEFSSI_NON_DYNAMIC	0	4
IEFSSI_QUERY_INCOMPLETE	0	384
IEFSSI_QUERY_STORAGE	0	384
IEFSSI_REQUEST_FAIL	0	C
IEFSSI_SUBSYSTEM_ACTIVE	0	C8
IEFSSI_SUBSYSTEM_UNKNOWN	0	0
IEFSSI_SUCCESS	0	0
IEFSSI_SWAP_ALREADY_ACTIVE	0	1F6
IEFSSI_SWAP_INACTIVE	0	1F4
IEFSSI_SWAP_NO_ELIGIBLE_VT	0	1F4
IEFSSI_SWAP_OUT_VT_NOT_SSI	0	1F5
IEFSSI_SYSTEM_ERROR	0	14
IEFSSI_UNAVAILABLE	0	18
IEFSSI_WARNING	0	4
IEFSSVT_BAD_VT_TOKEN	0	8
IEFSSVT_DISABLE_NO_ELIGIBLE_VT	0	12C
IEFSSVT_DUPLICATE_FUNCTION_CODE	0	14
IEFSSVT_ENABLE_MAX_ROUTINES	0	C9
IEFSSVT_ENABLE_NO_ELIGIBLE_VT	0	C8
IEFSSVT_EXCHANGE_MAX_ROUTINES	0	1F5
IEFSSVT_EXCHANGE_NO_ELIGIBLE_VT	0	1F4
IEFSSVT_FUNCTION_ALREADY_ENABLED	0	CA
IEFSSVT_FUNCTIONS_COMPLETE	0	0
IEFSSVT_INVALID_FROUTINE	0	18
IEFSSVT_INVALID_FUNCTION_CODE	0	10
IEFSSVT_INVALID_NAME	0	C
IEFSSVT_INVALID_PARAMETERS	0	8
IEFSSVT_LOAD_ERROR	0	10
IEFSSVT_MAX_VECTOR_TABLES	0	64
IEFSSVT_MAXENTRIES_TOO_BIG	0	67
IEFSSVT_MAXENTRIES_TOO_SMALL	0	66
IEFSSVT_NO_FCODES	0	1C
IEFSSVT_NON_DYNAMIC	0	4
IEFSSVT_REQUEST_FAIL	0	C
IEFSSVT_STORAGE	0	65
IEFSSVT_SUBSYSTEM_UNKNOWN	0	0
IEFSSVT_SUCCESS	0	0
IEFSSVT_SYSTEM_ERROR	0	14
IEFSSVT_UNAVAILABLE	0	18
IEFSSVT_WARNING	0	4

IEFJSRC mapping

Chapter 91. IEFJSSCX Information

IEFJSSCX Heading Information

Common Name: Subsystem Communications Vector Table Extension
 Macro ID: IEFJSSCX
 DSECT Name: SSCX
 Owing Component: Subsystem Interface (SC1B6)
 Eye-Catcher ID: SSCX
 Offset: 0
 Length: 4
 Storage Attributes: Subpool: Caller-specified
 Key: 0
 Size: X'3C' bytes
 Created by: Subsystem Interface
 Pointed to by: SSCTSCTX field of the SSCVT data area
 Serialization: None
 Function: Maps information defining a subsystem

IEFJSSCX mapping

Table 424. Structure SSCX

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SSCX	SSCVT extension
0	(0)	CHARACTER	4	SSCXEYEC	Eyecatcher - 'SSCX'
4	(4)	BITSTRING	1	SSCXVER	Version of the SSCX
5	(5)	CHARACTER	1		Reserved for alignment
6	(6)	SIGNED	2	SSCXLGTH	Length of the SSCX
8	(8)	ADDRESS	4	SSCX_EVENTRTN_ADDR	Address of event routine
12	(C)	CHARACTER	20	SSCX_DELETED_DIAGAREA	Deleted subsystem information for diagnostic purposes only. Only used when subsystem name in SSCVT is !DEL.
12	(C)	CHARACTER	4	SSCX_DELETED_SSNAME	Original name of deleted subsystem
16	(10)	CHARACTER	8	SSCX_DELETED_TOD	Time of deletion
24	(18)	ADDRESS	4	SSCX_DELETED_DIAG1	Diagnostic info
28	(1C)	ADDRESS	4	SSCX_DELETED_DIAG2	Diagnostic info
32	(20)	CHARACTER	28		Reserved and available
32	(20)	X'1'	0	SSCXCVR	"1" Current version number
32	(20)	X'1'	0	SSCXVER1	"1" Version 1
32	(20)	X'3C'	0	SSCX_LEN	"*-SSCX"

Table 425. Cross Reference for IEFJSSCX

Name	Offset	Hex Tag
SSCX	0	
SSCX_DELETED_DIAGAREA	C	
SSCX_DELETED_DIAG1	18	
SSCX_DELETED_DIAG2	1C	

IEFJSSCX mapping

Table 425. Cross Reference for IEFJSSCX (continued)

Name	Offset	Hex Tag
SSCX_DELETED_SSNAME	C	
SSCX_DELETED_TOD	10	
SSCX_EVENTRTN_ADDR	8	
SSCX_LEN	20	3C
SSCXCVR	20	1
SSCXEYEC	0	
SSCXLGTH	6	
SSCXVER	4	
SSCXVER1	20	1

Chapter 92. IEFSIOTX Information

IEFSIOTX Heading Information

Common Name: STEP INPUT/OUTPUT TABLE EXTENSION
 Macro ID: IEFSIOTX
 DSECT Name: NONE
 Owing Component: Interpreter (SC1B9)
 Eye-Catcher ID: 'SIOX'
 Offset: -4 (SWA prefix)
 Length: 4 bytes
 Storage Attributes: Subpool: 236 OR 237 (SWA), 241 for masters address space
 Key: 1
 Residency: Any
 Size: 352 BYTES
 SIOTX -- X'0160' bytes
 FREQUENCY = One per DD statement
 Created by: Interpreter and Dynamic Allocation
 Pointed to by: - DSABXSVA field (SVA token) of the DSAB data area
 - SIOTXSVA field of the SIOT data area
 Serialization: None
 Function: Contains information concerning a data definition (DD)
 JCL statement and its related data set.

IEFSIOTX mapping

Table 426. Structure SIOTX

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	352	SIOTX	
0	(0)	CHARACTER	352	INXMSIOX	Beginning indicator
0	(0)	CHARACTER	176	SIOTX_SIOT	SIOT related information
0	(0)	ADDRESS	4	*	Reserved for pointer to a new Extension (if ever needed)
4	(4)	ADDRESS	4	*	Reserved for SVA of a new Extension (if ever needed)
<p>Note that an SVA has an attribute of PTR(24). The first word in a DD token must be declared as PTR(31) so that the high order byte will be padded with zeros when saving the SVA in the first word. The second word of the DD Token is always zero.</p>					
8	(8)	CHARACTER	8	SIOTX_UNAFF_TOKEN	DD Token for affed-to DD (UNIT=AFF=DDx) Used by: IEFAB457, IEFJACC
8	(8)	ADDRESS	4	SIOTX_UNAFF_SVA_WORD	SVA plus the slack byte used for alignment
8	(8)	ADDRESS	1	*	
9	(9)	ADDRESS	3	SIOTX_UNAFF_SVA	SVA of affed-to DD Set by: IEFVDA
12	(C)	ADDRESS	4	*	Always zero
16	(10)	ADDRESS	4	SIOTX_UNAFF_PTR	Address of affed-to DD Used by: IEFAB457
20	(14)	UNSIGNED	2	SIOTX_DEVN	Device name as a binary number

IEFSIOTX mapping

Table 426. Structure SIOTX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
22	(16)	CHARACTER	2	*	Reserved so the JFCB portion can be properly aligned on a fullword boundary without causing any bytes in the SIOTX to be skipped
24	(18)	ADDRESS	4	SIOTX_VOLSINCON_PTR	Pointer to the volumes in conflict table for this step. If a conflict exists, all SIOTX entries will contain this information regardless of whether or not it is part of the conflict
28	(1C)	SIGNED	4	SIOTX_#VOLSINCON	Number of volumes in conflict for this step. If a conflict exists, all SIOTX entries will contain this information regardless of whether or not it is part of the conflict

The following "Diagnostics" structure contains pieces of information gathered during Allocation for use in diagnosing errors such as IEF702I - Unable to Allocate, aka error code RCUNITNA (0214x) from Dynamic Allocation, IKJ56241I - No Unit Available and Siot Rsnocode SIRSC006. NOTE If space in the SIOTX should get tight, this structure could be moved to the DDWA. The size of that area is more dynamic, but it does not persist after the return to the Allocation caller, as the SIOTX does.

32	(20)	CHARACTER	40	SIOTX_DIAGNOSTICS	Unit name for this DD, saved during the Allocation process
32	(20)	CHARACTER	8	SIOTX_UNITNAMEONINPUT	EBCDIC unit name on input to Batch or DynAlloc. Set by IEFBB401, IEFDB414 Used by IEFAB4DG
40	(28)	CHARACTER	8	SIOTX_UNITNAMEAFTERDB401	EBCDIC unit name for Dynamic Allocation after installation exit IEFDB401 has had the opportunity to add, alter or delete it. Will be zero for batch allocations. See SCTUTYPE in IEFASIOT for submapping. Set by IEFDB414 Used by IEFAB4DG
48	(30)	CHARACTER	8	SIOTX_UNITNAMEAFTERLOCATE	Unit name after a locate or SMS call has been done. Can be zero if no locate or SMS call done. See SCTUTYPE in IEFASIOT for submapping. Set by IEFAB464, Used by IEFAB4DG
48	(30)	CHARACTER	4	SIOTX_DEVTYPEAFTERLOCATE	Device type portion of data returned by locate. Can be zero if no locate or SMS call done. Set by IEFAB464, Used by IEFAB4DG

Table 426. Structure SIOTX (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
52	(34)	CHARACTER		4	*	Reserved. Do not use.
56	(38)	CHARACTER		8	SIOTX_UNITNAMEAFTERCONV	Unit Name after conversion. See SCTUTYPE in IEFASIOT for submapping. Set by IEFDB414,IEFAB464 Used by IEFAB4DG
56	(38)	CHARACTER		4	SIOTX_DEVTYPEAFTERCONV	Device type portion of unitname after conversion.
60	(3C)	CHARACTER		4	*	Reserved. Do not use.
64	(40)	CHARACTER		1	SIOTX_DIAGNOSTICFLAGS	Flags for diagnostic info
			1... ..		SIOTX_SIOTCVTDAFTERCONV	Records value of SIOUCVTD after conversion when conversion may or may not have been done.
			.1... ..		SIOTX_INPUTSWCOPIED	When 1, indicates that this allocation came from SVC99 and that the S99FLAG1 and S99FLAG2 have been copied here for display in IEF705I
			..11 1111		*	reserved for future use
65	(41)	CHARACTER		1	*	Reserved for future use
66	(42)	CHARACTER		6	SIOTX_COPY_INPUTSW	Copy of InputSW from DynAlloc caller. This is the S99FLAG1 and S99FLAG2. Set by IEFDB413, Used by IEFAB4DG
66	(42)	CHARACTER		2	SIOTX_COPY_S99FLAG1	Copy of S99FLAG1 from DynAlloc request
68	(44)	CHARACTER		4	SIOTX_COPY_S99FLAG2	Copy of S99FLAG2 from DynAlloc request
72	(48)	CHARACTER		8	SIOTX_ALLOCATIONTIME	Timestamp when siotalcd was set
80	(50)	SIGNED		4	SIOTX_EAVEXCLUDECOUNT	Count of Extended Address Volume devices which were excluded from consideration during Allocation due to SMS parmlib USEEAV(NO) specification.
84	(54)	BITSTRING		4	SIOTX_SIOT_FLAGS	SIOT-related flags
			1... ..		SIOTX_DASD_MIGRATED_TO_TAPE	Data set was migrated to tape and not recalled because it was going to be deleted anyway. Set by IEFAB469, used by IEFBB414 and IEFAB4A2
			.1... ..		SIOTX_EDL_FOR_DASD_CATLGD_DS	Dataset is catalog'd on DASD volumes, lookup devices for those volumes and build a small & efficient EDL with only these devices instead of the generic. Set by IEFAB424.
			..1.		SIOTX_TMPDSN_JFCBDSN_UPDATED	

IEFSIOTX mapping

Table 426. Structure SIOTX (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
			...1		SIOTX_DEVTYPE_SET	The JFCBDSNM of this temporary dataset name is updated to match that of the first such dd in the job, so that all temp data sets with the same input dsn will have the same JFCBDSNM. Bit is set and used by IEFIB600.
			.... 1...		SIOTX_NO_DSTAB	Indicates that we have set the SIOTX_DevType field
84	(54)	BITSTRING		3	*	Skip DSTAB processing available for future use
88	(58)	ADDRESS		4	SIOTX_IEFTAPE_PTR	IEFTAPE pointer
92	(5C)	CHARACTER		1	*	Reserved for alignment
93	(5D)	ADDRESS		3	SIOTX_IEFTAPE_SVA	IEFTAPE SVA
96	(60)	CHARACTER		80	*	Reserved for future use
176	(B0)	CHARACTER		176	SIOTX_JFCB	JFCB related information
176	(B0)	CHARACTER		8	SIOTX_BLOCKSIZE	Blocksize
184	(B8)	CHARACTER		8	SIOTX_BLKSZLIM	Blocksize Limit
192	(C0)	CHARACTER		4	SIOTX_MASK_WORD1	Mask Word #1
192	(C0)	BITSTRING		1	SIOTX_MASK_BYTE1	Mask Byte #1
			1...		SIOTX_MSKBSLM	Mask bit for BLKSZLIM
			.111 1111		*	Reserved
193	(C1)	BITSTRING		1	SIOTX_MASK_BYTE2	Mask Byte #2
194	(C2)	BITSTRING		1	SIOTX_MASK_BYTE3	Mask Byte #3
195	(C3)	BITSTRING		1	SIOTX_MASK_BYTE4	Mask Byte #4
196	(C4)	UNSIGNED		4	SIOTX_TDSI	DEVICE TYPE
196	(C4)	UNSIGNED		1	SIOTX_TDSREC	Recording Technology
197	(C5)	UNSIGNED		1	SIOTX_TDSMEDIA	Media Type
198	(C6)	UNSIGNED		1	SIOTX_TDSCOMP	Compaction
199	(C7)	UNSIGNED		1	SIOTX_TDSSPEC	Special Attribute
200	(C8)	CHARACTER		4	SIOTX_DEVTYPE	Device type from Catalog. Only valid when SIOTX_DevType_Set is also on.
204	(CC)	CHARACTER		148	*	Reserved for future use

Table 427. Constants for IEFSIOTX

Len	Type	Value	Name	Description
CONSTANTS TO DEFINE RECORDING TECHNOLOGY (SIOTX_TDSREC)				
1	DECIMAL	0	SIOTX_TDSNOREC	Recording Technology unknown or unspecified
1	DECIMAL	1	SIOTX_TDS18TRK	Read/Write on 18-track device
1	DECIMAL	2	SIOTX_TDS36TRK	Read/Write on 36-track device
1	DECIMAL	3	SIOTX_TDS128TRK	Read/Write on 128-track device
1	DECIMAL	4	SIOTX_TDS256TRK	Read/Write on 256-track device
1	DECIMAL	5	SIOTX_TDS384TRK	Read/Write on 384-track device
1	DECIMAL	6	SIOTX_TDSEFMT1	Read/Write on Enterprise Format 1 device
1	DECIMAL	7	SIOTX_TDSEFMT2	Read/Write on Enterprise Format 2 device
1	DECIMAL	8	SIOTX_TDSEEFMT2	Read/Write on Enterprise Encryption Format 2 device

Table 427. Constants for IEFISIOTX (continued)

Len	Type	Value	Name	Description
1	DECIMAL	9	SIOTX_TDSEFMT3	Read/Write on Enterprise Format 3 device
1	DECIMAL	10	SIOTX_TDSEEFMT3	Read/Write on Enterprise Encryption Format 3 device
1	DECIMAL	11	SIOTX_TDSEFMT4	Read/Write on Enterprise Format 4 device
1	DECIMAL	12	SIOTX_TDSEEFMT4	Read/Write on Enterprise Encryption Format 4 device
CONSTANTS TO DEFINE MEDIA TYPE (SIOTX_TDSMEDIA)				
1	DECIMAL	0	SIOTX_TDSNOMED	Media Type unknown or unspecified
1	DECIMAL	1	SIOTX_TDSMED1	Media1 - Cartridge System Tape
1	DECIMAL	2	SIOTX_TDSMED2	Media2 - Enhanced Capacity Cartridge System Tape
1	DECIMAL	3	SIOTX_TDSMED3	Media3 - High Performance Cartridge Tape
1	DECIMAL	4	SIOTX_TDSMED4	Media4 - Extended High Performance Cartridge Tape
1	DECIMAL	5	SIOTX_TDSMED5	Media5 - Enterprise Cartridge Tape
1	DECIMAL	6	SIOTX_TDSMED6	Media6 - Enterprise WORM Cartridge Tape
1	DECIMAL	7	SIOTX_TDSMED7	Media7 - Enterprise Economy Cartridge Tape
1	DECIMAL	8	SIOTX_TDSMED8	Media8 - Enterprise Economy WORM Cartridge Tape
1	DECIMAL	9	SIOTX_TDSMED9	Media9 - Enterprise Extended Cartridge Tape
1	DECIMAL	10	SIOTX_TDSMED10	Media10 - Enterprise Extended WORM Cartridge Tape
1	DECIMAL	11	SIOTX_TDSMED11	Media11- Enterprise Advanced Cartridge Tape
1	DECIMAL	12	SIOTX_TDSMED12	Media12- Enterprise Advanced WORM Cartridge Tape
1	DECIMAL	13	SIOTX_TDSMED13	Media13- Enterprise Advanced Economy Cartridge Tape
CONSTANTS TO DEFINE COMPACTION (SIOTX_TDSCOMP) (The meaning of the compaction field has changed from type of compaction to compaction yes/no. TDSIDRC and TDSCOMPT can be used interchangeably.)				
1	DECIMAL	0	SIOTX_TDSCMPNS	Compaction unknown or not set
1	DECIMAL	1	SIOTX_TDSNOCMP	No Compaction
1	DECIMAL	2	SIOTX_TDSCOMPT	Compaction
CONSTANTS TO DEFINE SPECIAL ATTRIBUTE (SIOTX_TDSSPEC)				
1	DECIMAL	0	SIOTX_TDSNOSPC	Volume has no special attributes
1	DECIMAL	1	SIOTX_TDSRDCOM	Volume will be mounted for read only - All read-compatible devices may be selected

Table 428. Cross Reference for IEFISIOTX

Name	Offset	Hex Tag
INXMSIOX	0	

IEFSIOTX mapping

Table 428. Cross Reference for IEFISIOTX (continued)

Name	Offset	Hex Tag
SIOTX	0	
SIOTX_#VOLSINCON	1C	
SIOTX_ALLOCATIONTIME	48	
SIOTX_BLKSZLIM	B8	
SIOTX_BLOCKSIZE	B0	
SIOTX_COPY_INPUTSW	42	
SIOTX_COPY_S99FLAG1	42	
SIOTX_COPY_S99FLAG2	44	
SIOTX_DASD_MIGRATED_TO_TAPE	54	80
SIOTX_DEVN	14	
SIOTX_DEVTYPE	C8	
SIOTX_DEVTYPE_SET	54	10
SIOTX_DEVTYPEAFTERCONV	38	
SIOTX_DEVTYPEAFTERLOCATE	30	
SIOTX_DIAGNOSTICFLAGS	40	
SIOTX_DIAGNOSTICS	20	
SIOTX_EAVEXCLUDECOUNT	50	
SIOTX_EDL_FOR_DASD_CATLGD_DS	54	40
SIOTX_IEFTAPE_PTR	58	
SIOTX_IEFTAPE_SVA	5D	
SIOTX_INPUTSWCOPIED	40	40
SIOTX_JFCB	B0	
SIOTX_MASK_BYTE1	C0	
SIOTX_MASK_BYTE2	C1	
SIOTX_MASK_BYTE3	C2	
SIOTX_MASK_BYTE4	C3	
SIOTX_MASK_WORD1	C0	
SIOTX_MSKBSLM	C0	80
SIOTX_NO_DSTAB	54	08
SIOTX_SIOT	0	
SIOTX_SIOT_FLAGS	54	
SIOTX_SIOTCVTDAFTERCONV	40	80
SIOTX_TDSCOMP	C6	
SIOTX_TDSI	C4	
SIOTX_TDSMEDIA	C5	
SIOTX_TDSREC	C4	
SIOTX_TDSSPEC	C7	
SIOTX_TMPDSN_JFCBDSN_UPDATED	54	20
SIOTX_UNAFF_PTR	10	
SIOTX_UNAFF_SVA	9	
SIOTX_UNAFF_SVA_WORD	8	
SIOTX_UNAFF_TOKEN	8	
SIOTX_UNITNAMEAFTERCONV	38	
SIOTX_UNITNAMEAFTERDB401	28	
SIOTX_UNITNAMEAFTERLOCATE	30	
SIOTX_UNITNAMEONINPUT	20	
SIOTX_VOLSINCON_PTR	18	

Chapter 93. IEFSJDKY Information

IEFSJDKY Programming Interface Information

IEFSJDKY is a programming interface.

INCLUDE ONLY

IEFSJDKY Heading Information

Common Name: Scheduler JCL Facility (SJF) / Dynamic Allocation keys
 Macro ID: IEFSJDKY
 DSECT Name: None
 Owing Component: Scheduler JCL Facility (BB131)
 Eye-Catcher ID: None
 Storage Attributes: Subpool: N/A
 Key: N/A
 Residency: N/A
 Size: N/A
 FREQUENCY = N/A
 Created by: N/A
 Pointed to by: N/A
 Serialization: None
 Function: This macro provides the constants for JDT defined keywords needed by the caller of Dynamic Allocation.

IEFSJDKY mapping

Table 429. Structure

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		
		SJF DD ALLOCATION KEYS			
0	(0)	BITSTRING	0	SJKYCNTL	"X'8003'" CNTL
0	(0)	BITSTRING	0	SJKYSTCL	"X'8004'" STORCLAS
0	(0)	BITSTRING	0	SJKYMGCL	"X'8005'" MGMTCLAS
0	(0)	BITSTRING	0	SJKYDACL	"X'8006'" DATACLAS
0	(0)	BITSTRING	0	SJKYRECO	"X'800B'" RECORG
Values for RECORG keyword					
		1... ..		SJVLROKS	"X'80'" KS - Key sequence
		.1.. ..		SJVLROES	"X'40'" ES - Entry sequence
		..1.		SJVLRRORR	"X'20'" RR - Relative record
		...1		SJVLROLS	"X'10'" LS - Linear space
0	(0)	BITSTRING	0	SJKYKEYO	"X'800C'" KEYOFF
0	(0)	BITSTRING	0	SJKYREFD	"X'800D'" REFDD
0	(0)	BITSTRING	0	SJKYSECM	"X'800E'" SECMODEL
Value for GENERIC option of SECMODEL (parameter #2)					
		1... ..		SJVLGENR	"X'80'" Generic option

IEFSJDKY mapping

Table 429. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	BITSTRING	0	SJKYLIKE	"X'800F'" LIKE
0	(0)	BITSTRING	0	SJKYAVGR	"X'8010'" AVGREC
Values for AVGREC keyword					
		1... ..		SJVLARUN	"X'80'" U - units (ie times 1)
		.1.. ..		SJVLARKI	"X'40'" K - kilo (ie times 1000)
		..1.		SJVLARME	"X'20'" M - Mega (ie times 1 million)
0	(0)	BITSTRING	0	SJKYDSNT	"X'8012'" DSNTYPE
Values for DSNTYPE keyword					
		1... ..		SJVLDTLI	"X'80'" LIBRARY
		.1.. ..		SJVLDPD	"X'40'" PDS
		..1.		SJVLPIPE	"X'20'" PIPE
		...1		SJVLHFSI	"X'10'" HFS
		.... 1...		SJVLEXR	"X'08'" EXTREQ
		.... .1..		SJVLEXP	"X'04'" EXTPREF
		.... ..1.		SJVLBASC	"X'02'" BASIC
		.... ...1		SJVLARG	"X'01'" LARGE
0	(0)	BITSTRING	0	SJKYSPIN	"X'8013'" SPIN
Values for SPIN keyword					
		1... ..		SJVLSPUN	"X'80'" UNALLOC
		.1.. ..		SJVLSPNO	"X'40'" NO
0	(0)	BITSTRING	0	SJKYSEGM	"X'8014'" SEGMENT
0	(0)	BITSTRING	0	SJKYPATH	"X'8017'" PATH
0	(0)	BITSTRING	0	SJKYPOPT	"X'8018'" PATHOPTS
Values for PATHOPTS keyword					
0	(0)	BITSTRING	0	SJVLSYNC	"X'00000100'" OSYNC
		11..		SJVLCEXL	"X'000000C0'" OCREXCL
		1... ..		SJVLCREA	"X'00000080'" OCREAT
		.1.. ..		SJVLEXCL	"X'00000040'" OEXCL
		..1.		SJVLNOCT	"X'00000020'" ONOCTTY
		...1		SJVLTRUN	"X'00000010'" OTRUNC
		.... 1...		SJVLAPPE	"X'00000008'" OAPPEND
		.... .1..		SJVLNBLK	"X'00000004'" ONONBLOCK
		.... ..11		SJVLRDWR	"X'00000003'" ORDWR
		.... ..1.		SJVLRDON	"X'00000002'" ORDONLY
		.... ...1		SJVLWDON	"X'00000001'" OWRONLY
0	(0)	BITSTRING	0	SJKYPMDE	"X'8019'" PATHMODE
Values for PATHMODE keyword					
0	(0)	BITSTRING	0	SJVLSUID	"X'00000800'" SISUID
0	(0)	BITSTRING	0	SJVLSGID	"X'00000400'" SISGID
0	(0)	BITSTRING	0	SJVLRSR	"X'00000100'" SIRUSR
		1... ..		SJVLWUSR	"X'00000080'" SIWUSR
		.1.. ..		SJVLXUSR	"X'00000040'" SIXUSR
0	(0)	BITSTRING	0	SJVLRWXU	"X'000001C0'" SIRWXU
		..1.		SJVLGRP	"X'00000020'" SIRGRP
		...1		SJVLWGRP	"X'00000010'" SIWGRP
		.... 1...		SJVLXGRP	"X'00000008'" SIXGRP
		..11 1...		SJVLWXG	"X'00000038'" SIRWXG

Table 429. Structure (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
		....	.1..		SJVLROTH	"X'00000004'" SIROTH
		....	.1.		SJVLWOTH	"X'00000002'" SIWOTH
		....	...1		SJVLXOTH	"X'00000001'" SIXOTH
		....	.111		SJVLRWXO	"X'00000007'" SIRWXO
0	(0)	BITSTRING		0	SJKYPNDS	"X'801A'" PATHDISP - Normal Disposition
0	(0)	BITSTRING		0	SJKYPCDS	"X'801B'" PATHDISP - Conditional Disposition
Values for PATHDISP keyword						
		....	1...		SJVLKEEP	"X'08'" KEEP
		....	.1..		SJVLDELE	"X'04'" DELETE
0	(0)	BITSTRING		0	SJKYRLS	"X'801C'" RLS - Record Level Sharing
Values for RLS keyword						
		1...	....		SJVLNRI	"X'80'" NRI
		.1..	....		SJVLCCR	"X'40'" CR
		.1.	....		SJVLCRE	"X'20'" CRE
0	(0)	BITSTRING		0	SJKYFDAT	"X'801D'" FILEDATA - file organization
Values for FILEDATA keyword						
		1...	....		SJVLBIN	"X'80'" BINARY
		.1..	....		SJVLTEXT	"X'40'" TEXT
		.1.	....		SJVLREC	"X'20'" RECORD
0	(0)	BITSTRING		0	SJKYLGST	"X'801F'" LGSTREAM
0	(0)	BITSTRING		0	SJKYDCCS	"X'8020'" CCSID
0	(0)	BITSTRING		0	SJKYBSLM	"X'8022'" BLKSZLIM
0	(0)	BITSTRING		0	SJKYKYL1	"X'8023'" KEYLABL1
0	(0)	BITSTRING		0	SJKYKYL2	"X'8024'" KEYLABL2
0	(0)	BITSTRING		0	SJKYKYC1	"X'8025'" KEYEND1
Values for KEYEND1 keyword						
		11.1	..11		SJVLKE1L	"X'D3'" L - Label encoding
		11..	1...		SJVLKE1H	"X'C8'" H - Hash encoding
0	(0)	BITSTRING		0	SJKYKYC2	"X'8026'" KEYEND2
Values for KEYEND2 keyword						
		11.1	..11		SJVLKE2L	"X'D3'" L - Label encoding
		11..	1...		SJVLKE2H	"X'C8'" H - Hash encoding
0	(0)	BITSTRING		0	SJKYEATT	"X'8028'" EATTR
Values for EATTR keyword						
		....	...1		SJVLEATN	"X'01'" 0000 0001b - NO
		....	...1.		SJVLEATO	"X'02'" 0000 0010b - OPT
0	(0)	BITSTRING		0	SJKYFRVL	"X'8029'" FREEVOL
Values for FREEVOL keyword						
		....	...1		SJVLFRVE	"X'01'" 0000 0001b - END
		....	...1.		SJVLFRVV	"X'02'" 0000 0010b - EOV
0	(0)	BITSTRING		0	SJKYSPI2	"X'802A'" SPIN second parm, SPIN INTERVAL
0	(0)	BITSTRING		0	SJKYSYML	"X'802B'" SYMLIST ON DD

IEFSJDKY mapping

Table 429. Structure (continued)

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
0	(0)	BITSTRING	0	SJKYDSNV	"X'802C'" DSNTYPE version
0	(0)	BITSTRING	0	SJKYMAXG	"X'802D'" MAXGENS
0	(0)	BITSTRING	0	SJKYGDGO	"X'802E'" GDGORDER - GDG-all concatenation order
Values for GDGORDER keyword					
		1... ..		SJVLGDGC	"X'80'" USECATLG
		.1... ..		SJVLGDGL	"X'40'" LIFO
		..1.		SJVLGDGF	"X'20'" FIFO

Table 430. Cross Reference for IEFSJDKY

Name	Offset	Hex Tag
SJKYAVGR	0	8010
SJKYBSLM	0	8022
SJKYCNTL	0	8003
SJKYDACL	0	8006
SJKYDCCS	0	8020
SJKYDSNT	0	8012
SJKYDSNV	0	802C
SJKYEATT	0	8028
SJKYFDAT	0	801D
SJKYFRVL	0	8029
SJKYGDGO	0	802E
SJKYKEY0	0	800C
SJKYKYC1	0	8025
SJKYKYC2	0	8026
SJKYKYL1	0	8023
SJKYKYL2	0	8024
SJKYLGST	0	801F
SJKYLIKE	0	800F
SJKYMAXG	0	802D
SJKYMGCL	0	8005
SJKYPATH	0	8017
SJKYPCDS	0	801B
SJKYPMDE	0	8019
SJKYPNDS	0	801A
SJKYPOPT	0	8018
SJKYRECO	0	800B
SJKYREFD	0	800D
SJKYRLS	0	801C
SJKYSECM	0	800E
SJKYSEGM	0	8014
SJKYSPIN	0	8013
SJKYSPI2	0	802A
SJKYSTCL	0	8004
SJKYSYML	0	802B
SJVLAPPE	0	8
SJVLARKI	0	40

Table 430. Cross Reference for IEFSJDKY (continued)

Name	Offset	Hex Tag
SJVLARME	0	20
SJVLARUN	0	80
SJVLBASC	0	2
SJVLBIN	0	80
SJVLCEXL	0	C0
SJVLCCR	0	40
SJVLCRE	0	20
SJVLCREA	0	80
SJVLDELE	0	4
SJVLDTLI	0	80
SJVLDTPD	0	40
SJVLEATN	0	1
SJVLEATO	0	2
SJVLEXCL	0	40
SJVLEXP	0	4
SJVLEXR	0	8
SJVLFRVE	0	1
SJVLFRVV	0	2
SJVLGDGC	0	80
SJVLGDGF	0	20
SJVLGDGL	0	40
SJVLGENR	0	80
SJVLHFSI	0	10
SJVLKEEP	0	8
SJVLKE1H	0	C8
SJVLKE1L	0	D3
SJVLKE2H	0	C8
SJVLKE2L	0	D3
SJVLLARG	0	1
SJVLNBLK	0	4
SJVLNOCT	0	20
SJVLNRI	0	80
SJVLPIPE	0	20
SJVLRDON	0	2
SJVLRDWR	0	3
SJVLREC	0	20
SJVLGRP	0	20
SJVLROES	0	40
SJVLROKS	0	80
SJVLROLS	0	10
SJVLRORR	0	20
SJVLROTH	0	4
SJVLRUSR	0	100
SJVLRWXG	0	38
SJVLRWXO	0	7
SJVLRWXU	0	100
SJVLSGID	0	400
SJVLSPNO	0	40
SJVLSPUN	0	80

IEFSJDKY mapping

Table 430. Cross Reference for IEFSJDKY (continued)

Name	Offset	Hex Tag
SJVLSUID	0	800
SJVLSYNC	0	100
SJVLTEXT	0	40
SJVLTRUN	0	10
SJVLWDON	0	1
SJVLWGRP	0	10
SJVLWOTH	0	2
SJVLWUSR	0	80
SJVLXGRP	0	8
SJVLXOTH	0	1
SJVLXUSR	0	40

Chapter 94. IEFSJOKY Information

IEFSJOKY Programming Interface Information

IEFSJOKY is a programming interface.

IEFSJOKY Heading Information

Common Name: Scheduler JCL Facility (SJF) Output Descriptor Keys
Macro ID: IEFSJOKY
DSECT Name: None
Owning Component: SJF (BB131)
Eye-Catcher ID: None
Storage Attributes: Subpool: N/A
Key: N/A
Residency: N/A
Size: N/A
FREQUENCY = N/A
Created by: N/A
Pointed to by: N/A
Serialization: N/A
Function: This macro provides the constants for JDT defined keywords needed by users of Output Descriptor SWB chains. Macro IEFDOKEY is invoked so the keys defined in dynamic output are not repeated here.

IEFSJOKY mapping

Table 431. Structure

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

IEFSJOKY mapping

Table 431. Structure (continued)

Offset	Offset		Len	Name(Dim)	Description
Dec	Hex	Type			
					START OF SPECIFICATIONS
					MACRO NAME = IEFJSJOKY
					DESCRIPTIVE NAME = Scheduler JCL Facility (SJF)
					Output Descriptor Keys
01		PROPRIETARY STATEMENT=			
		PROPRIETARY_STATEMENT			
		LICENSED MATERIALS - PROPERTY OF IBM			
		5650-ZOS COPYRIGHT IBM CORP. 1988, 2015			
		STATUS = HBB77A0			
		END_OF_PROPRIETARY_STATEMENT			
		FUNCTION = This macro provides the constants for JDT defined			
		keywords needed by users of Output Descriptor			
		SWB chains. Macro IEFDOKEY is invoked so the			
		keys defined in dynamic output are not repeated			
		here.			
01		EXTERNAL CLASSIFICATION: PI			
01		END OF EXTERNAL CLASSIFICATION:			
		NOTES =			
		Bilingual Mapping Macro (PL/AS and BAL)			
		The information in this mapping macro represents the			
		key definitions defined in the JDTs for an Output			
		Descriptor. Any updates to the JDTs which define the			
		Output Descriptors should be reflected in this macro			
		or in IEFDOKEY.			
		DEPENDENCIES = None			
		RESTRICTIONS = None			
		METHOD OF ACCESS =			
		PL/X VERSION =			
		%INCLUDE SYSLIB(IEFSJOKY)			
		PARAMETER DESCRIPTION = N/A			
		PARAMETER INTERDEPENDENCIES = None			
		BAL VERSION =			
		name name: symbol. Begin name in column 1.			
		b one or more blanks (up to nine)			
		IEFSJOKY should start in column 10			
		b one or more blanks			
		PARAMETER DESCRIPTION = N/A			
		PARAMETER INTERDEPENDENCIES = None			
		DSECT NAME = None			
		COMPONENT = SJF (BB131)			
		EYE CATCHER = None			
		OFFSET = N/A			
		LENGTH = N/A			
		CREATED BY = N/A			
		POINTED TO BY = N/A			
		DELETED BY = N/A			
		SERIALIZATION = N/A			
		STORAGE ATTRIBUTES = N/A			
		ALLOCATION METHOD = N/A			
		SUBPOOL = N/A			
		KEY = N/A			
		RESIDENCY = N/A			
		SIZE = N/A			
		FREQUENCY = N/A			
		DISTRIBUTION LIBRARY = AMODGEN			
		CHANGE ACTIVITY = L0 L1			
		\$L0= EMVS2 HBB4410 890403 PDZ1: Enterprise II			

Table 431. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					\$L1= APPC1 HBB4420 890421 PDKK: APPC SJF Merge SWB
					\$01= OW21839 HBB4430 960808 PDAS: IP PrintWay
					\$P1= PUX0081 HBB6605 970403 PDDH: CDPI Compliance
					\$L2- JCLJECL HBB7790 121001 PD00: In support of Common JCL JES2 line item ? (LI3091) Feature: ME24771
					ME25796 HBB7790 130221 PD00: Fixed Copyright
					\$L3= ME28030 HBB77A0 140812 PDXB: IEFDOKEY for data areas
					END OF SPECIFICATIONS
					A - New macro defined as part of Enterprise II support.
					A - Added new MERGE Keyword
					A - Added new IPADDR Keyword
					C - Make CDPI compliant
					C - Added comment that SJOKMERC ('8003'x) key is also defined in IEFDOKEY as DOMERGE. This is because the MERGE keyword was changed from (IBM) internal only to external. Keeping the the key defined in both macros ensures no regression compile failures if SJOKMERC was removed from here.
					A - Added IEFDOKEY for data areas build %GOTO SJOKYDEF; Key Constants for Output Descriptors Not Allowed Through Dynamic Output
0	(0)	BITSTRING	0	SJOKSTNR	"X'8001'" JES3STNR
0	(0)	BITSTRING	0	SJOKMERC	"X'8003'" MERGE (also defined in IEFDOKEY)
0	(0)	BITSTRING	0	SJOKIPAD	"X'8005'" IPADDR
					Include keys needed by callers of SVC 109

IEFSJOKY mapping

Chapter 95. IEFZB4D2 Information

IEFZB4D2 Programming Interface Information

IEFZB4D2 is a programming interface.

IEFZB4D2 Heading Information

Common Name: Dynamic Allocation Key Definition Table
Macro ID: IEFZB4D2
DSECT Name: SVC99KYS
Owning Component: Allocation (SC1B4)
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: None
Function: This macro defines the Dynamic Allocation keys for each of the Dynamic Allocation functions. The keys are used in the text unit input to Dynamic Allocation. A key identifies the information being passed in a particular text unit. A key is two bytes in length. The names for the keys consist of:
- The character 'D' representing Dynamic Allocation.
- Characters representing the Dynamic Allocation function. The functions are represented by these characters:
- 'AL' for allocation,
- 'UN' for unallocation,
- 'CC' for concatenation,
- 'DC' for deconcatenation,
- 'RI' for remove in-use,
- 'DN' for ddname allocation,
- 'IN' for information retrieval input, and
- 'INR' for information retrieval output.
- Descriptive characters (up to five).

IEFZB4D2 mapping

Table 432. Structure SVC99KYS

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SVC99KYS	
KEYS FOR ALLOCATION FUNCTION					
Note: see the Dependencies section of the prolog when adding new keys to this section.					
	....	...1		DALDDNAM	"X'0001'" DDNAME
	....	..1.		DALDSNAM	"X'0002'" DSNAME
	....	..11		DALMEMBR	"X'0003'" MEMBER NAME

IEFZB4D2 mapping

Table 432. Structure SVC99KYS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		DALSTATS	"X'0004'" DATA SET STATUS
		.... .1.1		DALNDISP	"X'0005'" DATA SET NORMAL DISPOSITION
		.... .11.		DALCDISP	"X'0006'" DATA SET CONDITIONAL DISP
		.... .111		DALTRK	"X'0007'" TRACK SPACE TYPE
		.... 1...		DALCYL	"X'0008'" CYLINDER SPACE TYPE
		.... 1..1		DALBLKLN	"X'0009'" AVERAGE DATA BLOCK LENGTH
		.... 1.1.		DALPRIME	"X'000A'" PRIMARY SPACE QUANTITY
		.... 1.11		DALSECND	"X'000B'" SECONDARY SPACE QUANTITY
		.... 11..		DALDIR	"X'000C'" DIRECTORY SPACE QUANTITY
		.... 11.1		DALRLSE	"X'000D'" UNUSED SPACE RELEASE
		.... 111.		DALSPFRM	"X'000E'" CONTIG,MXIG,ALX SPACE FORMAT
		.... 1111		DALROUND	"X'000F'" WHOLE CYLINDER (ROUND) SPACE
		...1		DALVLSER	"X'0010'" VOLUME SERIAL
		...1 ...1		DALPRIVT	"X'0011'" PRIVATE VOLUME
		...1 ..1.		DALVSEQ	"X'0012'" VOL SEQUENCE NUMBER
		...1 ..11		DALVLCNT	"X'0013'" VOLUME COUNT
		...1 .1..		DALVLRDS	"X'0014'" VOLUME REFERENCE TO DSNAME
		...1 .1.1		DALUNIT	"X'0015'" UNIT DESCRIPTION
		...1 .11.		DALUNCNT	"X'0016'" UNIT COUNT
		...1 .111		DALPARAL	"X'0017'" PARALLEL MOUNT
		...1 1...		DALSYSOU	"X'0018'" SYSOUT
		...1 1..1		DALSPGNM	"X'0019'" SYSOUT PROGRAM NAME
		...1 1.1.		DALSFMNO	"X'001A'" SYSOUT FORM NUMBER
		...1 1.11		DALOUTLM	"X'001B'" OUTPUT LIMIT
		...1 11..		DALCLOSE	"X'001C'" UNALLOCATE AT CLOSE
		...1 11.1		DALCOPYS	"X'001D'" SYSOUT COPIES
		...1 111.		DALLABEL	"X'001E'" LABEL TYPE
		...1 1111		DALDSSEQ	"X'001F'" DATA SET SEQUENCE NUMBER
		..1.		DALPASPR	"X'0020'" PASSWORD PROTECTION
		..1. ...1		DALINOUT	"X'0021'" INPUT ONLY OR OUTPUT ONLY
		..1. ..1.		DALEXPDT	"X'0022'" 2 DIGIT YEAR EXPIRATION DATE
		..1. ..11		DALRETPD	"X'0023'" RETENTION PERIOD
		..1. .1..		DALDUMMY	"X'0024'" DUMMY ALLOCATION
		..1. .1.1		DALFCBIM	"X'0025'" FCB IMAGE-ID
		..1. .11.		DALFCBAV	"X'0026'" FCB FORM ALIGNMENT, IMAGE VERIFY
		..1. .111		DALQNAME	"X'0027'" QNAME ALLOCATION
		..1. 1...		DALTERM	"X'0028'" TERMINAL ALLOCATION
		..1. 1..1		DALUCS	"X'0029'" UNIVERSAL CHARACTER SET
		..1. 1.1.		DALUFOLD	"X'002A'" UCS FOLD MODE

Table 432. Structure SVC99KYS (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
		..1.	1.11		DALUVRFY	"X'002B'" UCS VERIFY CHARACTER SET
		..1.	11..		DALDCBDS	"X'002C'" DCB DSNAME REFERENCE
		..1.	11.1		DALDCBDD	"X'002D'" DCB DDNAME REFERENCE
		..1.	111.		DALBFALN	"X'002E'" BUFFER ALIGNMENT
		..1.	1111		DALBFTEK	"X'002F'" BUFFERING TECHNIQUE
		..11	....		DALBLKSZ	"X'0030'" BLOCKSIZE
		..11	...1		DALBUFIN	"X'0031'" NUMBER OF INPUT BUFFERS
		..11	..1.		DALBUFL	"X'0032'" BUFFER LENGTH
		..11	..11		DALBUFMX	"X'0033'" MAXIMUM NUMBER OF BUFFERS
		..11	.1..		DALBUFNO	"X'0034'" NUMBER OF DCB BUFFERS
		..11	.1.1		DALBUFOF	"X'0035'" BUFFER OFFSET
		..11	.11.		DALBUFOU	"X'0036'" NUMBER OF OUTPUT BUFFERS
		..11	.111		DALBUFRQ	"X'0037'" NUMBER OF GET MACRO BUFFERS
		..11	1...		DALBUFSZ	"X'0038'" LINE BUFFER SIZE
		..11	1..1		DALCODE	"X'0039'" PAPER TAPE CODE
		..11	1.1.		DALCPRI	"X'003A'" SEND/RECEIVE PRIORITY
		..11	1.11		DALDEN	"X'003B'" TAPE DENSITY
		..11	11..		DALDSORG	"X'003C'" DATA SET ORGANIZATION
		..11	11.1		DALEROPT	"X'003D'" ERROR OPTIONS
		..11	111.		DALGNCP	"X'003E'" NO. OF GAM I/O BEFORE WAIT
		..11	1111		DALINTVL	"X'003F'" POLLING INTERVAL
		.1..	....		DALKYLEN	"X'0040'" DATA SET KEYS LENGTH
		.1..	...1		DALLIMCT	"X'0041'" SEARCH LIMIT
		.1..	..1.		DALLRECL	"X'0042'" LOGICAL RECORD LENGTH
		.1..	..11		DALMODE	"X'0043'" CARD READER/PUNCH MODE
		.1..	.1..		DALNCP	"X'0044'" NO. READ/WRITE BEFORE CHECK
		.1..	.1.1		DALOPTCD	"X'0045'" OPTIONAL SERVICES
		.1..	.11.		DALPCIR	"X'0046'" RECEIVING PCI
		.1..	.111		DALPCIS	"X'0047'" SENDING PCI
		.1..	1...		DALPRTSP	"X'0048'" PRINTER LINE SPACING
		.1..	1..1		DALRECFM	"X'0049'" RECORD FORMAT
		.1..	1.1.		DALRSRVF	"X'004A'" FIRST BUFFER RESERVE
		.1..	1.11		DALRSRVS	"X'004B'" SECONDARY BUFFER RESERVE
		.1..	11..		DALSOWA	"X'004C'" TCAM USER WORK AREA SIZE
		.1..	11.1		DALSTACK	"X'004D'" STACKER BIN
		.1..	111.		DALTHRS	"X'004E'" MESSAGE QUEUE PERCENTAGE
		.1..	1111		DALTRTCH	"X'004F'" TAPE RECORDING TECHNOLOGY
		.1.1	....		DALPASSW	"X'0050'" PASSWORD
		.1.1	...1		DALIPLTX	"X'0051'" IPL TEXT ID
		.1.1	..1.		DALPERMA	"X'0052'" PERMANENTLY ALLOCATED ATTRIB
		.1.1	..11		DALCNVRT	"X'0053'" CONVERTIBLE ATTRIBUTE

IEFZB4D2 mapping

Table 432. Structure SVC99KYS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1.1 .1..		DALDIAGN	"X'0054'" OPEN/CLOSE/EOV DIAGNOSTIC TRACE
		.1.1 .1.1		DALRTDDN	"X'0055'" RETURN DDNAME
		.1.1 .11.		DALRTDSN	"X'0056'" RETURN DSNAME
		.1.1 .111		DALRTORG	"X'0057'" RETURN D.S. ORGANIZATION
		.1.1 1...		DALSUSER	"X'0058'" SYSOUT REMOTE USER
		.1.1 1..1		DALSHOLD	"X'0059'" SYSOUT HOLD QUEUE
		.1.1 1.1.		DALFUNC	"X'005A'" D.S. TYPE FOR 3525 CARD DEVICE
		.1.1 1.11		DALFRID	"X'005B'" IMAGELIB MEMBER FOR SHARK
		.1.1 11..		DALSSREQ	"X'005C'" SUBSYSTEM REQUEST
		.1.1 11.1		DALRTVOL	"X'005D'" RETURN VOLUME SERIAL
		.1.1 111.		DALMSVGP	"X'005E'" MSVGP FOR 3330V
		.1.1 1111		DALSSNM	"X'005F'" SUBSYSTEM NAME REQUEST
		.11.		DALSSPRM	"X'0060'" SUBSYSTEM PARAMETERS
		.11. ...1		DALPROT	"X'0061'" RACF PROTECT FEATURE
		.11. ..1.		DALSSATT	"X'0062'" SUBSYSTEM ATTRIBUTE
		.11. ..11		DALUSRID	"X'0063'" SYSOUT USER ID
		.11. .1..		DALBURST	"X'0064'" BURSTER-TRIMMER- STACKER
		.11. .1.1		DALCHARS	"X'0065'" CHAR ARRANGEMENT TABLE
		.11. .11.		DALCOPYG	"X'0066'" COPY GROUP VALUES
		.11. .111		DALFFORM	"X'0067'" FLASH FORMS OVERLAY
		.11. 1...		DALFCNT	"X'0068'" FLASH FORMS OVERLAY COUNT
		.11. 1..1		DALMMOD	"X'0069'" COPY MODIFICATION MODULE
		.11. 1.1.		DALMTRC	"X'006A'" TABLE REFERENCE CHARACTER
		.11. 1.11		DALLRECK	"X'006B'" LRECL IN MULT OF 1K FORMAT
		.11. 11..		DALDEFER	"X'006C'" DEFER MOUNT UNTIL OPEN
		.11. 11.1		DALEXPDL	"X'006D'" 4 DIGIT YEAR EXP. DATE
		.11. 111.		DALBRTKN	"X'006E'" Browse token supplied
		.11. 1111		DALINCHG	"X'006F'" Volume Interchange Attributes
		.111		DALOVAFF	"X'0070'" Tell JES to override system affinity for INTRDR
		.111 ...1		DALRTCTK	"X'0071'" Return Allocation Sysout Client Token
		.111 ..1.		DALKILO	"X'0072'" BLKSIZE OF KILOBYTE
		.111 ..11		DALMEG	"X'0073'" BLKSIZE OF MEGABYTE
		.111 .1..		DALGIG	"X'0074'" BLKSIZE OF GIGABYTE
		.111 .1.1		DALUASSR	"X'0075'" Unauthorized subsystem request
		.111 .11.		DALSMSHR	"X'0076'" unitname to be honored on an SMS tape library request
		.111 .111		DALUNQDS	"X'0077'" Uniquely allocated temporary data set
		.111 1...		DALRQOPZ	"X'0078'" Request IEFOPZ processing

Table 432. Structure SVC99KYS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	BITSTRING	0	DALACODE	"X'8001'" ACCESSIBILITY CODE
0	(0)	BITSTRING	0	DALOUTPT	"X'8002'" OUTPUT REFERENCE
JDT defined Allocation keys SJF DD ALLOCATION KEYS					
0	(0)	BITSTRING	0	DALCNTL	"X'8003'" CNTL
0	(0)	BITSTRING	0	DALSTCL	"X'8004'" STORCLAS
0	(0)	BITSTRING	0	DALMGCL	"X'8005'" MGMTCLAS
0	(0)	BITSTRING	0	DALDACL	"X'8006'" DATACLAS
0	(0)	BITSTRING	0	DALRECO	"X'800B'" RECORG
0	(0)	BITSTRING	0	DALKEYO	"X'800C'" KEYOFF
0	(0)	BITSTRING	0	DALREFD	"X'800D'" REFDD
0	(0)	BITSTRING	0	DALSECM	"X'800E'" SECMODEL
0	(0)	BITSTRING	0	DALLIKE	"X'800F'" LIKE
0	(0)	BITSTRING	0	DALAVGR	"X'8010'" AVGREC
0	(0)	BITSTRING	0	DALDSNT	"X'8012'" DSNTYPE
0	(0)	BITSTRING	0	DALSPIN	"X'8013'" SPIN
0	(0)	BITSTRING	0	DALSEGM	"X'8014'" SEGMENT
0	(0)	BITSTRING	0	DALPATH	"X'8017'" PATH
0	(0)	BITSTRING	0	DALPOPT	"X'8018'" PATHOPTS
0	(0)	BITSTRING	0	DALPMDE	"X'8019'" PATHMODE
0	(0)	BITSTRING	0	DALPNDS	"X'801A'" PATHDISP - Normal Disposition
0	(0)	BITSTRING	0	DALPCDS	"X'801B'" PATHDISP - Conditional Disposition
0	(0)	BITSTRING	0	DALRLS	"X'801C'" RLS - Record Level Sharing
0	(0)	BITSTRING	0	DALFDAT	"X'801D'" FILEDATA - file organization
0	(0)	BITSTRING	0	DALLGST	"X'801F'" LGSTREAM
0	(0)	BITSTRING	0	DALDCCS	"X'8020'" CCSID
0	(0)	BITSTRING	0	DALBSLM	"X'8022'" BLKSZLIM
0	(0)	BITSTRING	0	DALKYL1	"X'8023'" KEYLABL1
0	(0)	BITSTRING	0	DALKYL2	"X'8024'" KEYLABL2
0	(0)	BITSTRING	0	DALKYC1	"X'8025'" KEYENCD1
0	(0)	BITSTRING	0	DALKYC2	"X'8026'" KEYENCD2
0	(0)	BITSTRING	0	DALEATT	"X'8028'" EATTR
0	(0)	BITSTRING	0	DALFRVL	"X'8029'" FREEVOL
0	(0)	BITSTRING	0	DALSPI2	"X'802A'" SPIN second parm, SPIN INTERVAL
0	(0)	BITSTRING	0	DALSYML	"X'802B'" SYMLIST ON DD
0	(0)	BITSTRING	0	DALDSNV	"X'802C'" DSNTYPE version
0	(0)	BITSTRING	0	DALMAXG	"X'802D'" MAXGENS
0	(0)	BITSTRING	0	DALGDGO	"X'802E'" GDGORDER - GDG-all concatenation order
KEYS FOR CONCATENATION FUNCTION					
		.... ...1		DCCDDNAM	"X'0001'" DDNAMES
		.... .1..		DCCPERMC	"X'0004'" PERMANENTLY CONCATENATED
KEYS FOR DECONCATENATION FUNCTION					
		.... ...1		DCCDDNAM	"X'0001'" DDNAME

IEFZB4D2 mapping

Table 432. Structure SVC99KYS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
KEYS FOR INFORMATION RETRIEVAL FUNCTION					
Note: see the Dependencies section of the prolog when adding new keys to this section.					
1		DINDDNAM	"X'0001'" DDNAME
1.		DINDSNAM	"X'0002'" DSNAME
1..		DINRTDDN	"X'0004'" RETURN DDNAME
1.1		DINRTDSN	"X'0005'" RETURN DSNAME
11.		DINRTMEM	"X'0006'" RETURN MEMBER NAME
111		DINRTSTA	"X'0007'" RETURN DATA SET STATUS
	1...		DINRTNDP	"X'0008'" RETURN NORMAL DISPOSITION
	1..1		DINRTCDP	"X'0009'" RETURN CONDITIONAL DISP
	1.1.		DINRTORG	"X'000A'" RETURN D.S. ORGANIZATION
	1.11		DINRTLIM	"X'000B'" RETURN # TO NOT-IN-USE LIMIT
	11..		DINRTATT	"X'000C'" RETURN DYN. ALLOC ATTRIBUTES
	11.1		DINRTLST	"X'000D'" RETURN LAST ENTRY INDICATION
	111.		DINRTTYP	"X'000E'" RETURN S.D. TYPE INDICATION
	1111		DINRELNO	"X'000F'" RELATIVE REQUEST NUMBER
	...1	....		DINRTVOL	"X'0010'" Return First Volser
	...1	...1		DINRTDDX	"X'0011'" Return DDname extended
	...1	...1.		DINRLPOS	"X'0012'" Return Relative Position

JDT defined Information Retrieval output keys
SJF DD INFORMATION RETRIEVAL KEYS

0	(0)	BITSTRING	0	DINRCNTL	"X'C003'" CNTL
0	(0)	BITSTRING	0	DINRSTCL	"X'C004'" STORCLAS
0	(0)	BITSTRING	0	DINRMGCL	"X'C005'" MGMTCLAS
0	(0)	BITSTRING	0	DINRDACL	"X'C006'" DATACLAS
0	(0)	BITSTRING	0	DINRRECO	"X'C00B'" RECOG
0	(0)	BITSTRING	0	DINRKEYO	"X'C00C'" KEYOFF
0	(0)	BITSTRING	0	DINRREFD	"X'C00D'" REFDD
0	(0)	BITSTRING	0	DINRSECM	"X'C00E'" SECMODEL
0	(0)	BITSTRING	0	DINRLIKE	"X'C00F'" LIKE
0	(0)	BITSTRING	0	DINRAVGR	"X'C010'" AVGREC
0	(0)	BITSTRING	0	DINRDSNT	"X'C012'" DSNTYPE
0	(0)	BITSTRING	0	DINRSPIN	"X'C013'" SPIN
0	(0)	BITSTRING	0	DINRSEGM	"X'C014'" SEGMENT
0	(0)	BITSTRING	0	DINRPATH	"X'C017'" PATH
0	(0)	BITSTRING	0	DINRPOPT	"X'C018'" PATHOPTS
0	(0)	BITSTRING	0	DINRPMDE	"X'C019'" PATHMODE
0	(0)	BITSTRING	0	DINRPNDS	"X'C01A'" NORMAL PATHDISP
0	(0)	BITSTRING	0	DINRCNDS	"X'C01B'" CONDITIONAL PATHDISP
0	(0)	BITSTRING	0	DINRPCDS	"X'C01B'" CONDITIONAL PATHDISP
0	(0)	BITSTRING	0	DINRFDAT	"X'C01D'" FILEDATA
0	(0)	BITSTRING	0	DINRSP12	"X'C02A'" SPIN interval

Table 432. Structure SVC99KYS (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
0	(0)	BITSTRING		0	DINRSYML	"X'C02B'" SYMLIST
0	(0)	BITSTRING		0	DINRDSNV	"X'C02C'" DSNTYPE version
0	(0)	BITSTRING		0	DINRMAXG	"X'C02D'" MAXGENS
0	(0)	BITSTRING		0	DINRGDGO	"X'C02E'" GDGORDER
JDT defined Information Retrieval input keys SJF DD INFORMATION RETRIEVAL INPUT KEYS						
0	(0)	BITSTRING		0	DINPATH	"X'8017'" PATH
KEYS FOR REMOVE IN-USE FUNCTION						
		....	...1		DRITCBAD	"X'0001'" TCB ADDRESS
		....	...1.		DRICURNT	"X'0002'" CURRENT TASK OPTION
KEYS FOR DDNAME ALLOCATION FUNCTION						
		....	...1		DDNDDNAM	"X'0001'" DDNAME
		....	...1.		DDNRTDUM	"X'0002'" RETURN DUMMY D.S. INDICATION
KEYS FOR UNALLOCATION FUNCTION						
Note: see the Dependencies section of the prolog when adding new keys to this section.						
		....	...1		DUNDDNAM	"X'0001'" DDNAME
		....	...1.		DUNDSNAM	"X'0002'" DSNAME
		....	...11		DUNMEMBR	"X'0003'" MEMBER NAME
		....	...1.1		DUNOVDSP	"X'0005'" OVERRIDING DISPOSITION
		....	...111		DUNUNALC	"X'0007'" UNALLOC OPTION
		....	...1...		DUNREMOV	"X'0008'" REMOVE OPTION
		....	...1.1.		DUNOVSNH	"X'000A'" OVERRIDING SYSOUT NOHOLD
		...1	...1...		DUNOVCLS	"X'0018'" OVERRIDING SYSOUT CLASS
		...1.1	...1...		DUNOVSSUS	"X'0058'" OVERRIDING SYSOUT NODE
		...1.1	...1.1		DUNOVSHQ	"X'0059'" OVERRIDING SYSOUT HOLD QUEUE
		...11.	...11		DUNOVUID	"X'0063'" Overriding SYSOUT User ID
JDT defined Unallocation keys SJF DD UNALLOCATION KEYS						
0	(0)	BITSTRING		0	DUNSPIN	"X'8013'" SPIN
0	(0)	BITSTRING		0	DUNPATH	"X'8017'" PATH
0	(0)	BITSTRING		0	DUNOVPSD	"X'801A'" PATHDISP - Override Disposition
0	(0)	BITSTRING		0	DUNSPI2	"X'802A'" SPIN

Table 433. Cross Reference for IEFZB4D2

Name	Offset	Hex Tag
DALACODE	0	8001
DALAVGR	0	8010
DALBFALN	0	2E
DALBFTEK	0	2F
DALBLKLN	0	9
DALBLKSZ	0	30

IEFZB4D2 mapping

Table 433. Cross Reference for IEFZB4D2 (continued)

Name	Offset	Hex Tag
DALBRTKN	0	6E
DALBSLM	0	8022
DALBUFIN	0	31
DALBUFL	0	32
DALBUFMX	0	33
DALBUFNO	0	34
DALBUFOF	0	35
DALBUFOU	0	36
DALBUFRQ	0	37
DALBUFSZ	0	38
DALBURST	0	64
DALCDISP	0	6
DALCHARS	0	65
DALCLOSE	0	1C
DALCNTL	0	8003
DALCNVRT	0	53
DALCODE	0	39
DALCOPYG	0	66
DALCOPYS	0	1D
DALCPRI	0	3A
DALCYL	0	8
DALDACL	0	8006
DALDCBDD	0	2D
DALDCBDS	0	2C
DALDCCS	0	8020
DALDDNAM	0	1
DALDEFER	0	6C
DALDEN	0	3B
DALDIAGN	0	54
DALDIR	0	C
DALDSNAM	0	2
DALDSNT	0	8012
DALDSNV	0	802C
DALDSORG	0	3C
DALDSSEQ	0	1F
DALDUMMY	0	24
DALEATT	0	8028
DALEROPT	0	3D
DALEXPDL	0	6D
DALEXPDT	0	22
DALFCBAV	0	26
DALFCBIM	0	25
DALFCNT	0	68
DALFDAT	0	801D
DALFFORM	0	67
DALFRID	0	5B
DALFRVL	0	8029
DALFUNC	0	5A
DALGDGO	0	802E

Table 433. Cross Reference for IEFZB4D2 (continued)

Name	Offset	Hex Tag
DALGIG	0	74
DALGNCP	0	3E
DALINCHG	0	6F
DALINOUT	0	21
DALINTVL	0	3F
DALIPLTX	0	51
DALKEYO	0	800C
DALKILO	0	72
DALKYC1	0	8025
DALKYC2	0	8026
DALKYLEN	0	40
DALKYL1	0	8023
DALKYL2	0	8024
DALLABEL	0	1E
DALLGST	0	801F
DALLIKE	0	800F
DALLIMCT	0	41
DALLRECK	0	6B
DALLRECL	0	42
DALMAXG	0	802D
DALMEG	0	73
DALMEMBR	0	3
DALMGCL	0	8005
DALMMOD	0	69
DALMODE	0	43
DALMSVGP	0	5E
DALMTRC	0	6A
DALNCP	0	44
DALNDISP	0	5
DALOPTCD	0	45
DALOUTLM	0	1B
DALOUTPT	0	8002
DALOVAFF	0	70
DALPARAL	0	17
DALPASPR	0	20
DALPASSW	0	50
DALPATH	0	8017
DALPCDS	0	801B
DALPCIR	0	46
DALPCIS	0	47
DALPERMA	0	52
DALPMDE	0	8019
DALPNDS	0	801A
DALPOPT	0	8018
DALPRIME	0	A
DALPRIVT	0	11
DALPROT	0	61
DALPRTSP	0	48
DALQNAME	0	27

IEFZB4D2 mapping

Table 433. Cross Reference for IEFZB4D2 (continued)

Name	Offset	Hex Tag
DALRECFM	0	49
DALRECO	0	800B
DALREFD	0	800D
DALRETPD	0	23
DALRLS	0	801C
DALRLSE	0	D
DALROUND	0	F
DALRQOPZ	0	78
DALRSRVF	0	4A
DALRSRVS	0	4B
DALRTCTK	0	71
DALRTDDN	0	55
DALRTDSN	0	56
DALRTORG	0	57
DALRTVOL	0	5D
DALSECM	0	800E
DALSECND	0	B
DALSEGM	0	8014
DALSFMNO	0	1A
DALSHOLD	0	59
DALSMSHR	0	76
DALSOWA	0	4C
DALSPFRM	0	E
DALSPGNM	0	19
DALSPIN	0	8013
DALSPI2	0	802A
DALSSATT	0	62
DALSSNM	0	5F
DALSSPRM	0	60
DALSSREQ	0	5C
DALSTACK	0	4D
DALSTATS	0	4
DALSTCL	0	8004
DALSUSER	0	58
DALSYML	0	802B
DALYSOU	0	18
DALTERM	0	28
DALTHRSH	0	4E
DALTRK	0	7
DALTRTCH	0	4F
DALUASSR	0	75
DALUCS	0	29
DALUFOLD	0	2A
DALUNCNT	0	16
DALUNIT	0	15
DALUNQDS	0	77
DALUSRID	0	63
DALUVRFY	0	2B
DALVLCNT	0	13

Table 433. Cross Reference for IEFZB4D2 (continued)

Name	Offset	Hex Tag
DALVLRDS	0	14
DALVLSEQ	0	12
DALVLSER	0	10
DCCDDNAM	0	1
DCCPERMC	0	4
DDCDDNAM	0	1
DDNDDNAM	0	1
DDNRTDUM	0	2
DINDDNAM	0	1
DINDSNAM	0	2
DINPATH	0	8017
DINRAVGR	0	C010
DINRCNDS	0	C01B
DINRCNTL	0	C003
DINRDACL	0	C006
DINRDSNT	0	C012
DINRDSNV	0	C02C
DINRELNO	0	F
DINRFDAT	0	C01D
DINRGDGO	0	C02E
DINRKEYO	0	C00C
DINRLIKE	0	C00F
DINRLPOS	0	12
DINRMAXG	0	C02D
DINRMGCL	0	C005
DINRPATH	0	C017
DINRPCDS	0	C01B
DINRPMDE	0	C019
DINRPNDS	0	C01A
DINRPOPT	0	C018
DINRRECO	0	C00B
DINRREFD	0	C00D
DINRSECM	0	C00E
DINRSEGM	0	C014
DINRSPIN	0	C013
DINRSPI2	0	C02A
DINRSTCL	0	C004
DINRSYML	0	C02B
DINRTATT	0	C
DINRTCDP	0	9
DINRTDDN	0	4
DINRTDDX	0	11
DINRTDSN	0	5
DINRTLIM	0	B
DINRTLST	0	D
DINRTMEM	0	6
DINRTNDP	0	8
DINRTORG	0	A
DINRTSTA	0	7

IEFZB4D2 mapping

Table 433. Cross Reference for IEFZB4D2 (continued)

Name	Offset	Hex Tag
DINRTTYP	0	E
DINRTVOL	0	10
DRICURNT	0	2
DRITCBAD	0	1
DUNDDNAM	0	1
DUNDSNAM	0	2
DUNMEMBR	0	3
DUNOVCLS	0	18
DUNOVDSP	0	5
DUNOVPDS	0	801A
DUNOVSHQ	0	59
DUNOVSNH	0	A
DUNOV SUS	0	58
DUNOVUID	0	63
DUNPATH	0	8017
DUNREMOV	0	8
DUNSPIN	0	8013
DUNSPI2	0	802A
DUNUNALC	0	7
SVC99KYS	0	

Chapter 96. IEFZB4FJ Information

IEFZB4FJ Programming Interface Information

IEFZB4FJ is a programming interface.

IEFZB4FJ Heading Information

Common Name: JES3 Initialization and Setup Exit Flags
Macro ID: IEFZB4FJ
DSECT Name: JESFLAGS
Owning Component: Allocation (SC1B4)
Eye-Catcher ID: None
Storage Attributes: Main Storage: No
Virtual Storage: Yes
Auxiliary Storage: Yes
Subpool: 230
Key: 1
Data Space: No
Residency: Any
Size: 2 bytes
Created by: IEFAB4C3, IEFBB404, IEFDB413
Pointed to by: SSDYPFLG field of the SSDY
Serialization: None
Function: This maps a parameter list which will be pointed to from the SSDY, and will thus be passed to the JES. For PL/AS callers it also maps the function map used by IEFAB4FJ.

IEFZB4FJ mapping

Table 434. Structure JESFLAGS

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
0	(0)	STRUCTURE		0	JESFLAGS	FLAGS FOR 'DYNAMIC ALLOCATION' CALL TO JES3
0	(0)	CHARACTER		1	DYNCALL1	FIRST BYTE OF FLAGS
0	(0)	X'80'		0	JSVLMNT	"128" ALLOW VOLUME MOUNT
0	(0)	X'40'		0	JSOFFLIN	"64" CONSIDER OFFLINES
0	(0)	X'20'		0	JSWTADEV	"32" WAIT FOR DEVICES
0	(0)	X'10'		0	JSWTDSN	"16" WAIT FOR DATASET NAMES
0	(0)	X'8'		0	JSWTVOL	"8" WAIT FOR VOLUMES
0	(0)	X'4'		0	JSPCATIN	"4" PRIVATE CATALOG FOR INITIATOR
0	(0)	X'2'		0	JSDYNDI	"2" NO JES3 DATASET NAME INTEGRITY PROCESSING
0	(0)	X'1'		0	JSNOTRSB	"1" SWA BLOCKS BEING PASSED ARE DUMMIES AND DO NOT REPRESENT A REAL DD
1	(1)	CHARACTER		1	DYNCALL2	SECOND BYTE OF FLAGS
1	(1)	X'80'		0	JSBATCH	"128" THIS JES3 CALL IS DONE FROM BATCH ALLOCATION

IEFZB4FJ mapping

Table 435. Cross Reference for IEFZB4FJ

Name	Offset	Hex Tag
DYNCALL1	0	
DYNCALL2	1	
JESFLAGS	0	
JSBATCH	1	80
JSDYNDI	0	2
JSNOTRSB	0	1
JSOFFLIN	0	40
JSPCATIN	0	4
JSVLMNT	0	80
JSWTADEV	0	20
JSWTDSN	0	10
JSWTVOL	0	8

Chapter 97. IEFZB468 Information

IEFZB468 Heading Information

Common Name: Mapping macro for STARTIO/EXCP ESTAE Parm
 Macro ID: IEFZB468
 DSECT Name: EXPARM
 Owning Component: Allocation (SC1B4)
 Eye-Catcher ID: None
 Storage Attributes: Main Storage: No
 Virtual Storage: Yes
 Auxiliary Storage: Yes
 Subpool: 230
 Key: 1
 Data Space: No
 Residency: Any
 Size: 120 bytes
 Created by: IEFAB4E0 IEFAB494
 Pointed to by: ASWAPRMS
 Serialization: None
 Function: This parameter list is created by IEFAB4E0 and IEFAB494 for use by the ESTAE exit routine, IEFAB4EI.

IEFZB468 mapping

Table 436. Structure EXPARM

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	120	EXPARM	ESTAE PARAMETERS
0	(0)	CHARACTER	96	EXAUTO	AUTOMATIC STORAGE
96	(60)	CHARACTER	1	EXFLAG	FLAG BYTE
		1... ..		EXSTIO	I/O HAS BEEN STARTED
		.1.. ..		EXGETNM	STORAGE WAS GOTTEN
		..1.		EXISSUE	ESTAE WAS SUCCESSFUL
		...1		EXDSID	DSID supplied for PURGE (otherwise use PSATOLD)
		.... 1...		EXDVRID	Driver ID supplied for PURGE (otherwise use IOSMISID)
		.... .1..		EXTIMER	STIMER active and needs to be cancelled
		.... ..1.		EXSWAP	SYSEVENT OKSWAP needs to be issued
		.... ...1		*	Reserved and available as of HBB77A0
97	(61)	CHARACTER	1	*	RESERVED
98	(62)	SIGNED	2	EXSUBPL	SUBPL OF COMMON STORAGE
100	(64)	ADDRESS	4	EXADDR	ADDR OF COMMON STORAGE
104	(68)	SIGNED	4	EXLEN	LEN OF COMMON STORAGE
108	(6C)	SIGNED	4	EXTIMEID	STIMER ID to CANCEL (valid only if EXTIMER is set)

IEFZB468 mapping

Table 436. Structure EXPARM (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
112	(70)	CHARACTER		1	EXDRIVER	Value of PPLDVRID to purge (valid only if EXDVRID is set)
113	(71)	ADDRESS		3	EXDSIDA	Value of PPLDSIDA to purge I/O by (valid only if EXDSID is set)
116	(74)	ADDRESS		4	*	Reserved and available as of HBB77A0

Table 437. Cross Reference for IEFZB468

Name	Offset	Hex	Tag
EXADDR	64		
EXAUTO	0		
EXDRIVER	70		
EXDSID	60		10
EXDSIDA	71		
EXDVRID	60		08
EXFLAG	60		
EXGETNM	60		40
EXISSUE	60		20
EXLEN	68		
EXPARM	0		
EXSTIO	60		80
EXSUBPL	62		
EXSWAP	60		02
EXTIMEID	6C		
EXTIMER	60		04

Chapter 98. IEFZDDWA Information

IEFZDDWA Heading Information

Common Name: DD Work Area
 Macro ID: IEFZDDWA
 DSECT Name: DDWA
 Owing Component: Allocation (SC1B4)
 Eye-Catcher ID: DDWA
 Offset: 0
 Length: 4
 Storage Attributes: Subpool: 230
 Key: Key 1
 Residency: Above
 Size: X'60' bytes
 Created by: IEFBB401, IEFDB413, IEFAB466
 Pointed to by: SIOTDDWA (contained within IEFASIOT)
 Serialization: None
 Function: This macro maps the DD Work Area.
 The DD Work Area is used to hold information pertaining to a DD statement (or SIOT) and is created for one instance of Allocation. It is important to note that the information pointed to by this block is not checkpointed. This block is acquired early in the allocation process, so it will be available throughout most of Allocation's processing. This macro also contains the DDWAFailedDevList, which contains the list of devices that have been requested to be brought online by Recovery Allocation but were unsuccessful.

IEFZDDWA mapping

Table 438. Structure DDWA

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	96	DDWA	DD work area
0	(0)	CHARACTER	4	DDWAID	Identifier C'DDWA'
4	(4)	UNSIGNED	1	DDWAVER	Version number
5	(5)	CHARACTER	1	DDWAFLG1	Flags
		1...		DDWAMDMD	A demand library MOUNT cmd
		.1..		DDWAMUMG	SIOT is a MU/MG request
		..1.		DDWAMUML	SIOT is a MU/ML request

IEFZDDWA mapping

Table 438. Structure DDWA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		DDWASIUA	System has detected a Strong Implicit Unit Affinity to the unit allocated to another DD, due to volser in conflict or other reason. While a specific unit is not required, the same unit as another DD is using IS required, making this a duplicate unit request. MUG groups will be restricted to generic of the device to which there is strong affinity by segment GMENDMND in IEFAB472. This affinity must be honored or the request must be failed (similar to a DEMANDED unit)
		.... 1...		DDWAGAFF	SCTUNAFF is on due to implicit unit affinity for GDGALL and not due to UNIT=AFF= on the JCL
		.... .1..		DDWAODPL	The device pool list passed back from SMS Device Pool Select SSI is ordered. Set by IEFAB42B (was IEFAB423 prior to ATLIB in HBB4430). Used by IEFAB482.
		.... ..1.		DDWAUNAF	Allocation invoked the SMS UNITAFF SSI Exit for this DD. Set by IEFAB457. Checked by IEFAB422.
		.... ...1		DDWACNST	SMS Constructs have been obtained via a call to the SMS TVRU SSI. Set by IEFAB435. Checked by IEFAB490.
6	(6)	CHARACTER	2	DDWAMDEV	Library MOUNT device number
8	(8)	ADDRESS	4	DDWAVRB	Ptr. to VOLUNIT Request Block
12	(C)	CHARACTER	4	DDWARGEN	Generic device type for a request requiring allocated/offline devices. Set by IEFAB486 and used by IEFAB48A
16	(10)	CHARACTER	4	DDWAMGEN	Generic device type for a MU/ML library request
20	(14)	CHARACTER	5	DDWAMLIB	Library identifier for a MU/MG library request
25	(19)	UNSIGNED	1	DDWAPSCT	the number of public/storage units needed by allocation
26	(1A)	UNSIGNED	1	DDWARCNT	Number of times Recovery Allocation was entered
27	(1B)	UNSIGNED	1	DDWAFGL2	Flags
		1...		DDWAMSS	All unit eligible to this request are MSS devices
		.1..		DDWAMXD	Units eligible to this request are a mix of MSS and non-MSS devices
		..1.		DDWAFUDA	Mixed device spec. AFF or DEFER
		...1		DDWAPVTM	PVT assumed message reqd

Table 438. Structure DDWA (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
		....	1...		DDWAGIGN	Ignore process DDWA for this generic
		....	.1..		DDWARTRY	This request requires retry in allocation
		....	...1.		DDWANODQ	Set in Common Allocation Control (IEFAB421) when a volume ENQ for one of the volume(s) associated with this request failed. - It is later checked in Common Unallocation Control (IEFAB4A0) before creating the Volume Release List (VRL) of volumes to be DEQ'd. - This eliminates the chance of a volume being DEQ'd from under the 'mother' task by a failing 'daughter' task. - When set, DDWAFNQV will contain the Volume Serial (VOLSER) number associated with the failed ENQ.
		....	...1		DDWAREPCALL	Indicates that the IEF_ALLC_OFFLN exit has already been called for this request. This is passed to the exit in the REPEATCL bit by IEFAB48A
28	(1C)	CHARACTER		4	DDWAUNIT	UNIT value from JCL
32	(20)	ADDRESS		4	DDWAVUAD	VOLUNIT table address
36	(24)	ADDRESS		2	DDWAVUNO	Number of VOLUNIT Table entries.
38	(26)	ADDRESS		2	DDWAGIID	Group intersection id for generic allocation
40	(28)	SIGNED		2	DDWASSIC	information reason code
42	(2A)	CHARACTER		5	DDWATLIB	The library ID of the last Device Pool in the list of eligible device pools which is above the scratch volume threshold. See IEFAB42B (was IEFAB423 prior to ATLIB in HBB4430) for further information. Used by Library Allocation.
47	(2F)	CHARACTER		5	DDWARLIB	Library ID of the device group selected by the algorithm. Set by IEFAB486 and used by IEFAB48A.
52	(34)	CHARACTER		6	DDWAFNQV	Represents a Volume Serial (VOLSER) number that failed an ENQ request by a 'daughter' task when it was already held by the 'mother' task. - DDWANODQ will be on when this field is used.
58	(3A)	UNSIGNED		1	DDWAFLG3	Flags

IEFZDDWA mapping

Table 438. Structure DDWA (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
		1...	....		DDWABADU	Coded unit parameter was not valid, but ignored (i.e. SMS managed dataset) and NOT replaced by a unit retrieved from the catalog or prior DD. Set by IEFAB464. Used by IEFAB453.
		.1...	....		DDWAEDLA	EDL was altered. Set by IEFAB422 when it detects a change in the EDL upon return from the JES SSI. Acted upon in IEFAB421 whenever a non-zero Return Code is detected.
		..1.	....		DDWA_SKIPPED_UNAVAIL	When building the EDL, IEFAB424 detected that one or more tape devices eligible for a (library / non-library) was marked unavailable for allocation. And did not add the device(s) to the Eligible Device Table.
		...1	....		DDWA_SIOTDMND	set by IEFAB464 if the UNIT NAME conversion indicates that a specific unit is coded on the Tape Library request.
		....	1...		DDWA_DPS_BYPASS_ASSIST	Set by IEFAB422 to indicate that Device Pool Select in IEFAB42B should set SSSAIBAA to bypass Allocation Assist.
		....	.1..		DDWA_PRECALL_NEEDED	Set by IEFAB469 when a parallel recall is to be done for this request.
		....	..1.		DDWA_PRECALL_COMPLETE	Set by IEFABHS1 when a recall has been completed in parallel for this request.
		....	...1		DDWA_GENERATION_NAME_RESOLVED	Indicates that the data set name has been resolved from a relative generation number to a G0000V00 name. Currently only set for GDG single requests by IEFAB461.
59	(3B)	CHARACTER		1	*	Reserved
60	(3C)	ADDRESS		4	DDWASIOT	Address of the referenced SIOT if VOL=REF=*.DD or VOL=REF=*.STEP.DD is coded. (Set by IEFAB464. Used by IEFAB42A.)
64	(40)	CHARACTER		8	DDWADTYP	Device Type from EDL. Set by IEFAB422 and used by IEFAB421 if IEF005I is issued for this DD.
72	(48)	ADDRESS		4	DDWAFAILEDDEVS	Pointer to list of devices that Recovery Allocation has requested to bring online and have failed. Mapped by DDWAFailedDevList
76	(4C)	CHARACTER		8	DDWA_SCTUTYPE	SCTUTYPE from the UNIT NAME

Table 438. Structure DDWA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
76	(4C)	CHARACTER	4	DDWA_SIoTDEVT	SIOTDEVTYPE for UNIT
80	(50)	ADDRESS	4	DDWA_SIOUCBA4	SIUCBAddr for specific unit@L9A saved here if SIOTSHNR is on@L9A
84	(54)	ADDRESS	4	DDWA_RECALLECBPTR	Pointer to ECB returned from HSM Recall request in IEFABHSM
88	(58)	CHARACTER	8	*	Reserved and available

Table 439. Structure DDWAFAILEDDEVLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	96	DDWAFAILEDDEVLIST	DFDL - DDWA Failed Device List
0	(0)	CHARACTER	4	DFDLID	Identifier C'DFDL'
4	(4)	UNSIGNED	1	DFDLVER	Version number
5	(5)	CHARACTER	3	*	Reserved
8	(8)	ADDRESS	4	DFDLNEXT@	Pointer to next DDWAFailedDevList for this DDWA
12	(C)	SIGNED	4	DFDLNUM	Number of entries used in this DDWAFailedDevList
16	(10)	CHARACTER	4	DFDLDEVNUM(20)	Array of device numbers already requested to be brought online for this DDWA

Table 440. Constants for IEFZDDWA

Len	Type	Value	Name	Description
1	DECIMAL	3	DDWACVER	Current Version Number
4	CHARACTER	DDWA	DDWACID	Identifier
4	DECIMAL	50	DDWAPCTD	Primary Cell Pool count for Dynamic Allocations
4	DECIMAL	200	DDWASCTD	Secondary Cell Pool count for Dynamic Allocations
4	DECIMAL	50	DDWAPCTB	Primary Cell Pool count for Batch Allocations
4	DECIMAL	200	DDWASCTB	Secondary Cell Pool count for Batch Allocations
18	CHARACTER	IEFZDDWA CELL PO OL	DDWACPHD	Header for Cell Pool
4	CHARACTER	DFDL	DFDLCID	Identifier
4	DECIMAL	20	DFDLMAXDEVICES	Size of the DFDLDevnum array
4	DECIMAL	0	ASSERT_GE_1	Ensure that the DDWA is at least as big as the DFDL, since these both reside in the same cell pool. The DDWA size is used to calculate the cell size

Table 441. Cross Reference for IEFZDDWA

Name	Offset	Hex	Tag
DDWA	0		
DDWA_DPS_BYPASS_ASSIST	3A		08
DDWA_GENERATION_NAME_RESOLVED	3A		01
DDWA_PRECALL_COMPLETE	3A		02

IEFZDDWA mapping

Table 441. Cross Reference for IEFZDDWA (continued)

Name	Offset	Hex Tag
DDWA_PRECALL_NEEDED	3A	04
DDWA_RECALLECBPTR	54	
DDWA_SCTUTYPE	4C	
DDWA_SIOTDEVT	4C	
DDWA_SIOTDMND	3A	10
DDWA_SIOUCBA4	50	
DDWA_SKIPPED_UNAVAIL	3A	20
DDWABADU	3A	80
DDWACNST	5	01
DDWADTYP	40	
DDWAEDLA	3A	40
DDWAFIILEDDEVLIST	0	
DDWAFIILEDDEVS	48	
DDWAFLG1	5	
DDWAFLG2	1B	
DDWAFLG3	3A	
DDWAFNQV	34	
DDWAFUDA	1B	20
DDWAGAFF	5	08
DDWAGIGN	1B	08
DDWAGIID	26	
DDWAID	0	
DDWAMDEV	6	
DDWAMDMD	5	80
DDWAMGEN	10	
DDWAMLIB	14	
DDWAMSS	1B	80
DDWAMUMG	5	40
DDWAMUML	5	20
DDWAMXD	1B	40
DDWANODQ	1B	02
DDWAODPL	5	04
DDWAPSCT	19	
DDWAPVTM	1B	10
DDWARCNT	1A	
DDWAREPCALL	1B	01
DDWARGEN	C	
DDWARLIB	2F	
DDWARTRY	1B	04
DDWASIOT	3C	
DDWASIUA	5	10
DDWASSIC	28	
DDWATLIB	2A	
DDWAUNAF	5	02
DDWAUNIT	1C	
DDWAVER	4	
DDWAVRB	8	
DDWAVUAD	20	
DDWAVUNO	24	

Table 441. Cross Reference for IEFZDDWA (continued)

Name	Offset	Hex Tag
DFDLDEVNUM	10	
DFDLID	0	
DFDLNEXT@	8	
DFDLNUM	C	
DFDLVER	4	

IEFZDDWA mapping

Chapter 99. IEFZPMAP Information

IEFZPMAP Programming Interface Information

IEFZPMAP is a programming interface.

IEFZPMAP Heading Information

Common Name: Mapping Macros for use with the "Logical Parmlib" Service (IEFPRMLB)
Macro ID: IEFZPMAP
DSECT Name: PRM_List_Buffer - Provides a mapping for the REQUEST=LIST output PRM_Read_Buffer - Provides a mapping for the REQUEST=ALLOCATE with READ function and the REQUEST=READMEMBER function output PRM_Message_Buffer - Provides a mapping for the message buffer for the REQUEST=ALLOCATE and REQUEST=READMEMBER functions
Owning Component: Allocation (SC1B4)
Eye-Catcher ID: None
Storage Attributes: Main Storage: NO
Virtual Storage: YES
Auxiliary Storage: YES
Subpool: Determined by users of IEFPRMLB
Key: Determined by users of IEFPRMLB
Data Space: NO
Residency: Any
Size: PRM_LIST_BUFFER -- X'0048' bytes
if room for one 56-byte entries is provided. Otherwise, X'38' larger for each entry for which room is provided. Room should be provided for at least 11 entries.
PRM_READ_BUFFER -- X'0068' bytes
if room for one 80-byte record is provided. Otherwise, X'50' larger for each record for which room is provided.
PRM_MESSAGE_BUFFER -- X'0110' bytes
if room for one message is provided. Otherwise, X'100' larger for each message for which room is provided.
Created by: Callers of IEFPRMLB
Pointed to by: Addresses are stored into the caller's parameter list
Serialization: None.
Function: PRM_List_Buffer - Provides a mapping for the REQUEST=LIST output
PRM_Read_Buffer - Provides a mapping for the REQUEST=ALLOCATE with READ function and the REQUEST=READMEMBER FUNCTION output
PRM_Message_Buffer - Provides a mapping for the message buffer for the REQUEST=ALLOCATE and REQUEST= READMEMBER functions

IEFZPMAP mapping

IEFZPMAP mapping

Table 442. Structure PRM_LIST_BUFFER

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PRM_LIST_BUFFER	Information returned by the LIST function of the IEFPRMLB macro
0	(0)	CHARACTER	16	PRM_LIST_HEADER	Header
0	(0)	SIGNED	1	PRM_LIST_VERSION	Version number. Must be set to PRM_List_Ver1 or PRM_List_Current_Version
1	(1)	CHARACTER	3		Reserved
4	(4)	SIGNED	4	PRM_NUM_PARMLIB_DS	Number of PARMLIB datasets in use by the system
8	(8)	SIGNED	4	PRM_LIST_BUFF_SIZE	Input - Size of buffer including the header
12	(C)	CHARACTER	4		Reserved
16	(10)	CHARACTER	1	PRM_LIST_ENTRIES(0)	Array of entries each mapped by PRM_Parmlib_Ds_Info
16	(10)	CHARACTER	56	PRM_PARMLIB_DS_INFO	PARMLIB data set record
16	(10)	CHARACTER	44	PRM_PLIB_DSN	PARMLIB dataset name
60	(3C)	CHARACTER	6	PRM_PLIB_VOLSER	PARMLIB VOLSER
66	(42)	CHARACTER	6		Reserved
Version information used with the LIST buffer (PRMLBUFF)					
		.... ...1		PRM_LIST_VER1	"X'01'" Version 1 indicator
		.... ...1		PRM_LIST_CURRENT_VERSION	"X'01'" Current Version
66	(42)	X'48'	0	PRM_LIST_BUFFER_LEN	"*-PRM_LIST_BUFFER"

Table 443. Structure PRM_READ_BUFFER

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PRM_READ_BUFFER	Buffer where contents of PARMLIB member are to be placed - used with ALLOCATE READ or READMEMBER functions of IEFPRMLB
0	(0)	CHARACTER	24	PRM_READ_HEADER	Read Buffer Header
0	(0)	SIGNED	4	PRM_READ_BUFF_SIZE	Input - Size of buffer including the header
4	(4)	SIGNED	4	PRM_RECORDS_READ_COUNT	Output - number of PARMLIB member records read into this buffer
8	(8)	SIGNED	4	PRM_BUFF_SIZE_NEEDED	Output - size of buffer needed to contain entire member contents - valid for buffer full condition
12	(C)	SIGNED	4	PRM_TOTAL_RECORDS	Output - Total number of records in the specified member
16	(10)	CHARACTER	8		Reserved
24	(18)	CHARACTER	1	PRM_RECORDS(0)	Output: PARMLIB records area
24	(18)	CHARACTER	80	PRM_RECORD	Output: array of PARMLIB records, each mapped by PRM_Record_Element
24	(18)	CHARACTER	80	PRM_RECORD_ELEMENT	One record

Table 443. Structure PRM_READ_BUFFER (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
24	(18)	CHARACTER	72	PRM_RECORD_TEXT	First 72 characters of record (If Blank72=YES is specified, character 72 will be EBCDIC blank.)
96	(60)	CHARACTER	8	PRM_EXTRANEIOUS	Sequence number
96	(60)	X'68'	0	PRM_READ_BUFFER_LEN	"*-PRM_READ_BUFFER"

Table 444. Structure PRM_MESSAGE_BUFFER

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PRM_MESSAGE_BUFFER	Buffer where messages will be returned
0	(0)	CHARACTER	16	PRM_MESSAGE_HEADER	Message Buffer Header
0	(0)	SIGNED	4	PRM_MSG_BUFFER_SIZE	Input - Size of buffer including the header
4	(4)	SIGNED	4	PRM_MESSAGE_COUNT	Output - number of messages in the buffer
8	(8)	BITSTRING 1... ..	1	PRM_MSG_BUFFER_FLAGS PRM_MSG_BUFFER_FULL	"X'80'" Output - Message buffer full
9	(9)	CHARACTER	7		Reserved
16	(10)	CHARACTER	1	PRM_MESSAGES(0)	Messages
16	(10)	CHARACTER	256	PRM_MESSAGE_ARRAY	Output - an array of messages descriptors, each mapped by PRM_MESSAGE_ELEMENT
16	(10)	CHARACTER	256	PRM_MESSAGE_ELEMENT	Output - information for one message
16	(10)	BITSTRING	1	PRM_MSG_FLAGS	Output - indicator flags
17	(11)	CHARACTER	1		Reserved
18	(12)	SIGNED	2	PRM_MSG_TEXT_LENGTH	Output - length of this message text
20	(14)	CHARACTER	251	PRM_MSG_TEXT	Output - This message line's text
271	(10F)	CHARACTER	1		Reserved
271	(10F)	X'110'	0	PRM_MESSAGE_BUFFER_LEN	"*-PRM_MESSAGE_BUFFER"

Table 445. Cross Reference for IEFZPMAP

Name	Offset	Hex	Tag
PRM_BUFF_SIZE_NEEDED	8		
PRM_EXTRANEIOUS	60		
PRM_LIST_BUFF_SIZE	8		
PRM_LIST_BUFFER	0		
PRM_LIST_BUFFER_LEN	42		48
PRM_LIST_CURRENT_VERSION	42		1
PRM_LIST_ENTRIES	10		
PRM_LIST_HEADER	0		
PRM_LIST_VERSION	0		
PRM_LIST_VER1	42		1
PRM_MESSAGE_ARRAY	10		
PRM_MESSAGE_BUFFER	0		

IEFZPMAP mapping

Table 445. Cross Reference for IEFZPMAP (continued)

Name	Offset	Hex Tag
PRM_MESSAGE_BUFFER_LEN	10F	110
PRM_MESSAGE_COUNT	4	
PRM_MESSAGE_ELEMENT	10	
PRM_MESSAGE_HEADER	0	
PRM_MESSAGES	10	
PRM_MSG_BUFFER_FLAGS	8	
PRM_MSG_BUFFER_FULL	8	80
PRM_MSG_BUFFER_SIZE	0	
PRM_MSG_FLAGS	10	
PRM_MSG_TEXT	14	
PRM_MSG_TEXT_LENGTH	12	
PRM_NUM_PARMLIB_DS	4	
PRM_PARMLIB_DS_INFO	10	
PRM_PLIB_DSN	10	
PRM_PLIB_VOLSER	3C	
PRM_READ_BUFF_SIZE	0	
PRM_READ_BUFFER	0	
PRM_READ_BUFFER_LEN	60	68
PRM_READ_HEADER	0	
PRM_RECORD	18	
PRM_RECORD_ELEMENT	18	
PRM_RECORD_TEXT	18	
PRM_RECORDS	18	
PRM_RECORDS_READ_COUNT	4	
PRM_TOTAL_RECORDS	C	

Chapter 100. IEFZPRC Information

IEFZPRC Programming Interface Information

IEFZPRC is a programming interface.

IEFZPRC Heading Information

Common Name: Logical Parmlib Service Return and Reason Codes
Macro ID: IEFZPRC
DSECT Name: N/A
Owning Component: Allocation (SC1B4)
Eye-Catcher ID: NONE
Storage Attributes: Main Storage: N/A
Virtual Storage: N/A
Auxiliary Storage: N/A
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 the return and reason codes used by
the Logical Parmlib Service

IEFZPRC mapping

Table 446. Structure

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

IEFZPRC mapping

Table 446. Structure (continued)

Offset	Offset		Len	Name(Dim)	Description
Dec	Hex	Type			
		IEFZPRC_1;;			
		START OF SPECIFICATIONS			
01		MACRO NAME: IEFZPRC			
01		DESCRIPTIVE NAME: Logical Parmlib Service Return and Reason Codes			
01		PROPRIETARY STATEMENT=			
		PROPRIETARY_STATEMENT			
		LICENSED MATERIALS - PROPERTY OF IBM			
		THIS MACRO IS "RESTRICTED MATERIALS OF IBM"			
		5645-001 (C) COPYRIGHT IBM CORP. 1996			
		STATUS= JBB6602			
		END_OF_PROPRIETARY_STATEMENT			
01		FUNCTION = Defines the return and reason codes used by the Logical Parmlib Service			
01		EXTERNAL CLASSIFICATION: GUPI			
01		END OF EXTERNAL CLASSIFICATION:			
01		NOTES = None			
02		DEPENDENCIES =			
		- This macro should be updated if new return or reason codes are defined for the IEFPRMLB service.			
02		RESTRICTIONS = None			
		INVOCATION			
01		METHOD OF ACCESS =			
02		BAL =			
		IEFZPRC			
02		PL/AS =			
		%INCLUDE SYSLIB(IEFZPRC)			
01		DSECT NAME = N/A			
01		COMPONENT = Allocation (SC1B4)			
01		EYE CATCHER = NONE			
02		OFFSET = N/A			
02		LENGTH = N/A			
01		CREATED BY = N/A			
01		POINTED TO BY = N/A			
01		SERIALIZATION = N/A			
01		STORAGE ATTRIBUTES =			
		02 MAIN STORAGE = N/A			
		02 VIRTUAL STORAGE = N/A			
		02 AUXILIARY STORAGE = N/A			
		02 SUBPOOL = N/A			
		02 KEY = N/A			
		02 RESIDENCY = N/A			
		02 FREQUENCY = N/A			
01		SIZE: N/A			
01		CHANGE ACTIVITY =			
		\$L0= PARMCCBG JBB6602 950505 PDNN: Logical Parmlib Support			
		\$L1= PARMC JBB6602 950505 PDNN: Logical Parmlib Support			
		\$L2= PARMC JBB6602 950707 PDNN: Logical Parmlib Support			
		\$L3= DYNPLALL JBB6602 950901 PDXB: Dynamic parmllib			
		END OF SPECIFICATIONS			
		IEFZPRC - A - 000000-999999			
		IEFPRMLB RETURN CODES (decimal)			
0	(0)	X'0'	0	PRMLB_SUCCESS	"0" X'000' IEFPRMLB completed successfully
0	(0)	X'0'	0	PRMLB_FUNCTION_COMPLETE	"0" X'000' Function completed
0	(0)	X'4'	0	PRMLB_WARNING	"4" X'004' IEFPRMLB completed successfully with a warning
0	(0)	X'8'	0	PRMLB_LOCKS_HELD	"8" X'008' Caller holds locks
0	(0)	X'C'	0	PRMLB_REQUEST_FAILED	"12" X'00C' IEFPRMLB request failed

Table 446. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'10'	0	PRMLB_INTERNAL_ERROR	"16" X'010' IEFPRMLB internal error
0	(0)	X'14'	0	PRMLB_NOT_TASK_MODE	"20" X'014' Caller is not in TASK mode
0	(0)	X'1C'	0	PRMLB_INVALID_PARAMETER_LIST	"28" X'01C' Input parameter list is invalid
0	(0)	X'20'	0	PRMLB_CROSS_MEMORY	"32" X'020' Caller is in Cross Memory Mode
0	(0)	X'24'	0	PRMLB_ESTAE_SETUP_FAILED	"36" X'024' ESTAE Setup failed
0	(0)	X'28'	0	PRMLB_NOTAUTH_TO_SUBPOOL	"40" X'028' An unauthorized caller requested messages in an authorized subpool
IEFPRMLB REASON CODES (decimal)					
REASON CODE PRMLB_SUCCESS (decimal 0)					
0	(0)	X'0'	0	PRMLB_RSN_OK	"0" X'000' Success reason code
REASON CODE PRMLB_WARNING (decimal 4)					
0	(0)	X'1'	0	PRMLB_DD_ALREADY_ALLOC	"1" X'001' Specified DDname is already allocated
RETURN CODE PRMLB_REQUEST_FAILED (decimal 12)					
0	(0)	X'1'	0	PRMLB_MEMBER_NOT_FOUND	"1" X'001' Specified member not found
0	(0)	X'2'	0	PRMLB_READ_IO_ERROR	"2" X'002' I/O error on member read
0	(0)	X'3'	0	PRMLB_OPEN_ERROR	"3" X'003' Error opening parmlib dataset
0	(0)	X'4'	0	PRMLB_ALLOC_FAILED	"4" X'004' Allocation of one of the logical parmlib datasets failed
0	(0)	X'5'	0	PRMLB_CONCAT_FAILED	"5" X'005' Concatenation of the logical parmlib datasets failed
0	(0)	X'6'	0	PRMLB_READER_LOAD_FAILED	"6" X'006' Load of the parmlib read routine failed
0	(0)	X'7'	0	PRMLB_UNABLE_TO_ACCESS_DS	"7" X'007' Unable to access data set
0	(0)	X'8'	0	PRMLB_PARMLIB_STILL_OPEN	"8" X'008' The logical parmlib is still open. It must be closed before it can be unallocated.
0	(0)	X'9'	0	PRMLB_UNALLOC_FAILED	"9" X'009' Unallocation of one of the logical parmlib datasets failed
0	(0)	X'A'	0	PRMLB_READ_BUFFER_FULL	"10" X'00A' The input READ buffer is full and READ processing could not continue
0	(0)	X'B'	0	PRMLB_PUTLINE_ERROR	"11" X'00B' Putline processing abended. This could be due to an error in the user-provided CPPL.
RETURN CODE PRMLB_Internal_Error (decimal 16)					
0	(0)	X'1'	0	PRMLB_BAD_PARAMETER	"1" X'001' Bad parameter list passed to parmlib read routine

IEFZPRC mapping

Table 446. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'2'	0	PRMLB_UNKNOWN_REASON	"2" X'002' Reason for failure is unknown
RETURN CODE PRMLB_Invalid_Parameter_List (decimal 28)					
0	(0)	X'1'	0	PRMLB_PLIST_UNACCESSIBLE	"1" X'001' Unable to access the input parameter list
0	(0)	X'2'	0	PRMLB_LISTBUFF_UNACCESSIBLE	"2" X'002' Unable to access the input list buffer
0	(0)	X'3'	0	PRMLB_MSGBUFF_UNACCESSIBLE	"3" X'003' Unable to access the input message buffer
0	(0)	X'4'	0	PRMLB_READBUFF_UNACCESSIBLE	"4" X'004' Unable to access the input read buffer
0	(0)	X'5'	0	PRMLB_PLIST_S99TXTPP_NOT0	"5" X'005' S99TXTPP must be zero
0	(0)	X'6'	0	PRMLB_MSGBUFF_FORMAT_ERROR	"6" X'006' Error in message buffer format
0	(0)	X'7'	0	PRMLB_READBUFF_FORMAT_ERROR	"7" X'007' Error in read buffer format
0	(0)	X'8'	0	PRMLB_LISTBUFF_FORMAT_ERROR	"8" X'008' Error in list buffer format
0	(0)	X'9'	0	PRMLB_S99RB_UNACCESSIBLE	"9" X'009' Unable to access the input S99RB

Table 447. Cross Reference for IEFZPRC

Name	Offset	Hex Tag
PRMLB_ALLOC_FAILED	0	4
PRMLB_BAD_PARAMETER	0	1
PRMLB_CONCAT_FAILED	0	5
PRMLB_CROSS_MEMORY	0	20
PRMLB_DD_ALREADY_ALLOC	0	1
PRMLB_ESTAE_SETUP_FAILED	0	24
PRMLB_FUNCTION_COMPLETE	0	0
PRMLB_INTERNAL_ERROR	0	10
PRMLB_INVALID_PARAMETER_LIST	0	1C
PRMLB_LISTBUFF_FORMAT_ERROR	0	8
PRMLB_LISTBUFF_UNACCESSIBLE	0	2
PRMLB_LOCKS_HELD	0	8
PRMLB_MEMBER_NOT_FOUND	0	1
PRMLB_MSGBUFF_FORMAT_ERROR	0	6
PRMLB_MSGBUFF_UNACCESSIBLE	0	3
PRMLB_NOT_TASK_MODE	0	14
PRMLB_NOTAUTH_TO_SUBPOOL	0	28
PRMLB_OPEN_ERROR	0	3
PRMLB_PARMLIB_STILL_OPEN	0	8
PRMLB_PLIST_S99TXTPP_NOT0	0	5
PRMLB_PLIST_UNACCESSIBLE	0	1
PRMLB_PUTLINE_ERROR	0	B

Table 447. Cross Reference for IEFZPRC (continued)

Name	Offset	Hex Tag
PRMLB_READ_BUFFER_FULL	0	A
PRMLB_READ_IO_ERROR	0	2
PRMLB_READBUFF_FORMAT_ERROR	0	7
PRMLB_READBUFF_UNACCESSIBLE	0	4
PRMLB_READER_LOAD_FAILED	0	6
PRMLB_REQUEST_FAILED	0	C
PRMLB_RSN_OK	0	0
PRMLB_SUCCESS	0	0
PRMLB_S99RB_UNACCESSIBLE	0	9
PRMLB_UNABLE_TO_ACCESS_DS	0	7
PRMLB_UNALLOC_FAILED	0	9
PRMLB_UNKNOWN_REASON	0	2
PRMLB_WARNING	0	4

IEFZPRC mapping

Chapter 101. IEWL CNV Information

IEWL CNV Programming Interface Information

IEWL CNV is a programming interface.

IEWL CNV Heading Information

Common Name: PMLoader DE convert services parameter area
 Macro ID: IEWL CNV
 DSECT Name: LCNV
 Owing Component: Loader (SCLDR)
 Eye-Catcher ID: IEWL CNV
 Offset: 0
 Length: 7
 Storage Attributes: Subpool: caller-provided
 Key: caller-provided
 Size: 48 bytes
 Created by: Caller
 Pointed to by: N/A
 Serialization: None
 Function: IEWL CNV maps the parameter area used by PMLoader's directory entry convert service. Macro IEWL CNVT passes the IEWL CNV parameter area to module IEWL CNVX.

IEWL CNV mapping

Table 448. Structure LCNV

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	LCNV	PML DE convert parameters
0	(0)	CHARACTER	16	LCNV_HEADER(0)	Standard header
0	(0)	CHARACTER	8	LCNV_ID	Eyecatcher
8	(8)	SIGNED	4	LCNV_LEN	
12	(C)	BITSTRING	1	LCNV_LEV	Control block level
		.... ...1		LCNV_LEV_IV	"X'01"
13	(D)	CHARACTER	3		Reserved Start of function parms
16	(10)	SIGNED	4	(0)	
16	(10)	ADDRESS	4	LCNV_OUTLEN	Output length
20	(14)	ADDRESS	4	LCNV_PMAR_PTR	PMAR address
24	(18)	ADDRESS	4	LCNV_FLAGS_PTR	FLAGS address
28	(1C)	ADDRESS	4	LCNV_PDS2INDC_PTR	PDS Directory Entry indicator byte address
32	(20)	ADDRESS	4	LCNV_PMARA_PTR	PMARA address
36	(24)	ADDRESS	4	LCNV_PNAME_PTR	Primary name address
40	(28)	SIGNED	4	LCNV_FUNC	FUNCTION CODE
44	(2C)	ADDRESS	4		Reserved
44	(2C)	X'30'	0	LCNV_LEN_IV	"*-LCNV" Parm List Length
44	(2C)	X'20'	0	LCNV_LEN_LIST	"*-LCNV_OUTLEN" parm list length w/o header

IEWLCNV mapping

Table 449. Structure LCNV_FLAGS_DSECT

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
0	(0)	STRUCTURE		0	LCNV_FLAGS_DSECT	
0	(0)	BITSTRING		1	LCNV_FLAGS	Processing flags
		1... ..	....		LCNV_FLAGS_ALIAS	"X'80'" Alias indicator

Table 450. Structure LCNV_PNAME_DSECT

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
0	(0)	STRUCTURE		0	LCNV_PNAME_DSECT	
0	(0)	CHARACTER		8	LCNV_PNAME	Primary name
THE FOLLOWING ARE IEWLNV FUNCTION CODES. THEY ARE ALSO DEFINED IN IEWLDR FOR PLS.						
		....	.1.1		LDR_FUNC_PMAR_TO_PDSDE	"X'05'" PMAR to PDSDE conversion
		....	.11.		LDR_FUNC_PDSDE_TO_PMAR	"X'06'" PDSDE to PMAR conversion

Table 451. Cross Reference for IEWLNV

Name	Offset	Hex	Tag
LCNV	0		
LCNV_FLAGS	0		
LCNV_FLAGS_ALIAS	0		80
LCNV_FLAGS_DSECT	0		
LCNV_FLAGS_PTR	18		
LCNV_FUNC	28		
LCNV_HEADER	0		
LCNV_ID	0		
LCNV_LEN	8		
LCNV_LEN_IV	2C		30
LCNV_LEN_LIST	2C		20
LCNV_LEV	C		
LCNV_LEV_IV	C		1
LCNV_OUTLEN	10		
LCNV_PDS2INDC_PTR	1C		
LCNV_PMAR_PTR	14		
LCNV_PPARA_PTR	20		
LCNV_PNAME	0		
LCNV_PNAME_DSECT	0		
LCNV_PNAME_PTR	24		
LDR_FUNC_PDSDE_TO_PMAR	0		6
LDR_FUNC_PMAR_TO_PDSDE	0		5

Chapter 102. IEWPMAR Information

IEWPMAR Programming Interface Information

The following fields are NOT programming interface information:

- PMAR_XATTR1
- PMARL_BDRL
- PMARL_BDRO
- PMARL_CMS
- PMARL_DTEMPL
- PMARL_I EWBLITO
- PMARL_LMDL
- PMARL_LMDO
- PMARL_MDAT
- PMARL_MPGS
- PMARL_NDEFER
- PMARL_NGAS
- PMARL_NSEG
- PMARL_NVSPGS
- PMARL_PM3
- PMARL_PM4
- PMARL_RATL
- PMARL_RATIO
- PMARL_RDTL
- PMARL_RDTO
- PMARL_TXTL
- PMARL_TXTO
- PMARL_1DTXTO
- PMARL_1STOR
- PMARL_2STOR
- PMARL_2TXTO

IEWPMAR Heading Information

Common Name:	Program Management Attribute Record
Macro ID:	IEWPMAR
DSECT Name:	PMAR_RS
Owning Component:	Loader (SCLDR)
Eye-Catcher ID:	None
Storage Attributes:	Subpool: variable Key: variable
Size:	variable
Created by:	user
Pointed to by:	N/A
Serialization:	None

IEWPMAR Heading Information

Function: IEWPMAR maps a program's user data in an SMDE and declares constants and mappings for use by routines which manipulate program user data.

The PMAR mapping is for program attributes which are common to all types of program. The PMARL and PMARR mappings are for attributes which are unique to specific types of program. For program objects (SMDE_LFMT is on), the program's user data is mapped by PMAR followed by PMARL. For load modules (SMDE_LFMT is off), the program's user data is mapped by PMAR followed by PMARR. The PMARA mapping does not map any data in the SMDE. It is used internally by Program Management routines when manipulating program directory entries.

IEWPMAR mapping

Table 452. Structure PMAR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PMAR	Basic section of program user data
0	(0)	CHARACTER	30	PMAR_ENTRY(0)	Alternative name for the PMAR section
0	(0)	SIGNED	2	PMAR_SLEN	Section length.
2	(2)	BITSTRING	1	PMAR_LVL	PMAR format level
		.... ...1		PMAR_PM1_VAL	"X'01'" level constant for P01
		.... ..1.		PMAR_PM2_VAL	"X'02'" level constant for P02
		.... ..11		PMAR_PM3_VAL	"X'03'" level constant for P03
		.... ..1..		PMAR_PM4_VAL	"X'04'" level constant for P04
		.... ..1.1		PMAR_PM5_VAL	"X'05'" level constant for P05
		.... ..1.1		PMAR_LVL_VAL	"X'05'" level constant
3	(3)	ADDRESS	1	PMAR_PLVL	Bind processor creating object
		.... ...1		PMAR_PLVL_E_VAL	"X'01'" E-level constant
		.... ..1.		PMAR_PLVL_F_VAL	"X'02'" F-level constant
		.... ..11		PMAR_PLVL_AOS_VAL	"X'03'" AOS-level constant
		.... ..1..		PMAR_PLVL_XA_VAL	"X'04'" XA-level constant
		.... ..1.1		PMAR_PLVL_B1_VAL	"X'05'" Binder version 1
		.... ..11.		PMAR_PLVL_B2_VAL	"X'06'" Binder version 2
		.... ..111		PMAR_PLVL_B3_VAL	"X'07'" Binder version 3
		.... 1...		PMAR_PLVL_B4_VAL	"X'08'" Binder version 4
		.... 1..1		PMAR_PLVL_B5_VAL	"X'09'" Binder version 5 1 -
					E-level linkage editor 2 -
					F-level linkage editor 3 - AOS
					(VS1/VS2) linkage editor 4 - XA
					linkage editor 5 - binder
					version 1 6 - binder version 2 7
					- binder version 3 8 - binder
					version 4 9 - binder version 5
4	(4)	CHARACTER	4	PMAR_ATR(0)	Attribute bytes.
4	(4)	BITSTRING	1	PMAR_ATR1	First attribute byte. These flags must be at the same offsets as the corresponding flags in PDS2ATR1 declared by macro IHAPDS.
		1...		PMAR_RENT	"X'80'" Reenterable
		.1..		PMAR_REUS	"X'40'" Reusable

Table 452. Structure PMAR (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
		..1.	....		PMAR_OVLY	"X'20'" Overlay structure
		...1	....		PMAR_TEST	"X'10'" Module to be tested - TESTRAN
		....	1...		PMAR_LOAD	"X'08'" Only loadable
		....	.1..		PMAR_SCTR	"X'04'" Scatter format
		....	..1.		PMAR_EXEC	"X'02'" Executable
		....	...1		PMAR_1BLK	"X'01'" Load module contains only one block of text data and has no rld data.
5	(5)	BITSTRING		1	PMAR_ATR2	Second attribute byte. These flags must be at the same offsets as the corresponding flags in PDS2ATR2 declared by macro IHAPDS.
		1...	....		PMAR_FLVL	"X'80'" If on, the program cannot be processed by the e level linkage editor. If off, the program can be processed by any level of the linkage editor or the Binder.
		.1..	....		PMAR_ORG0	"X'40'" Linkage editor assigned origin of first block of text is zero. EQU X'20' RESERVED
		...1	....		PMAR_NRLD	"X'10'" Program contains no RLD items
		....	1...		PMAR_NREP	"X'08'" Module cannot be reprocessed by the linkage editor
		....	.1..		PMAR_TSTN	"X'04'" Module contains TESTRAN symbol cards EQU X'02' RESERVED
		....	...1		PMAR_REFR	"X'01'" Refreshable program
6	(6)	BITSTRING		1	PMAR_ATR3(0)	Third attribute byte.
6	(6)	BITSTRING		1	PMAR_FTB1	Alternative name for flags byte These flags must be at the same offsets as the corresponding flags in PDS2FTB1 declared by macro IHAPDS. EQU X'80' RESERVED
		.1..	....		PMAR_BIG	"X'40'" This program requires 16M bytes or more of virtual storage
		..1.	....		PMAR_PAGA	"X'20'" Page alignment is required
		...1	....		PMAR_XSSI	"X'10'" SSI information present
		....	1...		PMAR_XAPF	"X'08'" APF information present
		....	.1..		PMAR_LFMT	"X'04'" PMARL follows PMAR.
		....	..1.		PMAR_SIGNED	"X'02'" Program is signed. Verified on LOAD if directed by security product EQU X'01' Do not use. Used in PDS DE
7	(7)	BITSTRING		1	PMAR_ATR4(0)	Fourth attribute byte
7	(7)	BITSTRING		1	PMAR_FTB2	Alternative name for flags byte These flags must be at the same offsets as the corresponding flags in PDS2FTB2 declared by macro IHAPDS.

IEWPMAR mapping

Table 452. Structure PMAR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		PMAR_ALTP	"X'80'" Alternate primary flag. If on for a primary name, indicates primary name was generated by the Binder. If on for an alias name, indicates the long alias name was specified as the primary name on the bind.
		...1		PMAR_RMOD	"X'10'" RMODE is 31.
		.... 11..		PMAR_AAMD	"X'0C'" Alias entry point addressing mode. If B'00', AMODE is 24. If B'10', AMODE is 31. If B'11', AMODE is ANY. If B'01', AMODE is 64.
		1111 ..11		PMAR_AAMD_MASKOFF	"X'F3'" Mask for AMODE flags in xxxFTB2 flag bytes.
		.... ..11		PMAR_MAMD	"X'03'" Main entry point addressing mode. If B'00', AMODE is 24. If B'10', AMODE is 31. If B'11', AMODE is ANY. If B'01', AMODE is 64.
8	(8)	BITSTRING	1	PMAR_ATR5	Fifth attribute byte
		1...		PMAR_RMOD64	"X'80'" RMODE 64
		.... ...1		PMAR_LONGPARG	"X'01'" Parm >100 chars allowed
9	(9)	BITSTRING	1	PMAR_AC	APF authorization code
10	(A)	BITSTRING	4	PMAR_STOR	Virtual storage required
14	(E)	BITSTRING	4	PMAR_EPM	Main entry point offset
18	(12)	BITSTRING	4	PMAR_EPA	This entry point offset
22	(16)	BITSTRING	4	PMAR_SSI(0)	SSI information
22	(16)	BITSTRING	1	PMAR_CHLV	Change level of member
23	(17)	BITSTRING	1	PMAR_SSFBS	SSI flag byte
24	(18)	CHARACTER	2	PMAR_MSERN	Member serial number
26	(1A)	BITSTRING	2	PMAR_XATTR1	Extended Attributes
		1...		PMAR_SYSTEM_LE	"X'80'"
		.1..		PMAR_LIGHTWEIGHT_LE	"X'40'"
28	(1C)	BITSTRING	2		Reserved
30	(1E)	CHARACTER	1	PMAR_END(0)	END OF BASIC SECTION

Table 453. Structure PMARL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PMARL	LSLoader section for program objects
0	(0)	SIGNED	2	PMARL_SLEN	Section length
2	(2)	CHARACTER	48	PMARL_DATA(0)	Section Data
2	(2)	CHARACTER	4	PMARL_ATTR(0)	Attribute bytes
2	(2)	BITSTRING	1	PMARL_ATTR1	6th attribute byte
		1...		PMARL_NMIG	"X'80'" This program object cannot be converted directly to PDS load module format.
		.1..		PMARL_PRIM	"X'40'" FETCHOPT PRIME option
		..1.		PMARL_PACK	"X'20'" FETCHOPT PACK option
		...1		PMARL_XPL	"X'10'" Module requires XPLINK
		...1		PMARL_HPL	"X'10'" Module requires XPLINK

Table 453. Structure PMARL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
3	(3)	BITSTRING	1	PMARL_ATR2	7th attribute byte
		1... ..		PMARL_CMPR	"X'80'" Compressed format module
		.1.. ..		PMARL_1RMOD	"X'40'" 1st segment is RMODE 31, set for PM2-level PO only
		..1.		PMARL_2RMOD	"X'20'" 2nd segment is RMODE 31, set for PM2-level PO if there are at least two segments.
		.... 1..		PMARL_1ALIN	"X'08'" 1st segment is page-aligned, set for PM2-level PO only
		.... .1..		PMARL_2ALIN	"X'04'" 2nd segment is page-aligned, set for PM2-level PO if there are at least 2 segments.
		.... ..1.		PMARL_FILL	"X'02'" FILL option specified set for PM2-level PO only
4	(4)	CHARACTER	1	PMARL_FILLVAL	FILL character value set for PM2-level PO only
5	(5)	BITSTRING	1	PMARL_PO_SUBLVL	Program object sublevel
5	(5)	X'1'	0	PMARL_PO_SUBLVL_ZOSV1R3	"1" Value for z/OS V1 R3 / P04
5	(5)	X'2'	0	PMARL_PO_SUBLVL_ZOSV1R5	"2" Value for z/OS V1 R5 / P04
5	(5)	X'3'	0	PMARL_PO_SUBLVL_ZOSV1R7	"3" Value for z/OS V1 R7 / P04
5	(5)	X'1'	0	PMARL_PO_SUBLVL_ZOSV1R8	"1" Value for z/OS V1 R8 / P05
5	(5)	X'2'	0	PMARL_PO_SUBLVL_ZOSV1R10	"2" Value for z/OS V1 R10 / P05
5	(5)	X'3'	0	PMARL_PO_SUBLVL_ZOSV1R13	"3" Value for z/OS V1 R13 / P05
5	(5)	X'4'	0	PMARL_PO_SUBLVL_ZOSV2R1	"4" Value for z/OS V2 R1 / P05
6	(6)	BITSTRING	4	PMARL_MPGS	Total length of program on DASD in pages (excluding gas) in its current (compressed or uncompressed) form
10	(A)	CHARACTER	40	PMARL_MDAT(0)	DASD program descriptors
10	(A)	BITSTRING	4	PMARL_TXTL	Length of initial load text on DASD including gas.
14	(E)	ADDRESS	4	PMARL_TXTO	Offset to text
18	(12)	BITSTRING	4	PMARL_BDRL	Length of Binder index
22	(16)	ADDRESS	4	PMARL_BDR0	Offset to Binder index
26	(1A)	BITSTRING	4	PMARL_RDTL	Length of PRDT
30	(1E)	ADDRESS	4	PMARL_RDTO	Offset to PRDT
34	(22)	BITSTRING	4	PMARL_RATL	Length of PRAT
38	(26)	ADDRESS	4	PMARL_RATO	Offset to PRAT
42	(2A)	BITSTRING	4	PMARL_NVSPGS(0)	Number of virtual storage pages to contain program object, for PM2-level PO
42	(2A)	BITSTRING	4	PMARL_LMDL	Length of LLoader data, for PM1-level PO
46	(2E)	ADDRESS	4	PMARL_LMDO	Offset to LLoader data
50	(32)	CHARACTER	24	PMARL_PM2(0)	New fields for PM2-Level object
50	(32)	BITSTRING	2	PMARL_NSEG	Number of loadable segments
52	(34)	BITSTRING	2	PMARL_NGAS	Count of entries in Gas Table
54	(36)	BITSTRING	4	PMARL_1STOR	Virtual storage required for first loadable segment, valid when PMARL_NSEG > 1.

IEWPMAR mapping

Table 453. Structure PMARL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
58	(3A)	BITSTRING	4	PMARL_2STOR	Virtual storage required for second loadable segment, valid when PMARL_NSEG > 1.
62	(3E)	BITSTRING	4	PMARL_2TXT0	Offset to second txt segment including gas, valid when PMARL_NSEG > 1.
66	(42)	CHARACTER	16	PMARL_TRACE(0)	Audit trace data
66	(42)	BITSTRING	4	PMARL_DATE	Date saved
70	(46)	BITSTRING	4	PMARL_TIME	Time saved
74	(4A)	CHARACTER	8	PMARL_USER	User or job identification
82	(52)	CHARACTER	16	PMARL_PM3(0)	New fields for PM3-Level object
82	(52)	BITSTRING	1	PMARL_PM3FL1	Flag byte
		1... ..		PMARL_HIDE	"X'80'" Name is an alias that can be hidden
		.1..		PMARL_DLLENA	"X'40'" PO is DLL-enabled
		.1..		PMARL_MUSTDELETE	"X'20'" If on and directed LOAD invoked for this module, Module_Delete function must be issued before freeing or reusing module storage
		...1		PMARL_IEWBLITP	"X'10'" If on, PMARL_IEWBLITO is valid.
		.... 1...		PMARL_MANGLED	"X'08'" If on, name is mangled.
83	(53)	BITSTRING	1	PMARL_CMS	CMS flags
		1...		PMARL_CMS_SYSTEM	"X'80'" SYSTEM module bit
		.1..		PMARL_CMS_NOCLEAN	"X'40'" Do not cleanup at end of service
		..1.		PMARL_CMS_STRINIT	"X'20'" STRINIT bit
		...1		PMARL_CMS_MODDOS	"X'10'" Gen'd with DOS
		.... 1...		PMARL_CMS_MODALL	"X'08'" Gen'd with ALL
		.... .1..		PMARL_CMS_INVALIDXA	"X'04'" XA-mode invalid
		.... ..1.		PMARL_CMS_INVALIDXC	"X'02'" XC-mode invalid
84	(54)	BITSTRING	2	PMARL_NDEFER	Number of deferred classes
86	(56)	BITSTRING	4	PMARL_DTEMPL	Total length of deferred text classes on DASD (excludes gas).
90	(5A)	BITSTRING	4	PMARL_1DTXT0	Offset of 1st deferred class on DASD (includes gas).
94	(5E)	BITSTRING	4	PMARL_IEWBLITO	Byte offset of IEWBLOT structure from module load point
98	(62)	CHARACTER	8	PMARL_PM4(0)	New fields for PM4-Level
98	(62)	BITSTRING	1	PMARL_ATR3	8th attribute byte
		1...		PMARL_1RM0D64	"X'80'" 1st segment is RMODE 64
		.1..		PMARL_2RM0D64	"X'40'" 2nd segment is RMODE 64
99	(63)	CHARACTER	7		Reserved
106	(6A)	CHARACTER	1	PMARL_PM5(0)	New fields for PM5-Level
106	(6A)	CHARACTER	1	PMARL_END(0)	END OF LSLOADER SECTION

Table 454. Structure PMARR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PMARR	Load module (PDS) attributes section

Table 454. Structure PMARR (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
0	(0)	SIGNED		2	PMARR_SLEN	Section length
2	(2)	CHARACTER		21	PMARR_DATA(0)	Section data
2	(2)	CHARACTER		8	PMARR_TTRS(0)	TTR fields
2	(2)	CHARACTER		3	PMARR_TTRT	TTR of first block of text
5	(5)	CHARACTER		1	PMARR_ZERO	Zero
6	(6)	CHARACTER		3	PMARR_TTRN	TTR of note list or scatter translation table. Used for modules in scatter load format or overlay structure only.
9	(9)	ADDRESS		1	PMARR_NL	Number of entries in note list for scatter format modules and modules in overlay structure, Otherwise zero.
10	(A)	BITSTRING		2	PMARR_FTBL	Length of first block of text.
12	(C)	BITSTRING		3	PMARR_ORG(0)	Load module origin if ≠0
12	(C)	CHARACTER		2		Reserved
14	(E)	BITSTRING		1	PMARR_RLDS	Number of RLD/CTL records which follow the first text record
15	(F)	CHARACTER		8	PMARR_SCAT(0)	Scatter load information
15	(F)	BITSTRING		2	PMARR_SLSZ	Scatter list length
17	(11)	BITSTRING		2	PMARR_TTSZ	Translation table length
19	(13)	CHARACTER		2	PMARR_ESDT	ESDID of first text block
21	(15)	CHARACTER		2	PMARR_ESDC	ESDID of EP control section
23	(17)	CHARACTER		1	PMARR_END(0)	END OF LOAD MODULE ATTRIBUTES

Table 455. Structure PMARA

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
0	(0)	STRUCTURE		0	PMARA	PMAR alias entry section
0	(0)	SIGNED		2	PMARA_LEN	Section length
2	(2)	BITSTRING		1	PMARA_DATA(0)	Section data
2	(2)	BITSTRING		4	PMARA_EPA	Entry point offset
6	(6)	CHARACTER		1	PMARA_ATR(0)	Attribute bytes
6	(6)	BITSTRING		1	PMARA_ATR1(0)	First attribute byte
6	(6)	BITSTRING		1	PMARA_FT2	Alternative name for flags byte
			1... ..		PMARA_ALTP	These flags must be at the same offsets as the corresponding flags in PDS2FTB2 declared by macro IHAPDS. "X'80'" Alternate Primary flag. If on, this long alias name was specified as the primary on the bind and a Binder generated 8 byte primary name exists.
			.1..		PMARA_HIDE	"X'40'" Alias name can be hidden
			..1.		PMARA_NEXEC	"X'20'" Entry point is non-executable
			...1		PMARA_MANGLED	"X'10'" Alias is a mangled name
			.... 11..		PMARA_AMD	"X'0C'" Alias entry addressing mode If B'00', AMODE is 24. If B'10', AMODE is 31. If B'11', AMODE is ANY. If B'01', AMODE is 64.

IEWPMAR mapping

Table 455. Structure PMARA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
7	(7)	CHARACTER	1	PMARA_END(0)	END OF ALIAS ENTRY SECTION
Constants used by programs which manipulate program user data. Maximum length PMAR Basic section length LSLoader section length					
7	(7)	X'88'	0	PMAR_MAXLEN	"PMAR_END-PMAR+PMARL_END-PMARL"
Largest PMAR length for program objects Basic section length Program object section length					
7	(7)	X'88'	0	PMAR_MAXLEN_PROGOBJ	"PMAR_END-PMAR+PMARL_END-PMARL"
Largest PMAR length for P01 format program object Basic section length P01 format Program object section length					
7	(7)	X'50'	0	PMAR_MAXLEN_P01	"PMAR_END-PMAR+PMARL_PM2-PMARL"
Largest PMAR length for program objects Basic section length Program object section length for P02					
7	(7)	X'70'	0	PMAR_MAXLEN_P02	"PMAR_END-PMAR+PMARL_PM3-PMARL"
Largest PMAR length for program objects Basic section length Program object section length for P03					
7	(7)	X'80'	0	PMAR_MAXLEN_P03	"PMAR_END-PMAR+PMARL_PM4-PMARL"
Largest PMAR length for program objects Basic section length Program object section length for P04					
7	(7)	X'88'	0	PMAR_MAXLEN_P04	"PMAR_END-PMAR+PMARL_PM5-PMARL"
Largest PMAR length for program objects Basic section length Program object section length for P05					
7	(7)	X'88'	0	PMAR_MAXLEN_P05	"PMAR_END-PMAR+PMARL_END-PMARL"
Largest PMAR length for PDS load modules Load module section length					
7	(7)	X'35'	0	PMAR_MAXLEN_LOADMOD	"PMAR_END-PMAR+PMARR_END-PMARR"
Largest PMARL length for P01 format program objects P01 format Program object section length					
7	(7)	X'32'	0	PMARL_LVL1LEN	"PMARL_PM2-PMARL"
Largest PMARL length for P02 format program objects P02 format Program object section length					
7	(7)	X'52'	0	PMARL_LVL2LEN	"PMARL_PM3-PMARL"
7	(7)	X'62'	0	PMARL_LVL3LEN	"PMARL_PM4-PMARL"
7	(7)	X'6A'	0	PMARL_LVL4LEN	"PMARL_PM5-PMARL"
7	(7)	X'6A'	0	PMARL_LVL5LEN	"PMARL_END-PMARL"

Table 456. Cross Reference for IEWPMAR

Name	Offset	Hex Tag
PMAR	0	

Table 456. Cross Reference for IEWPMAR (continued)

Name	Offset	Hex Tag
PMAR_AAMD	7	C
PMAR_AAMD_MASKOFF	7	F3
PMAR_AC	9	
PMAR_ALTP	7	80
PMAR_ATR	4	
PMAR_ATR1	4	
PMAR_ATR2	5	
PMAR_ATR3	6	
PMAR_ATR4	7	
PMAR_ATR5	8	
PMAR_BIG	6	40
PMAR_CHLV	16	
PMAR_END	1E	
PMAR_ENTRY	0	
PMAR_EPA	12	
PMAR_EPM	E	
PMAR_EXEC	4	2
PMAR_FLVL	5	80
PMAR_FTB1	6	
PMAR_FTB2	7	
PMAR_LFMT	6	4
PMAR_LIGHTWEIGHT_LE	1A	40
PMAR_LOAD	4	8
PMAR_LONGPARM	8	1
PMAR_LVL	2	
PMAR_LVL_VAL	2	5
PMAR_MAMD	7	3
PMAR_MAXLEN	7	88
PMAR_MAXLEN_LOADMOD	7	35
PMAR_MAXLEN_PO1	7	50
PMAR_MAXLEN_PO2	7	70
PMAR_MAXLEN_PO3	7	80
PMAR_MAXLEN_PO4	7	88
PMAR_MAXLEN_PO5	7	88
PMAR_MAXLEN_PROGOBJ	7	88
PMAR_MSER	18	
PMAR_NREP	5	8
PMAR_NRLD	5	10
PMAR_ORG0	5	40
PMAR_OVLY	4	20
PMAR_PAGA	6	20
PMAR_PLVL	3	
PMAR_PLVL_AOS_VAL	3	3
PMAR_PLVL_B1_VAL	3	5
PMAR_PLVL_B2_VAL	3	6
PMAR_PLVL_B3_VAL	3	7
PMAR_PLVL_B4_VAL	3	8
PMAR_PLVL_B5_VAL	3	9
PMAR_PLVL_E_VAL	3	1

IEWPMAR mapping

Table 456. Cross Reference for IEWPMAR (continued)

Name	Offset	Hex Tag
PMAR_PLVL_F_VAL	3	2
PMAR_PLVL_XA_VAL	3	4
PMAR_PM1_VAL	2	1
PMAR_PM2_VAL	2	2
PMAR_PM3_VAL	2	3
PMAR_PM4_VAL	2	4
PMAR_PM5_VAL	2	5
PMAR_REFR	5	1
PMAR_RENT	4	80
PMAR_REUS	4	40
PMAR_RMOD	7	10
PMAR_RMOD64	8	80
PMAR_SCTR	4	4
PMAR_SIGNED	6	2
PMAR_SLEN	0	
PMAR_SSF	17	
PMAR_SSI	16	
PMAR_STOR	A	
PMAR_SYSTEM_LE	1A	80
PMAR_TEST	4	10
PMAR_TSTN	5	4
PMAR_XAPF	6	8
PMAR_XATTR1	1A	
PMAR_XSSI	6	10
PMAR_1BLK	4	1
PMARA	0	
PMARA_ALTP	6	80
PMARA_AMD	6	C
PMARA_ATR	6	
PMARA_ATR1	6	
PMARA_DATA	2	
PMARA_END	7	
PMARA_EPA	2	
PMARA_FTB2	6	
PMARA_HIDE	6	40
PMARA_LEN	0	
PMARA_MANGLED	6	10
PMARA_NEXEC	6	20
PMARL	0	
PMARL_ATR	2	
PMARL_ATR1	2	
PMARL_ATR2	3	
PMARL_ATR3	62	
PMARL_BDRL	12	
PMARL_BDRO	16	
PMARL_CMPR	3	80
PMARL_CMS	53	
PMARL_CMS_INVALIDXA	53	4
PMARL_CMS_INVALIDXC	53	2

Table 456. Cross Reference for IEWPMAR (continued)

Name	Offset	Hex Tag
PMARL_CMS_MODALL	53	8
PMARL_CMS_MODALDOS	53	10
PMARL_CMS_NOCLEAN	53	40
PMARL_CMS_STRINIT	53	20
PMARL_CMS_SYSTEM	53	80
PMARL_DATA	2	
PMARL_DATE	42	
PMARL_DLENA	52	40
PMARL_DTEMPL	56	
PMARL_END	6A	
PMARL_FILL	3	2
PMARL_FILLVAL	4	
PMARL_HIDE	52	80
PMARL_HPL	2	10
PMARL_IEWBLITO	5E	
PMARL_IEWBLITP	52	10
PMARL_LMDL	2A	
PMARL_LMDO	2E	
PMARL_LVL1LEN	7	32
PMARL_LVL2LEN	7	52
PMARL_LVL3LEN	7	62
PMARL_LVL4LEN	7	6A
PMARL_LVL5LEN	7	6A
PMARL_MANGLED	52	8
PMARL_MDAT	A	
PMARL_MPGS	6	
PMARL_MUSTDELET	52	20
PMARL_NDEFER	54	
PMARL_NGAS	34	
PMARL_NMIG	2	80
PMARL_NSEG	32	
PMARL_NVSPGS	2A	
PMARL_PACK	2	20
PMARL_PM2	32	
PMARL_PM3	52	
PMARL_PM3FL1	52	
PMARL_PM4	62	
PMARL_PM5	6A	
PMARL_PO_SUBLVL	5	
PMARL_PO_SUBLVL_ZOSV1R10	5	2
PMARL_PO_SUBLVL_ZOSV1R13	5	3
PMARL_PO_SUBLVL_ZOSV1R3	5	1
PMARL_PO_SUBLVL_ZOSV1R5	5	2
PMARL_PO_SUBLVL_ZOSV1R7	5	3
PMARL_PO_SUBLVL_ZOSV1R8	5	1
PMARL_PO_SUBLVL_ZOSV2R1	5	4
PMARL_PRIM	2	40
PMARL_RATL	22	
PMARL_RATO	26	

IEWPMAR mapping

Table 456. Cross Reference for IEWPMAR (continued)

Name	Offset	Hex Tag
PMARL_RDTL	1A	
PMARL_RDTO	1E	
PMARL_SLEN	0	
PMARL_TIME	46	
PMARL_TRACE	42	
PMARL_TXTL	A	
PMARL_TXTO	E	
PMARL_USER	4A	
PMARL_XPL	2	10
PMARL_1ALIN	3	8
PMARL_1DXTXTO	5A	
PMARL_1RMOD	3	40
PMARL_1RMOD64	62	80
PMARL_1STOR	36	
PMARL_2ALIN	3	4
PMARL_2RMOD	3	20
PMARL_2RMOD64	62	40
PMARL_2STOR	3A	
PMARL_2TXTO	3E	
PMARR	0	
PMARR_DATA	2	
PMARR_END	17	
PMARR_ESDC	15	
PMARR_ESDT	13	
PMARR_FTBL	A	
PMARR_NL	9	
PMARR_ORG	C	
PMARR_RLDS	E	
PMARR_SCAT	F	
PMARR_SLEN	0	
PMARR_SLSZ	F	
PMARR_TTRN	6	
PMARR_TTRS	2	
PMARR_TTRT	2	
PMARR_TTSZ	11	
PMARR_ZERO	5	

Chapter 103. IEZEUNLD Information

IEZEUNLD Programming Interface Information

The following fields are NOT programming interface information:

- EUNLSPAC
- EUNLSPCP

IEZEUNLD Heading Information

Common Name: UNLOAD Parameter List
 Macro ID: IEZEUNLD
 DSECT Name: EUNLD
 Owning Component: ALLOCATION (SC1B4)
 Eye-Catcher ID: None
 Storage Attributes: Subpool: User's Subpool
 Key: Caller's Key
 Residency: Any
 Size: 20 Bytes
 Created by: Issuers of UNLOAD ENF Events 3 and 25
 Pointed to by: First word of parameter list pointed to by
 R1 on entry to ENF Listen Exit
 Serialization: None
 Function: Contains information passed by the signallers
 of the UNLOAD events to the listeners.

IEZEUNLD mapping

Table 457. Structure EUNLD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	EUNLD	UNLOAD PARAMETER LIST
0	(0)	SIGNED	2	EUNLEN	LENGTH OF PARAMETER LIST
2	(2)	BITSTRING	1	EUNFLGS	UNLOAD EVENT FLAGS (BYTE 1)
		1... ..		EUNPRIV	"X'80'" VOLUME IS PRIVATE IF ON
		.1.. ..		EUNPUB	"X'40'" VOLUME IS PUBLIC IF ON
		..1.		EUNSTOR	"X'20'" VOLUME IS STORAGE IF ON
		...1		EUNLSPAC	"X'10'" LSPACE BUFFER IS PRESENT IF ON
3	(3)	BITSTRING	1		UNLOAD EVENT FLAGS (BYTE 2)
4	(4)	SIGNED	4	EUNUCBP	ADDRESS OF UCB
8	(8)	SIGNED	4	EUNLSPCP	ADDRESS OF BUFFER RETURNED BY LSPACE
12	(C)	CHARACTER	6	EUNVOLS	VOLSER OF VOLUME TO BE UNLOADED
18	(12)	BITSTRING	2	EUNRSVD	-- RESERVED --
18	(12)	X'14'	0	EUNLLEN	"*-EUNLD" LENGTH OF UNLOAD PARAMETER LIST

IEZEUNLD mapping

Table 458. Cross Reference for IEZEUNLD

Name	Offset	Hex Tag
EUNFLGS	2	
EUNLD	0	
EUNLEN	0	
EUNLLEN	12	14
EUNLSPAC	2	10
EUNLSPCP	8	
EUNPRIV	2	80
EUNPUB	2	40
EUNRSVD	12	
EUNSTOR	2	20
EUNUCBP	4	
EUNVOLS	C	

Chapter 104. IEZVG100 Information

IEZVG100 Programming Interface Information

IEZVG100 is a programming interface.

IEZVG100 Heading Information

Common Name: Subsystem Console Service Routine Parameter List
Macro ID: IEZVG100
DSECT Name: SCSRPLST, SCSRTCD
Owning Component: CONSOLE (SC1CK)
Eye-Catcher ID: SCSR
Offset: 0
Length: 4
Storage Attributes: Subpool: ANY
Key: ANY
Residency: ANY
Size: 96 bytes (SCSRPLST) + 16 bytes (SCSRTCD)
SCSRPLST -- X'0060' bytes
SCSRTCD -- X'0010' bytes
Created by: CALLER OF IEAVG700
Pointed to by: N/A
Serialization: None
Function: Maps the Subsystem Console Service Routine (IEAVG700) Parameter List

IEZVG100 mapping

Table 459. Structure SCSRPLST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SCSRPLST	PARAMETER LIST FOR SUBSYSTEM CONSOLE SERVICE ROUTINE
0	(0)	CHARACTER	4	SCSACRO	ACRONYM 'SCSR'
4	(4)	BITSTRING	1	SCSVR	VERSION LEVEL
5	(5)	BITSTRING	4	SCSFUNC	Function Bytes
5	(5)	BITSTRING	1	SCSFUNC1	FIRST FUNCTION BYTE
Bit definitions:					
	1...	....		SCSOBTAN	"X'80'" OBTAIN A CONSOLE FOR USE BY A SYSTEM COMPONENT
	.1..	....		SCSDEMSEL	"X'40'" DEMAND SELECT REQUEST. SELECT THE CONSOLE WHOSE ID IS IN SCSConId (Note that the console must be a subsystem console)
	..1.	....		SCSRELSE	"X'20'" RELEASE A CONSOLE WHICH WAS DEDICATED TO A SYSTEM COMPONENT

IEZVG100 mapping

Table 459. Structure SCSRPLST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		SCSBRDON	"X'10'" CAUSE ALL MESSAGES ISSUED TO BE BROADCASTED TO ALL SUBSYSTEMS
		.... 1...		SCSBRDOF	"X'08'" CAUSE ALL MESSAGES ISSUED NOT TO BE BROADCASTED TO ALL SUBSYSTEMS
		.... .1..		SCSRTCDF	"X'04'" CHANGE THE ROUTING CODES OF A CONSOLE DEDICATED TO A SYSTEM COMPONENT **** Warning - this service is obsolete in HBB7730 and above
		.... ..1.		SCSDSTAT	"X'02'" DETERMINE STATUS OF SPECIFIED CONSOLE
		.... ...1		SCSPROTO	"X'01'" DETERMINE THE TYPE OF PROTOCOL TO BE USED TO ISSUE COMMANDS AND MONITOR MESSAGES. ALSO DETERMINE THE PRIMARY SUBSYSTEM
6	(6)	BITSTRING	1	SCSFUNC2	SECOND FUNCTION BYTE
Bit definitions:					
		1...		SCSRLGRP	"X'80'" RELEASE ONE OR MORE CONSOLES BY ASID
		.1..		SCSPMSTR	"X'40'" MAKE THE CONSOLE HAVE MASTER COMMAND AUTHORITY
		..1.		SCSNMSTR	"X'20'" MAKE THE CONSOLE TO NO LONGER HAVE MASTER COMMAND AUTHORITY
		...1		SCSAUTH	"X'10'" INDICATE AUTHORITY OF CONSOLE
		.... 1...		SCSRLCSY	"X'08'" RELEASE ONE OR MORE CONSOLES BY SYSTEM NAME. RESERVED FOR IBM USE.
7	(7)	BITSTRING	1	SCSFUNC3	THIRD FUNCTION BYTE -RESERVED
8	(8)	BITSTRING	1	SCSFUNC4	FOURTH FUNCTION BYTE-RESERVED
9	(9)	CHARACTER	4	SCSCOMP	FUNCTION COMPLETION BYTES
9	(9)	BITSTRING	1	SCSCOMP1	FIRST FUNCTION COMPLETION BYTE
Bit definitions:					
		1...		SCSOBTNC	"X'80'" OBTAIN A CONSOLE REQUEST COMPLETED
		.1..		SCSDEMSC	"X'40'" DEMAND SELECT REQUEST COMPLETED
		..1.		SCSRELSC	"X'20'" RELEASE A CONSOLE REQUEST COMPLETED
		...1		SCSBRDNC	"X'10'" REQUEST TO BROADCAST WTOS COMPLETED
		.... 1...		SCSBRDFC	"X'08'" REQUEST TO TURN OFF BROADCAST OF WTOS COMPLETED
		.... .1..		SCSRTCDC	"X'04'" CHANGE THE ROUTING CODES REQUEST COMPLETED **** Warning - this service is obsolete in HBB7730 and above
		.... ..1.		SCSSTATC	"X'02'" STATUS REQUEST COMPLETE

Table 459. Structure SCSRPLST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ...1		SCSPROTC	"X'01'" DETERMINE THE TYPE OF PROTOCOL REQUEST COMPLETED
10	(A)	BITSTRING	1	SCSCOMP2	SECOND FUNCTION COMPLETION BYTE
Bit definitions:					
		1...		SCSRGRPC	"X'80'" REQUEST TO RELEASE ONE OR MORE CONSOLES BY ASID COMPLETED
		.1..		SCSPMSTC	"X'40'" MASTER COMMAND AUTHORITY REQUEST COMPLETED
		..1.		SCSNMSTC	"X'20'" WITHDRAW MASTER COMMAND AUTHORITY REQUEST COMPLETED
		...1		SCSAUTHC	"X'10'" OBTAIN AUTHORITY OF CONSOLE REQUEST COMPLETED
		.... 1...		SCSRLSYC	"X'08'" REQUEST TO RELEASE ONE OR MORE CONSOLES BY SYSTEM NAME COMPLETED
		.... .1..		SCSRNAMC	"X'04'" A CONSOLE NAME HAS BEEN RETURNED IN SCSONAME (OBTAIN OR DEMAND SELECT)
11	(B)	BITSTRING	1	SCSCOMP3	THIRD FUNCTION COMPLETION BYTE - RESERVED
12	(C)	BITSTRING	1	SCSCOMP4	FOURTH FUNCTION COMPLETION BYTE - RESERVED
13	(D)	CHARACTER	1	SCSRSV1	RESERVED
14	(E)	SIGNED	2	SCSCASID	Reserved for IBM Use
16	(10)	CHARACTER	8	SCSNAME	NAME OF SYSTEM COMPONENT. FOR USE BY THE DISPLAY CONSOLES COMMAND
24	(18)	CHARACTER	8	SCSRSYMN	SYSTEM NAME FOR REQUEST TO RELEASE A GROUP OF CONSOLES
32	(20)	SIGNED	2	SCSCNID	CONSOLE ID ASSIGNED TO OR REQUESTED BY A SYSTEM COMPONENT Note that SCSConId must be used in HBB7730 and above
34	(22)	BITSTRING	1	SCSATI	SUBSYSTEM CONSOLE ATTENTION INDEX
35	(23)	BITSTRING	1	SCSCNSTF	CONSOLE STATUS FLAGS
Bit definitions:					
		1...		SCSNTDEF	"X'80'" CONSOLE NOT DEFINED TO MCS
		.1..		SCSCNDEF	"X'40'" CONSOLE IS DEFINED TO MCS BUT NOT CURRENTLY IN USE BY MCS
		..1.		SCSINUSE	"X'20'" CONSOLE IS IN USE BY MCS OR ALLOCATED TO ANOTHER JOB
36	(24)	CHARACTER	2	SCSFLGS	FLAGS BYTES
36	(24)	BITSTRING	1	SCSFLGS1	FLAGS
Bit definitions:					
		1...		SCSNTKWN	"X'80'" PROTOCOL TYPE IS NOT KNOWN AT THIS TIME

NOTE: TYPE 1 PROTOCOL MAY BE USED REGARDLESS OF WHETHER JES2 OR JES3 PRIMARY SUBSYSTEM IS ACTIVE.

IEZVG100 mapping

Table 459. Structure SCSRPLST (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
		.1..	....		SCSTYPE1	"X'40'" TYPE 1 PROTOCOL: USE SVC 34 TO ISSUE COMMANDS - LISTEN TO THE SUBSYSTEM INTERFACE CALLS OF 10(SVC 34) FOR COMMANDS AND 9(SVC 35) FOR MESSAGES
		...1	....		SCSPNTKN	"X'10'" PRIMARY SUBSYSTEM NOT KNOWN AT THIS TIME
		....	1...		SCSMVSC	"X'08'" The primary subsystem is not JES3
		....	.1..		SCSJES3C	"X'04'" The primary subsystem is JES3
37	(25)	BITSTRING		1	SCSFLGS2	RESERVED
38	(26)	SIGNED		2	SCSASID	ASID FOR REQUEST TO RELEASE A GROUP OF CONSOLES
40	(28)	BITSTRING		1	SCSAUTHF	AUTHORITY FLAGS OBTAINED VIA SCSAUTH
Bit definitions:						
		1...	....		SCSAUTHM	"X'80'" MASTER AUTHORITY. IT IS SUGGESTED THAT SCSAUTHP BE USED INSTEAD.
		.1..	....		SCSAUTHP	"X'40'" MASTER AUTHORITY
		..1.	....		SCSAUTH1	"X'20'" COMMAND GROUP 1 (SYS) AUTHORITY
		...1	....		SCSAUTH2	"X'10'" COMMAND GROUP 2 (I/O) AUTHORITY
		....	1...		SCSAUTH3	"X'08'" COMMAND GROUP 3 (CONS) AUTHORITY
41	(29)	CHARACTER		3	SCSRSV5	RESERVED
44	(2C)	CHARACTER		4	SCSPJESN	NAME OF THE PRIMARY JOB ENTRY SUBSYSTEM
48	(30)	ADDRESS		4	SCSRTPCDP	ADDRESS OF FIELD CONTAINING THE ROUTING CODES TO BE ASSIGNED TO THE CONSOLE **** Warning - this service is obsolete in HBB7730 and above
52	(34)	CHARACTER		4	SCSUNIT4	4-DIGIT UNIT NAME
52	(34)	CHARACTER		1		IGNORED FOR 3-DIGIT
53	(35)	CHARACTER		3	SCSUNIT	EBCDIC UNIT NAME OF REQUESTED CONSOLE (3-DIGIT) **** Warning - this service is obsolete in HBB7730 and above
56	(38)	ADDRESS		4	SCSXMCSP	POINTER TO STORAGE FOR XSUL
60	(3C)	SIGNED		4	SCSCONID	4-byte console id assigned to or requested by a system component. Use instead of SCSCNID
64	(40)	CHARACTER		8	SCSCNAME	Input console name specified by caller
72	(48)	SIGNED		4	SCSRRTN	Return code from IEAVG700
76	(4C)	CHARACTER		8	SCSONAME	Console Name returned as output (Obtain or Demand Select)
84	(54)	SIGNED		4	SCSRARSN	Abend reason code
88	(58)	CHARACTER		8	SCSRSV6	RESERVED

Table 459. Structure SCSRPLST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
THE ACRONYM AND VERSION LEVEL TO BE PLACED IN THE SUBSYSTEM CONSOLE SERVICE ROUTINE PARAMETER LIST					
88	(58)	X'C3E2D9'	0	SCSR	"C'SCSR'" ACRONYM
88	(58)	X'1'	0	SCSSP211	"1" LEVEL OS/VS2 JBB2110
88	(58)	X'2'	0	SCSSP220	"2" LEVEL OS/VS2 JBB2220
88	(58)	X'3'	0	SCSSP440	"3" LEVEL MVS/SP510
88	(58)	X'4'	0	SCS_HBB7709	"4" Level z/OS 1.6 HBB7709
88	(58)	X'8'	0	SCS_HBB7730	"8" Level z/OS 1.8 HBB7730
88	(58)	X'8'	0	SCSVERSN	"8" CURRENT VERSION LEVEL
88	(58)	X'50'	0	SCSR_LENGTH_PRE730	"80" Length of SCSR before version 8
88	(58)	X'60'	0	SCSR_LENGTH_VER730	"96" Length of Version 8 SCSR
88	(58)	X'60'	0	SCSPLEN	"96" Length of parameter list
88	(58)	X'10'	0	SCSRLEN	"16" Length of routing codes DSECT
88	(58)	X'70'	0	SCSLEN	"112" Length of both DSECTS
SUBSYSTEM CONSOLE SERVICE ROUTINE RETURN CODES RETURNED IN REGISTER 15					
88	(58)	X'0'	0	SCSR0K	"0" THE REQUESTED FUNCTIONS HAVE BEEN PERFORMED
88	(58)	X'4'	0	SCSRNTFD	"4" A CONSOLE COULD NOT BE ASSIGNED TO THE SYSTEM COMPONENT BECAUSE AN AVAILABLE CONSOLE COULD NOT BE FOUND
88	(58)	X'8'	0	SCSRNAVL	"8" THE REQUESTED CONSOLE WAS NOT AVAILABLE TO BE DEDICATED TO A SYSTEM COMPONENT.
88	(58)	X'C'	0	SCSRNCMP	"12" ONE OR MORE REQUESTED FUNCTIONS COULD NOT BE COMPLETED. CHECK SCSCOMP1, SCSCOMP2, AND SCSCOMP3 TO DETERMINE WHAT FUNCTIONS HAVE BEEN COMPLETED BY IEAVG700.
88	(58)	X'10'	0	SCSR0BS	"16" ONE OR MORE REQUESTED FUNCTIONS COULD NOT BE COMPLETED. THEY ARE OBSOLETE IN THIS AND LATER RELEASES.
88	(58)	X'60'	0	SCSRPLST_LEN	"*-SCSRPLST"

Table 460. Structure SCSRTCD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SCSRTCD	THE ROUTING CODES
0	(0)	CHARACTER	1	SCSRD01	FIRST BYTE OF ROUTING CODES
Bit definitions:					
		1...		SCSRD001	"X'80'" MASTER CONSOLE ACTION
		.1..		SCSRD002	"X'40'" MASTER CONSOLE INFORMATION
		..1.		SCSRD003	"X'20'" TAPE POOL
		...1		SCSRD004	"X'10'" DIRECT ACCESS POOL

IEZVG100 mapping

Table 460. Structure SCSRTCD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		SCSRD005	"X'08'" TAPE LIBRARY
		.... .1..		SCSRD006	"X'04'" DISK LIBRARY
		.... ..1.		SCSRD007	"X'02'" UNIT RECORD POOL
		.... ...1		SCSRD008	"X'01'" TELEPROCESSING CONTROL
1	(1)	BITSTRING	1	SCSRTD02	SECOND BYTE OF ROUTING CODES
Bit definitions:					
		1...		SCSRD009	"X'80'" SYSTEM SECURITY
		.1..		SCSRD010	"X'40'" SYSTEM/ERROR MAINTENANCE
		..1.		SCSRD011	"X'20'" PROGRAMMER INFORMATION
		...1		SCSRD012	"X'10'" EMULATOR INFORMATION
		.... 1...		SCSRD013	"X'08'" USER ROUTING CODE
		.... .1..		SCSRD014	"X'04'" USER ROUTING CODE
		.... ..1.		SCSRD015	"X'02'" USER ROUTING CODE
		.... ...1		SCSRD016	"X'01'" USER ROUTING CODE
2	(2)	BITSTRING	1	SCSRTD03	THIRD BYTE OF ROUTING CODES
Bit definitions:					
		1...		SCSRD017	"X'80'" USER ROUTING CODE
		.1..		SCSRD018	"X'40'" USER ROUTING CODE
		..1.		SCSRD019	"X'20'" USER ROUTING CODE
		...1		SCSRD020	"X'10'" USER ROUTING CODE
		.... 1...		SCSRD021	"X'08'" USER ROUTING CODE
		.... .1..		SCSRD022	"X'04'" USER ROUTING CODE
		.... ..1.		SCSRD023	"X'02'" USER ROUTING CODE
		.... ...1		SCSRD024	"X'01'" USER ROUTING CODE
3	(3)	BITSTRING	1	SCSRTD04	FOURTH BYTE OF ROUTING CODES
Bit definitions:					
		1...		SCSRD025	"X'80'" USER ROUTING CODE
		.1..		SCSRD026	"X'40'" USER ROUTING CODE
		..1.		SCSRD027	"X'20'" USER ROUTING CODE
		...1		SCSRD028	"X'10'" USER ROUTING CODE
		.... 1...		SCSRD029	"X'08'" RESERVED
		.... .1..		SCSRD030	"X'04'" RESERVED
		.... ..1.		SCSRD031	"X'02'" RESERVED
		.... ...1		SCSRD032	"X'01'" RESERVED
4	(4)	BITSTRING	1	SCSRTD05	FIFTH BYTE OF ROUTING CODES
Bit definitions:					
		1...		SCSRD033	"X'80'" RESERVED
		.1..		SCSRD034	"X'40'" RESERVED
		..1.		SCSRD035	"X'20'" RESERVED
		...1		SCSRD036	"X'10'" RESERVED
		.... 1...		SCSRD037	"X'08'" RESERVED
		.... .1..		SCSRD038	"X'04'" RESERVED
		.... ..1.		SCSRD039	"X'02'" RESERVED
		.... ...1		SCSRD040	"X'01'" RESERVED
5	(5)	BITSTRING	1	SCSRTD06	SIXTH BYTE OF ROUTING CODES
Bit definitions:					
		1...		SCSRD041	"X'80'" JOB STATUS MESSAGE

Table 460. Structure SCSRTCD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		SCSRD042	"X'40'" GENERAL INFO. ABOUT JES2 OR JES3
		..1.		SCSRD043	"X'20'" RESERVED FOR JES USAGE
		...1		SCSRD044	"X'10'" RESERVED FOR JES USAGE
		.... 1...		SCSRD045	"X'08'" RESERVED FOR JES USAGE
		.... .1..		SCSRD046	"X'04'" RESERVED FOR JES USAGE
		.... ..1.		SCSRD047	"X'02'" RESERVED FOR JES USAGE
		.... ...1		SCSRD048	"X'01'" RESERVED FOR JES USAGE
6	(6)	BITSTRING	1	SCSRD07	SEVENTH BYTE OF ROUTING CODES
Bit definitions:					
		1...		SCSRD049	"X'80'" RESERVED FOR JES USAGE
		.1..		SCSRD050	"X'40'" RESERVED FOR JES USAGE
		..1.		SCSRD051	"X'20'" RESERVED FOR JES USAGE
		...1		SCSRD052	"X'10'" RESERVED FOR JES USAGE
		.... 1...		SCSRD053	"X'08'" RESERVED FOR JES USAGE
		.... .1..		SCSRD054	"X'04'" RESERVED FOR JES USAGE
		.... ..1.		SCSRD055	"X'02'" RESERVED FOR JES USAGE
		.... ...1		SCSRD056	"X'01'" RESERVED FOR JES USAGE
7	(7)	BITSTRING	1	SCSRD08	EIGHTH BYTE OF ROUTING CODES
Bit definitions:					
		1...		SCSRD057	"X'80'" RESERVED FOR JES USAGE
		.1..		SCSRD058	"X'40'" RESERVED FOR JES USAGE
		..1.		SCSRD059	"X'20'" RESERVED FOR JES USAGE
		...1		SCSRD060	"X'10'" RESERVED FOR JES USAGE
		.... 1...		SCSRD061	"X'08'" RESERVED FOR JES USAGE
		.... .1..		SCSRD062	"X'04'" RESERVED FOR JES USAGE
		.... ..1.		SCSRD063	"X'02'" RESERVED FOR JES USAGE
		.... ...1		SCSRD064	"X'01'" RESERVED FOR JES USAGE
8	(8)	BITSTRING	1	SCSRD09	NINTH BYTE OF ROUTING CODES
Bit definitions:					
		1...		SCSRD065	"X'80'" PROCESSOR RELATED MESSAGE
		.1..		SCSRD066	"X'40'" PROCESSOR RELATED MESSAGE
		..1.		SCSRD067	"X'20'" PROCESSOR RELATED MESSAGE
		...1		SCSRD068	"X'10'" PROCESSOR RELATED MESSAGE
		.... 1...		SCSRD069	"X'08'" PROCESSOR RELATED MESSAGE
		.... .1..		SCSRD070	"X'04'" PROCESSOR RELATED MESSAGE
		.... ..1.		SCSRD071	"X'02'" PROCESSOR RELATED MESSAGE
		.... ...1		SCSRD072	"X'01'" PROCESSOR RELATED MESSAGE
9	(9)	BITSTRING	1	SCSRD10	TENTH BYTE OF ROUTING CODES
Bit definitions:					
		1...		SCSRD073	"X'80'" PROCESSOR RELATED MESSAGE

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Table 460. Structure SCSRTCD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		SCSRD074	"X'40'" PROCESSOR RELATED MESSAGE
		..1.		SCSRD075	"X'20'" PROCESSOR RELATED MESSAGE
		...1		SCSRD076	"X'10'" PROCESSOR RELATED MESSAGE
		.... 1..		SCSRD077	"X'08'" PROCESSOR RELATED MESSAGE
		.... .1..		SCSRD078	"X'04'" PROCESSOR RELATED MESSAGE
		.... ..1.		SCSRD079	"X'02'" PROCESSOR RELATED MESSAGE
		.... ...1		SCSRD080	"X'01'" PROCESSOR RELATED MESSAGE
10	(A)	BITSTRING	1	SCSRD11	ELEVENTH BYTE OF ROUTING CODES
Bit definitions:					
		1...		SCSRD081	"X'80'" PROCESSOR RELATED MESSAGE
		.1..		SCSRD082	"X'40'" PROCESSOR RELATED MESSAGE
		..1.		SCSRD083	"X'20'" PROCESSOR RELATED MESSAGE
		...1		SCSRD084	"X'10'" PROCESSOR RELATED MESSAGE
		.... 1..		SCSRD085	"X'08'" PROCESSOR RELATED MESSAGE
		.... .1..		SCSRD086	"X'04'" PROCESSOR RELATED MESSAGE
		.... ..1.		SCSRD087	"X'02'" PROCESSOR RELATED MESSAGE
		.... ...1		SCSRD088	"X'01'" PROCESSOR RELATED MESSAGE
11	(B)	BITSTRING	1	SCSRD12	TWELFTH BYTE OF ROUTING CODES
Bit definitions:					
		1...		SCSRD089	"X'80'" PROCESSOR RELATED MESSAGE
		.1..		SCSRD090	"X'40'" PROCESSOR RELATED MESSAGE
		..1.		SCSRD091	"X'20'" PROCESSOR RELATED MESSAGE
		...1		SCSRD092	"X'10'" PROCESSOR RELATED MESSAGE
		.... 1..		SCSRD093	"X'08'" PROCESSOR RELATED MESSAGE
		.... .1..		SCSRD094	"X'04'" PROCESSOR RELATED MESSAGE
		.... ..1.		SCSRD095	"X'02'" PROCESSOR RELATED MESSAGE
		.... ...1		SCSRD096	"X'01'" PROCESSOR RELATED MESSAGE
12	(C)	BITSTRING	1	SCSRD13	THIRTEENTH BYTE OF ROUTING CODES
Bit definitions:					

Table 460. Structure SCSRTCD (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
		1... ..	....		SCSRD097	"X'80'" DEVICE RELATED MESSAGE
		.1.. ..	....		SCSRD098	"X'40'" DEVICE RELATED MESSAGE
		..1. ..	....		SCSRD099	"X'20'" DEVICE RELATED MESSAGE
		...1 ..	....		SCSRD100	"X'10'" DEVICE RELATED MESSAGE
		.... 1..	....		SCSRD101	"X'08'" DEVICE RELATED MESSAGE
		.... .1..	....		SCSRD102	"X'04'" DEVICE RELATED MESSAGE
		.... ..1.	....		SCSRD103	"X'02'" DEVICE RELATED MESSAGE
		.... ...1	....		SCSRD104	"X'01'" DEVICE RELATED MESSAGE
13	(D)	BITSTRING		1	SCSRTD14	FOURTEENTH BYTE OF ROUTING CODES
Bit definitions:						
		1... ..	....		SCSRD105	"X'80'" DEVICE RELATED MESSAGE
		.1.. ..	....		SCSRD106	"X'40'" DEVICE RELATED MESSAGE
		..1. ..	....		SCSRD107	"X'20'" DEVICE RELATED MESSAGE
		...1 ..	....		SCSRD108	"X'10'" DEVICE RELATED MESSAGE
		.... 1..	....		SCSRD109	"X'08'" DEVICE RELATED MESSAGE
		.... .1..	....		SCSRD110	"X'04'" DEVICE RELATED MESSAGE
		.... ..1.	....		SCSRD111	"X'02'" DEVICE RELATED MESSAGE
		.... ...1	....		SCSRD112	"X'01'" DEVICE RELATED MESSAGE
14	(E)	BITSTRING		1	SCSRTD15	FIFTEENTH BYTE OF ROUTING CODES
Bit definitions:						
		1... ..	....		SCSRD113	"X'80'" DEVICE RELATED MESSAGE
		.1.. ..	....		SCSRD114	"X'40'" DEVICE RELATED MESSAGE
		..1. ..	....		SCSRD115	"X'20'" DEVICE RELATED MESSAGE
		...1 ..	....		SCSRD116	"X'10'" DEVICE RELATED MESSAGE
		.... 1..	....		SCSRD117	"X'08'" DEVICE RELATED MESSAGE
		.... .1..	....		SCSRD118	"X'04'" DEVICE RELATED MESSAGE
		.... ..1.	....		SCSRD119	"X'02'" DEVICE RELATED MESSAGE
		.... ...1	....		SCSRD120	"X'01'" DEVICE RELATED MESSAGE
15	(F)	BITSTRING		1	SCSRTD16	SIXTEENTH BYTE OF ROUTING CODES
Bit definitions:						
		1... ..	....		SCSRD121	"X'80'" DEVICE RELATED MESSAGE
		.1.. ..	....		SCSRD122	"X'40'" DEVICE RELATED MESSAGE
		..1. ..	....		SCSRD123	"X'20'" DEVICE RELATED MESSAGE
		...1 ..	....		SCSRD124	"X'10'" DEVICE RELATED MESSAGE
		.... 1..	....		SCSRD125	"X'08'" DEVICE RELATED MESSAGE
		.... .1..	....		SCSRD126	"X'04'" DEVICE RELATED MESSAGE
		.... ..1.	....		SCSRD127	"X'02'" DEVICE RELATED MESSAGE
		.... ...1	....		SCSRD128	"X'01'" DEVICE RELATED MESSAGE
16	(10)	X'10'		0	SCSRTCD_LEN	"*-SCSRTCD"

Table 461. Cross Reference for IEZVG100

Name	Offset	Hex Tag
SCS_HBB7709	58	4
SCS_HBB7730	58	8
SCSACRO	0	
SCSASID	26	
SCSATI	22	
SCSAUTH	6	10

IEZVG100 mapping

Table 461. Cross Reference for IEZVG100 (continued)

Name	Offset	Hex Tag
SCSAUTHC	A	10
SCSAUTHF	28	
SCSAUTHM	28	80
SCSAUTHP	28	40
SCSAUTH1	28	20
SCSAUTH2	28	10
SCSAUTH3	28	8
SCSBRDFC	9	8
SCSBRDNC	9	10
SCSBRDOF	5	8
SCSBRDON	5	10
SCSCASID	E	
SCSCNAME	40	
SCSCNDEF	23	40
SCSCNID	20	
SCSCNSTF	23	
SCSCOMP	9	
SCSCOMP1	9	
SCSCOMP2	A	
SCSCOMP3	B	
SCSCOMP4	C	
SCSCONID	3C	
SCSDEMSC	9	40
SCSDEMSL	5	40
SCSDSTAT	5	2
SCSFLGS	24	
SCSFLGS1	24	
SCSFLGS2	25	
SCSFUNC	5	
SCSFUNC1	5	
SCSFUNC2	6	
SCSFUNC3	7	
SCSFUNC4	8	
SCSINUSE	23	20
SCSJES3C	24	4
SCSLEN	58	70
SCSMVSC	24	8
SCSNAME	10	
SCSNMSTC	A	20
SCSNMSTR	6	20
SCSNTDEF	23	80
SCSNTKWN	24	80
SCSOBTAN	5	80
SCSOBTNC	9	80
SCSONAME	4C	
SCSPJESN	2C	
SCSPLEN	58	60
SCSPMSTC	A	40
SCSPMSTR	6	40

Table 461. Cross Reference for IEZVG100 (continued)

Name	Offset	Hex Tag
SCSPNTKN	24	10
SCSPROTC	9	1
SCSPROTO	5	1
SCSR	58	C3E2D9
SCSR_LENGTH_PRE730	58	50
SCSR_LENGTH_VER730	58	60
SCSRARSN	54	
SCSRD001	0	80
SCSRD002	0	40
SCSRD003	0	20
SCSRD004	0	10
SCSRD005	0	8
SCSRD006	0	4
SCSRD007	0	2
SCSRD008	0	1
SCSRD009	1	80
SCSRD010	1	40
SCSRD011	1	20
SCSRD012	1	10
SCSRD013	1	8
SCSRD014	1	4
SCSRD015	1	2
SCSRD016	1	1
SCSRD017	2	80
SCSRD018	2	40
SCSRD019	2	20
SCSRD020	2	10
SCSRD021	2	8
SCSRD022	2	4
SCSRD023	2	2
SCSRD024	2	1
SCSRD025	3	80
SCSRD026	3	40
SCSRD027	3	20
SCSRD028	3	10
SCSRD029	3	8
SCSRD030	3	4
SCSRD031	3	2
SCSRD032	3	1
SCSRD033	4	80
SCSRD034	4	40
SCSRD035	4	20
SCSRD036	4	10
SCSRD037	4	8
SCSRD038	4	4
SCSRD039	4	2
SCSRD040	4	1
SCSRD041	5	80
SCSRD042	5	40

IEZVG100 mapping

Table 461. Cross Reference for IEZVG100 (continued)

Name	Offset	Hex Tag
SCSRD043	5	20
SCSRD044	5	10
SCSRD045	5	8
SCSRD046	5	4
SCSRD047	5	2
SCSRD048	5	1
SCSRD049	6	80
SCSRD050	6	40
SCSRD051	6	20
SCSRD052	6	10
SCSRD053	6	8
SCSRD054	6	4
SCSRD055	6	2
SCSRD056	6	1
SCSRD057	7	80
SCSRD058	7	40
SCSRD059	7	20
SCSRD060	7	10
SCSRD061	7	8
SCSRD062	7	4
SCSRD063	7	2
SCSRD064	7	1
SCSRD065	8	80
SCSRD066	8	40
SCSRD067	8	20
SCSRD068	8	10
SCSRD069	8	8
SCSRD070	8	4
SCSRD071	8	2
SCSRD072	8	1
SCSRD073	9	80
SCSRD074	9	40
SCSRD075	9	20
SCSRD076	9	10
SCSRD077	9	8
SCSRD078	9	4
SCSRD079	9	2
SCSRD080	9	1
SCSRD081	A	80
SCSRD082	A	40
SCSRD083	A	20
SCSRD084	A	10
SCSRD085	A	8
SCSRD086	A	4
SCSRD087	A	2
SCSRD088	A	1
SCSRD089	B	80
SCSRD090	B	40
SCSRD091	B	20

Table 461. Cross Reference for IEZVG100 (continued)

Name	Offset	Hex Tag
SCSRD092	B	10
SCSRD093	B	8
SCSRD094	B	4
SCSRD095	B	2
SCSRD096	B	1
SCSRD097	C	80
SCSRD098	C	40
SCSRD099	C	20
SCSRD100	C	10
SCSRD101	C	8
SCSRD102	C	4
SCSRD103	C	2
SCSRD104	C	1
SCSRD105	D	80
SCSRD106	D	40
SCSRD107	D	20
SCSRD108	D	10
SCSRD109	D	8
SCSRD110	D	4
SCSRD111	D	2
SCSRD112	D	1
SCSRD113	E	80
SCSRD114	E	40
SCSRD115	E	20
SCSRD116	E	10
SCSRD117	E	8
SCSRD118	E	4
SCSRD119	E	2
SCSRD120	E	1
SCSRD121	F	80
SCSRD122	F	40
SCSRD123	F	20
SCSRD124	F	10
SCSRD125	F	8
SCSRD126	F	4
SCSRD127	F	2
SCSRD128	F	1
SCSRELSC	9	20
SCSRELSE	5	20
SCSRGRPC	A	80
SCSRLCSY	6	8
SCSRLEN	58	10
SCSRLGRP	6	80
SCSRLSYC	A	8
SCSRNAMC	A	4
SCSRNAVL	58	8
SCSRNCMP	58	C
SCSRNTFD	58	4
SCSROBS	58	10

IEZVG100 mapping

Table 461. Cross Reference for IEZVG100 (continued)

Name	Offset	Hex Tag
SCSR0K	58	0
SCSRPLST	0	
SCSRPLST_LEN	58	60
SCSRRTN	48	
SCSRSV1	D	
SCSRSV5	29	
SCSRSV6	58	
SCSRSYNM	18	
SCSRTCD	0	
SCSRTCD_LEN	10	10
SCSRTCDC	9	4
SCSRTCDF	5	4
SCSRTCDP	30	
SCSRTD01	0	
SCSRTD02	1	
SCSRTD03	2	
SCSRTD04	3	
SCSRTD05	4	
SCSRTD06	5	
SCSRTD07	6	
SCSRTD08	7	
SCSRTD09	8	
SCSRTD10	9	
SCSRTD11	A	
SCSRTD12	B	
SCSRTD13	C	
SCSRTD14	D	
SCSRTD15	E	
SCSRTD16	F	
SCSSP211	58	1
SCSSP220	58	2
SCSSP440	58	3
SCSSTATC	9	2
SCSTYPE1	24	40
SCSUNIT	35	
SCSUNIT4	34	
SCSVR	4	
SCSVERSN	58	8
SCSXM CSP	38	

Chapter 105. IFAEDIDF Information

IFAEDIDF Programming Interface Information

IFAEDIDF is a programming interface.

IFAEDIDF Heading Information

Common Name: IFAEDxxx IDF (return codes and output areas)
Macro ID: IFAEDIDF
DSECT Name: EDOI EDAAHDR EDAAE
Owning Component: SMF (SC100)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: Caller-supplied
Key: Caller-supplied
Residency: Caller-supplied
Size: Variable
EDOI -- X'0010' bytes
EDAAE -- X'0048' bytes
EDAAHDR -- X'0020' bytes
Created by: Caller and passed as parameter on ANSAREA parameter
on call to IFAEDLIS
Caller and passed as parameter on OUTPUTINFO parameter
on call to IFAEDSTA
Pointed to by: IFAEDLIS parameter list
IFAEDSTA parameter list
Serialization: None required
Function: Provides return code equates for the IFAEDxxx services.
Maps the ansarea data returned by the IFAEDLIS service.
Maps the outputinfo data returned by the IFAEDSTA service.
For IFAEDSTA, the EDOI DSECT maps the outputinfo area.
For IFAEDLIS,
the returned information consists of a header (EDAAHDR)
which indicates how many Registered entries
(EdaahNumR, first address in EdaahFirstRAddr) and State entries
(EdaahNumS, first address in EdaahFirstSAddr) follow.
There is also 0 or 1 Status entry (address in EdaahStatusAddr, or
0) to indicate the policy entry that would be used to determine
the state of the given product.
Registered, state, and status entries are all mapped by Edaae.
Certain fields apply only to one or the other, and are
commented appropriately.

IFAEDIDF mapping

Table 462. Structure EDOI

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	EDOI	
0	(0)	BITSTRING	1	EDOIFLAGS	
		1...		EDOIREGISTERED	"X'80'" The product is registered

IFAEDIDF mapping

Table 462. Structure EDOI (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
	.1..	....		EDOISTATUSNOTDEFINED	"X'40'" The product is not known to be enabled or disabled.
	..1.	....		EDOISTATUSENABLED	"X'20'" The product is enabled.
	...1	....		EDOINOTALLFEATURESRETURNED	"X'10'" The featureslen area was too small to hold the features provided at registration time. Field EdoiNeededFeaturesLen contains the size provided at registration time.
1	(1)	CHARACTER	3		
4	(4)	SIGNED	4	EDOINEEDEDFEATURESLEN	The featureslen size provided at registration time.
8	(8)	CHARACTER	6	EDOIPRODVERSRELMOD	
8	(8)	CHARACTER	2	EDOIPRODVERS	The version information provided at registration time.
10	(A)	CHARACTER	2	EDOIPRODREL	The release information provided at registration time.
12	(C)	CHARACTER	2	EDOIPRODMOD	The mod level information provided at registration time.
14	(E)	CHARACTER	2		

Constants for Parameters and Return Codes
Product Enable/Disable Register Constants

14	(E)	X'0'	0	IFAEDREG_TYPE_STANDARD	"0"
14	(E)	X'2'	0	IFAEDREG_TYPE_REQUIRED	"2" The register request should complete even if the policy indicates that the product is disabled. This would be used when registering solely so your status can be queried.
14	(E)	X'4'	0	IFAEDREG_TYPE_NOREPORT	"4" The register request should not be reported upon by display command and SMF report. This might be used when registering solely so the status can be queried.
14	(E)	X'8'	0	IFAEDREG_TYPE_LICENSEDUNDERPROD	"8" The registering feature is not separately licensed. Rather, the license is associated with the product specified by the prodname parameter.
14	(E)	X'10'	0	IFAEDREG_TYPE_DISABLEDMESSAGE	"16" If the product is found to be disabled, have the system issue the appropriate message, rather than the caller having to do it.
14	(E)	X'20'	0	IFAEDREG_TYPE_NOTFOUNDDISABLED	"32" If no enable/disable policy entry matches this product, treat the product as disabled, rather than treating it as enabled.

Table 462. Structure EDOI (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
Product Enable/Disable Register Return Codes					
Note: 0C4 abend if bad address provided in parmlist or user data					
14	(E) X'0'		0	IFAEDREG_SUCCESS	"0" Register service completed successfully
14	(E) X'4'		0	IFAEDREG_DISABLED	"4" Register service found that the product is disabled and therefore the register service was not accepted.
14	(E) X'8'		0	IFAEDREG_NOTAVAILABLE	"8" Register service is not available on this system.
14	(E) X'C'		0	IFAEDREG_LIMITEXCEEDED	"12" too many unauthorized registrations for this address space
14	(E) X'10'		0	IFAEDREG_NOTTASKMODE	"16" Register service was not called in task mode.
14	(E) X'14'		0	IFAEDREG_XM	"20" Register service was not called with P=H=S
14	(E) X'18'		0	IFAEDREG_BADFEATURESLEN	"24" Features length exceeds 1024.
14	(E) X'1C'		0	IFAEDREG_NOSTORAGE	"28" The system could not obtain needed storage.
14	(E) X'20'		0	IFAEDREG_BADTYPE	"32" The type parameter did not specify a word with a value formed from adding any combination of Ifaedreg_Type_Standard, Ifaedreg_Type_Required, Ifaedreg_Type_NoReport, Ifaedreg_Type_LicensedUnderProd, Ifaedreg_Type_DisabledMessage, and Ifaedreg_Type_NotFoundDisabled
14	(E) X'24'		0	IFAEDREG_LOCKED	"36" Register service was called holding a system lock
14	(E) X'28'		0	IFAEDREG_FRR	"40" Register service was called having an FRR
Product Enable/Disable Deregister Return Codes					
Note: 0C4 abend if bad address provided in parmlist or user data					
14	(E) X'0'		0	IFAEDDRG_SUCCESS	"0" Deregister service completed successfully
14	(E) X'8'		0	IFAEDDRG_NOTAVAILABLE	"8" Deregister service is not available on this system.
14	(E) X'C'		0	IFAEDDRG_NOTREGISTERED	"12" The product that was to be deregistered had not been registered
14	(E) X'10'		0	IFAEDDRG_NOTTASKMODE	"16" deregister service was not called in task mode.
14	(E) X'14'		0	IFAEDDRG_XM	"20" Deregister service was not called with P=H=S

IFAEDIDF mapping

Table 462. Structure EDOI (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
14	(E) X'18'		0	IFAEDDRG_NOTAUTH	"24" If not supervisor state, system key, or system PKM, the entry to be deregistered must be registered from the same address space and must have been registered by an equally non-authorized caller.
14	(E) X'24'		0	IFAEDDRG_LOCKED	"36" Deregister service was called holding a system lock
14	(E) X'28'		0	IFAEDDRG_FRR	"40" Deregister service was called having an FRR
Product Enable/Disable Status Return Codes					
Note: 0C4 abend if bad address provided in parmlist or user data					
14	(E) X'0'		0	IFAEDSTA_SUCCESS	"0" Status service completed successfully
14	(E) X'4'		0	IFAEDSTA_NOTDEFINED	"4" The status service found no entry corresponding to the input product.
14	(E) X'8'		0	IFAEDSTA_NOTAVAILABLE	"8" Status service is not available on this system.
14	(E) X'10'		0	IFAEDSTA_NOTTASKMODE	"16" Status service was not called in task mode.
14	(E) X'14'		0	IFAEDSTA_XM	"20" Status service was not called with P=H=S
14	(E) X'24'		0	IFAEDSTA_LOCKED	"36" Status service was called holding a system lock
14	(E) X'28'		0	IFAEDSTA_FRR	"40" Status service was called having an FRR
Product Enable/Disable List Constants					
14	(E) X'1'		0	IFAEDLIS_TYPE_REGISTERED	"1" Return the registration entry/entries corresponding to the input product.
14	(E) X'2'		0	IFAEDLIS_TYPE_STATE	"2" Return the state entry/entries corresponding to the input product.
14	(E) X'4'		0	IFAEDLIS_TYPE_STATUS	"4" Return the status entry corresponding to the input product.
14	(E) X'8'		0	IFAEDLIS_TYPE_NOREPORT	"8" When returning registration entries, include those for which the IFAEDREG call specified Ifaedreg_Type_NoReport. If not requested, those entries are not returned.
Product Enable/Disable List Return Codes					
Note: 0C4 abend if bad address provided in parmlist or user data					
14	(E) X'0'		0	IFAEDLIS_SUCCESS	"0" List service completed successfully
14	(E) X'4'		0	IFAEDLIS_NOTALLDATARETURNED	

Table 462. Structure EDOI (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"4" List service had more data to return that would fit in the provided answer area. All the complete entries that would fit were returned.
14	(E) X'8'		0	IFAEDLIS_NOTAVAILABLE	"8" List service is not available on this system.
14	(E) X'C'		0	IFAEDLIS_ANSAREATOOSMALL	"12" The answer area, indicated by the answer len parameter is not large enough to hold the answer area header (DSECT EdaahDR).
14	(E) X'10'		0	IFAEDLIS_NOTTASKMODE	"16" List service was not called in task mode.
14	(E) X'14'		0	IFAEDLIS_XM	"20" List service was not called with P=H=S
14	(E) X'20'		0	IFAEDLIS_BADTYPE	"32" The type parameter did not specify a word with a value formed from adding any combination of IFAEDLIS_TYPE_REGISTERED, IFAEDLIS_TYPE_STATE, IFAEDLIS_TYPE_STATUS, and IFAEDLIS_TYPE_NOREPORT.
14	(E) X'24'		0	IFAEDLIS_LOCKED	"36" List service was called holding a system lock
14	(E) X'28'		0	IFAEDLIS_FRR	"40" List service was called having an FRR
14	(E) X'10'		0	EDOI_LEN	"*-EDOI"

Table 463. Structure EDAAHDR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	EDAAHDR	Header section
0	(0)	SIGNED	4	EDAAHNUMR	Number of Edaae entries which follow indicating registered entries. The first one is pointed to by EdaahFirstRAddr.
4	(4)	SIGNED	4	EDAAHNUMS	Number of Edaae entries which follow indicating state entries. The first one is pointed to by EdaahFirstSAddr.
8	(8)	SIGNED	4	EDAAHTLEN	Total length of answer area needed to contain all the requested information. This includes the area for the records that were returned on this call.
12	(C)	ADDRESS	4	EDAAHFIRSTRADDR	Address of first registered entry Edaae
16	(10)	ADDRESS	4	EDAAHFIRSTSADDR	Address of first state entry Edaae

IFAEDIDF mapping

Table 463. Structure EDAAHDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
20	(14)	ADDRESS	4	EDAAHSTATUSADDR	Address of the entry that represents the policy entry that would be used to determine if the input product was enabled. 0 if no such policy entry exists.
24	(18)	CHARACTER	8		Unused
24	(18)	X'20'	0	EDAAHDR_LEN	"*-EDAAHDR"

Table 464. Structure EDAAE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	EDAAE	Edaae Record data format
0	(0)	ADDRESS	4	EDAAENEXTADDR	Address of next Edaae. EdaahNumR (for the registered queue) or EdaahNumS (for the state queue) must be used to determine how far along this chain to go. Not relevant for EdaahStatusAddr.
4	(4)	CHARACTER	62	EDAAEINFO	
4	(4)	CHARACTER	16	EDAAEPRODOWNER	Product owner
20	(14)	CHARACTER	16	EDAAEPRODNAME	Product name
36	(24)	CHARACTER	16	EDAAEFEATURENAME	Feature name
52	(34)	CHARACTER	2	EDAAEPRODVERS	Product version
54	(36)	CHARACTER	2	EDAAEPRODREL	Product release
56	(38)	CHARACTER	2	EDAAEPRODMOD	Product mod level
58	(3A)	CHARACTER	8	EDAAEPRODID	Product ID
66	(42)	BITSTRING	1	EDAAEFLAGS	Flags
		1...		EDAAESTATUSNOTDEFINED	"X'80" This will never be on for entries on the state queue. If on, indicates that the state information does not have an entry that matches this product.
		.1..		EDAAESTATUSENABLED	"X'40" If on, indicates that the product is considered to be enabled
		..1.		EDAAENOREPORT	"X'20" If on, indicates that the product registered with Ifaereg_Type_Noreport. This will never on for entries on the state queue.
		...1		EDAAELICENSEDUNDERPROD	"X'10" If on, indicates that the product registered with Ifaereg_Type_LicensedUnderProd. This will never on for entries on the state queue.
67	(43)	CHARACTER	1		Unused
68	(44)	SIGNED	4	EDAAENUMINSTANCES	Number of concurrent instances of this registration
68	(44)	X'48'	0	EDAAE_LEN	"*-EDAAE"

Table 465. Cross Reference for IFAEDIDF

Name	Offset	Hex Tag
EDAAE	0	
EDAAE_LEN	44	48
EDAAEFEATURENAME	24	
EDAAEFLAGS	42	
EDAAEINFO	4	
EDAAELICENSEDUNDERPROD	42	10
EDAAENEXTADDR	0	
EDAAENOREPORT	42	20
EDAAENUMINSTANCES	44	
EDAAEPRODID	3A	
EDAAEPRODMOD	38	
EDAAEPRODNAME	14	
EDAAEPRODOWNER	4	
EDAAEPRODREL	36	
EDAAEPRODVERS	34	
EDAAESTATUSENABLED	42	40
EDAAESTATUSNOTDEFINED	42	80
EDAAHDR	0	
EDAAHDR_LEN	18	20
EDAAHFIRSTRADDR	C	
EDAAHFIRSTSADDR	10	
EDAAHNUMR	0	
EDAAHNUMS	4	
EDAAHSTATUSADDR	14	
EDAAHTLEN	8	
EDOI	0	
EDOI_LEN	E	10
EDOIFLAGS	0	
EDOINEEDEDFEATURESLEN	4	
EDOINOTALLFEATURESRETURNED	0	10
EDOIPRODMOD	C	
EDOIPRODREL	A	
EDOIPRODVERS	8	
EDOIPRODVERSRELMOD	8	
EDOIREGISTERED	0	80
EDOISTATUSENABLED	0	20
EDOISTATUSNOTDEFINED	0	40
IFAEDDRG_FRR	E	28
IFAEDDRG_LOCKED	E	24
IFAEDDRG_NOTAUTH	E	18
IFAEDDRG_NOTAVAILABLE	E	8
IFAEDDRG_NOTREGISTERED	E	C
IFAEDDRG_NOTTASKMODE	E	10
IFAEDDRG_SUCCESS	E	0
IFAEDDRG_XM	E	14
IFAEDLIS_ANSAREATOOSMALL	E	C
IFAEDLIS_BADTYPE	E	20
IFAEDLIS_FRR	E	28
IFAEDLIS_LOCKED	E	24

IFAEDIDF mapping

Table 465. Cross Reference for IFAEDIDF (continued)

Name	Offset	Hex Tag
IFAEDLIS_NOTALLDATARETURNED	E	4
IFAEDLIS_NOTAVAILABLE	E	8
IFAEDLIS_NOTTASKMODE	E	10
IFAEDLIS_SUCCESS	E	0
IFAEDLIS_TYPE_NOREPORT	E	8
IFAEDLIS_TYPE_REGISTERED	E	1
IFAEDLIS_TYPE_STATE	E	2
IFAEDLIS_TYPE_STATUS	E	4
IFAEDLIS_XM	E	14
IFAEDREG_BADFEATURESLEN	E	18
IFAEDREG_BADTYPE	E	20
IFAEDREG_DISABLED	E	4
IFAEDREG_FRR	E	28
IFAEDREG_LIMITEXCEEDED	E	C
IFAEDREG_LOCKED	E	24
IFAEDREG_NOSTORAGE	E	1C
IFAEDREG_NOTAVAILABLE	E	8
IFAEDREG_NOTTASKMODE	E	10
IFAEDREG_SUCCESS	E	0
IFAEDREG_TYPE_DISABLEDMESSAGE	E	10
IFAEDREG_TYPE_LICENSEDUNDERPROD	E	8
IFAEDREG_TYPE_NOREPORT	E	4
IFAEDREG_TYPE_NOTFOUNDDISABLED	E	20
IFAEDREG_TYPE_REQUIRED	E	2
IFAEDREG_TYPE_STANDARD	E	0
IFAEDREG_XM	E	14
IFAEDSTA_FRR	E	28
IFAEDSTA_LOCKED	E	24
IFAEDSTA_NOTAVAILABLE	E	8
IFAEDSTA_NOTDEFINED	E	4
IFAEDSTA_NOTTASKMODE	E	10
IFAEDSTA_SUCCESS	E	0
IFAEDSTA_XM	E	14

Chapter 106. IFAENF37 Information

IFAENF37 Programming Interface Information

IFAENF37 is a programming interface.

IFAENF37 Heading Information

Common Name: SMF MAPPING MACRO FOR EVENT CODE 37
 Macro ID: IFAENF37
 DSECT Name: ENF37 (For SMF Interval Sync Support)
 Owing Component: System Management Facilities (SC100)
 Eye-Catcher ID: ENF37
 Offset: 0
 Length: 6
 Storage Attributes: Subpool: 245
 Key: 0
 Residency: Above
 Size: 26 bytes ('1A' in hex)
 FREQUENCY = 1 per ENF (Event Code #37) Signal
 Created by: SMF
 Pointed to by: N/A
 Serialization: None
 Function: SMF Mapping Macro for ENF (Event Code #37) users

IFAENF37 mapping

Table 466. Structure ENF37

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ENF37	SMF ENF Parameter List for Interval SYNC Support
0	(0)	CHARACTER	6	ENF37ID	- Control Block Id - "ENF37 "
6	(6)	CHARACTER	2	ENF37VER	- Parameter List Version
8	(8)	SIGNED	2	ENF37LEN	- Parameter List Length
10	(A)	CHARACTER	2	ENF37RSV	- Reserved
12	(C)	CHARACTER	4	ENF37QLF	- Qualifier Code
16	(10)	CHARACTER	8	ENF37TOD	- SYNC Event Value (in TOD format) Used only for INTVAL parm change, SYNCVAL parm change, or SYNC interval expired events.
24	(18)	CHARACTER	2	ENF37CHR	- SYNC Event Value (in character format) Used only for INTVAL or SYNCVAL parm change events.
24	(18)	X'1A'	0	ENF37END	"*" End of ENF37 Mapping
0	(0)	SIGNED	4	(0)	Word Boundary Alignment
0	(0)	BITSTRING	4	ENF37Q00	SMF Active
4	(4)	BITSTRING	4	ENF37Q01	SMF Terminated
8	(8)	BITSTRING	4	ENF37Q02	SMF INTVAL Parm Changed
12	(C)	BITSTRING	4	ENF37Q03	SMF SYNCVAL Parm Changed
16	(10)	BITSTRING	4	ENF37Q04	SMF SYNC Interval Expired

IFAENF37 mapping

Table 466. Structure ENF37 (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
20	(14)	BITSTRING		4	ENF37Q05	SMF Interval SYNC Error
24	(18)	BITSTRING		4	ENF37Q06	SMF Processor Capacity Change intrvl
28	(1C)	CHARACTER		6	ENF37CID	'ENF37 ' EBCDIC
34	(22)	CHARACTER		2	ENF37V1	Version 1 Indicator

Table 467. Cross Reference for IFAENF37

Name	Offset	Hex Tag
ENF37	0	
ENF37CHR	18	
ENF37CID	1C	C5D5C6F3
ENF37END	18	1A
ENF37ID	0	
ENF37LEN	8	
ENF37QLF	C	
ENF37Q00	0	80000000
ENF37Q01	4	40000000
ENF37Q02	8	20000000
ENF37Q03	C	10000000
ENF37Q04	10	80000000
ENF37Q05	14	40000000
ENF37Q06	18	20000000
ENF37RSV	A	
ENF37TOD	10	
ENF37VER	6	
ENF37V1	22	F0F1

Chapter 107. IFAQUAA Information

IFAUQAA Programming Interface Information

IFAUQAA is a programming interface.

IFAUQAA Heading Information

Common Name: SMF Query Answer Area
Macro ID: IFAQUAA
DSECT Name: QUAHDR QUALS QUAPS QUAFS
Owning Component: System Management Facility (SC100)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: Caller-supplied
Key: Caller-supplied
Residency: Caller-supplied
Size: Variable
QUAFSTYPE -- X'0021' bytes
QUAPSTYPE -- X'0030' bytes
QUAHDRTYPE -- X'0010' bytes
QUALSTYPE -- X'0074' bytes
Created by: Caller and passed as parameter on ANSAREA keyword
on IFAQQUERY invocation
Pointed to by: IFAQQUERY parameter list
Serialization: None required
Function: Maps the data returned by the IFAQQUERY macro request.

IFAUQAA mapping

Table 468. Structure QUAHDRTYPE

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	QUAHDRTYPE	Header section
0	(0)	SIGNED	4	QUAH#REC	Number of QUALS or QUADS records which follow. Note: this field is zero with zero return code, when the service could not find any records and SMF is recording
4	(4)	SIGNED	4	QUAH#REM	Number of QUALS or QUADS records which were not returned because of insufficient space
8	(8)	SIGNED	4	QUAHTLEN	Total length of answer area needed to contain all the requested information. This includes the area for the records that were returned on this call.
12	(C)	SIGNED	4	QUAHDOFF	Offset from QUAHDR to the first data record.
12	(C)	X'10'	0	QUAHDRTYPE_LEN	"*-QUAHDRTYPE"

IFAQUAA mapping

Table 469. Structure QUALSTYPE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	QUALSTYPE	Logstream Record data format
0	(0)	BITSTRING	1	QUALSTYP	X'02' Logstream record, X'82' last Logstream record
1	(1)	BITSTRING	1		Reserved X'00'
2	(2)	SIGNED	2	QUALSLEN	Length of Logstream record
4	(4)	CHARACTER	26	QUALSNAME	Logstream name
30	(1E)	SIGNED	2		Reserved
32	(20)	CHARACTER	32	QUALSREC	256 bit bitstring describing record types being recorded to this logstream (record 0 is in first bit of first byte, record 255 is last bit of byte 32.)
64	(40)	SIGNED	4	QUALSBSZ	Logstream buffer block size (number of bytes)
68	(44)	BITSTRING	8	QUALSTOD	Last successful write TOD
76	(4C)	BITSTRING	4	QUALSTAT	Logstream Status
76	(4C)	BITSTRING	1	QUALSTB1	Status byte 1
Bit definitions:					
		1...		QUALSDEF	"X'80'" Default logstream, accepting records which are not being recorded in any other logstream.
		.1..		QUALSACT	"X'40'" Active
		..1.		QUALSCLN	"X'20'" being cleaned up
		...1		QUALSCNT	"X'10'" Connected
		.... 1...		QUALSDWG	"X'08'" On when the DSPSIZMAX option came from the global option
77	(4D)	BITSTRING	1	QUALSTB2	Status byte 2
Bit definitions:					
		1...		QUALSCRQ	"X'80'" On-Compression requested for records written to this log stream by SMF configuration Off-Compression not requested
		.1..		QUALSCPR	"X'40'" On-Compression is Prepared. This log stream is ready to compress records (hardware is capable of using zEnterprise Data Compression (zEDC)), and all setup for compression succeeded Off-Hardware is not capable of using zEDC or compression setup failed (see IFA730I)
		..1.		QUALSCMP	"X'20'" On- Compression is Available. The last use of zEDC was successful and it indicated a zEDC Express was available to satisfy compression requests Off- At last request- zEDC Expresses were not available to satisfy compression requests

Table 469. Structure QUALSTYPE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		QUALSPFG	"X'10'" The current PERMFIX value for this log stream is the global PERMFIX value. In the SMF configuration, a log stream PERMFIX value was not specified.
78	(4E)	BITSTRING	1	QUALSTB3	Status byte 3
79	(4F)	BITSTRING	1	QUALSTB4	Status byte 4
80	(50)	SIGNED	4	QUALSBFL	Number of records lost during buffer shortage. If zero then there is currently no buffer shortage.
84	(54)	CHARACTER	8	QUALSDTM	Time that logstream buffer became unavailable. If zero then there is currently no buffer shortage.
92	(5C)	SIGNED	4	QUALSDSZ	The DSPSIZMAX for this logstream (number of bytes)
96	(60)	SIGNED	4	QUALSHWM	The high water mark for the buffer area (number of bytes)
100	(64)	SIGNED	4	QUALSLFT	Amount of storage used currently in the buffer area (number of bytes)
<p>SMF configuration parameter PERMFIX defines the maximum storage SMF can keep registered to zEDC. The following four fields represent amounts of storage registered to zEDC for this log stream.</p>					
104	(68)	SIGNED	4	QUALSPFT	Total storage SMF is currently using for zEDC for this log stream. Value does not account for 1MB needed by each log stream using zEDC. Value may be up to 2MB greater than the defined PERMFIX value depending on usage.
108	(6C)	SIGNED	4	QUALSPFM	Max storage SMF can use for zEDC for this log stream. Configuration defined PERMFIX value.
112	(70)	SIGNED	4	QUALSPFH	High water mark of storage SMF has used for zEDC for this log stream connection
112	(70)	X'74'	0	QUALSTYPE_LEN	"*-QUALSTYPE"

Table 470. Structure QUAFTYPE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	QUAFTYPE	Policy Record data format
0	(0)	BITSTRING	1	QUAFTYP	X'03' MSG Type, X'04' DROP Type Policy record. The high order bit will be on in the last record
1	(1)	BITSTRING	1		Reserved X'00'
2	(2)	SIGNED	2	QUAFTLEN	Length of Policy record

IFAQUAA mapping

Table 470. Structure QUAFSTYPE (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
4	(4)	SIGNED		4		Reserved X'00'
8	(8)	SIGNED		8	QUAFINTVLTIME	Interval time for this policy for flood detection
16	(10)	SIGNED		8	QUAFENDINTVL	Interval time for this policy for end of flood detection
24	(18)	SIGNED		4	QUAFRECTHRESH	Number of records that make up an interval for this policy
28	(1C)	SIGNED		4	QUAFMAXHIGHINTS	Max number of intervals allow below the IntvlTime before action is taken for this policy
32	(20)	BITSTRING		1	QUAFSTYP	Record type this filter is for
32	(20)	X'21'		0	QUAFSTYPE_LEN	"*-QUAFSTYPE"

Table 471. Structure QUAPSTYPE

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
0	(0)	STRUCTURE		0	QUAPSTYPE	Drop History data format
0	(0)	BITSTRING		1	QUAPSTYP	X'05' For Drop History record, x'85' for the last record
1	(1)	BITSTRING		1	QUAPRECTYPE	The record type of the flood
2	(2)	SIGNED		2	QUAPSLLEN	Length of drop history record
4	(4)	SIGNED		4		Reserved X'00'
8	(8)	SIGNED		8	QUAPDROPPEDRECORDS	# of records dropped
16	(10)	CHARACTER		16	QUAPFLOODSTART	STCKE from start of the flood
32	(20)	CHARACTER		16	QUAPFLOODEND	StckE from the end of the flood
QUAA Constants						
32	(20)	X'2'		0	QUAALOGSTREAMTYPE	"2"
32	(20)	X'3'		0	QUAAFLOODPOLICYMSGTYPE	"3"
32	(20)	X'4'		0	QUAAFLOODPOLICYDROPTYPE	"4"
32	(20)	X'5'		0	QUAADROPHISTORYTYPE	"5"
32	(20)	X'80'		0	QUAALASTENTRY	"128"
32	(20)	X'30'		0	QUAPSTYPE_LEN	"*-QUAPSTYPE"

Table 472. Cross Reference for IFAQUAA

Name	Offset	Hex Tag
QUAADROPHISTORYTYPE	20	5
QUAAFLOODPOLICYDROPTYPE	20	4
QUAAFLOODPOLICYMSGTYPE	20	3
QUAALASTENTRY	20	80
QUAALOGSTREAMTYPE	20	2
QUAFENDINTVL	10	
QUAFINTVLTIME	8	
QUAFMAXHIGHINTS	1C	
QUAFRECTHRESH	18	
QUAFSLLEN	2	
QUAFSTYP	0	
QUAFSTYPE	0	
QUAFSTYPE_LEN	20	21
QUAFSTYP	20	

Table 472. Cross Reference for IFAQUAA (continued)

Name	Offset	Hex Tag
QUAH#REC	0	
QUAH#REM	4	
QUAHDOFF	C	
QUAHDRTYPE	0	
QUAHDRTYPE_LEN	C	10
QUAHTLEN	8	
QUALSACT	4C	40
QUALSBFL	50	
QUALSBSZ	40	
QUALSCLN	4C	20
QUALSCMP	4D	20
QUALSCNT	4C	10
QUALSCPR	4D	40
QUALSCRQ	4D	80
QUALSDEF	4C	80
QUALSDSZ	5C	
QUALSDTM	54	
QUALSDWG	4C	8
QUALSHWM	60	
QUALSLEN	2	
QUALSLFT	64	
QUALSNAME	4	
QUALSPFG	4D	10
QUALSPFH	70	
QUALSPFM	6C	
QUALSPFT	68	
QUALSREC	20	
QUALSTAT	4C	
QUALSTB1	4C	
QUALSTB2	4D	
QUALSTB3	4E	
QUALSTB4	4F	
QUALSTOD	44	
QUALSTYP	0	
QUALSTYPE	0	
QUALSTYPE_LEN	70	74
QUAPDROPPEDRECORDS	8	
QUAPFLOODEND	20	
QUAPFLOODSTART	10	
QUAPRECTYPE	1	
QUAPSLN	2	
QUAPSTYP	0	
QUAPSTYPE	0	
QUAPSTYPE_LEN	20	30

IFAUAA mapping

Chapter 108. IFAUCCC Information

IFAUCCC Programming Interface Information

IFAUCCC is a programming interface.

IFAUCCC Heading Information

Common Name: Usage Report Program Customer Data
Macro ID: IFAUCCC
DSECT Name: UCCC
Owning Component: Usage Report Program (SCURP)
Eye-Catcher ID: UCCC
Offset: '00'X
Length: 4
Storage Attributes: Main Storage: No
Virtual Storage: Yes
Auxiliary Storage: Yes
Subpool: 2
Key: 8
Data Space: No
Residency: Virtual
Size: 344
Created by: IFAUARTN
Pointed to by: UPRMCD
Serialization: N/A
Function: Maps data specified on CUSTOMER control statement
of Usage Report Program, IFAURP.

IFAUCCC mapping

Table 473. Structure UCCC

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	UCCC	, UCCC Mapping
0	(0)	CHARACTER	4	UCCCID	UCCC eye catcher
4	(4)	SIGNED	2	UCCCLEN	UCCC length
6	(6)	BITSTRING	1	UCCCVERS	UCCC version
7	(7)	BITSTRING	1	UCCCRESD	Reserved
8	(8)	CHARACTER	40	UCCCNAM	Customer Name
48	(30)	CHARACTER	40	UCCCADD1	Customer address line 1
88	(58)	CHARACTER	40	UCCCADD2	Customer address line 2
128	(80)	CHARACTER	40	UCCCADD3	Customer address line 3
168	(A8)	CHARACTER	40	UCCCADD4	Customer address line 4
208	(D0)	CHARACTER	40	UCCCADD5	Customer address line 5
248	(F8)	CHARACTER	40	UCCCADD6	Customer address line 6
288	(120)	CHARACTER	20	UCCCONTA	Customer contact
308	(134)	CHARACTER	20	UCCCPHON	Customer contact's phone
328	(148)	CHARACTER	1	UCCCDATA	Customer data origination
329	(149)	CHARACTER	15	UCCCRSV1	Reserved
329	(149)	X'158'	0	UCCCEND	"*" End of UCCC

IFAUCCC mapping

Table 473. Structure UCCC (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
329	(149)	X'158'		0	UCCCSIZE	"UCCEND-UCCC" Size of UCCC
329	(149)	X'C3C3C3'		0	UCCCID	"C'UCCC'" UCCC Eye Catcher
329	(149)	X'1'		0	UCCC313	"1" UCCC Version
329	(149)	X'2'		0	UCCCS29	"2" UCCC Version OS/390 02.09
329	(149)	X'2'		0	UCCVERC	"UCCS29" Current version

Table 474. Cross Reference for IFAUCCC

Name	Offset	Hex Tag
UCCC	0	
UCCCADD1	30	
UCCCADD2	58	
UCCCADD3	80	
UCCCADD4	A8	
UCCCADD5	D0	
UCCCADD6	F8	
UCCCID	149	C3C3C3
UCCCDATA	148	
UCCEND	149	158
UCCID	0	
UCCLEN	4	
UCCNAME	8	
UCCCONTA	120	
UCCCPHON	134	
UCCRESD	7	
UCCRSV1	149	
UCCSIZE	149	158
UCCS29	149	2
UCCVERC	149	2
UCCVERS	6	
UCCC313	149	1

Chapter 109. IFAUMCC Information

IFAUMCC Programming Interface Information

IFAUMCC is a programming interface.

IFAUMCC Heading Information

Common Name: Usage Report Program Processor Table
Macro ID: IFAUMCC
DSECT Name: UMCC UMCPROCT
Owning Component: Usage Report Program (SCURP)
Eye-Catcher ID: UMCC
Offset: '00'X
Length: 4
Storage Attributes: Main Storage: No
Virtual Storage: Yes
Auxiliary Storage: Yes
Subpool: 2
Key: 8
Data Space: No
Residency: Virtual
Size: UMCC - 36 bytes
UMCPROCT - 44 bytes * UMCCPRCT
UMCCLST - 28 bytes * UMCCCLCT
Created by: IFAURP
Pointed to by: UPRMMCCT
Serialization: N/A
Function: Maps processor and cluster entries in processor table of Usage Report Program, IFAURP.

IFAUMCC mapping

Table 475. Structure UMCC

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	UMCC	UMCC Mapping
0	(0)	CHARACTER	4	UMCCID	UMCC eye catcher
4	(4)	SIGNED	2	UMCCLEN	UMCC length
6	(6)	BITSTRING	1	UMCCVERS	UMCC version
7	(7)	CHARACTER	1	UMCCRSV1	Reserved
8	(8)	SIGNED	2	UMCCPRCT	Processor Table entry count
10	(A)	SIGNED	2	UMCCCLCT	Cluster Table entry count
12	(C)	ADDRESS	4	UMCCPRPT	Address of processor table
16	(10)	ADDRESS	4	UMCCCLPT	Address of cluster table
20	(14)	CHARACTER	16	UMCCRSV2	Reserved
20	(14)	X'24'	0	UMCCEND	"*" End of UMCC
20	(14)	X'24'	0	UMCCSIZE	"UMCCEND-UMCC" Size of UMCC

IFAUMCC mapping

Table 476. Structure UMCPROCT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	UMCPROCT	Processor Table entries
0	(0)	BITSTRING	2	UMCPTYPE	Processor Type - e.g. '9021'x
2	(2)	CHARACTER	4	UMCPTYPC	Processor Type - e.g. '9021'
6	(6)	CHARACTER	8	UMCPMOD	Processor Model - e.g. '982 '
14	(E)	BITSTRING	1	UMCPVER	Version Number
15	(F)	SIGNED	1	UMCPCPCT	CP Count
16	(10)	BITSTRING	2	UMCPFLAG(0)	Flags
16	(10)	BITSTRING	1	UMCPFLG1	Flag byte 1
		1... ..		UMCPDCCP	"X'80" On= Processor is coupling capable
		.1.. ..		UMCPNVAL	"X'40" On= version in this entry not valid
		..1.		UMCPNVPS	"X'20" On= this entry cannot be used in the PROCESSOR statement
		...1		UMCPRMOD	"X'10" On= additional processing needed to determine processor model
17	(11)	BITSTRING	1	UMCPFLG2	Flag byte 2
24	(18)	DBL WORD	8	UMCPNUM	SU Factor - float format
32	(20)	CHARACTER	16	UMCPMDL	V1-CPC Model
48	(30)	CHARACTER	2	UMCPRS2	Reserved
48	(30)	X'32'	0	UMCPTEND	"*"
48	(30)	X'32'	0	UMCPTLEN	"UMCPTEND-UMCPROCT" Length of processor table entry

Table 477. Structure UMCCCLST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	UMCCCLST	Cluster table
0	(0)	CHARACTER	6	UMCCTYPE	Cluster type - e.g. '9672 '
6	(6)	CHARACTER	3	UMCCMOD	Cluster model - e.g. 'E06'
9	(9)	CHARACTER	16	UMCCRSV3	Reserved
9	(9)	X'19'	0	UMCCTEND	"*"
9	(9)	X'19'	0	UMCCTLEN	"UMCCTEND-UMCCCLST" Length of cluster table entry
9	(9)	X'D4C3C3'	0	UMCCCID	"C'UMCC'" UMCC Eye Catcher
9	(9)	X'1'	0	UMCC313	"1" UMCC Version
9	(9)	X'1'	0	UMCCVERC	"UMCC313" Current version

Table 478. Cross Reference for IFAUMCC

Name	Offset	Hex Tag
UMCC	0	
UMCCCID	9	D4C3C3
UMCCCLCT	A	
UMCCCLPT	10	
UMCCEND	14	24
UMCCID	0	
UMCCLEN	4	
UMCCCLST	0	
UMCCMOD	6	

Table 478. Cross Reference for IFAUMCC (continued)

Name	Offset	Hex Tag
UMCCPRCT	8	
UMCCPRPT	C	
UMCCRSV1	7	
UMCCRSV2	14	
UMCCRSV3	9	
UMCCSIZE	14	24
UMCCTEND	9	19
UMCCTLEN	9	19
UMCCTYPE	0	
UMCCVERC	9	1
UMCCVERS	6	
UMCC313	9	1
UMCPCPCT	F	
UMCPDCCP	10	80
UMCPFLAG	10	
UMCPFLG1	10	
UMCPFLG2	11	
UMCPMDL	20	
UMCPMOD	6	
UMCPNUM	18	
UMCPNVAL	10	40
UMCPNVPS	10	20
UMCPRMOD	10	10
UMCPROCT	0	
UMCPRS2	30	
UMCPTEND	30	32
UMCPTLEN	30	32
UMCPTYPC	2	
UMCPTYPE	0	
UMCPVER	E	

IFAUMCC mapping

Chapter 110. IFAUOCC Information

IFAUOCC Programming Interface Information

IFAUOCC is a programming interface.

IFAUOCC Heading Information

Common Name: Usage Report Program Product Owner Data
Macro ID: IFAUOCC
DSECT Name: UOCC
Owning Component: Usage Report Program (SCURP)
Eye-Catcher ID: UOCC
Offset: '00'X
Length: 4
Storage Attributes: Main Storage: No
Virtual Storage: Yes
Auxiliary Storage: Yes
Subpool: 2
Key: 8
Data Space: No
Residency: Virtual
Size: 58 * Number of Unique Product Owners Specified
when running IFAURP.
Created by: IFAUARTN
Pointed to by: USIDUOCC, UOCCNEXT
Serialization: N/A
Function: Maps product owner data specified on PRODUCT control
statement of Usage Report Program, IFAURP.

IFAUOCC mapping

Table 479. Structure UOCC

Offset	Offset		Len	Name(Dim)	Description
Dec	Hex	Type			
0	(0)	STRUCTURE	0	UOCC	UOCC Mapping
0	(0)	CHARACTER	4	UOCCID	UOCC eye catcher
4	(4)	BITSTRING	2	UOCCLEN	UOCC length
6	(6)	BITSTRING	1	UOCCVERS	UOCC version
7	(7)	BITSTRING	1	UOCCFLAG	Flags
		1...		UOCCHIST	"X'80'" ON=UOCC from history
		.1..		UOCCSTRT	"X'40'" ON=1st product started
8	(8)	ADDRESS	4	UOCCNEXT	Address of next UOCC
12	(C)	CHARACTER	16	UOCCNAME	Product owner name
28	(1C)	ADDRESS	4	UOCCUPCC	Address of 1st UPCC
32	(20)	CHARACTER	2	UOCCALGN	ALIGN value
34	(22)	CHARACTER	8	UOCCDATE	1st product start date for this vendor or testdate
42	(2A)	CHARACTER	16	UOCCRSV3	Reserved
42	(2A)	X'3A'	0	UOCCEND	"*" End of UOCC
42	(2A)	X'3A'	0	UOCCSIZE	"UOCCEND-UOCC" Size of UOCC
42	(2A)	X'D6C3C3'	0	UOCCCID	"C'UOCC'" UOCC Eye catcher

IFAUOCC mapping

Table 479. Structure UOCC (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
42	(2A)	X'1'		0	UOCC313	"1" UOCC Version - SP313
42	(2A)	X'1'		0	UOCCVERC	"UOCC313" Current Version

Table 480. Cross Reference for IFAUOCC

Name	Offset	Hex Tag
UOCC	0	
UOCCALGN	20	
UOCCCID	2A	D6C3C3
UOCCDATE	22	
UOCCEND	2A	3A
UOCCFLAG	7	
UOCCHIST	7	80
UOCCID	0	
UOCCLEN	4	
UOCCNAME	C	
UOCCNEXT	8	
UOCCRSV3	2A	
UOCCSIZE	2A	3A
UOCCSTRT	7	40
UOCCUPCC	1C	
UOCCVERC	2A	1
UOCCVERS	6	
UOCC313	2A	1

Chapter 111. IFAUPCC Information

IFAUPCC Programming Interface Information

IFAUPCC is a programming interface.

IFAUPCC Heading Information

Common Name: Usage Report Program Product Data
Macro ID: IFAUPCC
DSECT Name: UPCC
Owning Component: Usage Report Program (SCURP)
Eye-Catcher ID: UPCC
Offset: '00'X
Length: 4
Storage Attributes: Main Storage: No
Virtual Storage: Yes
Auxiliary Storage: Yes
Subpool: 2
Key: 8
Data Space: No
Residency: Virtual
Size: 90
Created by: IFAUARTN
Pointed to by: UOCCUPCC, UPCCNEXT
Serialization: N/A
Function: Maps info specified on PRODUCT keyword of Usage Report Program, IFAURP.

IFAUPCC mapping

Table 481. Structure UPCC

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	UPCC	UPCC Mapping
0	(0)	CHARACTER	4	UPCCID	UPCC eye catcher
4	(4)	BITSTRING	2	UPCCLEN	UPCC length
6	(6)	BITSTRING	1	UPCCVERS	UPCC version
7	(7)	BITSTRING	1	UPCCFLAG	Flags
		1...		UPCCHIST	"X'80'" ON=UPCC from history
		.1..		UPCCHFND	"X'40'" ON=Match found in history
8	(8)	ADDRESS	4	UPCCNEXT	Address of next UPCC
12	(C)	CHARACTER	16	UPCCNAME	Product owner name
28	(1C)	CHARACTER	8	UPCCFUNC	Product function
36	(24)	CHARACTER	8	UPCCSTR	Product start or testdate date in YYYYMMDD format
44	(2C)	CHARACTER	30	UPCCSTAA	Product status array
74	(4A)	CHARACTER	16	UPCCRSV3	Reserved

IFAUPCC mapping

Table 482. Structure UPCCSTAD

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
0	(0)	STRUCTURE		0	UPCCSTAD	Mapping of UPCCSTAA array Product status array - one entry for each of last three measurement periods
0	(0)	BITSTRING		1	UPCCDAT	1st day of measurement period in which START or STOP takes effect Blank if UPCCSET=0. Date in YYYYMMDD format.
1	(1)	BITSTRING		1	UPCCSET	0= product in neither "START" nor "STOP" state 1= product in "START" state 2= product in "STOP" state
2	(2)	BITSTRING		1	UPCCRSV4	Reserved
2	(2)	X'3'		0	UPCCEND	"*" End of UPCC
2	(2)	X'3'		0	UPCCSIZE	"UPCCEND-UPCC" Size of UPCC
2	(2)	X'D7C3C3'		0	UPCCCID	"C'UPCC'" UPCC Eye catcher
2	(2)	X'1'		0	UPCC313	"1" UPCC Version - SP313
2	(2)	X'1'		0	UPCCVERC	"UPCC313" Current Version

Table 483. Cross Reference for IFAUPCC

Name	Offset	Hex Tag
UPCC	0	
UPCCCID	2	D7C3C3
UPCCDAT	0	
UPCCEND	2	3
UPCCFLAG	7	
UPCCFUNC	1C	
UPCCHFND	7	40
UPCCHIST	7	80
UPCCID	0	
UPCCLEN	4	
UPCCNAME	C	
UPCCNEXT	8	
UPCCRSV3	4A	
UPCCRSV4	2	
UPCCSET	1	
UPCCSIZE	2	3
UPCCSTAA	2C	
UPCCSTAD	0	
UPCCSTRT	24	
UPCCVERC	2	1
UPCCVERS	6	
UPCC313	2	1

Chapter 112. IFAUPRM Information

IFAUPRM Programming Interface Information

IFAUPRM is a programming interface.

IFAUPRM Heading Information

Common Name: Usage Report Program Vendor Exit Parm List
Macro ID: IFAUPRM
DSECT Name: UPRM
Owning Component: Usage Report Program (SCURP)
Eye-Catcher ID: UPRM
Offset: '00'X
Length: 4
Storage Attributes: Main Storage: No
Virtual Storage: Yes
Auxiliary Storage: Yes
Subpool: 2
Key: 8
Data Space: No
Residency: Virtual
Size: 88
Created by: IFAURP
Pointed to by: R1->@UPRM
Serialization: N/A
Function: Provides parameter list between Usage Report Program IFAURP and vendor exits.

IFAUPRM mapping

Table 484. Structure UPRM

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	UPRM	, UPRM Mapping
0	(0)	CHARACTER	4	UPRMID	UPRM eye catcher
0	(0)	X'D7D9D4'	0	UPRMCID	"C'UPRM'" UPRM eye catcher
4	(4)	SIGNED	2	UPRMLEN	UPRM length
6	(6)	BITSTRING	1	UPRMVERS	UPRM version
6	(6)	X'1'	0	UPRM313	"1" UPRM version - JBB3313
6	(6)	X'2'	0	UPRM#OW11350	"2" UPRM version - OW11350
6	(6)	X'3'	0	UPRM#OW27078	"3" UPRM version - OW27078
6	(6)	X'3'	0	UPRMVERC	"UPRM#OW27078" Current UPRM version
7	(7)	BITSTRING	1	UPRMFC	Function Code
Exit function codes					
7	(7)	X'1'	0	UPRMFCIN	"1" Initialization
7	(7)	X'2'	0	UPRMFCPR	"2" Record processing
7	(7)	X'3'	0	UPRMFCTE	"3" Termination
8	(8)	ADDRESS	4	UPRMREC	Pointer to record
12	(C)	ADDRESS	4	UPRMVD	Pointer to Vendor Data

IFAUPRM mapping

Table 484. Structure UPRM (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
16	(10)	ADDRESS		4	UPRMC	Pointer to Customer Data
20	(14)	ADDRESS		4	UPRMCCT	Pointer to Processor Table
24	(18)	ADDRESS		4	UPRMUSID	Pointer to Sysplex ID Data
28	(1C)	ADDRESS		4	UPRMMSG	Pointer to SYSMSGS DCB
32	(20)	ADDRESS		4	UPRMPRT	Pointer to SYSPRINT DCB
36	(24)	BITSTRING		1	UPRMFLG(0)	Flags
36	(24)	BITSTRING		1	UPRMFLG1	Flag byte 1
			1... ..		UPRPMHI	"BIT0" ON if UPRMREC points to a history record
			.1.. ..		UPRM89SU	"BIT1" ON if exit accepts all SMF 89 record subtypes
37	(25)	BITSTRING		3	UPRMIVRM(0)	IFAURP version, release and modification level
37	(25)	SIGNED		1	UPRMIVER	IFAURP version
37	(25)	X'4'		0	UPRMIVCU	"4" Current IFAURP version
38	(26)	SIGNED		1	UPRMIREL	IFAURP release
38	(26)	X'1'		0	UPRMIRCU	"1" Current IFAURP release
39	(27)	SIGNED		1	UPRMIMOD	IFAURP modification level
39	(27)	X'2'		0	UPRMIMCU	"2" Current IFAURP modification level
40	(28)	ADDRESS		4	UPRMUD	User Data
44	(2C)			4	UPRMHCD	History cutoff date - records will be discarded from history file is earlier than this date. Set to be 1 year before last record found on each run. Always on 1st of month - format is packed 0cyydddF where c is century (0= 20th), yy is year within century, ddd is day in julian format, F is a constant (sign indicator).
48	(30)	CHARACTER		16	UPRMIFAV	IFAURP Version Code - See Prolog
64	(40)	CHARACTER		4	UPRMRDAT	Report date in packed 0cyydddF format where c is century (0= 20th), yy is year within century, ddd is day in julian format. F is a constant (sign indicator).
68	(44)	SIGNED		4	UPRMCT	Counter for number of times current record presented to vendor exit
72	(48)	CHARACTER		6	UPRMRSV2	Reserved
78	(4E)	BITSTRING		1	UPRMDFC	Code indicating which type 89 data fields to process
			.... .1..		UPRMDFRD	"BIT5" SMF89URD (resource units)
			.... ..1.		UPRMDFSR	"BIT6" SMF89USR (SRB) converted to SUs
			.... ...1		UPRMDFTC	"BIT7" SMF89UCT (TCB) converted to SUs
79	(4F)	SIGNED		1	UPRMDSCD	Reporting scale for usage values in powers of ten

Table 484. Structure UPRM (continued)

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
80	(50)	ADDRESS	4	UPRMFNOT	Pointer to special footnote supplied by the exit, which is to be associated with usage values.
84	(54)	ADDRESS	4	UPRMMETR	Pointer to special metric description to be used to reflect the usage reported on the Statistics Report.
84	(54)	X'58'	0	UPRMEND	"*" End of UPRM
84	(54)	X'58'	0	UPRMSIZE	"UPRMEND-UPRM" Size of UPRM
Exit processing return codes					
84	(54)	X'0'	0	UPRMRCP	"0" Process record
84	(54)	X'4'	0	UPRMRICG	"4" Ignore record
84	(54)	X'8'	0	UPRMRCDI	"8" Process record, then disable exit
84	(54)	X'C'	0	UPRMRGAG	"12" Process record, then call exit again with same record

Table 485. Cross Reference for IFAUPRM

Name	Offset	Hex Tag
UPRM	0	
UPRM#OW11350	6	2
UPRM#OW27078	6	3
UPRMCD	10	
UPRMCID	0	D7D9D4
UPRMCT	44	
UPRMDFC	4E	
UPRMDFRD	4E	4
UPRMDFSR	4E	2
UPRMDFTC	4E	1
UPRMDSCD	4F	
UPRMEND	54	58
UPRMFC	7	
UPRMFCIN	7	1
UPRMFCPR	7	2
UPRMFCTE	7	3
UPRMFLAG	24	
UPRMFLG1	24	
UPRMFNOT	50	
UPRMHCD	2C	
UPRMHI	24	80
UPRMID	0	
UPRMIFAV	30	
UPRMIMCU	27	2
UPRMIMOD	27	
UPRMIRCU	26	1
UPRMIREL	26	
UPRMIVCU	25	4

IFAUPRM mapping

Table 485. Cross Reference for IFAUPRM (continued)

Name	Offset	Hex Tag
UPRMIVER	25	
UPRMIVRM	25	
UPRMLN	4	
UPRMMCCT	14	
UPRMMETR	54	
UPRMMSG	1C	
UPRMPRNT	20	
UPRMRCAG	54	C
UPRMRCDI	54	8
UPRMRCIG	54	4
UPRMRCPR	54	0
UPMRDAT	40	
UPRMREC	8	
UPRMRSV2	48	
UPRMSIZE	54	58
UPRMUD	28	
UPRMUSID	18	
UPRMVD	C	
UPRMVERC	6	3
UPRMVERS	6	
UPRM313	6	1
UPRM89SU	24	40

Chapter 113. IFAUSID Information

IFAUSID Programming Interface Information

IFAUSID is a programming interface.

IFAUSID Heading Information

Common Name: System Configuration Information
 Macro ID: IFAUSID
 DSECT Name: USID - header USIDP - processor array USIDC - cluster array
 Owning Component: Usage Report Program (SCURP)
 Eye-Catcher ID: USID
 Offset: '00'X
 Length: 4
 Storage Attributes: Main Storage: No
 Virtual Storage: Yes
 Auxiliary Storage: Yes
 Subpool: 2
 Key: 8
 Data Space: No
 Residency: Virtual
 Size: $64 + 50 * USIDCMCN + 42 * USIDPMCN$
 Created by: IFAUARTN
 Pointed to by: UPRMUSID, USIDNEXT
 Serialization: N/A
 Function: Defines a processor or sysplex on which usage pricing products execute.

IFAUSID mapping

Table 486. Structure USID

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	USID	, USID Mapping
0	(0)	CHARACTER	4	USIDID	USID eye catcher
4	(4)	SIGNED	2	USIDLEN	USID length
6	(6)	BITSTRING	1	USIDVERS	USID version
7	(7)	BITSTRING	1	USIDFLAG	USID Flags
		1...		USIDHIST	"X'80'" On= USID from history file
		.1..		USIDFNDH	"X'40'" On= Matched one sysplex statement to this USID (reset each run)
8	(8)	ADDRESS	4	USIDNEXT	Address of the next USID
12	(C)	CHARACTER	8	USIDCNID	Sysplex ID
20	(14)	ADDRESS	4	USIDPPTR	Pointer to processor table
24	(18)	SIGNED	2	USIDPCCN	Processor table count
26	(1A)	SIGNED	2	USIDPMCN	Processor table max count
28	(1C)	ADDRESS	4	USIDCPTR	Pointer to the cluster table
32	(20)	SIGNED	2	USIDCCCN	Cluster table count
34	(22)	SIGNED	2	USIDCMCN	Cluster table max count

IFAUSID mapping

Table 486. Structure USID (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
36	(24)	CHARACTER	8	USIDPDAT	Value of PLEXDATE keyword in yyyymmdd format.
44	(2C)	ADDRESS	4	USIDUOCC	Address of 1st UOCC
48	(30)	CHARACTER	16	USIDRSV2	Reserved
48	(30)	X'40'	0	USIDEND	"*" End of USID
48	(30)	X'40'	0	USIDSIZE	"USIDEND-USID" Size of USID

Table 487. Structure USIDP

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	USIDP	, Sysplex processor Table
0	(0)	BITSTRING	2	USIDTYPE	Type Number - e.g. X'9021'
2	(2)	CHARACTER	4	USIDTYPC	Type Number - e.g. '9021'
6	(6)	CHARACTER	8	USIDMOD	Model Number - e.g. '982 '
14	(E)	BITSTRING	3	USIDSERN	Serial Number
17	(11)	CHARACTER	7	USIDSERC	Serial Number as specified on PROCESSOR statement or keyword
24	(18)	BITSTRING	1	USIDVER	Version Number
25	(19)	BITSTRING	1	USIDPFLG	Flags
		1...		USIDPFND	"X'80'" On= Matched one processor keyword for this USID to this processor (reset each run)
		.1..		USIDNVAL	"X'40'" On= version in this entry not valid
26	(1A)	CHARACTER	16	USIDMDL	V1-CPC model
26	(1A)	X'2A'	0	USIDPEND	"*"
26	(1A)	X'2A'	0	USIDPSZE	"USIDPEND-USIDP"

Table 488. Structure USIDC

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	USIDC	, Sysplex Cluster table
0	(0)	CHARACTER	6	USIDCTYP	Type Number - e.g. '9672 '
6	(6)	CHARACTER	3	USIDCMOD	Model Number - e.g. 'E06'
9	(9)	CHARACTER	12	USIDCLST	Cluster Number
21	(15)	CHARACTER	12	USIDCLSC	Printable Cluster Number
33	(21)	BITSTRING	1	USIDCFLG	Flags
		1...		USIDCFND	"X'80'" On= Matched one cluster keyword for this USID to this processor (reset each run)
34	(22)	CHARACTER	16	USIDCRSV	Reserved
34	(22)	X'32'	0	USIDCEND	"*"
34	(22)	X'32'	0	USIDCSZE	"USIDCEND-USIDC"
34	(22)	X'E2C9C4'	0	USIDCID	"C'USID'" USID Eye Catcher
34	(22)	X'1'	0	USID313	"1" USID Version
34	(22)	X'1'	0	USIDVERC	"USID313" Current version

Table 489. Cross Reference for IFAUSID

Name	Offset	Hex Tag
USID	0	
USIDC	0	
USIDCCCN	20	
USIDCEND	22	32
USIDCFLG	21	
USIDCFND	21	80
USIDCID	22	E2C9C4
USIDCLSC	15	
USIDCLST	9	
USIDCMCN	22	
USIDCMOD	6	
USIDCNID	C	
USIDCPTR	1C	
USIDCRSV	22	
USIDCSZE	22	32
USIDCTYP	0	
USIDEND	30	40
USIDFLAG	7	
USIDFNDH	7	40
USIDHIST	7	80
USIDID	0	
USIDLEN	4	
USIDMDL	1A	
USIDMOD	6	
USIDNEXT	8	
USIDNVAL	19	40
USIDP	0	
USIDPCCN	18	
USIDPDAT	24	
USIDPEND	1A	2A
USIDPFLG	19	
USIDPFND	19	80
USIDPMCEN	1A	
USIDPPTR	14	
USIDPSZE	1A	2A
USIDRSV2	30	
USIDSERC	11	
USIDSERN	E	
USIDSIZE	30	40
USIDTYPC	2	
USIDTYPE	0	
USIDUOCC	2C	
USIDVER	18	
USIDVERC	22	1
USIDVERS	6	
USID313	22	1

IFAUSID mapping

Chapter 114. IFAUVCC Information

IFAUVCC Programming Interface Information

IFAUVCC is a programming interface.

IFAUVCC Heading Information

Common Name: Usage Report Program Vendor Data
 Macro ID: IFAUVCC
 DSECT Name: UVCC
 Owning Component: Usage Report Program (SCURP)
 Eye-Catcher ID: UVCC
 Offset: '00'X
 Length: 4
 Storage Attributes: Main Storage: No
 Virtual Storage: Yes
 Auxiliary Storage: Yes
 Subpool: 2
 Key: 8
 Data Space: No
 Residency: Virtual
 Size: 364
 Created by: IFAUARTN
 Pointed to by: UPRMVD, UVCCNEXT
 Serialization: N/A
 Function: Maps data specified on CUSTOMER control statement of Usage Report Program, IFAURP.

IFAUVCC mapping

Table 490. Structure UVCC

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	UVCC	, UVCC Mapping
0	(0)	CHARACTER	4	UVCCID	UVCC eye catcher
4	(4)	SIGNED	2	UVCCLEN	UVCC length
6	(6)	BITSTRING	1	UVCCVERS	UVCC version
7	(7)	BITSTRING	1	UVCCFLAG	Flags
		1...		UVCCHIST	"X'80'" On= UVCC from history file
		.1..		UVCCFNDH	"X'40'" On= Matched one vendor statement to this UVCC (reset each run)
8	(8)	ADDRESS	4	UVCCNEXT	Pointer to next UVCC
12	(C)	CHARACTER	16	UVCCPO	Product Owner Name, as it appears in field SMF89UPO
28	(1C)	CHARACTER	40	UVCCNAME	Vendor Name
68	(44)	CHARACTER	40	UVCCADD1	Vendor address line 1
108	(6C)	CHARACTER	40	UVCCADD2	Vendor address line 2
148	(94)	CHARACTER	40	UVCCADD3	Vendor address line 3
188	(BC)	CHARACTER	40	UVCCADD4	Vendor address line 4

IFAUVCC mapping

Table 490. Structure UVCC (continued)

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
228	(E4)	CHARACTER	40	UVCCADD5	Vendor address line 5
268	(10C)	CHARACTER	40	UVCCADD6	Vendor address line 6
308	(134)	ADDRESS	4	UVCCUD	Vendor user data - copy of UPRMUD
312	(138)	ADDRESS	4	UVCCPEP	Vendor Exit Entry Point
316	(13C)	CHARACTER	8	UVCCEN	Vendor Exit name
324	(144)	CHARACTER	8	UVCCDD	Vendor PRINTDD name
332	(14C)	CHARACTER	8	UVCCNUM	Customer number
340	(154)	CHARACTER	8	UVCCEXTL	Exit level designator
348	(15C)	CHARACTER	16	UVCCRSV1	Reserved
348	(15C)	X'16C'	0	UVCCEND	"*" End of UVCC
348	(15C)	X'16C'	0	UVCCSIZE	"UVCCEND-UVCC" Size of UVCC
348	(15C)	X'E5C3C3'	0	UVCCCID	"C'UVCC'" UVCC Eye Catcher
348	(15C)	X'1'	0	UVCC313	"1" UVCC Version
348	(15C)	X'1'	0	UVCCVERC	"UVCC313" Current version

Table 491. Cross Reference for IFAUVCC

Name	Offset	Hex Tag
UVCC	0	
UVCCADD1	44	
UVCCADD2	6C	
UVCCADD3	94	
UVCCADD4	BC	
UVCCADD5	E4	
UVCCADD6	10C	
UVCCCID	15C	E5C3C3
UVCCDD	144	
UVCCEN	13C	
UVCCEND	15C	16C
UVCCPEP	138	
UVCCEXTL	154	
UVCCFLAG	7	
UVCCFNDH	7	40
UVCCHIST	7	80
UVCCID	0	
UVCCLEN	4	
UVCCNAME	1C	
UVCCNEXT	8	
UVCCNUM	14C	
UVCCPO	C	
UVCCRSV1	15C	
UVCCSIZE	15C	16C
UVCCUD	134	
UVCCVERC	15C	1
UVCCVERS	6	
UVCC313	15C	1

Chapter 115. IFAU29LM Information

IFAU29LM Programming Interface Information

IFAU29LM is a programming interface.

IFAU29LM Heading Information

Common Name: Parmlist mapping to IEFU29L exit routine
Macro ID: IFAU29LM
DSECT Name: U29L_PARM
Owning Component: System Management Facilities (SC100)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: 229
Key: zero
Residency: any
Size: Variable
U29L_PARM -- X'001C' bytes
KEY and RESIDENCY.
Created by: IFALSMOD and passed as parameter list to IEFU29L
Pointed to by: Register 1 on entry to IFAU29L exit
Serialization: None required
Function: Maps the data provided to the IEFU29L exit routine.

IFAU29LM mapping

Table 492. Structure U29L_PARM

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	0	U29L_PARM	
0	(0)	SIGNED	2	U29L_LSNAME_LENGTH	
2	(2)	CHARACTER	26	U29L_LSNAME	
2	(2)	X'1C'	0	U29L_PARM_LEN	"*-U29L_PARM"

IFAU29LM mapping

Chapter 116. IFBDCBDC Information

IFBDCBDC Heading Information

Common Name: Mapping for Logrec Data CSECT in nucleus resident module IFBDCB01
 Macro ID: IFBDCBDC
 DSECT Name: IFBDCBDC
 Owing Component: System Environmental Recording - Logrec (SCOBR)
 Eye-Catcher ID: None
 Storage Attributes: Virtual Storage: Data Only Module (IFBDCB01)
 Residency: Nucleus
 Size: 408 bytes ('198'X)
 Frequency: 1 per MVS image
 Created by: Permanently resides in the nucleus
 Pointed to by: CVTDCBA - IFBDISP
 Serialization: None
 Function: This data area maps the nucleus resident DCB and DEB control blocks used for the logrec data set. It is also used for DEMF and NPDA processing.

IFBDCBDC mapping

Table 493. Structure IFBDCBDC

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IFBDCBDC	Logrec Data CSECT Expansion
0	(0)	SIGNED	4	(0)	Word alignment
0	(0)	ADDRESS	4	IFBDCB_LOGCA_PTR	Pointer to Logrec Control Area
4	(4)	ADDRESS	4		Reserved for IBM
8	(8)	ADDRESS	4		Reserved for IBM
12	(C)	SIGNED	4	IFBDEB	START OF DEB
16	(10)	ADDRESS	4	IFBDCB	SPARE POINTER
20	(14)	SIGNED	4	(4)	OVERLAYED DCB
36	(24)	BITSTRING	1		DEB ID FIELD
37	(25)	ADDRESS	3		ADDRESS OF DCB
40	(28)	SIGNED	4	(5)	
60	(3C)	ADDRESS	4		ADDRESS OF SER DEB
64	(40)	BITSTRING	1		FLAG
65	(41)	BITSTRING	3		
68	(44)	SIGNED	4	(2)	
THE FOLLOWING ADDED TO SUPPORT DISPLAY EXCEPTION MONITORING FACILITY (DEMF) - MVS Version 3.7					
356	(164)	SIGNED	4	IFBBUFPP	DEMF BUFFER POINTER
360	(168)	SIGNED	4	IFBASCBP	DEMF BNGLOGR ASCB POINTER (MVS)
364	(16C)	SIGNED	4	(4)	DEMF RESERVED
380	(17C)	BITSTRING	1	IFBFLGS1	DEMF FLAGS1
381	(17D)	BITSTRING	1	IFBFLGS2	DEMF FLAGS2
		..1.		IFBNPDAA	"X'20'" NPDA MODULE AVAILABLE
382	(17E)	BITSTRING	1	IFBFLGS3	DEMF FLAGS3
383	(17F)	BITSTRING	1	IFBFLGS4	DEMF FLAGS4

IFBDCBDC mapping

Table 493. Structure IFBDCBDC (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
384	(180)	SIGNED		4	IFBNPDA	ADDR OF NPDA SVC76 PROCESS PROCESSING MODULE
388	(184)	SIGNED		4	IFBNPDAC	ADDR OF NPDA CLEANUP RTN
392	(188)	SIGNED		4	IFBNWORK	ADDR OF NPDA LOCAL WORKAREA
396	(18C)	SIGNED		2	IFDNLNG	SIZE OF NPDA LOCAL WORKAREA
398	(18E)	SIGNED		2		RESERVED
<p>The following fields are used by SCOBR to keep a local pointer to the LOGREC data set name and to keep track of the WTO id in order to DOM message IFB080E when necessary.</p>						
400	(190)	ADDRESS		4		Reserved for IBM
404	(194)	SIGNED		4	IFBD080E	IFB080E WTO DOM id - set and cleared in IFBSVC76
404	(194)	X'198'		0	IFBDCB_END	"*" End of the data CSECT

Table 494. Cross Reference for IFBDCBDC

Name	Offset	Hex	Tag
IFBASCBP	168		0
IFBBUFP	164		0
IFBDCB	10		
IFBDCB_END	194		198
IFBDCB_LOGCA_PTR	0		
IFBDCBDC	0		
IFBDEB	C		0
IFBD080E	194		0
IFBFLGS1	17C		0
IFBFLGS2	17D		0
IFBFLGS3	17E		0
IFBFLGS4	17F		0
IFBNPDA	180		0
IFBNPDAA	17D		20
IFBNPDAC	184		0
IFBNWORK	188		0
IFDNLNG	18C		0

Chapter 117. IFBENF36 Information

IFBENF36 Programming Interface Information

The following field is NOT programming interface information:

- IFBENF36_RECORD_START

IFBENF36 Heading Information

Common Name: Mapping for ENF event code 36 listen exit parameter list
 Macro ID: IFBENF36
 DSECT Name: IFBENF36
 Owning Component: System Environmental Recording - Logrec (SCOBR)
 Eye-Catcher ID: 'ENF36 '
 Offset: 0
 Length: 6
 Storage Attributes: Subpool: 241
 Key: 0
 Residency: Any
 Size: 20 (dec.) bytes plus size of Logrec record
 Frequency: 1 per Logrec record written to a recording medium. Record type '9x' will not cause the signal to occur.
 Created by: IFBSVC76
 Pointed to by: Register 1 on input to ENF event code 36 Listen exit
 Serialization: None
 Function: This data area maps the input parameter list for ENF event code 36 listen exits.

IFBENF36 mapping

Table 495. Structure IFBENF36

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IFBENF36	, ENF 36 Listen exit parameter list
0	(0)	SIGNED	4	(0)	Word alignment
0	(0)	BITSTRING	1	IFBENF36_HEADER(0)	Start of ENF36 header
0	(0)	CHARACTER	6	IFBENF36_ID	Data Area ID 'ENF36 '
6	(6)	SIGNED	2	IFBENF36_LENGTH	Length of IFBENF36 header, does not include actual Logrec record
8	(8)	CHARACTER	3	IFBENF36_RSVD1	Reserved for IBM
11	(B)	BITSTRING	1	IFBENF36_VERSION	Version of IFBENF36 data area
12	(C)	BITSTRING	4	IFBENF36_QUALIFIER(0)	ENF 36 qualifier
12	(C)	CHARACTER	2	IFBENF36_RSVD2	Reserved for IBM
14	(E)	BITSTRING	1	IFBENF36_BYTE3_QUAL	Qualifier code - record category
15	(F)	BITSTRING	1	IFBENF36_BYTE4_QUAL	Qualifier code - record type
16	(10)	SIGNED	4	IFBENF36_RECORD_LENGTH	Length of Logrec record

IFBENF36 mapping

Table 495. Structure IFBENF36 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
16	(10)	X'14'	0	IFBENF36_HEADER_LENGTH	"*-IFBENF36" Assembled length of header not including actual Logrec record
20	(14)	BITSTRING	1	IFBENF36_RECORD_START(0)	Start of Logrec record
Versions of data area					
	....	...1		IFBENF36_LATEST_VERSION	"X'01'" Latest version of mapping
	....	...1		IFBENF36_1ST_VERSION	"X'01'" First version of mapping

Table 496. Cross Reference for IFBENF36

Name	Offset	Hex	Tag
IFBENF36	0		
IFBENF36_BYTE3_QUAL	E		
IFBENF36_BYTE4_QUAL	F		
IFBENF36_HEADER	0		
IFBENF36_HEADER_LENGTH	10		14
IFBENF36_ID	0		
IFBENF36_LATEST_VERSION	14		1
IFBENF36_LENGTH	6		
IFBENF36_QUALIFIER	C		
IFBENF36_RECORD_LENGTH	10		
IFBENF36_RECORD_START	14		
IFBENF36_RSVD1	8		
IFBENF36_RSVD2	C		
IFBENF36_VERSION	B		
IFBENF36_1ST_VERSION	14		1

Chapter 118. IFBLOGLB Information

IFBLOGLB Heading Information

Common Name: Logrec - Log Stream Log Block
 Macro ID: IFBLOGLB
 DSECT Name: IFBLOGLB, Loglb_current_record
 Owing Component: System Environmental Recording - Logrec (SCOBR)
 Eye-Catcher ID: 'IFBLOGLB'
 Offset: 0
 Length: 8
 Storage Attributes: Subpool: based on IXGBRWSE invoker
 Key: based on IXGBRWSE invoker
 Residency: ANY
 Size: 4096 bytes (1 page)
 IFBLOGLB -- X'001C' bytes
 Created by: IFBLOGBF - LOGREC Log Stream Log Block Buffering
 Routine
 Pointed to by: contained within the buffer specified on the BUFFER=
 parameter of the IXGBRWSE macro service
 Serialization: None
 Function: Mapping contains the format of a Logrec log stream log block.

IFBLOGLB mapping

Table 497. Structure IFBLOGLB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	28	IFBLOGLB	Logrec log stream log block
0	(0)	CHARACTER	28	LOGLB	Common name
0	(0)	CHARACTER	28	LOGLB_HEADER	
0	(0)	CHARACTER	8	LOGLB_ID	Eye Catcher
8	(8)	UNSIGNED	2	LOGLB_VERS	Version number
10	(A)	SIGNED	2	LOGLB_HEADER_LEN	Length of the header
12	(C)	CHARACTER	8	LOGLB_SYSTEM_NAME	System name where log block originated
20	(14)	SIGNED	4	LOGLB_NUM_REC_IN_BLOCK	The number of records within this log block
24	(18)	SIGNED	4	LOGLB_DATA_LEN	Length of all the records in the block excluding the Loglb_header
28	(1C)	CHARACTER	0	LOGLB_DATA	The variable length records in the format described by Loglb_current_record

Table 498. Structure LOGLB_CURRENT_RECORD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	*	LOGLB_CURRENT_RECORD	
0	(0)	SIGNED	4	LOGLB_REC_LEN	Length of record text excluding this len field
4	(4)	CHARACTER	*	LOGLB_REC_TEXT	Variable length LOGREC record

IFBLOGLB mapping

Table 499. Constants for IFBLOGLB

Len	Type	Value	Name	Description
These constants are used with the IFBLOGLB mapping				
8	CHARACTER	IFBLOGLB	LOGLB_EYE_CATCHER	The Loglb identifier
2	DECIMAL	1	LOGLB_VERSION	The version of the Loglb

Table 500. Cross Reference for IFBLOGLB

Name	Offset	Hex Tag
IFBLOGLB	0	
LOGLB	0	
LOGLB_CURRENT_RECORD	0	
LOGLB_DATA	1C	
LOGLB_DATA_LEN	18	
LOGLB_HEADER	0	
LOGLB_HEADER_LEN	A	
LOGLB_ID	0	
LOGLB_NUM_REC_IN_BLOCK	14	
LOGLB_REC_LEN	0	
LOGLB_REC_TEXT	4	
LOGLB_SYSTEM_NAME	C	
LOGLB_VERS	8	

Chapter 119. IFBNTASM Information

IFBNTASM Programming Interface Information

IFBNTASM is a programming interface.

IFBNTASM Heading Information

Common Name: System Level DSNLOGREC Name/Token Retrieve and ENF 49 signal mapping
Macro ID: IFBNTASM
DSECT Name: IFBNT_TOKEN and IFBNT_LOGREC
Owning Component: System Environmental Recording - LOGREC (SCOBR)
Eye-Catcher ID: None
Storage Attributes: Subpool: Determined by invoker of IEANTRT
or 241 for ENF 49 signals
Key: Determined by invoker of IEANTRT
or 0 for ENF 49 signals
Residency: Any
Size: IFBNT_TOKEN area is 16 (dec.) bytes, and
IFBNT_LOGREC area is 72 (dec.) bytes
Frequency: For DSNLOGREC name/token retrieve
IFBNT_TOKEN: 1 per invoker of IEANTRT
IFBNT_LOGREC: 1 per MVS image
For ENF 49 signal:
IFBNT_TOKEN: 1 per SETLOGRC command when
Logrec medium changed
IFBNT_LOGREC: 1 per SETLOGRC command when
Logrec medium changed
Created by: Invoker of the system level DSNLOGREC Name/Token
service or Logrec SETLOGRC command
processor.
Pointed to by: For DSNLOGREC name/token retrieve request:
TOKEN parameter from IEANTRT contains IFBNT_TOKEN area, and
IFBNT_LOGREC_NAME_PTR points to IFBNT_LOGREC area.
For ENF event code 49 signal:
Register 1 points to a word which contains the address
of the IFBNT_TOKEN area.
Serialization: None
Function: Provides a mapping for the use of system level
DSNLOGREC Name/Token Retrieve service from
390 Assembly Language, and the mapping
for the ENF event code 49 listen exit
input parameter list.

IFBNTASM mapping

Table 501. Structure IFBNT_TOKEN

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	0	IFBNT_TOKEN	, Token area
0	(0)	ADDRESS	4	IFBNT_LOGREC_NAME_PTR	Address of the LOGREC data set name area
4	(4)	BITSTRING	1	IFBNT_VERSION	Version of IFBNT_LOGREC

IFBNTASM mapping

Table 501. Structure IFBNT_TOKEN (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
5	(5)	BITSTRING	1	IFBNT_RESV1	Reserved for IBM
6	(6)	BITSTRING	2	IFBNT_LENGTH	Length of IFBNT_LOGREC area
8	(8)	CHARACTER	8	IFBNT_RESV2	Reserved for IBM
8	(8)	X'10'	0	IFBNT_TOKEN_LEN	"*-IFBNT_TOKEN" Length of IFBNT_TOKEN

Table 502. Structure IFBNT_LOGREC

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IFBNT_LOGREC	, Pointed to by IFBNT_LOGREC_NAME_PTR
0	(0)	CHARACTER	44	IFBNT_LOGREC_NAME	LOGREC data set name or no data set name string (see comments at end of mapping). Actual data set name is valid when the current recording medium is IFBNT_USE_DATASET
44	(2C)	BITSTRING	1	IFBNT_LOGREC_CURRENT	Current Logrec recording medium
45	(2D)	BITSTRING	1	IFBNT_LOGREC_PREVIOUS	Previous Logrec recording medium
46	(2E)	CHARACTER	26	IFBNT_LOGREC_LOGSTREAM	Logrec log stream name, valid when current recording medium is IFBNT_USE_LOGSTREAM
46	(2E)	X'48'	0	IFBNT_LOGREC_LEN	"*-IFBNT_LOGREC" Length of IFBNT_LOGREC

The following values are used in the following fields:

IFBNT_LOGREC_CURRENT
IFBNT_LOGREC_PREVIOUS

....	...1	IFBNT_USE_DATASET	"X'01'"	Logrec data set being used
....	..1.	IFBNT_USE_LOGSTREAM	"X'02'"	Logrec log stream being used
....	..11	IFBNT_IGNORE_RECORDS	"X'03'"	Logrec recording is ignored

If a Logrec data set was not defined during the IPL of the system then the following string will appear in field

IFBNT_LOGREC_NAME = '...NO.LOGREC.DATA.SET.DEFINED... '
End of DSNLOGREC Retrieve Name/Token Services Include

Table 503. Cross Reference for IFBNTASM

Name	Offset	Hex Tag
IFBNT_IGNORE_RECORDS	2E	3
IFBNT_LENGTH	6	
IFBNT_LOGREC	0	
IFBNT_LOGREC_CURRENT	2C	
IFBNT_LOGREC_LEN	2E	48
IFBNT_LOGREC_LOGSTREAM	2E	
IFBNT_LOGREC_NAME	0	
IFBNT_LOGREC_NAME_PTR	0	
IFBNT_LOGREC_PREVIOUS	2D	

Table 503. Cross Reference for IFBNTASM (continued)

Name	Offset	Hex Tag
IFBNT_RESV1	5	
IFBNT_RESV2	8	
IFBNT_TOKEN	0	
IFBNT_TOKEN_LEN	8	10
IFBNT_USE_DATASET	2E	1
IFBNT_USE_LOGSTREAM	2E	2
IFBNT_VERSION	4	

IFBNTASM mapping

Chapter 120. IGVCAUB Information

IGVCAUB Programming Interface Information

IGVCAUB is a programming interface.

IGVCAUB Heading Information

Common Name: Common Area User Block
Macro ID: IGVCAUB
DSECT Name: CAUB
Owning Component: Virtual Storage Manager (SC1CH)
Eye-Catcher ID: CAUB
Offset: 8
Length: 4
Storage Attributes: Subpool: 245
Key: 0
Residency: Above 16M line
Size: CAUB -- X'0068' bytes
Created by: IGVGCAS (VSM address space creation module).
IEAIPL04 (VSM IPL Resource Initialization Module).
IGVRQVR2 (VSM cell definition).
IGVSFBTB (VSM DATA summary/detail table).
IGVSFOWN (VSM DATA OWNCOMM report).
IGVVSCEL (VSM cell processing).
Pointed to by: VAB_CAUB
VAB_AS_CAUB
GDASCAUB
GDAFCAUB
GDALCAUB
CAUB_Unowned_Next
CAUB_Unowned_Prev
Details are as follows:
Address Space CAUB is pointed to by:
ASCBASSB -> ASSBVAB -> VAB_AS_CAUB -> CAUB
System CAUB is pointed to by:
GDASCAUB -> CAUB
ASCBASSB -> ASSBVAB -> VAB_CAUB points to:
- Address Space CAUB
While no job is running
- Job CAUB
While a job is running
- System CAUB
After address space end but before the ASCB
is re-initialized
Unknown CAUB (aka "no detail" CAUB) is pointed to by:
GDAUCAUB -> CAUB
CAUBs on the Unowned Queue (aka "owner gone" CAUBs)
are anchored by:
GDAFCAUB - Address of 1st CAUB on the unowned queue.
(GDAFCAUB has the address of itself when the
queue is empty.)
GDALCAUB - Address of last CAUB on the unowned queue.
(GDALCAUB is not valid and should not be used
when the queue is empty.)
Unowned Queue is double headed, double threaded, circular.

IGVCAUB Heading Information

Serialization: When writing to the CAUB, VSM uses the VSMFIX lock. When monitor programs read the CAUB, it would be best to do so with no serialization. (This is because holding the lock could impact system performance.) Note that this means that the CAUB could be freemained while being read. The CAUB may also be put on the queue of free CAUBs while being read. Monitors will need to handle this (e.g., a recovery routine could catch the reference to a freemained CAUB, and encountering a CAUB on the free queue could be taken as the end of the queue being run.) A CAUB on the free queue has a CAUB_ID field that is not 'CAUB'.

Function: Lists the number of bytes of common storage that are 'in use'. (Bytes that have been given to a caller of GETMAIN or STORAGE OBTAIN are 'in use'.) The CAUB_Level field will change if the CAUB changes. Users should interrogate the CAUB_Level field, and ignore CAUBs with an unrecognized level. There are 5 types of CAUBs:

- The job CAUB is a CAUB that describes storage owned by a job. In general, a job owns all the common storage that is GETMAINED when the address space in which the job runs is the home address space. (See the "Owner" keyword on the Getmain, Storage and Cpool macros for information about when the home address space is not the owner.)
- The address space CAUB describes storage obtained by an initiator address space when it is between jobs. For example, storage that is GETMAINED between the end of a batch job and the beginning of the next batch job is collected in the address space CAUB.
- The system CAUB describes storage owned by the system. The system owns common storage that was GETMAINED during times when it would be impossible or misleading to assign ownership to the job running in the home address space. For example, storage obtained during IPL, before any address spaces exist, is owned by the system. In addition, some operating system components explicitly indicate that the storage they obtain should be owned by the system.
- The "No Detail" CAUB describes common storage that was in use at the instant CSA tracking was stopped or started.
- An "Owner Gone" CAUB describes storage owned by a job that has terminated. These CAUBs are linked together on the "unowned" queue.

IGVCAUB mapping

Table 504. Structure CAUB

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	0	CAUB	Common area user block.
0	(0)	CHARACTER	52	CAUB_HEADER(0)	Header for CAUB_Proper. (CAUB_Proper has the counts, CAUB_Header has owner information.)

Link fields pertaining to the unowned queue. CAUBs are put on this queue when a job or address space terminates holding some common storage. These fields are the first thing in the CAUB because that makes queue manipulation a little easier.

Table 504. Structure CAUB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	ADDRESS	4	CAUB_UNOWNED_NEXT	Address of the next CAUB on the 'unowned' queue.
4	(4)	ADDRESS	4	CAUB_UNOWNED_PREV	Address of the previous CAUB on the 'unowned' queue. This is double threaded to make it easy to remove elements from the middle.
Fields that identify this control block as a CAUB.					
8	(8)	CHARACTER	4	CAUB_ID	Char string 'CAUB' - eyecatcher.
12	(C)	SIGNED	2	CAUB_LEVEL	Indicates the level of the CAUB. The value can be used to determine how the CAUB is mapped. CAUB_LEVEL_K1 indicates the HBB4430 level of this macro. Equate value CAUB_LEVEL_KCURRENT can be used to determine the most recent update level.
14	(E)	CHARACTER	2		Reserved
Fields that identify the job that owns some common storage. Part of the process of completing a common area GETMAIN requires that VSM decide which CAUB describes the job doing the GETMAIN. Which CAUB is chosen depends on how the GETMAIN was coded. The coder can choose to have VSM update the counts in the CAUB associated with the home, primary or secondary address space. The coder can also specify that VSM use the 'system CAUB', which is associated with no address space.					
16	(10)	CHARACTER	36	CAUB_CALLERID(0)	
16	(10)	CHARACTER	4	CAUB_ASN_WORD(0)	Whole register is stored here, but only bits 16-31 are meaningful.
16	(10)	CHARACTER	2		Reserved, set to 0 when CAUB_ASN is stored.
18	(12)	BITSTRING	2	CAUB_ASN	Address Space Number (ASN) identifying the address space that is associated with the job that owns some common storage. Note: '00'X here means that this CAUB tracks 'system' storage, which is not associated with any address space. This field comes from ASCBASID.
20	(14)	CHARACTER	8	CAUB_JOBNAME	Name of the job that was active when the storage was obtained. This is taken from ASCBJBNI or ASCBJBNS.
28	(1C)	CHARACTER	8	CAUB_JOBID(0)	Items from the JSAB that identify the owning job. These are obtained via the IAZXJSAB macro.

IGVCAUB mapping

Table 504. Structure CAUB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
28	(1C)	CHARACTER	8	CAUB_WORKID	Work Unit ID, aka Job ID. This comes from the JSAB. (There is 1 'valid' JSAB per address space) This ID is NOT unique within an instance of MVS when running in a 'Poly-JES' environment. Also, this ID is null for entities started under the master scheduler subsystem (e.g., some system address spaces, some started tasks).
<p>Fields pertaining to the unowned queue. CAUBs are put on this queue when a job or address space terminates holding some common storage. These fields are undefined (and probably 0) for CAUBs describing jobs that have not terminated.</p>					
36	(24)	CHARACTER	4	CAUB_UNOWNED_DATE	Date when the owner of this common storage terminated. This is undefined (and probably 0) for active jobs. Format is decimal, 0YYYYDDD, YYYY=Year, DDD=Day (Julian). For example, 01992001 represents Jan 1, 1992. (See documentation of the 'TIME' macro.)
40	(28)	CHARACTER	4	CAUB_UNOWNED_TIME	Time when the owner of this common storage terminated. This is undefined (and probably 0) for active jobs. (Packed decimal, HHMMSSth, HH=Hours, MM=Minutes, SS=Seconds, t=tenths, h=hundredths See documentation of the 'TIME' macro.)
<p>Various flags.</p>					
44	(2C)	CHARACTER	4	CAUB_FLAGS(0)	Indicates if this CAUB is a Job CAUB, an address space CAUB, or a system CAUB, and indicates whether this CAUB is on the unowned queue. Note that there is no bit to identify the unknown (aka the "no detail") Caub.
44	(2C)	CHARACTER	1	CAUB_TYPE(0)	
		1... ..		CAUB_UNOWNED	"X'80'" If on, this CAUB is on the unowned queue. Needed by FREEMAIN, so it can determine whether to free this CAUB if the counts are 0. A CAUB on the unowned queue is still marked as a Job or Address Space CAUB.
<p>No more than one of the following bits should be on. Any other combination indicates a VSM bug.</p>					

Table 504. Structure CAUB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		CAUB_SYSTEM	"X'40'" If on, this CAUB is the 'system' CAUB. Common storage obtained by system functions should be charged to the system. Thus, the job CAUB is sometimes really the system CAUB. CAUB_System exists to make it easy to tell when this is the case.
		..1.		CAUB_JOB	"X'20'" If on, this CAUB is a 'job CAUB'. (See "Function" section for more information on 'job CAUB').
		...1		CAUB_ADDRESSSPACE	"X'10'" If on, this CAUB is an 'address space CAUB'. See "Function" section for more information on 'address space CAUB'.
45	(2D)	CHARACTER	1	CAUB_DATAINCOMPLETE(0)	Bits indicating that tracking was not enabled at some point during the life of this CAUB
		1...		CAUB_CSADATAINCOMPLETE	"X'80'" If on, tracking for CSA data was not enabled at some point during the life of this CAUB
		.1..		CAUB_SQADATAINCOMPLETE	"X'40'" If on, tracking for SQA data was not enabled at some point during the life of this CAUB
48	(30)	CHARACTER	4		Reserved
The fields below contain a count of how much common storage is being used by the entity described in CAUB_Header.					
52	(34)	CHARACTER	16	CAUB_COUNTS(0)	
52	(34)	SIGNED	4	CAUB_CSA_BELOW	Amount of GETMAINED non-extended CSA storage, in bytes, owned by the entity described in CAUB_Header.
56	(38)	SIGNED	4	CAUB_SQA_BELOW	Amount of GETMAINED non-extended SQA storage, in bytes, owned by the entity described in CAUB_Header.
60	(3C)	SIGNED	4	CAUB_CSA_ABOVE	Amount of GETMAINED extended CSA storage, in bytes, owned by the entity described in CAUB_Header.
64	(40)	SIGNED	4	CAUB_SQA_ABOVE	Amount of GETMAINED extended SQA storage, in bytes, owned by the entity described in CAUB_Header.
68	(44)	CHARACTER	4		
72	(48)	CHARACTER	16	CAUB_PROTECT_COUNTS(0)	
72	(48)	SIGNED	4	CAUB_PROTECT_CSA_BELOW	Amount of GETMAINED non-extended CSA storage, in bytes, owned by the entity described in CAUB_Header, used for Protect Area

IGVCAUB mapping

Table 504. Structure CAUB (continued)

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
76	(4C)	SIGNED	4	CAUB_PROTECT_SQA_BELOW	Amount of GETMAINED non-extended SQA storage, in bytes, owned by the entity described in CAUB_Header, used for Protect Area
80	(50)	SIGNED	4	CAUB_PROTECT_CSA_ABOVE	Amount of GETMAINED extended CSA storage, in bytes, owned by the entity described in CAUB_Header, used for Protect Area
84	(54)	SIGNED	4	CAUB_PROTECT_SQA_ABOVE	Amount of GETMAINED extended SQA storage, in bytes, owned by the entity described in CAUB_Header, used for Protect Area
88	(58)	CHARACTER	16	CAUB_DETECT_COUNTS(0)	
88	(58)	SIGNED	4	CAUB_DETECT_CSA_BELOW	Amount of GETMAINED non-extended CSA storage, in bytes, owned by the entity described in CAUB_Header, used for Detect Suffix
92	(5C)	SIGNED	4	CAUB_DETECT_SQA_BELOW	Amount of GETMAINED non-extended SQA storage, in bytes, owned by the entity described in CAUB_Header, used for Detect Suffix
96	(60)	SIGNED	4	CAUB_DETECT_CSA_ABOVE	Amount of GETMAINED extended CSA storage, in bytes, owned by the entity described in CAUB_Header, used for Detect Suffix
100	(64)	SIGNED	4	CAUB_DETECT_SQA_ABOVE	Amount of GETMAINED extended SQA storage, in bytes, owned by the entity described in CAUB_Header, used for Detect Suffix
100	(64)	X'C1E4C2'	0	CAUB_ID_K	"C'CAUB'" Eyecatcher.
100	(64)	X'0'	0	CAUB_ASN_KSYSTEM	"0" When CAUB_ASN contains this value, there is no owning address space - the storage is owned by the 'system'.
100	(64)	X'1'	0	CAUB_LEVEL_KCURRENT	"1" Most recent level of the CAUB.
Constants are declared for every existing level of the CAUB.					
100	(64)	X'1'	0	CAUB_LEVEL_K1	"1" HBB4430 level
100	(64)	X'68'	0	CAUB_LEN	"*-CAUB"

Table 505. Cross Reference for IGVCAUB

Name	Offset	Hex Tag
CAUB	0	
CAUB_ADDRESSSPACE	2C	10
CAUB_ASN	12	
CAUB_ASN_KSYSTEM	64	0
CAUB_ASN_WORD	10	
CAUB_CALLERID	10	
CAUB_COUNTS	34	

Table 505. Cross Reference for IGVCAUB (continued)

Name	Offset	Hex Tag
CAUB_CSA_ABOVE	3C	
CAUB_CSA_BELOW	34	
CAUB_CSADATAINCOMPLETE	2D	80
CAUB_DATAINCOMPLETE	2D	
CAUB_DETECT_COUNTS	58	
CAUB_DETECT_CSA_ABOVE	60	
CAUB_DETECT_CSA_BELOW	58	
CAUB_DETECT_SQA_ABOVE	64	
CAUB_DETECT_SQA_BELOW	5C	
CAUB_FLAGS	2C	
CAUB_HEADER	0	
CAUB_ID	8	
CAUB_ID_K	64	C1E4C2
CAUB_JOB	2C	20
CAUB_JOBID	1C	
CAUB_JOBNAME	14	
CAUB_LEN	64	68
CAUB_LEVEL	C	
CAUB_LEVEL_KCURRENT	64	1
CAUB_LEVEL_K1	64	1
CAUB_PROTECT_COUNTS	48	
CAUB_PROTECT_CSA_ABOVE	50	
CAUB_PROTECT_CSA_BELOW	48	
CAUB_PROTECT_SQA_ABOVE	54	
CAUB_PROTECT_SQA_BELOW	4C	
CAUB_SQA_ABOVE	40	
CAUB_SQA_BELOW	38	
CAUB_SQADATAINCOMPLETE	2D	40
CAUB_SYSTEM	2C	40
CAUB_TYPE	2C	
CAUB_UNOWNED	2C	80
CAUB_UNOWNED_DATE	24	
CAUB_UNOWNED_NEXT	0	
CAUB_UNOWNED_PREV	4	
CAUB_UNOWNED_TIME	28	
CAUB_WORKID	1C	

IGVCAUB mapping

Chapter 121. IGVDGNB Information

IGVDGNB Heading Information

Common Name: Diagnostic traps indicators
 Macro ID: IGVDGNB
 DSECT Name: DGNB
 Owing Component: VSM (SC1CH)
 Eye-Catcher ID: DGNB
 Offset: 0
 Length: 4
 Storage Attributes: Key: 0
 Residency: EXTENDED NUCLEUS,Above 16M line
 Size: 1344 bytes
 DGNBCBLOCV24 -- X'0004' bytes
 DGNBCBLOCV31 -- X'0004' bytes
 DGNBAUTOIPL -- X'0040' bytes
 DGNB -- X'04F8' bytes
 Created by: IGVTRCTL
 Pointed to by: ECVTDGNB
 Serialization: ENQ/DEQ is used to that only 1 SET DIAG command is processing at any time.
 Programs which use filters (such as the asid/jobname filter routine) must use the following protocol to ensure that a concurrent partial update of the DGNB by SET DIAG processing does not allow them to process a trap in a case where it was not requested.
 Make a copy of DgnbSyncCnt
 IF applicable trap active bit is on THEN
 Check other applicable filters
 IF filtering passes THEN
 IF DgnbSyncCnt = the copy of DgnbSyncCnt THEN
 Process the trap
 ELSE
 Do not process the trap
 ELSE
 Do not process the trap
 ELSE
 Do not process the trap
 SET DIAG processing must follow the following protocol:
 1) Turn off all trap active bits.
 2) Increment DgnbSyncCnt.
 3) Update the filters.
 4) Turn on the new trap active bits.
 Function: The DGNB indicates which diagnostic traps are active.

IGVDGNB mapping

Table 506. Structure DGNB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DGNB	
0	(0)	CHARACTER	4	DGNBID	Control block id

IGVDGNB mapping

Table 506. Structure DGNB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	CHARACTER	2	DGNBVER	Version number
6	(6)	CHARACTER	1	DGNBFLAGS	Flags
6	(6)	BITSTRING	1	DGNBFLAG1	First flag byte
6	(6)	BITSTRING	1		Reserved
7	(7)	CHARACTER	1	DGNBRESV1	Reserved
8	(8)	CHARACTER	4	DGNBRESV2	Reserved
12	(C)	ADDRESS	4	DGNBFILTERROUTINEADDR	Address of filter routine, with Amode bit set on
16	(10)	CHARACTER	1060	DGNBZERO	Initialize to zeros
16	(10)	SIGNED	2	DGNBSYNCCNT	Update synchronization count
18	(12)	CHARACTER	2		Reserved
20	(14)	CHARACTER	60	DGNBBITS	
20	(14)	CHARACTER	4	DGNBWORD1	
20	(14)	BITSTRING	1	DGNBBYTE1	

Bit definitions:

		1... ..		DGNB_TEMP1	"X'80'" For temporary use
		.1.. ..		DGNB_TEMP2	"X'40'" For temporary use
		..1.		DGNB_TEMP3	"X'20'" For temporary use
		...1		DGNB_TEMP4	"X'10'" For temporary use
		.... 1...		DGNB_TEMP5	"X'08'" For temporary use
		.... .1..		DGNB_TEMP6	"X'04'" For temporary use
		.... ..1.		DGNB_TEMP7	"X'02'" For temporary use
		.... ...1		DGNB_TEMP8	"X'01'" For temporary use
21	(15)	BITSTRING	1	DGNBBYTE2	

Bit definitions:

		1... ..		DGNB_TEMP9	"X'80'" For temporary use
		.1.. ..		DGNB_TEMP10	"X'40'" For temporary use
		..1.		DGNB_TEMP11	"X'20'" For temporary use
		...1		DGNB_TEMP12	"X'10'" For temporary use
		.... 1...		DGNB_TEMP13	"X'08'" For temporary use
		.... .1..		DGNB_TEMP14	"X'04'" For temporary use
		.... ..1.		DGNB_TEMP15	"X'02'" For temporary use
		.... ...1		DGNB_TEMP16	"X'01'" For temporary use
22	(16)	BITSTRING	1	DGNBBYTE3	

Bit definitions:

		1... ..		DGNB_TEMP1	"X'80'" For temporary use
		.1.. ..		DGNB_TEMP2	"X'40'" For temporary use
		..1.		DGNB_TEMP3	"X'20'" For temporary use
		...1		DGNB_TEMP4	"X'10'" For temporary use
		.... 1...		DGNB_TEMP5	"X'08'" For temporary use
		.... .1..		DGNB_TEMP6	"X'04'" For temporary use
		.... ..1.		DGNB_TEMP7	"X'02'" For temporary use
		.... ...1		DGNB_TEMP8	"X'01'" For temporary use
23	(17)	BITSTRING	1	DGNBBYTE4	

Bit definitions:

		1... ..		DGNB_TEMP9	"X'80'" For temporary use
		.1.. ..		DGNB_TEMP10	"X'40'" For temporary use
		..1.		DGNB_TEMP11	"X'20'" For temporary use
		...1		DGNB_TEMP12	"X'10'" For temporary use

Table 506. Structure DGNB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		DGNB_TEMP13	"X'08'" For temporary use
		.... .1..		DGNB_TEMP14	"X'04'" For temporary use
		.... ..1.		DGNB_TEMP15	"X'02'" For temporary use
		.... ...1		DGNB_TEMP16	"X'01'" For temporary use
24	(18)	CHARACTER	4	DGNBWORD2	
24	(18)	BITSTRING	1	DGNBBYTE5	
Bit definitions:					
		1...		DGNB_IGVINITCPOOL	"X'80'" Initialize Cpool storage
		.1..		DGNB_IGVUNCOND	"X'40'" Make all Freemains and STORAGE RELEASEs unconditional
		..1.		DGNB_IGVINITGETMAIN	"X'20'" Initialize GETMAINED storage
		...1		DGNB_IGVNEWPAGE24	"X'10'" Use new page for 24 bit Getmains
		.... 1...		DGNB_IGVNEWPAGE31	"X'08'" Use new page for 31 bit Getmains
		.... .1..		DGNB_IGVDIAGXXABEND	"X'04'" Issue abend for some DIAGxx processing errors
		.... ..1.		DGNB_IGVNOUSERKEYCSA	"X'02'" Abend requestors of user key CSA
		.... ...1		DGNB_IGVCPPOOLGETV	"X'01'" CPOOL GET validity checking
25	(19)	BITSTRING	1	DGNBBYTE6	
Bit definitions:					
		1...		DGNB_IEANOSUSPSYSTRC	"X'80'" Do not suspend system trace when WAIT task is dispatched
		.1..		DGNB_IEASCHEDULEV	"X'40'" SCHEDULE validity checking
		..1.		DGNB_IEASPINLOCKV	"X'20'" Spin lock validity checking
		...1		DGNB_IEAINITARSRB	"X'10'" Initialize access registers for SRB dispatch. Also does G64H
		.... 1...		DGNB_IEACMSETV	"X'08'" CMSET validity checking
		.... .1..		DGNB_IEASCHEDULETRACE	"X'04'" SCHEDULE tracing
		.... ..1.		DGNB_IERISGNLTRACE	"X'02'" RISGNL tracing
		.... ...1		DGNB_IEARPSGNLTRACE	"X'01'" RPSGNL tracing
26	(1A)	BITSTRING	1	DGNBBYTE7	
Bit definitions:					
		1...		DGNB_IEANOSDWA	"X'80'" (E)STAE(X) and ARR routines get no SDWA
		.1..		DGNB_IXCRECSTRALLOC	"X'40'" Do symrec recording for structure allocation
		..1.		DGNB_IEAINITREGSTASK	"X'20'" Initialize ARs and G64H for task dispatch
		...1		DGNB_IGVINITFREEMAIN	"X'10'" Initialize FREEMAINED storage
		.... 1...		DGNB_IGVCPPOOLFREEQ	"X'08'" Check for already freed CPOOL cell

IGVDGNB mapping

Table 506. Structure DGNB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		DGNB_CNZTRON	"X'04'" Early SETCON TR=ON. Do not use as of HBB7790.
		.... ..1.		DGNB_CNZTRONWITHABEND	"X'02'" Early SETCON TR=OnWithAbend. Do not use as of HBB7790.
		.... ...1		DGNB_IXLDUPOUTOFSYNCH	"X'01'" Initiate CFCC diag cmd for duplex out of synch conditions
27	(1B)	BITSTRING	1	DGNBBYTE8	
Bit definitions:					
		1...		DGNB_IOSPROTCAPTUCB	"X'80'" Protect captured views of UCBs
		.1..		DGNB_CSVRENTSP252	"X'40'" Put all private RENT modules in SP252
		..1.		DGNB_CSVRENTPROTECT	"X'20'" Page Protect full pages of RENT modules
		...1		DGNB_IHLBREAKDUPLEX	"X'10'" Initiate SVC dump for break duplex condition
		.... 1...		DGNB_CSVSP252ROUNDUP	"X'08'" Round extent sizes of SP 252 modules up to a page multiple
		.... .1..		DGNB_CSVSP228ROUNDUP	"X'04'" Round extent sizes of SP 228 modules up to a page multiple
		.... ..1.		DGNB_CSVSP241ROUNDUP	"X'02'" Round extent sizes of SP 241 modules up to a page multiple
		.... ...1		DGNB_IGVCPoolFREEQPXT	"X'01'" Use HEXDATA as a list of PXT addresses for filtering
28	(1C)	CHARACTER	4	DGNBWORD3	
28	(1C)	BITSTRING	1	DGNBBYTE9	
Bit definitions:					
		1...		DGNB_IARSERIALIZEPIN	"X'80'" Serialize RSM PIN processing
		.1..		DGNB_IEFABENDIEF702I	"X'40'" Abend on msg IEF702I
		..1.		DGNB_IEASETFRRENV	"X'20'" Check environment (locked, disabled, SRB mode, or EUT FRR mode) when using SETFRR
		...1		DGNB_IEASETFRRMODE	"X'10'" Abend if SETFRR is used for a super FRR stack in 24-bit addressing mode. IeaSetFrrEnv must also be active for this to take effect.
		.... 1...		DGNB_ASNREUSE	"X'08'" Activate ASNReuse code
		.... .1..		DGNB_IOSDCMMSGs	"X'04'" IOS DCM Messages
		.... ..1.		DGNB_HZSCHECK	"X'02'" Healthchecker checks
		.... ...1		DGNB_ICVTESTEADSCB	"X'01'" Fail OBTAIN and CVAFxx requests if the data set is EAV eligible and the EADSCB=OK parameter is not specified, regardless of whether the volume is an EAV
29	(1D)	BITSTRING	1	DGNBBYTE10	

Table 506. Structure DGNB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
Bit definitions:					
		1...		DGNB_IOSCCMMSG	"X'80'" IOS CCM Messages
		.1..		DGNB_IEAMISUSEPMC	"X'40'" Detect misuse of Process Must Complete
		..1.		DGNB_BLWEXSNXESDETECT	"X'20'" Excessive spin XES hang detection
		...1		DGNB_IOSFCTCLOG	"X'10'" Ficon CTC log
		.... 1..		DGNB_IGVDAQATCKPT	"X'08'" Make copy of AQATs before doing compression
		.... .1..		DGNB_IXLNORTESUPPRESS	"X'04'"
		.... .1.		DGNB_IXLDUPLXWRTCLI	"X'02'"
		.... ...1		DGNB_IXLNOIRTCCOMP	"X'01'" Suppress immediate RTC completion
30	(1E)	BITSTRING	1	DGNBBYTE11	
Bit definitions:					
		1...		DGNB_IARST64INITGET	"X'80'"
		.1..		DGNB_IARST64INITFREE	"X'40'"
		..1.		DGNB_IARCP64INITGET	"X'20'"
		...1		DGNB_IARCP64INITFREE	"X'10'"
		.... 1..		DGNB_IARCP64TRAILER	"X'08'"
		.... .1..		DGNB_IARST64TRAILER	"X'04'"
		.... .1.		DGNB_IEASYSTRCNOLIMIT	"X'02'"
		.... ...1		DGNB_IOSZDACMSG	"X'01'"
31	(1F)	BITSTRING	1	DGNBBYTE12	
Bit definitions:					
		1...		DGNB_IDAVSAMHC	"X'80'"
		.1..		DGNB_IEAZADUNCOND	"X'40'"
		..1.		DGNB_IARNOPAGE0DS	"X'20'"
		...1		DGNB_IEARTM2SNAPX22	"X'10'" Tell RTM to capture SNAPTRC for Cancel/Detach
		.... 1..		DGNB_ATRSERCHECKS	"X'08'" Enable serialization hierarchy checks for RRS
		.... .1..		DGNB_IEARTM2NOSNAPTRC	"X'04'" Tell RTM not to capture SNAPTRC at all
		.... ..11		DGNB_TX	"X'03'"
		.... .1.		DGNB_IEATXABEVERY	"X'02'"
		.... ...1		DGNB_IEATXABRANDOM	"X'01'"
32	(20)	CHARACTER	4	DGNBWORD4	
32	(20)	BITSTRING	1	DGNBBYTE13	
Bit definitions:					
		1...		DGNB_IEARTMRECORDALL	"X'80'" Tell RTM to record after calling every recovery routine
		.1..		DGNB_IEADIEFPR	"X'40'" Check that a timer DIE does not clobber any FPR
		..1.		DGNB_IBMSYSTEMTEST	"X'20'"
		...1		DGNB_BLWEXSNPROC DIAG	"X'10'" Perform processor diagnostics for excessive spin. Use only as directed by IBM support

IGVDGNB mapping

Table 506. Structure DGNB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		DGNB_BLWEXSNABEND06B	"X'08'" Issue a 06B-04 abend for excessive spin. Use only as directed by IBM support
		.... .1..		DGNB_BLWEXSNXESPROCDG	"X'04'" Excessive spin XES processor diagnostics. Use only as directed by IBM support
		.... ..1.		DGNB_IOSPCIESIMMSG	"X'02'" IOS PCIE Simulation should issue messages
		.... ...1		DGNB_CSVGLOBALMT	"X'01'" Load-to-Global but space is memtermable
33	(21)	BITSTRING	1	DGNBBYTE14	
Bit definitions:					
		1...		DGNB_IOSHPNOTHROTTLE	"X'80'" I/O Supervisor trap - use only as directed by IOS Level 2 support.
		.1..		DGNB_IOSBVOF	"X'40'" I/O Supervisor trap - use only as directed by IOS Level 2 support.
		..1.		DGNB_IOSIGNOREPLUSONE	"X'20'" IOS PCIE ignore setting of PlusOne bit
		...1		DGNB_IEFJSSINOVAL	"X'10'" Do not validate SSI initialization routines
		.... 1...		DGNB_IEASLIPCONFIRM	"X'08'" SLIP is to confirm with the user if MODE=HOME is specified without Jobname/Asid
		.... .1..		DGNB_IEFOPZ	"X'04'" IEFOPZ
		.... ..1.		DGNB_ASETRMXNOSAVEA	"X'02'" The ASCRE TRMEXIT is not to be given a savearea when the ASCRE issuer is system key but the ASCRE issuer's task is not, for a non-APF space or for a TSO APF space
		.... ...1		DGNB_IEASYSIRBNOSAVEA	"X'01'" A system key IRB scheduled to a user key task is not to be given a save area even if one is requested
36	(24)	CHARACTER	44		Reserved
80	(50)	CHARACTER	248	DGNBTRAPS	
80	(50)	CHARACTER	72	DGNBJOBS	
80	(50)	SIGNED	2	DGNB#JOBS	Count of how many Jobnames are in list. Maximum is 8.
82	(52)	BITSTRING	1	DGNBJOBSFLAGS	Flags
Bit definitions:					
		1...		DGNBJOBNAMEWILD	"X'80'" At least one of the jobnames in the list contains a wildcard
83	(53)	CHARACTER	5		Reserved
88	(58)	CHARACTER	8	DGNBJOBNAME	List of Jobnames
152	(98)	CHARACTER	72	DGNBLENS	
152	(98)	SIGNED	2	DGNB#LENS	Count of how many lengths are in list. Maximum is 8.
154	(9A)	CHARACTER	6		Reserved
160	(A0)	CHARACTER	8	DGNBLENLIST	List of lengths.

Table 506. Structure DGNB (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
160	(A0)	SIGNED		4	DGNBLENSTART	Start length for range.
164	(A4)	SIGNED		4	DGNBLENSTOP	Stop length for range.
224	(E0)	CHARACTER		68	DGNBASIDS	
224	(E0)	SIGNED		2	DGNB#ASIDS	Count of how many Asids are in list. Maximum is 16.
226	(E2)	CHARACTER		2		Reserved
228	(E4)	CHARACTER		4	DGNBASIDLIST	List of Asids.
228	(E4)	SIGNED		2	DGNBASIDSTART	Start Asid for range.
230	(E6)	SIGNED		2	DGNBASIDSTOP	Stop Asid for range.
292	(124)	BITSTRING		2	DGNBKEYBITS	Key N is being traced when DgnbKeyBits(N+1) is on.
294	(126)	BITSTRING		1	DGNBFILTERFLAGS	
Bit definitions:						
		1111	1...		DGNBFILTERACTIVE	"X'F8"
		1...	....		DGNBJOBNAMEFILT	"X'80" Jobname filtering is active
		.1..	....		DGNBASIDFILT	"X'40" Asid filtering is active
		.1.	....		DGNBSUBPOOLFILT	"X'20" Subpool filtering is active
		...1	....		DGNBKEYFILT	"X'10" Key filtering is active
		....	1...		DGNBLENGTHFILT	"X'08" Length filtering is active
295	(127)	CHARACTER		1		Reserved
296	(128)	BITSTRING		32	DGNBSUBPOOLBITS	Subpool N is being traced when DgnbSubpoolBits(N+1) is on.
328	(148)	CHARACTER		248	DGNBPROTECT	PROTECT filters
576	(240)	CHARACTER		248	DGNBDETECT	DETECT filters
824	(338)	CHARACTER		72	DGNBCHARDATALIST	
824	(338)	SIGNED		2	DGNB#CHARDATAS	Count of how many CharData fields are in the list. Maximum is 8.
826	(33A)	CHARACTER		6		Reserved
832	(340)	CHARACTER		8	DGNBCHARDATA	CharData value
896	(380)	CHARACTER		36	DGNBHEXDATALIST	
896	(380)	SIGNED		2	DGNB#HEXDATAS	Count of how many HexData fields are in the list. Maximum is 8.
898	(382)	CHARACTER		2		Reserved
900	(384)	CHARACTER		4	DGNBHEXDATA	HexData value
932	(3A4)	SIGNED		4	DGNBCPOOLFREEQMAX	
936	(3A8)	CHARACTER		100	DGNBSUFFIXES	
936	(3A8)	SIGNED		2	DGNB#SUFFIXES	Count of the number of suffixes. Maximum is 8
938	(3AA)	CHARACTER		2		Reserved
940	(3AC)	CHARACTER		12	DGNBSUFFIX	
940	(3AC)	CHARACTER		4	DGNBSUFFIXTIME	Time when this suffix became the current suffix
Bit definitions:						
		1...	....		DGNBSUFFIXTIMEHIGHBIT	"X'80"
944	(3B0)	CHARACTER		8	DGNBSUFFIXDATA	Data for DETECT suffix
1036	(40C)	CHARACTER		2	DGNBSTGINIT	Data for storage initialization
1036	(40C)	CHARACTER		1	DGNBSTGINITFLAGS	Flags

IGVDGNB mapping

Table 506. Structure DGNB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
Bit definitions:					
		1... ..		DGNBSTGINITSPEC	"X'80'" Storage initialization value was specified
1037	(40D)	CHARACTER	1	DGNBSTGINITVAL	Value for initializing CPOOL GET and Getmain/Storage Obtains
1038	(40E)	BITSTRING	1	DGNBPROTDETON	PROTECT/DETECT ON flags
Bit definitions:					
		1111		DGNBPROTECTON	"X'F0'" PROTECT indicators
		11..		DGNBPROTECTCSAON	"X'C0'"
		1...		DGNBPROTECTCSA24ON	"X'80'" PROTECT CSA24(ON)
		.1..		DGNBPROTECTCSA31ON	"X'40'" PROTECT CSA31(ON)
		..11		DGNBPROTECTSQAON	"X'30'"
		..1.		DGNBPROTECTSQA24ON	"X'20'" PROTECT SQA24(ON)
		...1		DGNBPROTECTSQA31ON	"X'10'" PROTECT SQA31(ON)
		.... 1111		DGNBDETECTON	"X'0F'" DETECT indicators
		.... 11..		DGNBDETECTCSAON	"X'0C'"
		.... 1...		DGNBDETECTCSA24ON	"X'08'" DETECT CSA24(ON)
		.... .1..		DGNBDETECTCSA31ON	"X'04'" DETECT CSA31(ON)
		.... ..11		DGNBDETECTSQAON	"X'03'"
		.... ..1.		DGNBDETECTSQA24ON	"X'02'" DETECT SQA24(ON)
		.... ...1		DGNBDETECTSQA31ON	"X'01'" DETECT SQA31(ON)
1039	(40F)	BITSTRING	1	DGNBPROTDETECTIVE	PROTECT/DETECT Active flags
Bit definitions:					
		1111		DGNBCSAACTIVE	"X'F0'" CSA tracking required
		1...		DGNBPROTECTCSA24ACTIVE	"X'80'" PROTECT has been ON for CSA24 at some time since IPL
		.1..		DGNBPROTECTCSA31ACTIVE	"X'40'" PROTECT has been ON for CSA31 at some time since IPL
		..1.		DGNBDETECTCSA24ACTIVE	"X'20'" DETECT has been ON for CSA24 at some time since IPL
		...1		DGNBDETECTCSA31ACTIVE	"X'10'" DETECT has been ON for CSA31 at some time since IPL
		.... 1111		DGNBSQAACTIVE	"X'0F'" SQA tracking required
		.... 1...		DGNBPROTECTSQA24ACTIVE	"X'08'" PROTECT has been ON for SQA24 at some time since IPL
		.... .1..		DGNBPROTECTSQA31ACTIVE	"X'04'" PROTECT has been ON for SQA31 at some time since IPL
		.... ..1.		DGNBDETECTSQA24ACTIVE	"X'02'" DETECT has been ON for SQA24 at some time since IPL
		.... ...1		DGNBDETECTSQA31ACTIVE	"X'01'" DETECT has been ON for SQA31 at some time since IPL
1040	(410)	CHARACTER	10	DGNBCHECKREGIONLOSS	
1040	(410)	SIGNED	4	DGNBCHECKREGIONLOSS24	
1044	(414)	SIGNED	4	DGNBCHECKREGIONLOSS31	
1048	(418)	CHARACTER	1	DGNBCHECKREGIONLOSS24UNIT	K, M, or X'00'
1049	(419)	CHARACTER	1	DGNBCHECKREGIONLOSS31UNIT	K, M, or X'00'
1050	(41A)	CHARACTER	2		Reserved
1052	(41C)	CHARACTER	4	DGNBPRIMEPSAVALUE	Test value being used for PrimePSA function
1056	(420)	CHARACTER	8	DGNBVSMDETECTMONITORTIME	Time at which last completed IGVDGNMN pass was started

Table 506. Structure DGNB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1064	(428)	CHARACTER	10	DGNBPRIVATEBUFFER	
1064	(428)	SIGNED	4	DGNBPRIVATEBUFFER24	
1068	(42C)	SIGNED	4	DGNBPRIVATEBUFFER31	
1072	(430)	CHARACTER	1	DGNBPRIVATEBUFFER24UNIT	K, M, or X'00'
1073	(431)	CHARACTER	1	DGNBPRIVATEBUFFER31UNIT	K, M, or X'00'
1074	(432)	BITSTRING	1	DGNBOPTIONS1	
Bit definitions:					
		1... ..		DGNBALLOWUSERKEYCSANO	"X'80'" AllowUserKeyCSA(NO) was specified or defaulted
		.1.. ..		DGNBALLOWUSERKEYCSASPEC	"X'40'" AllowUserKeyCSA was specified
		..1.		DGNBREUSASIDYES	"X'20'" ReusAsid(Yes) was specified or defaulted
		...1		DGNBREUSASIDSPEC	"X'10'" ReusAsid was specified
		.... 1...		DGNBUSEZOSV1R9RULESNO	"X'08'" UseZOSV1R9Rules(NO) was specified
		.... .1..		DGNBALLOWUSERKEYCADSNO	"X'04'" AllowUserKeyCADS(NO) was specified or defaulted
		.... ..1.		DGNBALLOWUSERKEYCADSSPEC	"X'02'" AllowUserKeyCADS was specified
1075	(433)	BITSTRING	1	DGNBOPTIONS2	
Bit definitions:					
		1... ..		DGNBBESTFITCSA	"X'80'" BestFitCSA was specified
1076	(434)	CHARACTER	32	DGNBNONZERO1	Do not initialize to zeros
1076	(434)	ADDRESS	4	DGNBCBLOCV24ADDR	
1080	(438)	ADDRESS	4	DGNBCBLOCV31ADDR	
1084	(43C)	ADDRESS	4	DGNBAUTOIPLADDR	
1088	(440)	CHARACTER	20	DGNBNONZERO1RESV	Reserved
1108	(454)	CHARACTER	12	DGNBZERO2	Initialize to zeros
1108	(454)	CHARACTER	12		Reserved
1120	(460)	CHARACTER	4	DGNBCBLOCV24STG	
1124	(464)	CHARACTER	4	DGNBCBLOCV31STG	
1128	(468)	CHARACTER	64	DGNBAUTOIPLSTG	
1192	(4A8)	CHARACTER	80	DGNBFREEMAINEDFRAMESINFO	FreemainedFrames info
1192	(4A8)	BITSTRING	1	DGNBFREEMAINEDFRAMESOPTIONS1	Options byte 1 for FreemainedFrames
Bit definitions:					
		1... ..		DGNBFREEMAINEDFRAMESSPECIFIED	"X'80'" FreemainedFrames statement was specified
		.1.. ..		DGNBFREEMAINEDFRAMESNO	"X'40'" FreemainedFrames(NO) was specified
1193	(4A9)	CHARACTER	7		Reserved
1200	(4B0)	CHARACTER	72	DGNBFFEXCLUDEJOBS	ExcludeJobList
1200	(4B0)	SIGNED	2	DGNB#FFEXCLUDEJOBS	Count of how many jobnames are in this list. Maximum is 8.
1202	(4B2)	BITSTRING	1	DGNBFFEXCLUDEJOBNAMEWILD	Indicates jobname contains a wildcard.
1203	(4B3)	CHARACTER	5		Reserved
1208	(4B8)	CHARACTER	8	DGNBFFEXCLUDEJOBNAME	List of jobnames

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Table 506. Structure DGNB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1272	(4F8)	X'4F8'	0	DGNB_LEN	"*-DGNB"

Table 507. Structure DGNBCBLOCV24

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DGNBCBLOCV24	
0	(0)	BITSTRING	1	DGNBCBLOCV24BYTE0	

Bit definitions:

		1...		DGNBCBLOCV24IEAFRRSTACKS	"X'80'" I/O and External super FRR stacks and SDWAs
		.1..		DGNBCBLOCV24IEFALLOCDYNSTG	"X'40'" Allocation dynamic area storage (ie. GSPACE)
		..1.		DGNBCBLOCV24IHAPCCA	"X'20'"
		...1		DGNBCBLOCV24IHALCCA	"X'10'"
		.... 1...		DGNBCBLOCV24IHASDWAFFRR	"X'08'" SDWA for AMODE 64 FRRs
		.... .1..		DGNBCBLOCV24IHAASVT	"X'04'"
		.... ..1.		DGNBCBLOCV24IHAXTLST	"X'02'"
		.... ...1		DGNBCBLOCV24CNZSSICB	"X'01'"
1	(1)	BITSTRING	1	DGNBCBLOCV24BYTE1	

Bit definitions:

		1...		DGNBCBLOCV24IEFMASTERSWA	"X'80'" SWA for *MASTER* address space
2	(2)	CHARACTER	2		Reserved
2	(2)	X'4'	0	DGNBCBLOCV24_LEN	"*-DGNBCBLOCV24"

Table 508. Structure DGNBCBLOCV31

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DGNBCBLOCV31	
0	(0)	BITSTRING	1	DGNBCBLOCV31BYTE0	

Bit definitions:

		1...		DGNBCBLOCV31IEFSUBMSTRSWA	"X'80'" SWA for address spaces started with SUB=MSTR which specify IEFBR14 (or nothing) as an initialization routine Not supported!
		.1..		DGNBCBLOCV31IEFMASTERSWA	"X'40'" SWA for *MASTER* address space
		..1.		DGNBCBLOCV31IHAASVT	"X'20'"
		...1		DGNBCBLOCV31IHAPCCA	"X'10'"
		.... 1...		DGNBCBLOCV31IHALCCA	"X'08'"
		.... .1..		DGNBCBLOCV31IHAXTLST	"X'04'"
		.... ..1.		DGNBCBLOCV31CNZSSICB	"X'02'"
1	(1)	CHARACTER	3		Reserved
1	(1)	X'4'	0	DGNBCBLOCV31_LEN	"*-DGNBCBLOCV31"

Table 509. Structure DGNBAUTOIPL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DGNBAUTOIPL	
0	(0)	CHARACTER	64	DGNBAI	
0	(0)	ADDRESS	4	DGNBAIREGWSATADDR	Registered WSAT
4	(4)	ADDRESS	4	DGNBAIUSERWSATADDR	User WSAT
8	(8)	CHARACTER	24	DGNBAISADINFO	SADMP info.
8	(8)	SIGNED	2	DGNBAISADDEV#	
10	(A)	CHARACTER	2		Reserved
12	(C)	CHARACTER	8	DGNBAISADLOADPARAM	
20	(14)	ADDRESS	4	DGNBAISADUCBADDR	
24	(18)	CHARACTER	8	DGNBAISADPINTOKEN	
32	(20)	CHARACTER	24	DGNBAIMVSINFO	MVS info.
32	(20)	SIGNED	2	DGNBAIMVSDEV#	
34	(22)	CHARACTER	2		Reserved
36	(24)	CHARACTER	8	DGNBAIMVSLOADPARAM	
44	(2C)	ADDRESS	4	DGNBAIMVSUCBADDR	
48	(30)	CHARACTER	8	DGNBAIMVSPINTOKEN	
56	(38)	BITSTRING	1	DGNBAIAUTOIPLFLAGS	

Bit definitions:

		1...		DGNBAI_SADIPL	"X'80'" Take a SADMP
		.1..		DGNBAI_MVSREIPL	"X'40'" Re-IPL z/OS
		..1.		DGNBAI_SADSIDDEFAULT	"X'20'" Use subchannel set id of IPL device for the SAD volume
		...1		DGNBAI_MVSSIDDEFAULT	"X'10'" Use current subchannel set id for the IPL volume
57	(39)	CHARACTER	7		Reserved
57	(39)	X'C7D5C2'	0	DGNBIDC	"C'DGNB'" Dgnb control block id string
57	(39)	X'F0F6'	0	DGNBVERC	"C'06'" Current version
57	(39)	X'F0F1'	0	DGNBVER1	"C'01'" Dgnb version HBB6606
57	(39)	X'F0F2'	0	DGNBVER2	"C'02'" Dgnb version HBB7708
57	(39)	X'F0F3'	0	DGNBVER3	"C'03'" Dgnb version HBB7709
57	(39)	X'F0F4'	0	DGNBVER4	"C'04'" Dgnb version HBB7730
57	(39)	X'F0F5'	0	DGNBVER5	"C'05'" Dgnb version HBB7750
57	(39)	X'F0F6'	0	DGNBVER6	"C'06'" Dgnb version HBB77A0
57	(39)	X'8'	0	DGNBCHARDATAMAX	"8" Maximum number of CharData fields.
57	(39)	X'8'	0	DGNBHEXDATAMAX	"8" Maximum number of HexData fields.
57	(39)	X'8'	0	DGNBJOBMAX	"8" Maximum number of jobname ranges.
57	(39)	X'10'	0	DGNBASIDMAX	"16" Maximum number of asid ranges.
57	(39)	X'8'	0	DGNBLENMAX	"8" Maximum number of length ranges.
57	(39)	X'8'	0	DGNBSUFFIXESMAX	"8" Maximum number of suffixes
57	(39)	X'C7E5C4'	0	DGNBSETEVENTNAME_0T03	"C'IGVD'" This is the first 4-byte segment of an 8-byte constant. Name parameter value for SETEVENT macro

IGVDGNB mapping

Table 509. Structure DGNBAUTOIPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
57	(39)	X'C1C7C2'	0	DGNBSETEVENTNAME_4T07	"C'IAGB'" This is the second 4-byte segment of an 8-byte constant. Name parameter value for SETEVENT macro
57	(39)	X'40'	0	DGNBAUTOIPL_LEN	"*-DGNBAUTOIPL"

Table 510. Cross Reference for IGVDGNB

Name	Offset	Hex	Tag
DGNB	0		
DGNB_ASETRMXNOSAVEA	21		2
DGNB_ASNREUSE	1C		8
DGNB_ATRSERCHECKS	1F		8
DGNB_BLWEXSNABEND06B	20		8
DGNB_BLWEXSNPROCDIAG	20		10
DGNB_BLWEXSNXESDETECT	1D		20
DGNB_BLWEXSNXESPROCDG	20		4
DGNB_CNZTRON	1A		4
DGNB_CNZTRONWITHABEND	1A		2
DGNB_CSVGLOBALMT	20		1
DGNB_CSVRENTPROTECT	1B		20
DGNB_CSVRENTSP252	1B		40
DGNB_CSVSP228ROUNDUP	1B		4
DGNB_CSVSP241ROUNDUP	1B		2
DGNB_CSVSP252ROUNDUP	1B		8
DGNB_HZSCHECK	1C		2
DGNB_IARCP64INITFREE	1E		10
DGNB_IARCP64INITGET	1E		20
DGNB_IARCP64TRAILER	1E		8
DGNB_IARNOPAGE0DS	1F		20
DGNB_IARSERIALIZEPIN	1C		80
DGNB_IARST64INITFREE	1E		40
DGNB_IARST64INITGET	1E		80
DGNB_IARST64TRAILER	1E		4
DGNB_IBMSYSTEMTEST	20		20
DGNB_ICVTESTEADSCB	1C		1
DGNB_IDAVSAMHC	1F		80
DGNB_IEACMSETV	19		8
DGNB_IADIEFPR	20		40
DGNB_IEAINITARSRB	19		10
DGNB_IEAINITREGSTASK	1A		20
DGNB_IEAMISUSEPMC	1D		40
DGNB_IEANOSDWA	1A		80
DGNB_IEANOSUSPSYSTRC	19		80
DGNB_IEARISGNLTRACE	19		2
DGNB_IEARPSGNLTRACE	19		1
DGNB_IEARTMRECORDALL	20		80
DGNB_IEARTM2NOSNAPTRC	1F		4
DGNB_IEARTM2SNAPX22	1F		10

Table 510. Cross Reference for IGVDGNB (continued)

Name	Offset	Hex Tag
DGNB_IEASCHEDULETRACE	19	4
DGNB_IEASCHEDULEV	19	40
DGNB_IEASETFRRAMODE	1C	10
DGNB_IEASETFRRENV	1C	20
DGNB_IEASLIPCONFIRM	21	8
DGNB_IEASPINLOCKV	19	20
DGNB_IEASYSIRBNOSAVEA	21	1
DGNB_IEASYSTRCNLIMIT	1E	2
DGNB_IEATXABEVERY	1F	2
DGNB_IEATXABRANDOM	1F	1
DGNB_IEAZADUNCOND	1F	40
DGNB_IEFABENDIEF702I	1C	40
DGNB_IEFJSSINOVAL	21	10
DGNB_IEFOPZ	21	4
DGNB_IGVCPOLFREEQ	1A	8
DGNB_IGVCPOLFREEQPXT	1B	1
DGNB_IGVCPOLGETV	18	1
DGNB_IGVDAQATCKPT	1D	8
DGNB_IGVDIAGXXABEND	18	4
DGNB_IGVINITCPOL	18	80
DGNB_IGVINITFREEMAIN	1A	10
DGNB_IGVINITGETMAIN	18	20
DGNB_IGVNEWPAGE24	18	10
DGNB_IGVNEWPAGE31	18	8
DGNB_IGVNOUSERKEYCSA	18	2
DGNB_IGVUNCOND	18	40
DGNB_IOSBVOF	21	40
DGNB_IOSCCMMSG	1D	80
DGNB_IOSDCMMSG	1C	4
DGNB_IOSFCTCLOG	1D	10
DGNB_IOSHPTHROTTL	21	80
DGNB_IOSIGNOREPLUSONE	21	20
DGNB_IOSPCIESIMMSG	20	2
DGNB_IOSPROTCAPTUCB	1B	80
DGNB_IOSZDACMSG	1E	1
DGNB_IXCRECSTRALLOC	1A	40
DGNB_IXLBREAKDUPLX	1B	10
DGNB_IXLDUPLXWRTCLI	1D	2
DGNB_IXLDUPOUTOFYNCH	1A	1
DGNB_IXLNOIRTCCOMP	1D	1
DGNB_IXLNORTESUPPRESS	1D	4
DGNB_LEN	4F8	4F8
DGNB_TEMP1	14	80
DGNB_TEMP10	15	40
DGNB_TEMP11	15	20
DGNB_TEMP12	15	10
DGNB_TEMP13	15	8
DGNB_TEMP14	15	4
DGNB_TEMP15	15	2

IGVDGNB mapping

Table 510. Cross Reference for IGVDGNB (continued)

Name	Offset	Hex Tag
DGNB_TEMPMC16	15	1
DGNB_TEMPMC2	14	40
DGNB_TEMPMC3	14	20
DGNB_TEMPMC4	14	10
DGNB_TEMPMC5	14	8
DGNB_TEMPMC6	14	4
DGNB_TEMPMC7	14	2
DGNB_TEMPMC8	14	1
DGNB_TEMPMC9	15	80
DGNB_TEMP1	16	80
DGNB_TEMP10	17	40
DGNB_TEMP11	17	20
DGNB_TEMP12	17	10
DGNB_TEMP13	17	8
DGNB_TEMP14	17	4
DGNB_TEMP15	17	2
DGNB_TEMP16	17	1
DGNB_TEMP2	16	40
DGNB_TEMP3	16	20
DGNB_TEMP4	16	10
DGNB_TEMP5	16	8
DGNB_TEMP6	16	4
DGNB_TEMP7	16	2
DGNB_TEMP8	16	1
DGNB_TEMP9	17	80
DGNB_TX	1F	3
DGNB#ASIDS	E0	
DGNB#CHARDATAS	338	
DGNB#FFEXCLUDEJOBS	4B0	
DGNB#HEXDATAS	380	
DGNB#JOBS	50	
DGNB#LENS	98	
DGNB#SUFFIXES	3A8	
DGNBAI	0	
DGNBAI_MVSREIPL	38	40
DGNBAI_MVSSIDDEFAULT	38	10
DGNBAI_SADIPL	38	80
DGNBAI_SADSIDDEFAULT	38	20
DGNBAIAUTOIPLFLAGS	38	
DGNBAIMVSDEV#	20	
DGNBAIMVSINFO	20	
DGNBAIMVSLOADPARM	24	
DGNBAIMVSPINTOKEN	30	
DGNBAIMVSUCBADDR	2C	
DGNBAIREGWSATADDR	0	
DGNBAISADDEV#	8	
DGNBAISADINFO	8	
DGNBAISADLOADPARM	C	
DGNBAISADPINTOKEN	18	

Table 510. Cross Reference for IGVDGNB (continued)

Name	Offset	Hex Tag
DGNBAISADUCBADDR	14	
DGNBAIUSERWSATADDR	4	
DGNBALLOWUSERKEYCADSNO	432	4
DGNBALLOWUSERKEYCADSSPEC	432	2
DGNBALLOWUSERKEYCSANO	432	80
DGNBALLOWUSERKEYCSASPEC	432	40
DGNBASIDFILT	126	40
DGNBASIDLIST	E4	
DGNBASIDMAX	39	10
DGNBASIDS	E0	
DGNBASIDSTART	E4	
DGNBASIDSTOP	E6	
DGNBAUTOIPL	0	
DGNBAUTOIPL_LEN	39	40
DGNBAUTOIPLADDR	43C	
DGNBAUTOIPLSTG	468	
DGNBBESTFITCSA	433	80
DGNBBITS	14	
DGNBBYTE1	14	
DGNBBYTE10	1D	
DGNBBYTE11	1E	
DGNBBYTE12	1F	
DGNBBYTE13	20	
DGNBBYTE14	21	
DGNBBYTE2	15	
DGNBBYTE3	16	
DGNBBYTE4	17	
DGNBBYTE5	18	
DGNBBYTE6	19	
DGNBBYTE7	1A	
DGNBBYTE8	1B	
DGNBBYTE9	1C	
DGNBCBLOCV24	0	
DGNBCBLOCV24_LEN	2	4
DGNBCBLOCV24ADDR	434	
DGNBCBLOCV24BYTE0	0	
DGNBCBLOCV24BYTE1	1	
DGNBCBLOCV24CNZSSICB	0	1
DGNBCBLOCV24IEAFRRSTACKS	0	80
DGNBCBLOCV24IEFALLOCDYNSTG	0	40
DGNBCBLOCV24IEFMASTERSWA	1	80
DGNBCBLOCV24IHAASVT	0	4
DGNBCBLOCV24IHALCCA	0	10
DGNBCBLOCV24IHAPCCA	0	20
DGNBCBLOCV24IHASDWAFRR	0	8
DGNBCBLOCV24IHAXTLST	0	2
DGNBCBLOCV24STG	460	
DGNBCBLOCV31	0	
DGNBCBLOCV31_LEN	1	4

IGVDGNB mapping

Table 510. Cross Reference for IGVDGNB (continued)

Name	Offset	Hex Tag
DGNBCBLOCV31ADDR	438	
DGNBCBLOCV31BYTE0	0	
DGNBCBLOCV31CNZSSICB	0	2
DGNBCBLOCV31IEFMASTERSWA	0	40
DGNBCBLOCV31IEFSUBMSTRSWA	0	80
DGNBCBLOCV31IHAASVT	0	20
DGNBCBLOCV31IHALCCA	0	8
DGNBCBLOCV31IHAPCCA	0	10
DGNBCBLOCV31IHAXTLST	0	4
DGNBCBLOCV31STG	464	
DGNBCHARDATA	340	
DGNBCHARDATALIST	338	
DGNBCHARDATAMAX	39	8
DGNBCHECKREGIONLOSS	410	
DGNBCHECKREGIONLOSS24	410	
DGNBCHECKREGIONLOSS24UNIT	418	
DGNBCHECKREGIONLOSS31	414	
DGNBCHECKREGIONLOSS31UNIT	419	
DGNBCPOOLFREEQMAX	3A4	
DGNBCSAACTIVE	40F	F0
DGNBDETECT	240	
DGNBDETECTCSA0N	40E	C
DGNBDETECTCSA24ACTIVE	40F	20
DGNBDETECTCSA240N	40E	8
DGNBDETECTCSA31ACTIVE	40F	10
DGNBDETECTCSA310N	40E	4
DGNBDETECTON	40E	F
DGNBDETECTSQA0N	40E	3
DGNBDETECTSQA24ACTIVE	40F	2
DGNBDETECTSQA240N	40E	2
DGNBDETECTSQA31ACTIVE	40F	1
DGNBDETECTSQA310N	40E	1
DGNBFFEXCLUDEJOBNAME	4B8	
DGNBFFEXCLUDEJOBNAMEWILD	4B2	
DGNBFFEXCLUDEJOBS	4B0	
DGNBFILTERACTIVE	126	F8
DGNBFILTERFLAGS	126	
DGNBFILTERROUTINEADDR	C	
DGNBFLAGS	6	
DGNBFLAG1	6	
DGNBFREEMAINEDFRAMESINFO	4A8	
DGNBFREEMAINEDFRAMESNO	4A8	40
DGNBFREEMAINEDFRAMESOPTIONS1	4A8	
DGNBFREEMAINEDFRAMESPECIFIED	4A8	80
DGNBHEXDATA	384	
DGNBHEXDATALIST	380	
DGNBHEXDATAMAX	39	8
DGNBID	0	
DGNBIDC	39	C7D5C2

Table 510. Cross Reference for IGVDGNB (continued)

Name	Offset	Hex Tag
DGNBJOBMAX	39	8
DGNBJOBNAME	58	
DGNBJOBNAMEFILT	126	80
DGNBJOBNAMEWILD	52	80
DGNBJOBS	50	
DGNBJOBSFLAGS	52	
DGNBKEYBITS	124	
DGNBKEYFILT	126	10
DGNBLENGTHFILT	126	8
DGNBLENLIST	A0	
DGNBLENMAX	39	8
DGNBLENS	98	
DGNBLENSTART	A0	
DGNBLENSTOP	A4	
DGNBNONZERO1	434	
DGNBNONZERO1RESV	440	
DGNBOPTIONS1	432	
DGNBOPTIONS2	433	
DGNBPRIMEPSAVALUE	41C	
DGNBPRIVATEBUFFER	428	
DGNBPRIVATEBUFFER24	428	
DGNBPRIVATEBUFFER24UNIT	430	
DGNBPRIVATEBUFFER31	42C	
DGNBPRIVATEBUFFER31UNIT	431	
DGNBPROTDEACTIVE	40F	
DGNBPROTDETON	40E	
DGNBPROTECT	148	
DGNBPROTECTCSAON	40E	C0
DGNBPROTECTCSA24ACTIVE	40F	80
DGNBPROTECTCSA24ON	40E	80
DGNBPROTECTCSA31ACTIVE	40F	40
DGNBPROTECTCSA31ON	40E	40
DGNBPROTECTON	40E	F0
DGNBPROTECTSQAON	40E	30
DGNBPROTECTSQA24ACTIVE	40F	8
DGNBPROTECTSQA24ON	40E	20
DGNBPROTECTSQA31ACTIVE	40F	4
DGNBPROTECTSQA31ON	40E	10
DGNBRESV1	7	
DGNBRESV2	8	
DGNBREUSASIDSPEC	432	10
DGNBREUSASIDYES	432	20
DGNBSETEVENTNAME_0T03	39	C7E5C4
DGNBSETEVENTNAME_4T07	39	C1C7C2
DGNBSQAACTIVE	40F	F
DGNBSTGINIT	40C	
DGNBSTGINITFLAGS	40C	
DGNBSTGINITSPEC	40C	80
DGNBSTGINITVAL	40D	

IGVDGNB mapping

Table 510. Cross Reference for IGVDGNB (continued)

Name	Offset	Hex Tag
DGNBSUBPOOLBITS	128	
DGNBSUBPOOLFILT	126	20
DGNBSUFFIX	3AC	
DGNBSUFFIXDATA	3B0	
DGNBSUFFIXES	3A8	
DGNBSUFFIXESMAX	39	8
DGNBSUFFIXTIME	3AC	
DGNBSUFFIXTIMEHIGHBIT	3AC	80
DGNBSYNCCNT	10	
DGNBTRAPS	50	
DGNBUSEZOSV1R9RULESNO	432	8
DGNBVER	4	
DGNBVERC	39	F0F6
DGNBVER1	39	F0F1
DGNBVER2	39	F0F2
DGNBVER3	39	F0F3
DGNBVER4	39	F0F4
DGNBVER5	39	F0F5
DGNBVER6	39	F0F6
DGNBVSMDetectMONITORTIME	420	
DGNBWORD1	14	
DGNBWORD2	18	
DGNBWORD3	1C	
DGNBWORD4	20	
DGNBZERO	10	
DGNBZERO2	454	

Chapter 122. IGVDGNX Information

IGVDGNX Heading Information

Common Name: Diagnostic traps extraction area
 Macro ID: IGVDGNX
 DSECT Name: DGNX
 Owing Component: VSM (SC1CH)
 Eye-Catcher ID: DGNX
 Offset: 0
 Length: 4
 Storage Attributes: Residency: Above 16MB
 Size: X'3C64' bytes
 Created by: IGVDGNXT
 Pointed to by: When IGVDGNXT returns to its caller, the third parameter of the standard parameter list is a fullword containing the address of the DGNX created by IGVDGNXT.
 Serialization: None.
 Function: The DGNX indicates in text format the contents of DIAGxx.

IGVDGNX mapping

Table 511. Structure DGNX

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	*	DGNX	
0	(0)	CHARACTER	20	DGNXFIXEDAREA	
0	(0)	CHARACTER	4	DGNXID	Control block id
4	(4)	CHARACTER	2	DGNXVER	Version number
6	(6)	UNSIGNED	1	DGNXSUBPOOL	Subpool of DGNX
7	(7)	CHARACTER	1	DGNXRESV1	Reserved
8	(8)	SIGNED	4	DGNXLENGTH	Total length of DGNX, to be used when freeing the DGNX
12	(C)	ADDRESS	4	DGNXTEXTAREAADDR	Address of text area. This should be used to find the beginning of the text area (not Addr(DgnxTextArea)) so the the DgnxFixedArea can be expanded without forcing a recompile
16	(10)	SIGNED	4	DGNXTEXTAREALEN	Number of bytes used in DgnxTextArea
20	(14)	CHARACTER	*	DGNXTEXTAREA	Text area

Table 512. Structure DGNXTEXTLINE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	*	DGNXTEXTLINE	Text line
0	(0)	UNSIGNED	1	DGNXTEXTLEN	Text data length
1	(1)	CHARACTER	*	DGNXTEXTDATA	Text data

IGVDGNX mapping

Table 513. Constants for IGVDGNX

Len	Type	Value	Name	Description
4	CHARACTER	DGNX	DGNXIDC	DGNX control block id string
2	CHARACTER	01	DGNXVERC	Current version
2	CHARACTER	01	DGNXVER1	DGNX version HBB7706
4	DECIMAL	70	DGNXMAXLINELEN	Maximum length of a text line (chosen so than a line can be used as a MLWTO line)

Table 514. Cross Reference for IGVDGNX

Name	Offset	Hex Tag
DGNX	0	
DGNXFIXEDAREA	0	
DGNXID	0	
DGNXLENGTH	8	
DGNXRESV1	7	
DGNXSUBPOOL	6	
DGNXTEXTAREA	14	
DGNXTEXTAREAADDR	C	
DGNXTEXTAREALEN	10	
DGNXTEXTDATA	1	
DGNXTEXTLEN	0	
DGNXTEXTLINE	0	
DGNXVER	4	

Chapter 123. IGVGQAT Information

IGVGQAT Heading Information

Common Name: GQE Queue Anchor Table
Macro ID: IGVGQAT
DSECT Name: GQATITBL GQAT GQATENT
Owning Component: Virtual Storage Manager (SC1CH)
Eye-Catcher ID: GQAT
Offset: 0
Length: 4
Storage Attributes: Subpool: 245
Key: 0
Residency: Above 16M line
Size: GQATITBL -- X'0400' bytes
GQAT -- X'0204' bytes
GQATENT -- X'0004' bytes
Created by: IEAIPL04 & IEAVNP08 build GQAT index tables and GQATs.
When the system is fully initialized, a GQAT index table exists that describes 2G, and there exists GQAT table entries for all of SQA and CSA.
Pointed to by: GQAT Index Table is pointed to by GDAGQAT_Index.
GQATs are pointed to by entries in the GQAT index table.
Serialization: When writing to the GQAT, VSM uses the VSMFIX lock.
The only time the GQAT index table is updated is during initialization, so no serialization is needed.
When monitor programs read the GQAT, it would be best to do so with no serialization. (This is because holding the lock could impact system performance.) Note that this means that the GQE pointed to by a GQAT entry could be freemained while being read. The GQE may also be put on the queue of free GQEs while being read. Monitors will need to handle this (e.g., a recovery routine could catch the reference to a freemained GQE, and encountering a GQE on the free queue could be taken as the end of the queue being run.)

IGVGQAT Heading Information

Function: This macro contains a map of the GQAT and the GQAT Index Table. These two mappings provide the basis for the two-table lookup scheme that VSM uses to keep track of GQEs. (There is 1 GQE for every GETMAINED piece of common storage.) These tables enable VSM to take a virtual address (e.g., the virtual address passed by a FREEMAIN invocation) and find the GQE that represents the storage at that address. Each entry in the GQAT index table points to a GQAT. There are no null entries in the GQAT index table. However, a GQAT index table entry may point to the "dummy GQAT", which is a GQAT all of whose entries point to the GQE that describes 0 bytes at address 0. (This GQE is called the dummy GQE.) Each entry in a GQAT points to a queue of GQEs. (An entry of 0 indicates an empty queue.) Each 64K portion of virtual storage has its own entry in a GQAT. Storage that is in use within a 64K chunk is described by a queue of GQEs pointed to by the GQAT entry for that 64K chunk. The GQEs on this queue are in LIFO order. The GQE queues end with a GQE_NEXT field of 0. There are 256 entries in the GQAT index table, and the table can map all of storage (2G). Thus, each entry in the GQAT represents 8M of storage (because $2G/256 = 8M$). Each GQAT index table entry points to a GQAT, so GQATs must also represent 8M of storage. GQATs have 128 entries, so each entry represents 64K of virtual storage. The smallest possible GETMAIN is 8 bytes, so the maximum number of GQEs per GQAT entry is 8K, or 8,192 (because $64K/8=8K$).

IGVGQAT mapping

Table 515. Structure GQATITBL

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	GQATITBL	
0	(0)	ADDRESS	4	GQATINDX	Address of GQAT table
1024	(400)	X'400'	0	GQATITBL_LEN	"*-GQATITBL"

Table 516. Structure GQAT

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	GQAT	
0	(0)	CHARACTER	4	GQATID	Control block identifier
4	(4)	CHARACTER	512	GQATARRAY(0)	Array of 128 elements
4	(4)	CHARACTER	4	GQATNTRY	Each cell of this array contains a pointer to a queue of GQEs.
516	(204)	X'204'	0	GQAT_LEN	"*-GQAT"

Table 517. Structure GQATENT

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

Table 517. Structure GQATENT (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
0	(0)	ADDRESS		4	GQATGQE	Address of the first GQE in a GQE queue. All GQEs on this LIFO queue describe storage whose start address is within the 64K area represented by the GQAT entry.
0	(0)	X'4'		0	GQATENT_LEN	"*-GQATENT"

Table 518. Cross Reference for IGVGQAT

Name	Offset	Hex	Tag
GQAT	0		
GQAT_LEN	204	204	
GQATARRAY	4		
GQATENT	0		
GQATENT_LEN	0	4	
GQATGQE	0		
GQATID	0		
GQATINDX	0		
GQATITBL	0		
GQATITBL_LEN	400	400	
GQATNTRY	4		

IGVGQAT mapping

Chapter 124. IGVGQE Information

IGVGQE Programming Interface Information

IGVGQE is a programming interface.

IGVGQE Heading Information

Common Name: GETMAINed Queue Element.
Macro ID: IGVGQE
DSECT Name: GQE
Owning Component: Virtual Storage Manager (SC1CH)
Eye-Catcher ID: None
Storage Attributes: Subpool: 245
Key: 0
Residency: Above 16M
Size: X'0018' Bytes
GQE -- X'0018' bytes
Created by: IGVGCSA, IGVGSQA
Pointed to by: GqeNext
GqatGQE
Serialization: When writing to the GQE, VSM uses the VSMFIX lock.
When monitor programs read the GQE, it would be best to do so with no serialization. (This is because holding the lock could impact system performance.) Note that this means that the GQE could be freemained while being read. The GQE may also be put on the queue of free GQEs while being read, and a GQE may appear to be "out of range" (i.e., it describes storage outside the range of storage described by the anchoring GQAT entry). Monitors will need to handle this (e.g., a recovery routine could catch the reference to a freemained GQE, and encountering a GQE that is "out of range" or on the free queue could be taken as the end of the queue being run.) A GQE on the free queue has a size of 0.
Function: Describes a range of virtual storage that was allocated by a single GETMAIN or STORAGE OBTAIN. These blocks, in concert with the CAUB, are used to identify who owns every chunk of GETMAINed common storage.

IGVGQE mapping

Table 519. Structure GQE

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	GQE	Common area GETMAINed element.
0	(0)	ADDRESS	4	GQE_NEXT	Address of the next GQE.
4	(4)	SIGNED	4	GQE_GMTIME(0)	High order 4 bytes of the TOD clock when the storage was obtained. Last bit incremented every second (approx), 00000000 = Jan 1, 1900.
		1...		GQE_GMTIMEHIGHBIT	"X'80'"

IGVGQE mapping

Table 519. Structure GQE (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
8	(8)	ADDRESS		4	GQE_CAUB	Address of the CAUB describing the address space that owns the storage pointed to by GQE_Area.
12	(C)	ADDRESS		4	GQE_AREA(0)	Start address of the allocated area. Bits 0 and 29 to 31 must be masked off before using this value. GQE_AreaMask can be used for this.
12	(C)	SIGNED		2	GQE_AREA_BITS0TO15(0)	64K boundary index
12	(C)	BITSTRING		1	GQE_AREA_BYTE0(0)	Storage area flags, this overloads bit 0 of GQE_Size, which can never otherwise be set because all requests must be located less than 2GB.
14	(E)	CHARACTER		1		Bits of the area address
15	(F)	BITSTRING		1	GQE_AREA_BYTE3(0)	Storage Area flags, this overloads bits 29 to 31 of GQE_Area, which can never otherwise be set because all requests are rounded to a doubleword address.
16	(10)	SIGNED		4	GQE_SIZE(0)	Length of the allocated area, in bytes. This will never be negative. If this field is zero, then this GQE is on the free queue, and is thus not a valid GQE. Bits 0 and 29 to 31 must be masked off before using this value. GQE_SizeMask can be used for this
16	(10)	BITSTRING		1	GQE_SIZE_BYTE0(0)	System size flags, this overloads bit 0 of GQE_Size, which can never otherwise be set because all requests must be less than 2GB in size.
		1... ..			GQE_DETECT_PRIOR_ERROR	"X'80'" A prior error has been detected for this storage, so it should not be reported in error again.
17	(11)	CHARACTER		2		Bits of the storage length
19	(13)	BITSTRING		1	GQE_SIZE_BYTE3(0)	System size flags, this overloads bits 29 to 31 of GQE_Size, which can never otherwise be set because all requests are rounded to a doubleword size.

Note: GQE_Protect and GQE_Detect are mutually exclusive, and will never be set on at the same time.

Table 519. Structure GQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
	....	.1..		GQE_PROTECT	"X'04'" CSA Protect processing applies to this storage. A 4K suffix has been added by the system. This suffix can not be backed, so any reference to it will cause an unresolved page fault to occur. When this bit is set, 4096 must be added to GQE_Size, with bits 0 and 29 to 31 masked off, to determine the amount of storage actually allocated by the system for the users request.
	....	..1.		GQE_DETECT_SET	"X'02'" CSA Detect suffix value has been set. This bit can only be set on when GQE_Detect is on. If this bit is not set then do not validate the prefix value. Due to disablement needs, a window exists between logical allocation of storage, building of the GQE, and the actual setting of the suffix value in storage.
	....	...1		GQE_DETECT	"X'01'" CSA Detect processing applies to this storage. An 8 byte suffix has been added by the system. This suffix will contain a system defined value that can be validated to identify that storage has gone beyond the expected point in storage. When this bit is set, 8 bytes must be added to GQE_Size, with bits 0 and 29 to 31 masked off, to determine the amount of storage actually allocated by the system for the users request.
20	(14)	ADDRESS	4	GQE_RETADDR(0)	The GETMAIN that obtained the storage described by this GQE returned to this address. This is here because we think that it will help identify the module and thus the component that did the GETMAIN. 'FFFFFFF'X here means that this GQE describes storage that was allocated before GETMAIN was available.
20	(14)	BITSTRING	1	GQE_RETADDR_BYTE0	
21	(15)	BITSTRING	2	GQE_RETADDR_BYTES1AND2	
23	(17)	BITSTRING	1	GQE_RETADDR_BYTE3(0)	

IGVGQE mapping

Table 519. Structure GQE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ...1		GQE_CSA	"X'01'" If on, indicates that this is a GQE for CSA storage. If off, SQA storage. Instructions are on halfword boundaries, so the last bit of the return address is always zero, so we can use it without really destroying the return address.
24	(18)	BITSTRING	0	GQE_SIZEMASK	"X'7FFFFFFF8'" Mask to AND with GQE_Size to remove the overload bits
24	(18)	BITSTRING	0	GQE_AREAMASK	"X'7FFFFFFF8'" Mask to AND with GQE_Area to remove the overload bits
24	(18)	X'18'	0	GQE_LEN	"*-GQE"

Table 520. Cross Reference for IGVGQE

Name	Offset	Hex Tag
GQE	0	
GQE_AREA	C	
GQE_AREA_BITS0TO15	C	
GQE_AREA_BYTE0	C	
GQE_AREA_BYTE3	F	
GQE_AREAMASK	18	FFFFFF8
GQE_CAUB	8	
GQE_CSA	17	1
GQE_DETECT	13	1
GQE_DETECT_PRIOR_ERROR	10	80
GQE_DETECT_SET	13	2
GQE_GMTIME	4	
GQE_GMTIMEHIGHBIT	4	80
GQE_LEN	18	18
GQE_NEXT	0	
GQE_PROTECT	13	4
GQE_RETADDR	14	
GQE_RETADDR_BYTES1AND2	15	
GQE_RETADDR_BYTE0	14	
GQE_RETADDR_BYTE3	17	
GQE_SIZE	10	
GQE_SIZE_BYTE0	10	
GQE_SIZE_BYTE3	13	
GQE_SIZEMASK	18	FFFFFF8

Chapter 125. IGVVAB Information

IGVVAB Programming Interface Information

IGVVAB is a programming interface.

IGVVAB Heading Information

Common Name: VSM Address space Block
Macro ID: IGVVAB
DSECT Name: VAB
Owning Component: Virtual Storage Manager (SC1CH)
Eye-Catcher ID: VAB
Offset: 0
Length: 3
Storage Attributes: Subpool: 245
Key: 0
Residency: Above 16M line
Size:
Created by: IGVGCAS, IEAIPL04
Pointed to by: ASSBVAB
GDASYVAB
Serialization: VSM uses the VSMFIX lock to serialize the VAB.
When monitor programs read the VAB, it would be best to do so with no serialization. (This is because holding the lock could impact system performance.) Note that this means that the VAB could be freemained while being read. The VAB may also be put on the queue of free VABs while being read. Monitors will need to handle this (e.g., via a recovery routine).
Function: Provides access to VSM control blocks that are both address space related and in common storage.

IGVVAB mapping

Table 521. Structure VAB

Offset	Offset			Len	Name(Dim)	Description
Dec	Hex	Type				
0	(0)	STRUCTURE		0	VAB	, VSM Address space Block
0	(0)	CHARACTER		16	VAB_HEADER(0)	Header for VAB_Proper.
0	(0)	CHARACTER		3	VAB_ID	Character string 'VAB' - eyecatcher This is a product sensitive programming interface.
3	(3)	CHARACTER		1		Reserved.
4	(4)	ADDRESS		4	VAB_CAUB	Address of the Common Area User Block. This is a product sensitive programming interface.
8	(8)	ADDRESS		4	VAB_AS_CAUB	Address of the Common Area User Block for this Address Space. This is a product sensitive programming interface.
12	(C)	CHARACTER		4		Reserved.

IGVVAB mapping

Table 521. Structure VAB (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
12	(C)	X'E5C1C2'		0	VAB_ID_K	"C'VAB'"
12	(C)	X'10'		0	VAB_LEN	"*-VAB"

Chapter 126. IGVVSMWK Information

IGVVSMWK Heading Information

Common Name: VSM Work Area
 Macro ID: IGVVSMWK
 DSECT Name: VSWK
 Owning Component: Virtual Storage Manager (SC1CH)
 Eye-Catcher ID: VSWK
 Offset: 0
 Length: 4
 Storage Attributes: Subpool: 245, 255
 Key: 0
 Residency: Above 16M line
 Size: VSWK -- X'5152' bytes
 Created by: IGVGCAS (VSM address space creation module),
 IEAIPL04 (VSM IPL Resource Initialization Module).
 Pointed to by: GDAWRKA, GDAWRKAP, LDAWRKA
 Serialization: VSMFIX LOCK FOR FIXED GLOBAL WORK AREA
 VSM PAG LOCK FOR PAGEABLE GLOBAL WORK AREA
 LOCAL LOCK FOR LOCAL WORK AREA
 Function: DESCRIBES THE VSM WORK AREA

IGVVSMWK mapping

Table 522. Structure VSWK

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	5152	VSWK	VSM work area. This is the 'VSWK proper'.
0	(0)	CHARACTER	4	VSWKID	CONTROL BLOCK IDENTIFIER
4	(4)	ADDRESS	4	VSWKSADR	ADDRESS OF STACK AREA
8	(8)	CHARACTER	312	VSWKMAIN	MAIN PORTION OF WORK AREA
8	(8)	CHARACTER	72	VSWKEXTS	EXTERNAL REGISTER SAVE AREA
80	(50)	ADDRESS	4	VSWKGDA	GDA address
84	(54)	ADDRESS	4	VSWKLDA	LDA address
88	(58)	ADDRESS	4	VSWKTCB	TCB ADDRESS
92	(5C)	SIGNED	2	VSWKACDE	EXTERNAL ABEND CODE
94	(5E)	UNSIGNED	1	VSWKARSN	EXTERNAL ABEND REASON CODE
95	(5F)	UNSIGNED	1	VSWKMKEY	Key specified on the macro invocation for SVC 120. Only valid if VSWKMSPEC=ON
96	(60)	CHARACTER	4	VSWKPROC	PROCESSING INFORMATION
96	(60)	UNSIGNED	1	VSWKSVC	EXTERNAL SVC OR BRANCH ENTRY NUMBER
97	(61)	CHARACTER	1	VSWKPFLG	PROCESSING FLAGS
		1...		VSWKRFX	0 => DON'T RELEASE VSMFIX LOCK => RELEASE VSMFIX LOCK
		.1...		VSWKENT	0 => BRANCH ENTRY 1 => SVC Entry or PC entry. (VSWKSTOR distinguishes between the two.)

IGVVSMWK mapping

Table 522. Structure VSWK (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		VSWKGLBL	0 => NOT GLOBAL BRANCH ENTRY 1 => GLOBAL BRANCH ENTRY
		...1		VSWKRPAG	0 => DON'T RELEASE VSMPAG LOCK 1 => RELEASE VSMPAG LOCK
		.... 1...		VSWKRCML	0 => DON'T RELEASE CML LOCK 1 => RELEASE CML LOCK
		.... .1..		VSWKLIST	0 => THIS IS NOT A LIST REQUEST 1 => THIS IS A LIST REQUEST
		.... ..1.		VSWKRCUR	0 => THIS IS NOT A RECOVERY RECURSION 1 => THIS IS A RECOVERY RECURSION
		.... ...1		VSWKFSP	0 => THIS IS NOT A SUBPOOL FREEMAIN 1 => THIS IS A SUBPOOL FREEMAIN
98	(62)	UNSIGNED 1111 1... 111. .... ...1	1	VSWKCKEY VSWKKEY VSWKKEY8 * VSWKSTAT	CALLER'S KEY AND STATE CALLER'S KEY HIGH ORDER BIT OF KEY * 0 => CALLER IS IN SUPERVISOR STATE 1 => CALLER IS IN PROBLEM PROGRAM STATE
99	(63)	CHARACTER 1... .... .1.. .... ..1. .... ...1 1... 111	1	VSWKFLGS VSWKSTOR VSWKRSET VSWKRFRR VSWKRCPU VSWKUNUSABLE *	Flags processing 0 => STORAGE service is not in process 1 => STORAGE service in process 0 => don't CMSET (RESET) 1 => CMSET (RESET) 0 => don't delete SETFRR 1 => delete SETFRR 0 => Don't release CPU lock 1 => Release CPU lock 0 => Freed Page OK 1 => Freed Page Unusable Reserved
100	(64)	ADDRESS	4	VSWKTOP	TOP OF VSM STACK
104	(68)	ADDRESS	4	VSWKLLST	LENGTH LIST ADDRESS
108	(6C)	ADDRESS	4	VSWKELST	END OF LENGTH LIST
112	(70)	ADDRESS	4	VSWKALST	ADDRESS LIST ADDRESS
116	(74)	ADDRESS	4	VSWKLIST	ADDRESS OF LIST ENTRY BEING PROCESSED
120	(78)	ADDRESS	4	VSWKRCWK	ADDRESS OF RECOVERY WORK AREA
124	(7C)	ADDRESS	4	VSWKSAVE	ADDRESS OF CALLERS REGISTERS
128	(80)	CHARACTER	192	VSWKCOMA	COMMUNICATION AREA
320	(140)	CHARACTER	4832	VSWKSTCK	VSM modules use this space for their dynamic areas.
5152	(1420)	CHARACTER	0	*	IEAIPL04 wants this to be on an 8-byte boundary

Table 523. Structure VSWKCOMM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE IsA(VSWKCOMMTYPE)	192	VSWKCOMM	COMMUNICATION AREA

Table 523. Structure VSWKCOMM (continued)

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	ADDRESS	4	VSWKCOMS	ADDRESS OF SAVED COMMUNICATION AREA OR ZERO
4	(4)	CHARACTER	32	VSWKRQST	REQUEST INFORMATION
4	(4)	UNSIGNED	4	VSWKMAXS	GETMAIN MAXIMUM REQUEST SIZE
		1... ..		VSWKMAXS_BIT0	
8	(8)	UNSIGNED	4	VSWKMINS	GETMAIN MINIMUM REQUEST SIZE
		1... ..		VSWKMINS_BIT0	
12	(C)	UNSIGNED	4	VSWKFSIZ	FREEMAIN REQUEST SIZE
		1... ..		VSWKFSIZ_BIT0	
16	(10)	ADDRESS	4	VSWKFADR	FREEMAIN REQUEST ADDRESS
16	(10)	UNSIGNED	2	VSWKFA01	High bytes
16	(10)	UNSIGNED	1	VSWKFAD0	High Byte
17	(11)	UNSIGNED	1	VSWKFAD1	Byte 1
20	(14)	CHARACTER	10	VSWKSPTT	SUBPOOL TRANSLATION TABLE ENTRY
30	(1E)	CHARACTER	1	VSWKRFLG2	MORE REQUEST FLAGS

The following byte is copied from an interface register. Do not use this byte for anything that is not passed from the macro to VSM service routines.

		1... ..	*		Reserved
		.1.. ..		VSWKMSPEC	'1'B means that the key was specified on the getmain, freemain or storage macro. This is not used by SVC 4 5,10, SVC 4,5,10 branch entry or SVC 120 branch entry
		..1.		VSWKAR15USED	AR15 is used
		...1		VSWKR64	AMODE(,ANY64)
		.... 1...		VSWKCHECKZERO	CHECKZERO=YES was specified on STORAGE OBTAIN or GETMAIN
		.... .1..		VSWKTCBS	TCBADDR was specified on STORAGE OBTAIN or RELEASE
		.... ..11		VSWKOWNER	Owner information. See VswkOwner_xxxx constants
31	(1F)	CHARACTER	1	VSWKMFLG	MISCELLANEOUS FLAGS
		1... ..		VSWKRQST	0 => RECOVERY NOT IN PROCESS 1 => RECOVERY IN PROCESS
		.1.. ..		VSWKGLSR	IGVGLSQA is ('1'B) or is not ('0'B) being called recursively.
		..1.		VSWKNOBK	IGVGLSQA should ('0'B) or should not ('1'B) call RSM to back the the LSQA storage it is being called to obtain.
		...1		VSWK2FRR	Flag: TRUE if IGVVSTOR has put two FRRs onto the stack, FALSE otherwise
		.... 1...		VSWKREQT	0 => NOT AN ELEMENT OR VARIABLE REQUEST 1 => ELEMENT OR VARIABLE REQUEST
		.... .111		VSWKWEXP	3 bits indicating where IGVGPTA obtained storage by by address from. Used by recovery to back out the request

IGVVSMWK mapping

Table 523. Structure VSWKCOMM (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
		....	.1..		VSWKFFQE	First part of storage requested allocated from an FQE
		....	..1.		VSWKMFQ	Middle part of storage requested allocated from an FBQE
		....	...1		VSWKLFQE	Last part of storage requested allocated from an FQE
32	(20)	CHARACTER		3	VSWKSPKY	SUBPOOL / KEY COMBINATION
32	(20)	SIGNED		2	VSWKEXSP	EXTERNAL SUBPOOL ID
32	(20)	UNSIGNED		1	*	
33	(21)	UNSIGNED		1	VSWKESPL	LOW ORDER BYTE OF SUBPOOL
34	(22)	UNSIGNED		1	VSWKSKEY	KEY OF STORAGE TO BE OBTAINED IS IN BITS 0-3 OF THIS FIELD. SEE IGVVSM31 PROLOG FOR MORE INFORMATION ON HOW THIS KEY IS PROCESSED
34	(22)	BITSTRING		1	*	
		1... ..	....		VSWKSKEYUSER	User key storage
		.111	1111		*	
The following byte is copied from an interface register. That is, this byte is passed in a register from the macro to VSM service routines.						
35	(23)	CHARACTER		1	VSWKRFLG	REQUEST FLAGS
		1... ..	....		VSWKALET	0 => ALET WAS SPECIFIED 1 => ALET WAS NOT SPECIFIED
		.1..	....		VSWKREAL	0 => BACK BELOW 16M 1 => BACK ANYWHERE < 2G
		.1..	....		VSWKR31	0 => BACK BELOW 16M 1 => BACK ANYWHERE < 2G (Also on when VSWKR64)
		..11	....		VSWKVIRT	VIRTUAL ALLOCATION FLAGS: 00 => RESIDENCE 01 => BELOW 16M 10 => EXPLICIT (on entry to IGVVSMRT) 10 => ABOVE 16M (otherwise) 11 => ANYWHERE
		..1.	....		VSWKVABV	1 => LOCATION ABOVE 16M
		...1	....		VSWKVBLW	1 => LOCATION BELOW 16M
		....	1...		VSWKVAR	0 => NON-VARIABLE REQUEST 1 => VARIABLE REQUEST
		....	.1..		VSWKBNDY	0 => DOUBLE WORD BOUNDARY 1 => PAGE BOUNDARY
		....	..1.		VSWKUNCD	0 => CONDITIONAL REQUEST 1 => UNCONDITIONAL REQUEST
		....	...1		VSWKTYPE	0 => GETMAIN 1 => FREEMAIN
Start of area cleared in recovery by IGVRRTR						
36	(24)	CHARACTER		64	VSWKCNTL	CONTROL INFORMATION
36	(24)	ADDRESS		4	VSWKGADR	ADDRESS OF ALLOCATED AREA
36	(24)	UNSIGNED		2	VSWKGA01	High bytes
36	(24)	UNSIGNED		1	VSWKGAD0	High Byte
37	(25)	UNSIGNED		1	VSWKGAD1	Byte 1
40	(28)	CHARACTER		60	VSWKWOGA	control information without VSWKGADR
40	(28)	UNSIGNED		4	VSWKACTS	SIZE OF ALLOCATED AREA

Table 523. Structure VSWKCOMM (continued)

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
44	(2C)	UNSIGNED	4	VSWKSIZP	GETMAIN REQUEST SIZE ROUNDED UP TO A MULTIPLE OF 4K
48	(30)	UNSIGNED	1	VSWKRC	INTERNAL RETURN CODE
49	(31)	CHARACTER	1	VSWKPDFL	Protect Detect flags
		1...		VSWK_PROTECT	Need Protect processing
		.1..		VSWK_DETECT	Need Detect processing
50	(32)	CHARACTER	2	*	RESERVED
52	(34)	ADDRESS	4	VSWKCELA	ADDRESS OF CELL POOL FIELDS IN GDA OR LDA
56	(38)	ADDRESS	4	VSWKQA	ADDRESS OF QUEUE ANCHOR FIELDS IN GDA OR LDA
60	(3C)	ADDRESS	4	VSWKRD	ADDRESS OF RD IN USE
64	(40)	ADDRESS	4	VSWKFBQE	ADDRESS OF FBQE BEING PROCESSED
68	(44)	ADDRESS	4	VSWKSPQE	ADDRESS OF SPQE BEING PROCESSED
72	(48)	ADDRESS	4	VSWKDQE	ADDRESS OF DQE BEING PROCESSED
76	(4C)	ADDRESS	4	VSWKAQTF	ADDRESS OF AQAT TABLE ENTRY FOR AREA BEING PROCESSED
80	(50)	ADDRESS	4	VSWKAQTI	ADDRESS OF AQATINDX ENTRY FOR AREA BEING PROCESSED
84	(54)	ADDRESS	4	VSWKDFE	ADDRESS OF DFE BEING PROCESSED
88	(58)	UNSIGNED	4	VSWKMAXA	GETMAIN MAX SIZE AVAILABLE
92	(5C)	ADDRESS	4	VSWKFRRP	USED TO COMMUNICATE BETWEEN MAINLINE GET AND FREE SERVICE ROUTINES AND FRR ROUTINES
96	(60)	CHARACTER	1	VSWKCFLG	CONTROL FLAGS
		1...		VSWKPG	0 => A PAGE HAS NOT FREED UP 1 => A PAGE HAS FREED UP
		.1..		VSWKEXPL	Address of area to get was explicitly specified
		..1.		VSWKEALL	For recovery - indicates that allocation for an explicit request has commenced
		...1		VSWKALLZERO	Every byte of obtained storage contains X'00'.
		.... 1...		VSWKOWNINFO	1 => VswkOwnAsid and VswkOwnJobname contain valid data
		.... .1..		VSWKNEWPG24	1 => Use a new page if obtaining 24 bit storage
		.... ..1.		VSWKNEWPG31	1 => Use a new page if obtaining 31 bit storage
		.... ...1		VSWKDGET	Initialize the obtained storage to a nonzero pattern
97	(61)	UNSIGNED	1	VSWKLOC	LOCATION INDICATOR (See VSWKRLOC, VSWKVLOC)
97	(61)	UNSIGNED	1	VSWKVLOC	VIRTUAL LOCATION INDICATOR 1 => ALLOCATE BELOW 16M 2 => ALLOCATE ABOVE 16M
97	(61)	UNSIGNED	1	VSWKRLOC	REAL LOCATION INDICATOR 1 => Below,Below 2 => Below,Any31 3 => Below,Any64 4 => Above,Any31 5 => Above,Any64 6 => Above,Any64,PageFrameSize1MB

IGVVSMWK mapping

Table 523. Structure VSWKCOMM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
98	(62)	BITSTRING	1	VSWKFRR	Used to communicate between mainline Getmain/Freemain routines and VSM's recovery routines.
		1...		VSWK_CSARE_SET	For Recovery. '1'B => GDACSARE has been set. (GDACSARE contains the number of bytes of common storage that remain unallocated.)
		.1...		VSWK_CSACV_SET	For Recovery. '1'B => GDACSACV, GDA_CSA_Conv and GDA_ECSA_Conc has been set. (GDACSACV contains the number of bytes of CSA that have been converted to SQA.)
		..1.		VSWK_ALLOCSET	For Recovery. '1'B => VSM has already set GDA_xxxx_Alloc. (xxxx = CSA or ECSA or SQA or ESQA.)
		...1		VSWKEXTRACKERCODE	For Recovery. '1'B => VSM is "Executing CSA Tracker Code". Recovery takes special actions when a failure occurs in this code.
		.... 11..		*	Reserved.
		.... ..1.		VSWKDEFERRELA	For Recovery. '1'B => VSM has detected a deferred release condition that involves an "Associated" page.
		.... ...1		VSWKDEFERREL	For Recovery. '1'B => VSM has detected a deferred release condition that involves an fixed page.
<p>VSWKTracking bits are copied from the GDA at the start of every SQA/CSA Getmain/Freemain. We copy these bits to the VSWK so we will be insulated from changes to the state of tracking. This insures, for example, that no Getmain will ever see Tracking flip from on to off while it is in the middle of manipulating Tracking-related data structures.</p>					
99	(63)	BITSTRING	1	VSWKTRACKING	Indicates if on or off. Must be mapped same as GDAFLGS
		1111		*	Reserved DO NOT USE
		.... 1... ..		VSWKCSATRACKING	
		.... .1.. ..		VSWKSQATRACKING	
		.... ..11 ..		*	Reserved DO NOT USE
100	(64)	CHARACTER	12	VSWKRQS2	Request information
100	(64)	ADDRESS	4	VSWK@PTR	Pointer to the target address space
104	(68)	CHARACTER	2	VSWK45TR	Trace data for SVC 4 and 5
104	(68)	BITSTRING	1	VSWK45FL	SVC 4 and 5 request flags
105	(69)	UNSIGNED	1	VSWK45SP	SVC 4 and 5 subpool id
106	(6A)	CHARACTER	2	*	Reserved
108	(6C)	UNSIGNED	4	VSWKPKMSASN	PKM and SASN
108	(6C)	BITSTRING	2	VSWKPKM	Caller's PKM, used in checking user-supplied key

Table 523. Structure VSWKCOMM (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
110	(6E)	UNSIGNED		2	VSWKSASN	Secondary address space. This is used when OWNER=SECONDARY is specified for a common-area GETMAIN or STORAGE OBTAIN.
112	(70)	SIGNED		4	VSWKCSIZ	Size of CELL
116	(74)	ADDRESS		4	VSWKRETA	Return address of caller for any GETMAIN or STORAGE OBTAIN for common storage
116	(74)	BITSTRING		1	VSWKRETAHIGHBYTE	High order byte of VswkRetA
120	(78)	SIGNED		4	VSWKPAGENUM	Number of pages backed by a common area Getmain. (Can be negative.) (Mainline communicates with recovery thru this field.)
124	(7C)	ADDRESS		4	VSWKVSTORVSERRPTR	Address of a storage area where IGVVSTOR puts data which IGVVSERR uses for SSRV PTRACE entries
128	(80)	CHARACTER		8	VSWKOWNJOBNAME	Owning jobname for a common storage request if VswkOwnInfo is 1
136	(88)	UNSIGNED		2	VSWKOWNASID	Owning Asid for a common storage request if VswkOwnInfo is 1
138	(8A)	BITSTRING		1	VSWKMFLG2	
			1...		VSWKA31	Caller is Amode(31)
			.1..		VSWKA64	Caller is Amode(64)
			..1.		VSWKABENDANTICIPATED	Mainline sets this to tell IGVRVSM that an abend is anticipated
			...1		VSWKANTICIPATEDABENDOCURRED	IGVRVSM sets this to tell mainline that an anticipated abend occurred
			.... 1...		VSWKDETECTSUFFIXISVALID	VswkDetectSuffix contains value to be used for setting suffix
			.... .1..		VSWKLARGEPAGESOBTAINED	Large Page Frames Obtained to satisfy Obtain Request
			.... ..1.		VSWKLARGEPAGE4KFREE	4K Free being done for a large page DQE
			.... ...1		*	Reserved
139	(8B)	CHARACTER		1	*	Reserved
140	(8C)	UNSIGNED		4	VSWKAR15VALUE	AR15 on entry to GM/ST
140	(8C)	CHARACTER		1	VSWKAR15FLAGSEXT	Extended Flags
			1...		*	Reserved for Future Extensions
			.1..		VSWKPAGEFRAMESIZE1MB	PageFrameSize1MB Specified
			..11 1111		*	Reserved for Future Extensions
141	(8D)	UNSIGNED		1	VSWKCBODY	Containing Boundary
142	(8E)	UNSIGNED		1	VSWKSBDY	Start Boundary
143	(8F)	BITSTRING		1	VSWKAR15FLAGS	Flags
			1...		VSWKCAUBADDRSPACE	Caub(AddrSpace) specified
			.1..		VSWKOWNERASIDSPECIFIED	OwnerAsid specified
			..11		VSWKFIX	
			.... 11..		VSWKBACK	
			.... 1...		*	

IGVVSMWK mapping

Table 523. Structure VSWKCOMM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		VSWKBACKNONESPECIFIED	
		.... ..1.		VSWKCBDBYSPECIFIED	
		.... ...1		VSWKSBDYSPECIFIED	
144	(90)	ADDRESS	4	VSWKRETADDRHIGH	High order half of the return address in VSWKRETA
148	(94)	ADDRESS	4	VSWKDETECTSUFFIXGQE@	Address of GQE in which suffix must be set
152	(98)	CHARACTER	8	VSWKDETECTSUFFIX	Suffix to use
160	(A0)	UNSIGNED	4	VSWKAR1VALUE	AR1 on entry to GM/ST
160	(A0)	CHARACTER	2	*	Reserved
162	(A2)	UNSIGNED	2	VSWKOWNERASID	OwnerAsid
164	(A4)	ADDRESS	4	VSWKLARGEPAGEDQEPTR	Large Page DQE Address
168	(A8)	SIGNED	4	VSWKINITIALMAXS	Value of VSWKMAXS before accounting for protect/detect
172	(AC)	ADDRESS	4	VSWKANTICIPATEDABENDRETRYADDR	Retry address for an anticipated abend
176	(B0)	SIGNED	4	VSWKINITIALFSIZ	Value of VswkFSiz before accounting for protect/detect
180	(B4)	ADDRESS	4	VSWKLARGEPAGE4KFQEQ	Address of Queue of FQEs that represent freed 4K pages within large page DQE that require a call to RSM for cleanup
184	(B8)	CHARACTER	8	*	Reserved
192	(C0)	CHARACTER	0	*	END OF VSWKCOMM

Table 524. Structure VSWKQANC

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	24	VSWKQANC	MAP OF QUEUE ANCHORS IN GDA OR LDA
0	(0)	ADDRESS	4	VSWKSQAT	ADDRESS OF SQAT IN USE
4	(4)	ADDRESS	4	VSWKAQAT	ADDRESS OF AQAT FOR SUBPOOL BEING PROCESSED
8	(8)	CHARACTER	16	VSWKDFEQ	DFE QUEUE HEADER IN USE
8	(8)	ADDRESS	4	VSWKADF	HEAD OF DFE ADDR QUEUE IN USE
12	(C)	ADDRESS	4	VSWKADL	TAIL OF DFE ADDR QUEUE IN USE
16	(10)	ADDRESS	4	VSWKSZF	HEAD OF DFE SIZE QUEUE IN USE
20	(14)	ADDRESS	4	VSWKSZL	TAIL OF DFE SIZE QUEUE IN USE

Table 525. Structure VSMCPANC

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	12	VSMCPANC	MAP OF CELL POOL ANCHORS IN LDA OR GDA
0	(0)	ADDRESS	4	VSMCPADR	ADDRESS OF VSM'S CELL POOL
4	(4)	SIGNED	4	VSMCPCNT	NUMBER OF FREE CELLS IN VSM'S CELL POOL
8	(8)	ADDRESS	4	VSMFCADR	ADDRESS OF FIRST FREE CELL IN VSM'S CELL POOL

Table 526. Structure VSWKPOOL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	*	VSWKPOOL	VSM CELL POOL BLOCK
0	(0)	CHARACTER	16	VSWKHDR	VSM CELL POOL HEADER
0	(0)	CHARACTER	4	VSWKPID	CONTROL BLOCK IDENTIFIER
4	(4)	ADDRESS	4	VSWKPNXT	ADDRESS OF THE NEXT CELL POOL BLOCK
8	(8)	SIGNED	4	VSWKPSZ	SIZE OF CELL POOL BLOCK
12	(C)	SIGNED	4	VSWKPNUM	NUMBER OF THE EXTENT
16	(10)	CHARACTER	*	VSWKPCEL	AREA FOR CELLS

Table 527. Structure VSWKCELL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	24	VSWKCELL	VSM CELL (SQA OR LSQA)
0	(0)	ADDRESS	4	VSWKCNXT	ADDRESS OF NEXT ELEMENT ON THE FREE CELL ON THE STACK

Table 528. Constants for IGVSMWK

Len	Type	Value	Name	Description
<p>The constants below give the minimum number of free cells that must exist in each internal VSM cellpool in order to guarantee that no Getmain or Freemain or Storage request will exhaust the pool. NOTE: SQA-GQEs and global cells are consumed when the global cellpool is replenished, and when the SQA-GQE cellpool is replenished. The minimum numbers reflect the cost of this replenishment.</p>				
4	DECIMAL	10	VSWKCELLSPERGM	Max number of global cells needed to Get or Free storage. Increased to 9 because of contbdy/startbdy processing that could result in an extra FBQE. Increased to 10 because we get two SPQAs whenever we get an SPQA instead of one. The max ASSUMES NO REPLENISHMENT IS NECESSARY.
4	DECIMAL	1	VSWKGQECCELLSPERGM	Max number of GQE cells needed Get or Free storage, ASSUMING NO REPLENISHMENT IS NECESSARY.
4	DECIMAL	60	VSWKCMIN	Min cells in global pool. Worst case is when all pools need to be replenished. Replenishment of any pool does an "internal" getmain, which needs global cells Getmain proper needs cells
4	DECIMAL	6	VSWKGMIN	Min cells in SQA-GQE pool. Worst case is when all pools need to be replenished. Replenishment of any pool does an "internal" getmain, which needs GQEs. Getmain proper needs cells
4	DECIMAL	1	VSWKCMCA	MINIMUM NUMBER OF CELLS for CAUB
4	DECIMAL	1	VSWKCMVA	MINIMUM NUMBER OF CELLS for VAB

IGVVSMMWK mapping

Table 528. Constants for IGVVSMMWK (continued)

Len	Type	Value	Name	Description
<p>One way to get a cell from a global internal VSM cellpool is to issue Getmain (P) SP(cellid). The "cellid" is one of the constants below, and identifies the particular type of cell desired.</p>				
4	DECIMAL	0	VSWKCVAB	VAB subpool constant for GETMAIN TYPE(P)
4	DECIMAL	1	VSWKCAUB	CAUB subpool constant for GETMAIN TYPE(P)
4	DECIMAL	2	VSWKCSAGQE	CSA GQE subpool constant for GETMAIN TYPE(P)
4	DECIMAL	3	VSWKCSQAGQE	SQA GQE subpool constant for GETMAIN TYPE(P)
4	DECIMAL	245	@NM00021	"General use" global cellpool subpool constant GETMAIN TYPE(P)
4	DECIMAL	5	VSWKNUMGLOBALPOOLS	Number of global internal VSM cellpools. If you add a new cellpool or delete an old one you must update this constant.
0	BIT	0	VSWKRBLW	VSWKREAL IS BELOW 16M
0	BIT	1	VSWKRANY	VSWKREAL IS ANYWHERE
0	BIT	00	VSWKRES	VSWKVIRT IS RESIDENCE
0	BIT	01	VSWKBLW	VSWKVIRT IS BELOW 16M
0	BIT	10	VSWKABV	VSWKVIRT IS ABOVE 16M
0	BIT	10	VSWKEXP	EXPLICIT GETMAIN REQUEST
0	BIT	11	VSWKANY	VSWKVIRT IS ANYWHERE
0	BIT	1	VSWKL16M	VSWKVBLW IS BELOW 16M
0	BIT	1	VSWKG16M	VSWKVABV IS ABOVE 16M
0	BIT	1	VSWKVBL	VSWKVAR IS VARIABLE
0	BIT	0	VSWKELEM	VSWKVAR IS ELEMENT
0	BIT	0	VSWKDWRD	VSWKBNDY IS DOUBLE WORD
0	BIT	1	VSWKPAGE	VSWKBNDY IS PAGE
0	BIT	1	VSWKCOND	VSWKUNCD IS CONDITIONAL
0	BIT	1	VSWKNOCD	VSWKUNCD IS UNCONDITIONAL
0	BIT	0	VSWKGET	VSWKTYPE IS GETMAIN
0	BIT	1	VSWKFREE	VSWKTYPE IS FREEMAIN
0	BIT	00	VSWKOWNER_HOME	
0	BIT	01	VSWKOWNER_PRIMARY	
0	BIT	10	VSWKOWNER_SECONDARY	
0	BIT	11	VSWKOWNER_SYSTEM	
4	DECIMAL	4096	VSWKPROTECTAREASIZE	This must be a power of 2 due to code expansions that use it for "rounding up". If this changes, also change VswkProtectAreaLog.
4	DECIMAL	12	VSWKPROTECTAREALOG	The log-base-2 of the protect area size.
4	DECIMAL	8	VSWKDETECTSUFFIXSIZE	
4	DECIMAL	112	VSWKBADSUFFIXREASON	Reason code for B78 abend when corrupted suffix is detected
0	BIT	00	VSWKBACKBYSPT	Back according to the subpool table
0	BIT	10	VSWKBACKALL	Back all pages
0	BIT	01	VSWKBACKNONE	Back no pages
0	BIT	11	VSWKBACKRESV	Reserved
0	BIT	00	VSWKFIXNO	No fix

Table 528. Constants for IGVSMWK (continued)

Len	Type	Value	Name	Description
0	BIT	01	VSWKFIXSHORT	Short term fix
0	BIT	10	VSWKFIXLONG	Long term fix
0	BIT	11	VSWKFIXRESV	Reserved

Table 529. Cross Reference for IGVSMWK

Name	Offset	Hex Tag
VSMCPADR	0	
VSMCPANC	0	
VSMCPCNT	4	
VSMFCADR	8	
VSWK	0	
VSWK_ALLOCSET	62	20
VSWK_CSACV_SET	62	40
VSWK_CSARE_SET	62	80
VSWK_DETECT	31	40
VSWK_PROTECT	31	80
VSWK@PTR	64	
VSWKABENDANTICIPATED	8A	20
VSWKACDE	5C	
VSWKACTS	28	
VSWKADF	8	
VSWKADL	C	
VSWKALET	23	80
VSWKALLZERO	60	10
VSWKALST	70	
VSWKANTICIPATEDABENDOCURRED	8A	10
VSWKANTICIPATEDABENDRETRYADDR	AC	
VSWKAQAT	4	
VSWKAQTF	4C	
VSWKAQTI	50	
VSWKARSN	5E	
VSWKAR1VALUE	A0	
VSWKAR15FLAGS	8F	
VSWKAR15FLAGSEXT	8C	
VSWKAR15USED	1E	20
VSWKAR15VALUE	8C	
VSWKA31	8A	80
VSWKA64	8A	40
VSWKBACK	8F	0C
VSWKBACKNONESPECIFIED	8F	04
VSWKBNDY	23	04
VSWKCAUBADDRSPACE	8F	80
VSWKCBDY	8D	
VSWKCBDYSPECIFIED	8F	02
VSWKCELA	34	
VSWKCELL	0	
VSWKCFG	60	
VSWKCHECKZERO	1E	08

IGVVSMWK mapping

Table 529. Cross Reference for IGVVSMWK (continued)

Name	Offset	Hex Tag
VSWKCKEY	62	
VSWKCNTL	24	
VSWKCNXT	0	
VSWKCOMA	80	
VSWKCOMM	0	
VSWKCOMS	0	
VSWKCSATRACKING	63	08
VSWKCSIZ	70	
VSWKDEFERREL	62	01
VSWKDEFERRELA	62	02
VSWKDETECTSUFFIX	98	
VSWKDETECTSUFFIXGQE@	94	
VSWKDETECTSUFFIXISVALID	8A	08
VSWKDFE	54	
VSWKDFEQ	8	
VSWKDGET	60	01
VSWKDQE	48	
VSWKEALL	60	20
VSWKELST	6C	
VSWKENT	61	40
VSWKESPL	21	
VSWKEXPL	60	40
VSWKEXSP	20	
VSWKEXTRACKERCODE	62	10
VSWKEXTS	8	
VSWKFADR	10	
VSWKFAD0	10	
VSWKFAD1	11	
VSWKFA01	10	
VSWKFBQE	40	
VSWKFFQE	1F	04
VSWKFIX	8F	30
VSWKFLGS	63	
VSWKFRR	62	
VSWKFRRP	5C	
VSWKFSIZ	C	
VSWKFSIZ_BIT0	C	80
VSWKFSP	61	01
VSWKGADR	24	
VSWKGAD0	24	
VSWKGAD1	25	
VSWKGA01	24	
VSWKGDA	50	
VSWKGLBL	61	20
VSWKGLSR	1F	40
VSWKHDR	0	
VSWKID	0	
VSWKINITIALFSIZ	B0	
VSWKINITIALMAXS	A8	

Table 529. Cross Reference for IGVSMWK (continued)

Name	Offset	Hex Tag
VSWKKEY	62	F0
VSWKKEY8	62	80
VSWKLARGEAGEDQEPT	A4	
VSWKLARGEAGESOBTAINED	8A	04
VSWKLARGEPAGE4KFQEQ	B4	
VSWKLARGEPAGE4KFREE	8A	02
VSWK LDA	54	
VSWKLFQE	1F	01
VSWKLIST	74	
VSWKLLST	68	
VSWKLOC	61	
VSWKLST	61	04
VSWKMAIN	8	
VSWKMAXA	58	
VSWKMAXS	4	
VSWKMAXS_BIT0	4	80
VSWKMFBQ	1F	02
VSWKMFLG	1F	
VSWKMFLG2	8A	
VSWKMINS	8	
VSWKMINS_BIT0	8	80
VSWKMKEY	5F	
VSWKMSPEC	1E	40
VSWKNEWPG24	60	04
VSWKNEWPG31	60	02
VSWKNOBK	1F	20
VSWKOWNASID	88	
VSWKOWNER	1E	03
VSWKOWNERASID	A2	
VSWKOWNERASIDSPECIFIED	8F	40
VSWKOWNINFO	60	08
VSWKOWNJOBNAME	80	
VSWKPAGEFRAMESIZE1MB	8C	40
VSWKPAGENUM	78	
VSWKPCEL	10	
VSWKPDFL	31	
VSWKPFLG	61	
VSWKPG	60	80
VSWKPID	0	
VSWKPKM	6C	
VSWKPKMSASN	6C	
VSWKPNUM	C	
VSWKPNTX	4	
VSWKPOOL	0	
VSWKPROC	60	
VSWKPSZ	8	
VSWKQA	38	
VSWKQANC	0	
VSWKRC	30	

IGVVSMWK mapping

Table 529. Cross Reference for IGVVSMWK (continued)

Name	Offset	Hex Tag
VSWKRCML	61	08
VSWKRCPU	63	10
VSWKRCCR	61	02
VSWKRCVR	1F	80
VSWKRCWK	78	
VSWKRD	3C	
VSWKREAL	23	40
VSWKREQT	1F	08
VSWKRETA	74	
VSWKRETADDRHIGH	90	
VSWKRETAHIGHBYTE	74	
VSWKRFIX	61	80
VSWKRFLG	23	
VSWKRFLG2	1E	
VSWKRFRR	63	20
VSWKRLOC	61	
VSWKRPAQ	61	10
VSWKRQST	4	
VSWKRQS2	64	
VSWKRSET	63	40
VSWKR31	23	40
VSWKR64	1E	10
VSWKSADR	4	
VSWKSASN	6E	
VSWKSAVE	7C	
VSWKSBDY	8E	
VSWKSBDYSPECIFIED	8F	01
VSWKSIZP	2C	
VSWKSKEY	22	
VSWKSKEYUSER	22	80
VSWKSPKY	20	
VSWKSPQE	44	
VSWKSPTT	14	
VSWKSQAT	0	
VSWKSQATRACKING	63	04
VSWKSTAT	62	01
VSWKSTCK	140	
VSWKSTOR	63	80
VSWKSVC	60	
VSWKSZF	10	
VSWKSZL	14	
VSWKTCB	58	
VSWKTCBS	1E	04
VSWKTOP	64	
VSWKTRACKING	63	
VSWKTYPE	23	01
VSWKUNCD	23	02
VSWKUNUSABLE	63	08
VSWKVABV	23	20

Table 529. Cross Reference for IGVSMWK (continued)

Name	Offset	Hex Tag
VSWKVAR	23	08
VSWKVBLW	23	10
VSWKVIRT	23	30
VSWKVLOC	61	
VSWKVSTORVSERRPTR	7C	
VSWKWEXP	1F	07
VSWKWOGA	28	
VSWK2FRR	1F	10
VSWK45FL	68	
VSWK45SP	69	
VSWK45TR	68	

IGVVSMWK mapping

Chapter 127. IHAARB Information

IHAARB Programming Interface Information

IHAARB is a programming interface.

IHAARB Heading Information

Common Name: Associated Request Block Mapping
Macro ID: IHAARB
DSECT Name: ARB
Owning Component: SVC Dump (SCDMP)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: N/A
Key: N/A
Residency: N/A
Size: 4096 bytes
ARB -- X'1000' bytes
Created by: N/A
Pointed to by: User
Serialization: None required
Function: Provides a map for the dumping Associated Request Block
The associated request block is a list of all of the ranges of objects that were validly requested to be dumped. It is created based on what is specified in the STRLIST and placed in the dump header (IHADWHDR) when the dump is taken and written to the dump data set.

IHAARB mapping

Table 530. Structure ARB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ARB	Associated Request Block (ARB)
0	(0)	CHARACTER	16	ARB_RANGEENTRY	Array of range entries in the ARB. The maximum number of range entries that can be specified in the ARB is 256. To find how many actual ranges are in the ARB, look at the field DWHDRDUMPLISTLEN found in the dump header. The dump header is mapped by IHADWHDR
0	(0)	CHARACTER	16	ARB_RANGE	A single range ...
0	(0)	BITSTRING	2	ARB_OBJECTTYPE	Dump Object Type
The following field only apply if the ARB-OBJECT Type is equal to either KARB_Castout_Type, KARB_StorClass_Type, or KARB_ListNum_Type					
2	(2)	CHARACTER	1	ARB_RANGEFLAGS	Reserved

Bit definitions:

IHAARB mapping

Table 530. Structure ARB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		ARB_INCLUDEADJ	"X'80'" Adjunct inclusion - 0 => Indicates that adjunct data was not requested to be dumped 1 => Indicates that adjunct data was requested to be dumped NOTE: If on, see the ARB_AdjDirect bit to see how the adjunct data was dumped
		.1...		ARB_SUMMARY	"X'40'" Summary indicator 0 => Indicates that the the entries will be dumped for this object SUMMARY=NO 1 => Indicates that no entries will be dumped for this object SUMMARY=YES
3	(3)	CHARACTER	1	ARB_RANGEINFO	Range Information
Bit definitions:					
		1...		ARB_EDATAREQ	"X'80'" Entry data requested flag 0 => EDATA=NO - Indicates that entry data associated with data entries should not be dumped 1 => EDATA=SERIALIZED| UNSERIALIZED - Indicates that entry data associated with data entries should be dumped NOTE: if this bit is set on, check the ARB_EDataSer to see if the entry data was dumped serialized or unserialized
		.1...		ARB_EDATASER	"X'40'" Entry Data serialized flag 0 => EDATA=UNSERIALIZED - Indicates that the entry data is to be dumped without dump serialization being held on the structure 1 =>EDATA=SERIALIZED - Indicates that the entry data is to be dumped with dump serialization on the structure NOTE: Only valid if ARB_EDataReq is set to on
		..1.		ARB_ADJDIRECT	"X'20'" ADJUNCT=DIRECTIO bit - 0 => Indicates that the adjunct data was captured and dumped with the entry controls (ADJUNCT=CAPTURE) 1 => Indicates that the adjunct data was written directly to the dump data set from the structure ADJUNCT=DIRECTIO NOTE: Valid only if the ARB_IncludeAdj bit is on
4	(4)	CHARACTER	4		Reserved
8	(8)	SIGNED	4	ARB_RANGESTART	Start of Range
12	(C)	SIGNED	4	ARB_RANGEEND	End of Range
Constants for the Dumping Object Type					

Table 530. Structure ARB (continued)

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
12	(C)	BITSTRING	0	KARB_LOCKTABLE_TYPE	"X'0301'" Lock table
12	(C)	BITSTRING	0	KARB_LISTNUM_TYPE	"X'0302'" List Number
12	(C)	BITSTRING	0	KARB_USERCNTLS_TYPE	"X'0303'" List User Controls
12	(C)	BITSTRING	0	KARB EMCNTL_TYPE	"X'0304'" Event Monitor Control
12	(C)	BITSTRING	0	KARB_EVENTQ_TYPE	"X'0305'" Event Queue
12	(C)	BITSTRING	0	KARB_STORCLASS_TYPE	"X'0401'" Storage class
12	(C)	BITSTRING	0	KARB_CASTOUT_TYPE	"X'0402'" Castout class
12	(C)	BITSTRING	0	KARB_LCCNTLS_TYPE	"X'0403'" Local cache Controls
4096	(1000)	X'1000'	0	ARB_LEN	"*-ARB"

Table 531. Cross Reference for IHAARB

Name	Offset	Hex Tag
ARB	0	
ARB_ADJDIRECT	3	20
ARB_EDATAREQ	3	80
ARB_EDATASER	3	40
ARB_INCLUDEADJ	2	80
ARB_LEN	1000	1000
ARB_OBJECTTYPE	0	
ARB_RANGE	0	
ARB_RANGEEND	C	
ARB_RANGEENTRY	0	
ARB_RANGEFLAGS	2	
ARB_RANGEINFO	3	
ARB_RANGESTART	8	
ARB_SUMMARY	2	40
KARB_CASTOUT_TYPE	C	402
KARB EMCNTL_TYPE	C	304
KARB_EVENTQ_TYPE	C	305
KARB_LCCNTLS_TYPE	C	403
KARB_LISTNUM_TYPE	C	302
KARB_LOCKTABLE_TYPE	C	301
KARB_STORCLASS_TYPE	C	401
KARB_USERCNTLS_TYPE	C	303

IHAARB mapping

Chapter 128. IHAASTE1 Information

IHAASTE1 Heading Information

Common Name: ADDRESS SPACE SECOND TABLE ENTRY (ASTE)
 Macro ID: IHAASTE1
 DSECT Name: ASTE1
 Owning Component: SUPERVISOR CONTROL (SC1C5)
 Eye-Catcher ID: NONE
 Storage Attributes: Subpool: 245
 Key: 0
 Size: 64 BYTES. THERE IS ONE ASTE PER ADDRESS SPACE.
 Created by: IEAVNP09
 (SUBPOOL 245 - COMMON SQA/ESQA)
 Pointed to by: ASCBASTE (VIRTUAL ADDRESS)
 Serialization: FIELDS ARE SERIALIZED BY THE PC/AUTH ADDRESS
 SPACE LOCAL LOCK AND BY COMPARE AND SWAP.
 Function: MAPS THE ASTE. THE ASTE CONTAINS THE REAL ADDRESS AND
 LENGTH OF THE LT, THE REAL ADDRESS AND LENGTH OF THE
 AT, AND OTHER ADDRESS SPACE ORIENTED CROSS MEMORY
 INFORMATION.

IHAASTE1 mapping

Table 532. Structure ASTE1

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	64	ASTE1	ADDRESS SPACE SECOND TABLE ENTRY.
0	(0)	ADDRESS	4	ASTE1ATO	AUTHORIZATION TABLE ORIGIN. CONTAINS REAL ADDRESS OF THE AT FOR THIS ADDRESS SPACE. BITS 1-29 OF ASTE1ATO, WITH TWO LOW ORDER ZEROS APPENDED, FORM THE AUTHORIZATION TABLE REAL ADDRESS. SERIALIZED BY THE PC/AUTH ADDRESS SPACE LOCAL LOCK AND CS
		1... ..		ASTE1ICMA	INVALID CROSS MEMORY ACCESS INDICATOR. IF 1, THE ADDRESS SPACE ASSOCIATED WITH THIS ASTE1 IS NOT AVAILABLE FOR CROSS MEMORY FUNCTIONS.
4	(4)	UNSIGNED	2	ASTE1AX	AUTHORIZATION INDEX. SERIALIZED BY THE PC/AUTH ADDRESS SPACE LOCAL LOCK.
6	(6)	UNSIGNED	2	ASTE1ATL	AUTHORIZATION TABLE LENGTH. BITS 0-11 CONTAIN THE NUMBER OF WORDS, MINUS ONE, IN THE AT. BITS 12-13 ARE ZERO. BITS 14-15 ARE INDICATORS. SERIALIZED BY THE PC/AUTH ADDRESS SPACE LOCAL LOCK.

IHAASTE1 mapping

Table 532. Structure ASTE1 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
6	(6)	BITSTRING	1	ASTE1ATL0	
7	(7)	BITSTRING	1	ASTE1ATL1	
		1111		*	
		.... 11..		ASTE1RV01	RESERVED BITS - ZERO
		.... ..1.		ASTE1CA	CONTROLLED ASID
		.... ...1		ASTE1RA	REUSABLE ASID
8	(8)	BITSTRING	8	ASTE1ASCE	SEGMENT/REGION TABLE DESCRIPTOR AND LENGTH IN FORMAT OF CRS 1 AND 7. SERIALIZED BY CS.
8	(8)	CHARACTER	8	ASTE1TA	TABLE ADDRESS. 0-51 OF THE ASCE, WITH 12 ZEROS APPENDED, FORM THE 64 BIT REAL ADDRESS OF THE SEGMENT/REGION TABLE.
8	(8)	BITSTRING	6	*	BYTES 0-5 OF THE ASCE
14	(E)	BITSTRING	1	ASTE1TFL	TABLE FLAGS
		1111		*	PART OF REAL ADDRESS
		.... 11..		ASTE1ASCEBITS52AND53	ASCE.52/53
		.... ..1.		ASTE1SUBSP	SUBSPACE-GROUP CONTROL (ONLY IN PSTD AND SSTD)
		.... ...1		ASTE1PVT	PRIVATE-SPACE CONTROL
15	(F)	BITSTRING	1	ASTE1TL	TABLE LENGTH (IN BITS 62-63), MINUS ONE, IN UNITS OF 4096 BYTES.
		1...		ASTE1SAEM	STORAGE ALTERATION EVENT MASK. IF ON, A STORAGE ALTERATION PER EVENT CAN OCCUR WITHIN THE DESIGNATED SPACE. SERIALIZED BY COMPARE AND SWAP.
		.1..		ASTE1SSEM	SPACE SWITCH EVENT MASK. IF 1, A PROGRAM INTERRUPT WILL BE PRESENTED ON COMPLETION OF A PC OR PT THAT CAUSES A SPACE SWITCH. SERIALIZED BY COMPARE AND SWAP.
		..1.		ASTE1REAL	REAL-SPACE CONTROL
		...1		*	UNUSED
		.... 11..		ASTE1DTYPE	DESIGNATION TYPE SEE CONSTANT ASTE1DTYPE_XXX. '00' = SEGMENT TABLE '01' = REGION 3RD TABLE '10' = REGION 2ND TABLE '11' = REGION 1ST TABLE. NOT USED WHEN REAL-SPACE
		.... ..11		ASTE1TLEN	TABLE LENGTH. NOT USED WHEN REAL-SPACE
16	(10)	ADDRESS	4	ASTE1PALD	PASN ACCESS LIST DESIGNATOR. BITS 1-24 WITH SEVEN ZEROES APPENDED ON THE RIGHT FORM THE 31-BIT REAL ADDRESS OF THE PASN ACCESS LIST. BITS 25-31 REPRESENT THE NUMBER OF 128 BYTE ACCESS LISTS, MINUS ONE.
20	(14)	UNSIGNED	4	ASTE1SQN	ASTE1 SEQUENCE NUMBER. (UNSIGNED)
24	(18)	CHARACTER	4	*	

Table 532. Structure ASTE1 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
24	(18)	ADDRESS	4	ASTE1LTD	LINKAGE TABLE DESIGNATOR. BITS 1-24, WITH SEVEN LOW ORDER ZEROS APPENDED, FORM THE LINKAGE TABLE REAL ADDRESS. BITS 25-31 CONTAIN THE NUMBER OF 128 BYTE EXTENTS, MINUS ONE, IN THE LINKAGE TABLE. SERIALIZED BY THE PC/AUTH ADDRESS SPACE LOCAL LOCK.
		1...		ASTE1LTV	LINKAGE TABLE VALID FLAG. IF 1, LT IS VALID, IF 0, LT IS INVALID.
24	(18)	ADDRESS	4	ASTE1LFTD	LINKAGE FIRST TABLE DESIGNATOR. BITS 1-23, WITH EIGHT LOW ORDER ZEROS APPENDED, FORM THE LINKAGE FIRST TABLE REAL ADDRESS. BITS 24-31 CONTAIN THE NUMBER OF 256 BYTE EXTENTS, MINUS ONE, IN THE LINKAGE FIRST TABLE. SERIALIZED BY THE PC/AUTH ADDRESS SPACE LOCAL LOCK.
		1...		ASTE1LFTV	LINKAGE FIRST TABLE VALID FLAG. IF 1, LFT IS VALID, IF 0, LFT IS INVALID.
28	(1C)	ADDRESS	4	ASTE1PROG	ASTE1 PROGRAMMING WORD IF ADDRESS SPACE - CONTAINS ASCB ADDRESS.
		1111		ASTE1TYPE	ASTE1PROG TYPE INFORMATION: '0000'B - ADDRESS SPACE ASTE1 '1000'B - DATA SPACE ASTE1 '0100'B - SUBSPACE ASTE1
32	(20)	CHARACTER	12	ASTE1R020	RESERVED
44	(2C)	UNSIGNED	4	ASTE1IN	INSTANCE NUMBER
48	(30)	CHARACTER	16	ASTE1R030	RESERVED
64	(40)	CHARACTER	0	ASTE1END	END OF ASTE1.

Table 533. Constants for IHAASTE1

Len	Type	Value	Name	Description
CONSTANTS FOR ASTE1DTYPE				
0	BIT	00	ASTE1DTYPE_ST	SEGMENT TABLE
0	BIT	01	ASTE1DTYPE_R3T	REGION 3RD TABLE
0	BIT	10	ASTE1DTYPE_R2T	REGION 2ND TABLE
0	BIT	11	ASTE1DTYPE_R1T	REGION 1ST TABLE
CONSTANTS FOR ASTE1TYPE				
0	BIT	1000	ASTE1DS	DATA SPACE ASTE1
0	BIT	0100	ASTE1SS	SUBSPACE ASTE1
0	BIT	0000	ASTE1AS	ADDRESS SPACE ASTE1
Constants for ASTE1ATL				
2	HEX	FFF0	ASTE1ATLMASK	Mask for obtaining ATL*16 from ASTE1ATL
2	HEX	0001	ASTE1ATLNONATLMASK	Mask for obtaining non-ATL bits used by MVS from ASTE1ATL

IHAASTE1 mapping

Table 534. Cross Reference for IHAASTE1

Name	Offset	Hex Tag
ASTE1	0	
ASTE1ASCE	8	
ASTE1ASCEBITS52AND53	E	0C
ASTE1ATL	6	
ASTE1ATL0	6	
ASTE1ATL1	7	
ASTE1ATO	0	
ASTE1AX	4	
ASTE1CA	7	02
ASTE1DTYPE	F	0C
ASTE1END	40	
ASTE1ICMA	0	80
ASTE1IN	2C	
ASTE1LFTD	18	
ASTE1LFTV	18	80
ASTE1LTD	18	
ASTE1LTV	18	80
ASTE1PALD	10	
ASTE1PROG	1C	
ASTE1PVT	E	01
ASTE1RA	7	01
ASTE1REAL	F	20
ASTE1RV01	7	0C
ASTE1R020	20	
ASTE1R030	30	
ASTE1SAEM	F	80
ASTE1SQN	14	
ASTE1SSEM	F	40
ASTE1SUBSP	E	02
ASTE1TA	8	
ASTE1TFL	E	
ASTE1TL	F	
ASTE1TLEN	F	03
ASTE1TYPE	1C	F0

Chapter 129. IHACDR Information

IHACDR Programming Interface Information

IHACDR is a programming interface.

IHACDR Heading Information

Common Name: Configuration Data Record
Macro ID: IHACDR
DSECT Name: CDR, NED, GNEQ, SNEQ
Owning Component: I/O Supervisor (SC1C3)
Eye-Catcher ID: none
Storage Attributes: Subpool: caller-provided
Key: caller-provided
Residency: caller-provided
Size: Variable
CDR -- X'0020' bytes
byte records.
GNEQ -- X'0020' bytes
SNEQ -- X'0020' bytes
NED -- X'0020' bytes
Created by: issuer of IOSCDR service
Pointed to by: User defined
Serialization: N/A
Function: IHACDR maps the configuration data record (CDR), which is returned by the read configuration data (RCD) command. A CDR consists of a variable number of 32-byte fields. Each 32-byte field is identified in the first 2 bits (field identifier) as one of four types: unused, a general node element qualifier (GNEQ), a specific node element qualifier (SNEQ), or a node element descriptor (NED). After the field identifier, the contents of the rest of the 32-byte field depends on the type. If the 32-byte field is a GNEQ, it is mapped by the GNEQ structure included in IHACDR. If the 32-byte field is an SNEQ, it is mapped by the SNEQ structure included in IHACDR. If the 32-byte field is an NED, it is mapped by the NED structure included in IHACDR. Unused fields have no mapping.
The GNEQ is required and is the last 32-byte field in a CDR. The GNEQ contains information that applies to all of the node elements in a CDR.
An SNEQ or set of contiguous SNEQs contain information regarding the node element described by the immediately preceding NED in the CDR. SNEQs are optional.
An NED is a required 32-byte field in a CDR. There may be more than 1 NED in a CDR. The NED contains information that uniquely identifies a node element.

IHACDR mapping

Table 535. Structure CDR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CDR	Configuration data record
0	(0)	CHARACTER	32	CDRFIELD(0)	A CDR consists of a variable number of 32-byte fields
0	(0)	CHARACTER	32	CDRFINFO(0)	CDR field information
0	(0)	CHARACTER	1	CDRFLAGS(0)	Byte 0
		11..		CDRFLDID	"X'C0'" Field identifier - identifies the contents of the 32-byte field. The content of the remaining fields of this structure depend on the field identifier.
1	(1)	CHARACTER	31		Bytes 1-31
Values for CDRFLDID					
		.... ....		CDRFUNUS	"B'00000000'" Unused
		.1..		CDRFSNEQ	"B'01000000'" SNEQ
		1...		CDRFGNEQ	"B'10000000'" GNEQ
		11..		CDRFNED	"B'11000000'" NED
1	(1)	X'20'	0	CDR_LEN	"*-CDR"

Table 536. Structure GNEQ

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	GNEQ	General Node-Element Qualifier
0	(0)	CHARACTER	1	GNEFLAGS(0)	Flags
		11..		GNEFLDID	"X'C0'" Field identifier
		.... ...1		GNEDYNRT	"X'01'" Dynamic Routing is supported
1	(1)	BITSTRING	1	GNERS	Record selector
2	(2)	SIGNED	2	GNEINTID	Interface ID
4	(4)	BITSTRING	1	GNEDDTO	Device-Dependent Time Out
5	(5)	CHARACTER	1		Reserved
6	(6)	BITSTRING	1	GNEMIHPT	MIH primary time out
7	(7)	BITSTRING	1	GNEMIHST	MIH secondary time out
8	(8)	CHARACTER	24	GNEXINFO(0)	General node element extended information
8	(8)	BITSTRING	1	GNEQFLDS	Q fields
32	(20)	X'20'	0	GNEQ_LEN	"*-GNEQ"

Table 537. Structure SNEQ

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SNEQ	Specific Node-Element Qualifier
0	(0)	CHARACTER	1	SNEFLAGS(0)	Flags
		11..		SNEFLDID	"X'C0'" Field identifier
1	(1)	CHARACTER	7		Reserved
8	(8)	CHARACTER	24	SNEXINFO	Specific node element extended information
8	(8)	X'20'	0	SNEQ_LEN	"*-SNEQ"

Table 538. Structure NED

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NED	Node-Element Descriptor
0	(0)	CHARACTER	1	NEDFLAGS(0)	Flags
		11..		NEDFLDID	"X'C0'" Field identifier
		..1.		NEDTOKEN	"X'20'" Token indicator
		...1		NEDSNIND	"X'10'" Serial number indicator
		.... 1...		NEDSUBSN	"X'08'" Substitute serial number indicator
		.... .1..		NEDRECON	"X'04'" Reconfiguration NED indicator
		.... ..1.		NEDEMULA	"X'02'" Emulation NED indicator
1	(1)	BITSTRING	1	NEDTYPE	Type of node element described by this NED
2	(2)	BITSTRING	1	NEDCLASS	I/O device class. Valid only for I/O device type NEDs
3	(3)	BITSTRING	1	NEDFLAG2(0)	
		.... ...1		NEDLEVEL	"X'01'" Level indicator
4	(4)	CHARACTER	28	NEDID(0)	Node element identifier
4	(4)	CHARACTER	26	NEDSRTID(0)	26 byte node element identifier
4	(4)	CHARACTER	6	NEDTYPEN	Type number
10	(A)	CHARACTER	3	NEDMODN	Model number
13	(D)	CHARACTER	3	NEDMANUF	Manufacturer
16	(10)	CHARACTER	2	NEDPMANU	Plant of manufacture
18	(12)	CHARACTER	12	NEDSEQN	Sequence number
30	(1E)	SIGNED	2	NEDTAG	Tag
Values for NEDTYPE					
30	(1E)	X'0'	0	NEDTUNSP	"0" Unspecified
30	(1E)	X'1'	0	NEDTIODV	"1" I/O device
30	(1E)	X'2'	0	NEDTCU	"2" Control Unit
Values for NEDCLASS					
30	(1E)	X'0'	0	NEDCUNSP	"0" Unspecified
30	(1E)	X'1'	0	NEDCDASD	"1" DASD
30	(1E)	X'2'	0	NEDCTAPE	"2" Magnetic tape
30	(1E)	X'3'	0	NEDCURIN	"3" Unit record (input)
30	(1E)	X'4'	0	NEDCUROT	"4" Unit record (output)
30	(1E)	X'5'	0	NEDCPRT	"5" Printer
30	(1E)	X'6'	0	NEDCCOMM	"6" Communications controller
30	(1E)	X'7'	0	NEDCFST	"7" Full screen terminal
30	(1E)	X'8'	0	NEDCLMT	"8" Line mode terminal
30	(1E)	X'9'	0	NEDCCTCA	"9" Channel-to-channel adapter
30	(1E)	X'A'	0	NEDCSWIT	"10" Switch
30	(1E)	X'C'	0	NEDCTRL	"12" Controller
Values for GNEQFLDS					
30	(1E)	X'1'	0	GNEQITME	"1" Device dependent time out value field offset
30	(1E)	X'20'	0	NED_LEN	"*-NED"

IHACDR mapping

Table 539. Cross Reference for IHACDR

Name	Offset	Hex Tag
CDR	0	
CDR_LEN	1	20
CDRFGNEQ	1	80
CDRFIELD	0	
CDRFINFO	0	
CDRFLAGS	0	
CDRFLDID	0	C0
CDRFNED	1	C0
CDRFSNEQ	1	40
CDRFUNUS	1	0
GNEDDTO	4	
GNEDYNRT	0	1
GNEFLAGS	0	
GNEFLDID	0	C0
GNEINTID	2	
GNEMIHPT	6	
GNEMIHST	7	
GNEQ	0	
GNEQ_LEN	20	20
GNEQFLDS	8	
GNEQITME	1E	1
GNERS	1	
GNEXINFO	8	
NED	0	
NED_LEN	1E	20
NEDCCOMM	1E	6
NEDCCTCA	1E	9
NEDCCTRL	1E	C
NEDCDASD	1E	1
NEDCFST	1E	7
NEDCLASS	2	
NEDCLMT	1E	8
NEDCPRT	1E	5
NEDCSWIT	1E	A
NEDCTAPE	1E	2
NEDCUNSP	1E	0
NEDCURIN	1E	3
NEDCURET	1E	4
NEDEMULA	0	2
NEDFLAGS	0	
NEDFLAG2	3	
NEDFLDID	0	C0
NEDID	4	
NEDLEVEL	3	1
NEDMANUF	D	
NEDMODN	A	
NEDPMANU	10	
NEDRECON	0	4
NEDSEQN	12	

Table 539. Cross Reference for IHACDR (continued)

Name	Offset	Hex Tag
NEDSNIND	0	10
NEDSRTID	4	
NEDSUBSN	0	8
NEDTAG	1E	
NEDTCU	1E	2
NEDTIODV	1E	1
NEDTOKEN	0	20
NEDTUNSP	1E	0
NEDTYPE	1	
NEDTYPEN	4	
SNEFLAGS	0	
SNEFLDID	0	C0
SNEQ	0	
SNEQ_LEN	8	20
SNEXINFO	8	

IHACDR mapping

Chapter 130. IHADPL Information

IHADPL Heading Information

Common Name: SVC DUMP PACKING LIST
 Macro ID: IHADPL
 DSECT Name: DPL
 Owing Component: SVC Dump (SCDMP)
 Eye-Catcher ID: DPL
 Offset: 0
 Length: 4
 Storage Attributes: Subpool: 245 (common) or 225 (private)
 Key: 0
 Residency: Above 16M, fixed common
 Size: 2920 bytes
 Created by: IEAVTSDI, IEAVTSDS
 Pointed to by: Reg 1 on entry to IEAVTDWT
 RTCTDPLF, RTCTDPLB (common DPL queue)
 RTSDPPF, RTSDDPPB (private DPL queue)
 DPLFWDPT, DPLBWDPT (next, prev DPL)
 SddSYDPL (backup common DPL)
 Serialization: ENQ on SYSIEA01 DPLCHAIN for DPL queue
 Function: THE SVC DUMP PACKING LIST DESCRIBES THE ENTIRE
 PACKAGED DUMP. IT CONTAINS POINTERS TO THE INFORMATION
 WHICH WILL BE WRITTEN TO THE DUMP DATA SET.
 THE DUMP PACKING LIST IS PASSED AS INPUT TO THE DUMP
 WRITING TASK.

IHADPL mapping

Table 540. Structure DPL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	2920	DPL	SVC DUMP PACKING LIST
0	(0)	CHARACTER	4	DPLID	DPL ACRONYM
----- Caution ----- Fields from DplFirstNotCopy to DplLastNotCopy must be contiguous. They represent fields which must not be overlaid if/when a COMMON DPL is copied into a private DPL.					
4	(4)	CHARACTER	0	DPLFIRSTNOTCOPY	
4	(4)	ADDRESS	4	DPLFWDPT	NEXT ELEMENT POINTER
8	(8)	ADDRESS	4	DPLBWDPT	PREVIOUS ELEMENT POINTER
12	(C)	ADDRESS	4	DPLSWT	Address of SWT being used to dump info in this DPL
16	(10)	ADDRESS	4	DPLHDDRP	POINTER TO DUMP HEADER AND 4K BUFFER
20	(14)	SIGNED	4	DPLSUBPOOL	Which subpool DPL is in
24	(18)	UNSIGNED	4	DPLWTECB	ECB WAITED ON BY IEAVTDWT DURING CAPTURE PHASE - POSTED AT END OF DUMP CAPTURE PHASE. It must not be copied, because copying would overlay the WAIT information.

IHADPL mapping

Table 540. Structure DPL (continued)

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
28	(1C)	CHARACTER	1	DPLNOTCOPYFLAGS	Flags
		1... ..		DPLSYSTEM	If on, this is the single system DPL
		.1... ..		DPLDUMMY	If on, this is a private DPL which is waiting for the system DPL to be copied into it.
		..1.		DPLINPRIVATE	If on, this is a private DPL
		...1		DPLEXITINHIGHVIRTUAL	If on, the dump is capturing exit data into dumsrv high virtual (ME04648)
		.... 1111		*	Reserved
29	(1D)	CHARACTER	3	*	
32	(20)	CHARACTER	16	*	
48	(30)	CHARACTER	0	DPLLASTNOTCOPY	
48	(30)	ADDRESS	4	DPLDDSN	DUMP DATA SET NAME
52	(34)	CHARACTER	132	DPLSUMRY	SUMMARY DUMP INFORMATION
52	(34)	CHARACTER	8	DPLSDSP	STOKEN OF SUMDUMP DATA SPACE
60	(3C)	SIGNED	4	DPLSDNUM	NUMBER OF SUMDUMP DATA SECTIONS
64	(40)	CHARACTER	8	DPLSDATT(15)	ARRAY OF THE ADDRESS AND SIZE OF EACH DATA SECTION
64	(40)	ADDRESS	4	DPLSDATP	ADDRESS OF THE CURRENT SUMDUMP DATA SECTION
68	(44)	SIGNED	4	DPLSDSIZ	SIZE OF THE VALID DATA IN THE CURRENT SDUMP DATA SECTION
184	(B8)	CHARACTER	16	DPLEXITD	EXIT DATA INFORMATION
184	(B8)	CHARACTER	8	DPLDSTKN	STOKEN OF DumpSrv
192	(C0)	ADDRESS	4	DPLEBUFF	Address of the Exit Buffer Anchor in DumpSrv
196	(C4)	ADDRESS	4	DPLEWRKP	Address of a work area used by the SDUMP started task to obtain storage for the IARV64 invocation
200	(C8)	CHARACTER	24	DPLCOMN	COMMON CAPTURED RANGES
200	(C8)	CHARACTER	8	DPLCDSP	STOKEN OF COMMON DATA SPACE
208	(D0)	ADDRESS	4	DPLCROTB	ADDRESS OF THE READ ONLY COMMON RANGE TABLE COPY
212	(D4)	ADDRESS	4	DPLCDONC	ADDRESS OF THE DATOFF NUCLEUS RANGE TABLE COPY
216	(D8)	SIGNED	4	DPLCDPXN	NUMBER OF DRPX DATA SECTIONS
220	(DC)	ADDRESS	4	DPLCDPXP	ADDRESS OF FIRST DRPX SET FOR READ/WRITE STORAGE
224	(E0)	CHARACTER	16	DPLPTABL(15)	LOCAL STORAGE DATA SPACE INFORMATION
224	(E0)	CHARACTER	8	DPLPTABS	STOKEN OF LOCAL DATA SPACE
232	(E8)	SIGNED	4	DPLPDPXN	NUMBER OF DRPX DATA SECTIONS
236	(EC)	ADDRESS	4	DPLPDPXP	ADDRESS TO FIRST DRPX SET
464	(1D0)	CHARACTER	4	DPLFLGWD	Word bdy for CS of DPLFLAGS
464	(1D0)	SIGNED	2	DPLLOCNM	NUMBER OF LOCAL DATA SPACES
466	(1D2)	CHARACTER	2	DPLFLAGS	FLAGS USED FOR WRITE PROCESS
		1... ..		DPLENSUM	WHEN 1 INDICATES ENABLED SUMMARY DUMP WAS TAKEN
		.1... ..		DPLSDEP	CALLER'S ECB POSTED

Table 540. Structure DPL (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
		..1.	....		DPLECB	ON - CALLER SPECIFIED WRITE PHASE ECB TO BE POSTED IF DPLECBAD ^= 0 OFF - CALLER SPECIFIED WRITE PHASE SRB TO BE SCHEDULED IF DPLSRBAD ^= 0
		...1	....		DPLTSOXT	IF ON - TSO USER EXTENSION PRESENT
		....	1...		DPLTPFRC	IF ON - FAILRC SPECIFIED
		....	.1..		DPLLFDSF	IF ON - LOOKING FOR A DATASET
		....	.1.		DPLSDUNL	IF ON - DCB processing unlocked SDUMP
		....	...1		DPLROCDN	IF ON - RO Common and DATOFF NUC tables initialized
467	(1D3)	1...	....	4	DPLDWTCL	IF ON - Indicates DWT was called for DCB case
		.1..	....		DPLREMOT	This is a remote dump
		..1.	....		DPLRMREQ	Remote dumps requested
		...1	....		DPLGETSDDIE	Serialization bit for
		....	1...		*	Reserved
		....	.1..		DPLSFFIXED	SFDPL is page fixed
		....	..11		*	Reserved
468	(1D4)	ADDRESS		4	DPLUCBAD	Address of UCB
472	(1D8)	ADDRESS		4	DPLECBAD	ADDRESS OF USER SUPPLIED WRITE PHASE ECB
472	(1D8)	ADDRESS		4	DPLSRBAD	ADDRESS OF USER SUPPLIED WRITE PHASE SRB
476	(1DC)	ADDRESS		4	DPLDCBAD	ADDRESS OF USER SUPPLIED DCB
480	(1E0)	UNSIGNED		4	DPLDMPID	UNIQUE NUMBER FOR PRDSEQ
480	(1E0)	BITSTRING		3	DPLDMPDN	BITS 7-30 FROM THE TIME OF DUMP
483	(1E3)	BITSTRING		1	DPLDMPNS	SEQUENCE NUMBER FROM RTSDDNUM
484	(1E4)	SIGNED		4	DPRETCOD	RETURN CODE FROM DUMP ROUTINE
484	(1E4)	CHARACTER		2	*	RESERVED
486	(1E6)	UNSIGNED		1	DPNODUMP	NO DUMP REASON CODE RETURNED TO CALLER
487	(1E7)	UNSIGNED		1	DPRETURN	SVC DUMP RETURN CODE INDICATING COMPLETE, PARTIAL OR NO DUMP CONDITION
488	(1E8)	CHARACTER		16	DPLSDRSN	SDUMP REASON CODES MAPPED BY IHASDRSN
504	(1F8)	CHARACTER		8	DPLTUSID	TSO USERID ASSOCIATED WITH THIS DUMP
512	(200)	CHARACTER		51	DPLCIDD	CALLER'S ID DATA
512	(200)	UNSIGNED		1	DPLCIDL	LENGTH OF ID
513	(201)	CHARACTER		50	DPLCID	CALLER'S ID
563	(233)	UNSIGNED		1	DPPROGRS	VALUE TO INDICATE HOW FAR THE DUMP HAS GONE: 1: SUMDUMP 2: GLOBAL 3: LOCAL 4: STRLIST
564	(234)	UNSIGNED		2	DPLCASID	ASID OF CALLER
566	(236)	UNSIGNED		1	DPLEXITT	Exit error type
567	(237)	CHARACTER		1	DPLFLGS2	Second flag byte
		1...	....		DPLASMS	SMS Class added
		.1..	....		DPLAVOL	DASD volume added

IHADPL mapping

Table 540. Structure DPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
568	(238)	ADDRESS	4	DPLDSQCU	Address SDDSQ entry that has been saved by DD ADD/CLEAR processing, or set at dataset selection time.
572	(23C)	UNSIGNED	4	DPLFDECB	ECB WAITED ON BY IEAVTSCD WHICH IS POSTED WHEN A DATASET IS DD ADDED OR CLEARED
576	(240)	CHARACTER	3	DPLDIDCO	DUMP ID USED FOR MESSAGES AND TO IDENTIFY THE DUMP TO THE OPERATOR
579	(243)	UNSIGNED	1	DPLSDNA	NUMBER OF ADDRESS SPACES TO DUMP
580	(244)	BITSTRING	2	DPLSDAS(15)	ADDRESS SPACE IDS THAT ARE BEING DUMPED
610	(262)	BITSTRING	2	DPLHAID	Copy of RtsdHaid
612	(264)	ADDRESS	4	DPLDWT	Address of TCB of DWT that is passed this DPL
616	(268)	ADDRESS	4	DPLASCB	Copy of RtsdAscb
620	(26C)	CHARACTER	4	*	
624	(270)	CHARACTER	106	DPLDSPD	Copy of DSPD pointed to by SddDSPD
730	(2DA)	CHARACTER	6	*	Reserved
736	(2E0)	CHARACTER	8	DPLCSTOK	When the caller passed a write ECB, this will be the STOKEN of the caller's space. If the caller passed a write SRB, this is the STOKEN of SRBASCB
744	(2E8)	ADDRESS	4	DPLPRIVATEDPL@	Address of private DPL with which the system DPL is associated
748	(2EC)	SIGNED	4	DPLDMP#	Which dump this is. This is used in IE ECB926 when determining which is the next dump to be processed when a dump data set becomes available.
752	(2F0)	SIGNED	4	DPLDUMPSRVALET	ALET of DUMPSRV
756	(2F4)	ADDRESS	4	DPLWTECB@	Address of DplWtECB in the *proper* DPL (could be the PRIVATE DPL, not this one.
760	(2F8)	ADDRESS	4	DPLPRIVATEDPLAREA@	Address of private DPL area for use in copying
764	(2FC)	CHARACTER	8	DPLJOBNM	Caller's jobname
772	(304)	CHARACTER	48	DPLSES	Data related to dumping the STRLIST
772	(304)	BITSTRING	4	DPLSESF	Flags related to dumping the STRLIST
		1... ..		*	Reserved
		.1... ..		DPLCAPT	A capture phase ECB/SRB was requested but not processed by SCC since a serialized range was also requested
		..1.		DPLCAPTP	The capture phase ECB/SRB that was not processed by SCC has been processed
772	(304)	BITSTRING	3	*	Reserved

Table 540. Structure DPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
776	(308)	ADDRESS	4	DPLSFDPL	Pointer to the SFDPL
780	(30C)	SIGNED	4	DPLSTR#	Number of structures in SFDPL
784	(310)	ADDRESS	4	DPLDWSFD	Pointer to the DWSFD
788	(314)	CHARACTER	8	DPLHASHS	STOKEN of DWS/DWC hash data space
796	(31C)	ADDRESS	4	DPLHASHO	Origin of DWS/DWC hash data space
800	(320)	CHARACTER	8	DPLBUFRS	STOKEN of DWS/DWC buffer data space
808	(328)	ADDRESS	4	DPLBUFRO	Origin of DWS/DWC buffer data space
812	(32C)	SIGNED	4	DPLHSHNB	Number of 4K blocks in the hash data space
816	(330)	SIGNED	4	DPLBUFNB	Number of 4K blocks in the buffer data space
820	(334)	CHARACTER	32	DPLINTKN	Incident token
820	(334)	CHARACTER	8	DPLITSYSNAME	System name
828	(33C)	CHARACTER	8	DPLITTIMESTAMP	Time stamp
836	(344)	CHARACTER	8	DPLITPLEXNAME	Sysplex name
844	(34C)	CHARACTER	8	*	Reserved
852	(354)	SIGNED	4	DPLASYNCFID	Facility of async req
856	(358)	CHARACTER	16	DPLASYNCTOKEN	Async token
872	(368)	ADDRESS	4	DPLSDDIE	Ptr to DSC die storage
876	(36C)	CHARACTER	8	*	Reserved
884	(374)	CHARACTER	20	DPLLOCALDSPEXTTABLEINFO	Information regarding the local capture data space table extension that follows
884	(374)	CHARACTER	16	DPLDSPEXTTOKEN	DUMPSRV task token used to create the original local capture data spaces, and that should be used on subsequent DSPSERV CREATEs for additional data spaces
900	(384)	CHARACTER	4	DPLDSPEXTCSWORD	Compare and swap word for updating the next available extension table entry index. (See prolog note above.)
900	(384)	SIGNED	4	DPLDSPEXTNEXTINDEX	Table index of the next available table entry
904	(388)	CHARACTER	20	DPLLOCALDSPEXTTABLE(100)	Local storage data spaces whose space was exhausted before the local capture for an ASID was completed
904	(388)	CHARACTER	16	DPLDSPEXTINFOA	Local data space info. THE FORMAT OF THIS SUBSTRUCTURE MUST MATCH THE FORMAT OF A DPLPTABL TABLE ENTRY
904	(388)	CHARACTER	8	DPLDSPEXTSTOKEN	Data space stoken
912	(390)	SIGNED	4	DPLDSPEXTDPRXCNT	Number of DRPX data sections in data space
916	(394)	ADDRESS	4	DPLDSPEXTDPRXFIRST	Address of first DPRX set in data space
920	(398)	CHARACTER	4	DPLDSPEXTINFOB	Related info

IHADPL mapping

Table 540. Structure DPL (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
920	(398)	UNSIGNED		2	DPLDSPEXTASID	Asid of source address space captured in this data space
922	(39A)	UNSIGNED		2	DPLDSPEXTRELATED	Index of the DplPTABL entry from which this table extension entry was initialized
2904	(B58)	CHARACTER		16	DPLCTTOKEN	Callers TToken
2920	(B68)	CHARACTER		0	*	

Table 541. Constants for IHADPL

Len	Type	Value	Name	Description
4	CHARACTER	DPL	DPLIDC	CONTROL BLOCK IDENTIFIER TO BE USED WITH DPLID FIELD
2	DECIMAL	15	MAXNUM	MAXIMUM NUMBER OF ADDRESS SPACE/DATA SPACES
2	DECIMAL	100	DPLMAXLOCDSPEXT	Maximum number of dynamically allocated local capture data spaces (in addition to the initially allocated data spaces anchored in DPLPTABL) per SVC dump
4	DECIMAL	245	DPLSUBPOOLCOMMON	
4	DECIMAL	225	DPLSUBPOOLPRIVATE	

Table 542. Cross Reference for IHADPL

Name	Offset	Hex Tag
DPL	0	
DPLASCB	268	
DPLASMS	237	80
DPLASYNCFID	354	
DPLASYNCTOKEN	358	
DPLAVOL	237	40
DPLBUFNB	330	
DPLBUFRO	328	
DPLBUFRS	320	
DPLBWDPT	8	
DPLCAPT	304	40
DPLCAPTP	304	20
DPLCASID	234	
DPLCDONC	D4	
DPLCDPXN	D8	
DPLCDXPX	DC	
DPLCDSP	C8	
DPLCID	201	
DPLCIDD	200	
DPLCIDL	200	
DPLCOMN	C8	
DPLCROTB	D0	
DPLCSTOK	2E0	
DPLCTTOKEN	B58	

Table 542. Cross Reference for IHADPL (continued)

Name	Offset	Hex Tag
DPLDCBAD	1DC	
DPLDDSN	30	
DPLDIDCO	240	
DPLDMP#	2EC	
DPLDMPID	1E0	
DPLDMPSN	1E3	
DPLDMPTN	1E0	
DPLDSPD	270	
DPLDSPEXTASID	398	
DPLDSPEXTCSWORD	384	
DPLDSPEXTDPRXCNT	390	
DPLDSPEXTDPRXFIRST	394	
DPLDSPEXTINFOA	388	
DPLDSPEXTINFOB	398	
DPLDSPEXTNEXTINDEX	384	
DPLDSPEXTRELATED	39A	
DPLDSPEXTSTOKEN	388	
DPLDSPEXTTTOKEN	374	
DPLDSQCU	238	
DPLDSTKN	B8	
DPLDUMMY	1C	40
DPLDUMPSRVALET	2F0	
DPLDWSFD	310	
DPLDWT	264	
DPLDWTCL	1D3	80
DPLEBUFF	C0	
DPLECB	1D2	20
DPLECBAD	1D8	
DPLENSUM	1D2	80
DPLEWRKP	C4	
DPLEXITD	B8	
DPLEXITINHIGHVIRTUAL	1C	10
DPLEXITT	236	
DPLFDECB	23C	
DPLFIRSTNOTCOPY	4	
DPLFLAGS	1D2	
DPLFLGS2	237	
DPLFLGWD	1D0	
DPLFDWPT	4	
DPLGETSDDIE	1D3	10
DPLHAID	262	
DPLHASHO	31C	
DPLHASHS	314	
DPLHDDRP	10	
DPLHSHNB	32C	
DPLID	0	
DPLINPRIVATE	1C	20
DPLINTKN	334	
DPLITPLEXNAME	344	

IHADPL mapping

Table 542. Cross Reference for IHADPL (continued)

Name	Offset	Hex Tag
DPLITSYSNAME	334	
DPLITTIMESTAMP	33C	
DPLJOBNM	2FC	
DPLLASTNOTCOPY	30	
DPLLFDSF	1D2	04
DPLLOCALDSPEXTTABLE	388	
DPLLOCALDSPEXTTABLEINFO	374	
DPLLOCNM	1D0	
DPLNOTCOPYFLAGS	1C	
DPLPDPXN	E8	
DPLPDPXP	EC	
DPLPRIVATEDPL@	2E8	
DPLPRIVATEDPLAREA@	2F8	
DPLPTABL	E0	
DPLPTABS	E0	
DPLREMOT	1D3	40
DPLRMREQ	1D3	20
DPLROCDN	1D2	01
DPLSDAS	244	
DPLSDATP	40	
DPLSDATT	40	
DPLSDDIE	368	
DPLSDEP	1D2	40
DPLSDNA	243	
DPLSDNUM	3C	
DPLSDRSN	1E8	
DPLSDSIZ	44	
DPLSDSP	34	
DPLSDUNL	1D2	02
DPLSES	304	
DPLSESF	304	
DPLSFDPL	308	
DPLSFFIXED	1D3	04
DPLSRBAD	1D8	
DPLSTR#	30C	
DPLSUBPOOL	14	
DPLSUMRY	34	
DPLSWT	C	
DPLSYSTEM	1C	80
DPLTPFRC	1D2	08
DPLTSOXT	1D2	10
DPLTUSID	1F8	
DPLUCBAD	1D4	
DPLWTECB	18	
DPLWTECB@	2F4	
DPNODUMP	1E6	
DPPROGRS	233	
DPRETCOD	1E4	
DPRETURN	1E7	

IHADPL mapping

Chapter 131. IHADWHDR Information

IHADWHDR Programming Interface Information

IHADWHDR is a programming interface.

IHADWHDR Heading Information

Common Name: Dump Writing Structure Dump Header
Macro ID: IHADWHDR
DSECT Name: DWHDR DwhdrDumpCntlsMap
Owning Component: SVC Dump (SCDMP)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: N/A
Key: N/A
Residency: N/A
Size: DWHDRDUMPCNTLSMAP -- X'0200' bytes
DWHDR -- X'2000' bytes
Created by: N/A
Pointed to by: N/A
Serialization: None required
Function: Provides a map of the dump header. There is one dump header per structure in the dump. It contains the structure controls, dumping controls, dumping status, dump tailoring options, and the associated request block.
In the dump dataset, the dump header is located before the data associated with a given structure.

IHADWHDR mapping

Table 543. Structure DWHDR

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DWHDR	Mapping for dump header
0	(0)	CHARACTER	256	DWHDRSTRCONTROLS	Structure controls
256	(100)	CHARACTER	256		Reserved
512	(200)	CHARACTER	512	DWHDRDUMPCONTROLS	
1024	(400)	CHARACTER	32	DWHDRDUMPSTATUS(0)	Dumping status
1024	(400)	BITSTRING	1	DWHDRCAPCOMPCODE	Capture-completion code X'00' Capture-in-progress X'01' Normal completion X'02' Dump table full X'03' Serialization released
1025	(401)	CHARACTER	1		Reserved
1026	(402)	CHARACTER	2	DWHDRLASTOBJTYPE	Last dumping-object type. Object type of the object specified by the LOID operand. Valid only when the last range object contains a nonzero value.
1028	(404)	SIGNED	4	DWHDRLASTRANGE	Last range value processed by a dump request. Initialized to zero.

IHADWHDR mapping

Table 543. Structure DWHDR (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
1032	(408)	SIGNED		4	DWHDRLASTOBJID	Last object identifier (LOID) processed by a dump request. Valid only when both last range nonzero and last dumping-object-type X'0302', X'0401', or X'0402'.
1036	(40C)	SIGNED		4	DWHDRLASTDIBCT	Last DIB count. Number of DIBs stored in the dump table for the object specified by the LOID. Valid only when last range nonzero.
1040	(410)	SIGNED		4	DWHDRLASTELEMCT	Last element count. Number of elements contained in the object specified by the LOID. Valid only when last range nonzero.
1044	(414)	SIGNED		4	DWHDRLASTDTEN	Last dump-table-entry number. Highest valued dump-table entry that contains a captured block.
1048	(418)	CHARACTER		8		Reserved
1056	(420)	CHARACTER		224		Reserved
1280	(500)	CHARACTER		8	DWHDRDUMPTLROPT(0)	Dumping-tailoring options
1280	(500)	SIGNED		2	DWHDRDUMPLISTLEN	Dumping-list length. Number of ranges in the range list of a dump request
1282	(502)	CHARACTER		1		Reserved
1283	(503)	CHARACTER		1	DWHDRDUMPCACHEID(0)	Identifier of an attached local-cache associated with the dump table. Zero => no local cache. Only maintained when the structure type is X'04'.
1283	(503)	CHARACTER		1		Reserved for list
1284	(504)	CHARACTER		4		Reserved
1288	(508)	CHARACTER		248		Reserved
1536	(600)	CHARACTER		512	DWHDRDREXTSTRCONTROLS	Extended Structure Controls
2048	(800)	CHARACTER		512	DWHDRSCC	Structure Copy Controls
2560	(A00)	CHARACTER		60	DWHDRDUPLEXINGCONTROLS	Duplexing Controls
2620	(A3C)	CHARACTER		1476		Reserved
4096	(1000)	CHARACTER		4096	DWHDRASSOCREQBLK	Associated Request Block (ARB). Contains the dumping information and list of object-identifier ranges to be included in the dump. Also contains the dumping-object type, adjunct-inclusion indicator, and DIB-exclusion indicator for each object-identifier range. The ARB is provided in the data block of the associate-dump-table command when the dump table is created, and is copied into the dump header by the capture process. To view the contents of this area, use the ARB mapping found in IHAARB macro.

Table 543. Structure DWHDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4096	(1000)	X'2000'	0	DWHDR_LEN	"*-DWHDR"

Table 544. Structure DWHDRDUMPCNTLSMAP

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DWHDRDUMPCNTLSMAP	Mapping for dumping controls
0	(0)	CHARACTER	128	DWHDRDUMPINFO	Dumping Information
128	(80)	CHARACTER	128		Reserved
256	(100)	CHARACTER	16	DWHDRDUMPAUTH	Dumping authority. Zero => dumping controls available Nonzero => dumping controls in use
272	(110)	CHARACTER	16	DWHDRDUMPSER	Dumping serialization. Nonzero => Dumping serialization held on the structure
288	(120)	SIGNED	4	DWHDRDUMPTBSIZE	Dump-table size. Number of 4096-byte units of CF storage assigned to the dump table.
292	(124)	CHARACTER	1	DWHDRSTRTYPE	Structure type
293	(125)	CHARACTER	1	DWHDRFLAGS(0)	
		1...		DWHDRINITCOMP	"X'80'" Initialization complete indicator
		.1..		DWHDRRELEASEINPROG	"X'40'" Release in progress indicator
294	(126)	CHARACTER	218		Reserved
Capture Complete Constants					
		.... ....		DWHDRCAPCMPCIP	"X'00'" Capture is in progress
		.... ...1		DWHDRCAPCMPOK	"X'01'" Normal completion
		.... ..1.		DWHDRCAPCMPTABFULL	"X'02'" Dump table is full
		.... ..11		DWHDRCAPCMPSERREL	"X'03'" Dump serialization was released
294	(126)	X'200'	0	DWHDRDUMPCNTLSMAP_LEN	"*-DWHDRDUMPCNTLSMAP"

Table 545. Cross Reference for IHADWHDR

Name	Offset	Hex	Tag
DWHDR	0		
DWHDR_LEN	1000	2000	
DWHDRASSOCREQBLK	1000		
DWHDRCAPCMPCIP	126	0	
DWHDRCAPCMPOK	126	1	
DWHDRCAPCMPSERREL	126	3	
DWHDRCAPCMPTABFULL	126	2	
DWHDRCAPCOMPCODE	400		
DWHDRDUMPAUTH	100		
DWHDRDUMPCACHEID	503		
DWHDRDUMPCNTLSMAP	0		
DWHDRDUMPCNTLSMAP_LEN	126	200	
DWHDRDUMPCONTROLS	200		
DWHDRDUMPINFO	0		

IHADWHDR mapping

Table 545. Cross Reference for IHADWHDR (continued)

Name	Offset	Hex Tag
DWHDRDUMPLISTLEN	500	
DWHDRDUMPSE	110	
DWHDRDUMPSTATUS	400	
DWHDRDUMPTBLSIZE	120	
DWHDRDUMPTLROPT	500	
DWHDRDUPLICATIONCONTROLS	A00	
DWHDREXTSTRCONTROLS	600	
DWHDRFLAGS	125	
DWHDRINITCOMP	125	80
DWHDRLASTDIBCT	40C	
DWHDRLASTDTEN	414	
DWHDRLASTELEMCT	410	
DWHDRLASTOBJID	408	
DWHDRLASTOBJTYPE	402	
DWHDRLASTRANGE	404	
DWHDRRELEASEINPROG	125	40
DWHDRSCC	800	
DWHDRSTRCONTROLS	0	
DWHDRSTRTYPE	124	

Chapter 132. IHADWOBH Information

IHADWOBH Programming Interface Information

The following fields are NOT programming interface information:

- DWOBHDIBCT
- DWOBHDIBLISTSIZE
- DWOBHDIBSIZE

IHADWOBH Heading Information

Common Name: Dump Writing Object Header
 Macro ID: IHADWOBH
 DSECT Name: DWOBH DWOBHOBJHDRDATAMAP
 Owing Component: SVC Dump (SCDMP)
 Eye-Catcher ID: NONE
 Storage Attributes: Subpool: N/A
 Key: N/A
 Residency: N/A
 Size: DWOBH -- X'1000' bytes
 DWOBHOBJHDRDATAMAP -- X'0006' bytes
 Created by: N/A
 Pointed to by: N/A
 Serialization: None required
 Function: Provides a map of the Object Header.

IHADWOBH mapping

Table 546. Structure DWOBH

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DWOBH	, Mapping for Object Header
0	(0)	CHARACTER	20	DWOBHOBJINFO(0)	Object information
0	(0)	SIGNED	2	DWOBHDUMPOBJTYPE	Dumping-object type (DOT). X'0301' => CF-list lock table X'0302' => CF-list list number X'0303' => CF-list user controls X'0304' => CF-list event-monitor controls X'0305' => CF-list event-queue X'0401' => CF-cache storage class X'0402' => CF-cache castout class X'0403' => CF-cache local- cache controls
2	(2)	CHARACTER 1... ..	1	DWOBHFLAGS(0) DWOBHCAPTCOMPIND	Flags "X'80" Capture-complete indicator. 1 => capture complete 0 => additional elements exist on the element list that have not been captured in the dump table

IHADWOBH mapping

Table 546. Structure DWOBH (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
3	(3)	CHARACTER	1		Reserved
4	(4)	SIGNED	4	DWOBHOBjid	Object identifier DOT Object identifier X'0301' => X'0000 0000' X'0302' => List-number value X'0303' => X'0000 0000' X'0304' => List-number value X'0305' => X'0000 0000' X'0401' => Storage-class value (right justified) X'0402' => Castout-class value (right justified) X'0403' => X'0000 0000'
8	(8)	SIGNED	4	DWOBHDIBCT	DIB count. Number of dumping-information blocks stored in the dump table for the object
12	(C)	SIGNED	4	DWOBHDIBSIZE	DIB size
16	(10)	SIGNED	4	DWOBHDIBLISTSIZE	DIB list size. Number of dump-table entries that contain the DIB list for the object.
20	(14)	CHARACTER	108	DWOBHOBjHDRDATA	Data relating to the object header - Use the DWOBHOBjHDRDATAMAP to view the contents of this area
128	(80)	CHARACTER	3456	DWOBHMAXPOSSIBLEOBJCONTROLS	Maximum possible object controls length. Refer to the actual mappings of the object controls to compute their associated lengths
4096	(1000)	X'1000'	0	DWOBH_LEN	"*-DWOBH"

Table 547. Structure DWOBHOBjHDRDATAMAP

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DWOBHOBjHDRDATAMAP	, Mapping for data relating to the Object Header
0	(0)	ADDRESS	4	(0)	
0	(0)	ADDRESS	4	DWOBHOBjHDRDATAENTRYCNTLPTR(0)	Pointer to the object's entry controls in the controls compdata space. This pointer name should be used for cast out class, storage class, and list number object types
0	(0)	ADDRESS	4	DWOBHOBjHDRDATALOCKPTR(0)	Pointer to the object's lock table entries in the lock table compdata space. This pointer name should be used for lock table object type only

Table 547. Structure DWOBHOBHJHDRDATAMAP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	ADDRESS	4	DWOBJHOBHJHDRDATAUSERPTR(0)	Pointer to the object's user control data into the user control compdata space. This pointer name should be used for cache user or list user object types only
0	(0)	ADDRESS	4	DWOBJHOBHJHDRDATAEMCPTR(0)	Pointer to the object's event monitor control data in the event monitor control compdata space. This pointer name should be used for list event queue type only
0	(0)	ADDRESS	4	DWOBJHOBHJHDRDATAEVENTQPTR	Pointer to the object's event queue data in the event queue compdata space. This pointer name should be used for list event queue type only
4	(4)	CHARACTER	2	(0)	
4	(4)	CHARACTER	2	DWOBJHOBHJHDRDATAENTRYCNTLNUM(0)	Number that indicates which entry control compdata space the pointer pertains to. This variable name should be used for cast out class, storage class, and list number object types
4	(4)	CHARACTER	2	DWOBJHOBHJHDRDATALOCKNUM(0)	Number that indicates which lock table compdata space the pointer pertains to. This variable name should be used for lock table object type only
4	(4)	CHARACTER	2	DWOBJHOBHJHDRDATAUSERNUM(0)	Number that indicates which user control compdata space the pointer pertains to. This variable name should be used for cache user or list user object type only
4	(4)	CHARACTER	2	DWOBJHOBHJHDRDATAEMCNUM(0)	Number that indicates which event monitor control compdata space the pointer pertains to. This variable name should be used for list event queue type only
4	(4)	CHARACTER	2	DWOBJHOBHJHDRDATAEVENTQNUM	Number that indicates which event queue compdata space the pointer pertains to. This variable name should be used for list event queue type only
4	(4)	X'6'	0	DWOBJHOBHJHDRDATAMAP_LEN	"*-DWOBJHOBHJHDRDATAMAP"

Table 548. Cross Reference for IHADWOBH

Name	Offset	Hex	Tag
DWOBJH	0		
DWOBJH_LEN	1000	1000	
DWOBJHCAPTCOMPIND	2	80	

IHADWOBH mapping

Table 548. Cross Reference for IHADWOBH (continued)

Name	Offset	Hex Tag
DWOBHDIBCT	8	
DWOBHDIBLISTSIZE	10	
DWOBHDIBSIZE	C	
DWOBHDUMPOBJTYPE	0	
DWOBHFLAGS	2	
DWOBHMAXPOSSIBLEOBJCONTROLS	80	
DWOBHOBJHDRDATA	14	
DWOBHOBJHDRDATAEMCNUM	4	
DWOBHOBJHDRDATAEMCPTR	0	
DWOBHOBJHDRDATAENTRYCNTLNUM	4	
DWOBHOBJHDRDATAENTRYCNTLPTR	0	
DWOBHOBJHDRDATAEVENTQNUM	4	
DWOBHOBJHDRDATAEVENTQPTR	0	
DWOBHOBJHDRDATALOCKNUM	4	
DWOBHOBJHDRDATALOCKPTR	0	
DWOBHOBJHDRDATAMAP	0	
DWOBHOBJHDRDATAMAP_LEN	4	6
DWOBHOBJHDRDATAUSERNUM	4	
DWOBHOBJHDRDATAUSERPTR	0	
DWOBHOBJID	4	
DWOBHOBJINFO	0	

Chapter 133. IHAETE1 Information

IHAETE1 Heading Information

Common Name: Entry Table Entry for ESAME
 Macro ID: IHAETE1
 DSECT Name: ETE1
 Owing Component: PC/AUTH (SCXMS)
 Eye-Catcher ID: None
 Storage Attributes: Subpool: 255
 Key: 0
 Residency: PC/Auth LSQA
 Size: 32 bytes
 Created by: IEAVXECR, deleted by IEAVXEDE
 Pointed to by: Linkage table entries (mapped by IHALTE).
 The Entry Table is pointed to by
 ETIBETR (real address) and ETIBETV
 (virtual address).
 Serialization: LOCAL lock of the PC/Auth address space
 Function: Describes an entry in an entry table (used
 by the Program Call instruction).
 ETE1 maps the ESAME ETE.

IHAETE1 mapping

Table 549. Structure ETE1

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	32	ETE1	ENTRY TABLE ENTRY DESCRIPTION
0	(0)	ADDRESS	4	ETE1EPA0	First word of EPA when AMODE 64
4	(4)	ADDRESS	4	ETE1EPA	VIRTUAL ADDRESS OF ROUTINE TO RECEIVE CONTROL
4	(4)	CHARACTER 1...	1	ETE1ABYTE ETE1AMODE	BYTE TO ACCESS ETE1AMODE Addressing mode: if 1, routine executes in 31-bit mode. If 0, routine executes in 24-bit mode, unless bit 31 of new PSW=1 in which case 64-BIT
5	(5)	CHARACTER	2	*	PART OF ETE1EPA - NOT REFERENCEABLE
7	(7)	CHARACTER 1111 111. .... ...1	1	ETE1PBYTE * ETE1PS	BYTE TO ACCESS ETE1PS NOT REFERENCEABLE CALLED ROUTINE EXECUTES (0) SUPERVISOR OR (1) PROBLEM STATE
8	(8)	BITSTRING	2	ETE1AKM	MASK OF STORAGE KEYS AUTHORIZED TO INVOKE THIS ROUTINE
10	(A)	BITSTRING	2	ETE1ASID	ASID IN WHICH THE CALLED ROUTINE WILL EXECUTE - IF ZERO, ROUTINE EXECUTES IN CALLERS ADDRESS SPACE SPACE SWITCH IF NOT ZERO

IHAETE1 mapping

Table 549. Structure ETE1 (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
12	(C)	BITSTRING		2	ETE1EKM	KEY MASK TO BE COMBINED WITH CALLERS KEY MASK PRODUCING THE EXECUTION KEY MASK OF THE CALLED ROUTINE
14	(E)	CHARACTER		2	ETE1R00E	RESERVED FIELD
16	(10)	CHARACTER		1	ETE1OPTB1	ETE OPTIONS BYTE
		1... ..			ETE1PCTC	PC TYPE CONTROL: 0: NON-STACKING. 1: STACKING.
		.1.. ..			ETE1PC64	PC extended addressing mode: 0: PC.31 set to 0 (basic mode) 1: PC.31 set to 1 (64-bit)
		..1.			*	
		...1			ETE1PKC	PSW KEY CONTROL: 0: NO CHANGE 1: SET PSW KEY FROM ETE1EK
		.... 1...			ETE1PKMK	PSW KEY MASK CONTROL: 0: OR ETE1EKM INTO PKM. 1: COPY ETE1EKM TO PKM
		.... .1..			ETE1EAXC	EAX CONTROL: 0: NO CHANGE. 1: REPLACE FROM ETE1EAX.
		.... ..1.			ETE1ASC	ADDRESS SPACE CONTROL: 0: PRIMARY MODE. 1: AR MODE.
		.... ...1			ETE1SASNC	SASN CONTROL: 0: SET TO OLD PASN. 1: SET TO NEW PASN.
17	(11)	CHARACTER		1	ETE1EK	ENTRY KEY. (HIGH 4 BITS)
18	(12)	UNSIGNED		2	ETE1EAX	MAS EXTENDED AUTHORITY INDEX
20	(14)	ADDRESS		4	ETE1ASTE	REAL ADDRESS OF THE ASTE IF SPACE SWITCH
24	(18)	CHARACTER		8	ETE1PARM	ADDRESS OF THE LATENT PARAMETER PASSED TO THE CALLED RTN
24	(18)	ADDRESS		4	ETE1PARMH	High half of parameter
28	(1C)	ADDRESS		4	ETE1PARML	Low half of parameter
32	(20)	CHARACTER		0	ETE1END	END OF ETE1

Table 550. Cross Reference for IHAETE1

Name	Offset	Hex Tag
ETE1	0	
ETE1ABYTE	4	
ETE1AKM	8	
ETE1AMODE	4	80
ETE1ASC	10	02
ETE1ASID	A	
ETE1ASTE	14	
ETE1EAX	12	
ETE1EAXC	10	04
ETE1EK	11	
ETE1EKM	C	
ETE1END	20	
ETE1EPA	4	
ETE1EPA0	0	
ETE1OPTB1	10	
ETE1PARM	18	

Table 550. Cross Reference for IHAETE1 (continued)

Name	Offset	Hex Tag
ETE1PARMH	18	
ETE1PARML	1C	
ETE1PBYTE	7	
ETE1PCTC	10	80
ETE1PC64	10	40
ETE1PKC	10	10
ETE1PKMK	10	08
ETE1PS	7	01
ETE1R00E	E	
ETE1SASNC	10	01

IHAETE1 mapping

Chapter 134. IHAETRI Information

IHAETRI Programming Interface Information

IHAETRI is a programming interface.

IHAETRI Heading Information

Common Name: ETR Status Information Mapping
 Macro ID: IHAETRI
 DSECT Name: ETRI
 Owing Component: SC1CV (Timer)
 Eye-Catcher ID: None
 Storage Attributes: Subpool: N/A
 Residency: In user's storage.
 Size: 24 bytes
 Created by: Invokers of the IEAMETR macro
 Pointed to by: Values specified via the OUTADDR parameter on IEAMETR macro invocations
 Serialization: None
 Function: Provide data mapping of the output from the IEAMETR macro service routine.

IHAETRI mapping

Table 551. Structure ETRI

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
0	(0)	STRUCTURE		0	ETRI	
0	(0)	DBL WORD		8	ETRIDATA(0)	
0	(0)	BITSTRING		8	ETRITMSTMP(0)	STCK value at time information was collected.
0	(0)	BITSTRING		4	ETRITIMEH	
4	(4)	BITSTRING		4	ETRITIMEL	
8	(8)	CHARACTER		4	ETRIIMAGE(0)	This word contains information for the whole MVS image.
8	(8)	BITSTRING		1		
		1...			ETRIETR	"X'80'" Image is in ETR mode.
		.1..			ETRILOCAL	"X'40'" Image is in local mode.
		..1.			ETRISIMETR	"X'20'" Image is in SIMETR mode.
		...1			ETRINOTINSTALLED	"X'10'" ETR is not installed on this machine.
		.... 1...			ETRISIDE	"X'08'" Active machine side if in ETR mode.
		.... .1..			ETRITUNED	"X'04'" The active port is tuned.
		.... ..1.			ETRIREQSTD	"X'02'" The use of the ETR was requested.
		.... ...1			ETRICPLD	"X'01'" The 9037 to which this MVS is attached is part of a High Availability Configuration.
9	(9)	BITSTRING		1	ETRISIMETRID	Net ID if in SIMETR mode.

IHAETRI mapping

Table 551. Structure ETRI (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
10	(A)	BITSTRING		2		Reserved.
12	(C)	CHARACTER		4	ETRIPORT0(0)	Status for CPC port 0.
12	(C)	BITSTRING		1	ETRIPOFLAGS	
			1... ..		ETRIPOOPER	"X'80" This port is operational.
			.1..		ETRIPOENABLED	"X'40" This port is enabled.
			..1.		ETRIPOACTIVE	"X'20" This port is the active port.
			...1		ETRIPODATA	"X'10" The ID data is valid.
13	(D)	BITSTRING		1	ETRIPONETID	ETR Net ID to which this port is connected.
14	(E)	BITSTRING		1	ETRIPOETRID	9037 ID to which this port is connected.
15	(F)	BITSTRING		1	ETRIPOPORTN0	ETR port number to which this port is connected.
16	(10)	CHARACTER		4	ETRIPORT1(0)	Status for CPC port 1.
16	(10)	BITSTRING		1	ETRIP1FLAGS	
			1... ..		ETRIP1OPER	"X'80" This port is operational.
			.1..		ETRIP1ENABLED	"X'40" This port is enabled.
			..1.		ETRIP1ACTIVE	"X'20" This port is the active port.
			...1		ETRIP1DATA	"X'10" The ID data is valid.
17	(11)	BITSTRING		1	ETRIP1NETID	ETR Net ID to which this port is connected.
18	(12)	BITSTRING		1	ETRIP1ETRID	9037 ID to which this port is connected.
19	(13)	BITSTRING		1	ETRIP1PORTN0	ETR port number to which this port is connected.
20	(14)	CHARACTER		4		Reserved.

Table 552. Cross Reference for IHAETRI

Name	Offset	Hex Tag
ETRI	0	
ETRICPLD	8	1
ETRIDATA	0	
ETRIETR	8	80
ETRIIMAGE	8	
ETRILOCAL	8	40
ETRINOTINSTALLED	8	10
ETRIPORT0	C	
ETRIPORT1	10	
ETRIPOACTIVE	C	20
ETRIPODATA	C	10
ETRIPOENABLED	C	40
ETRIPOETRID	E	
ETRIPOFLAGS	C	
ETRIPONETID	D	
ETRIPOOPER	C	80
ETRIPOPORTN0	F	

Table 552. Cross Reference for IHAETRI (continued)

Name	Offset	Hex Tag
ETRIPIACTIVE	10	20
ETRIPI1DATA	10	10
ETRIPI1ENABLED	10	40
ETRIPI1ETRID	12	
ETRIPI1FLAGS	10	
ETRIPI1NETID	11	
ETRIPI1OPER	10	80
ETRIPI1PORTNO	13	
ETRIREQSTD	8	2
ETRISIDE	8	8
ETRISIMETR	8	20
ETRISIMETRID	9	
ETRITIMEH	0	
ETRITIMEL	4	
ETRITMSTMP	0	
ETRITUNED	8	4

IHAETRI mapping

Chapter 135. IHAFETWK Information

IHAFETWK Heading Information

Common Name: Fetch work area definition
 Macro ID: IHAFETWK
 DSECT Name: FTWKAREA
 Owing Component: LOADER (SCLDR)
 Eye-Catcher ID: NONE
 Storage Attributes: Subpool: Variable
 Key: 0
 Size: Variable
 Created by: User
 Pointed to by: N/A
 Serialization: NONE
 Function: IHAFETWK (Fetch work area) has two sections:
 FETCHWK is addressed only by IEWFETCH (the fetch program)
 WKCNTNSV is addressed by IEWFETCH and by the calling
 program (contents manager, overlay supervisor, or other)
 Storage for the fetch work area is always gotten by the
 calling program, and must be fixed in storage below the
 2G line since IEWFETCH keeps format 1 CCWs and IDALs in this
 area. The number of bytes of storage which must be obtained
 is the length of 'FTWKAREA'.

IHAFETWK mapping

Table 553. Structure FTWKAREA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	1540	FTWKAREA	
0	(0)	CHARACTER	1424	FETCHWA	
0	(0)	CHARACTER	768	FTCLEAR	AREA CLEARED TO HEX ZEROS
CONTENTS SUPERVISOR'S WORK AREA					
1424	(590)	CHARACTER	116	WKCNTNSV	
1424	(590)	ADDRESS	4	WKDEBPTR	X'590' ADDRESS OF THE DEB IF VERIFIED BY CONTENTS MANAGER, IF WKDEBOK IS ZERO, THIS FIELD IS IGNORED
1428	(594)	ADDRESS	4	WKCDADDR	X'594' ADDRESS OF CDE
1432	(598)	ADDRESS	4	WKIOADDR	X'598' ADDRESS OF AREA GETMAINED. FETCH WILL DO I/O IN THIS AREA
1436	(59C)	BITSTRING	1	WKFLAG	X'59C' TASKLIB SEARCH IND
1437	(59D)	BITSTRING	1	WKFLG1	X'59D'
		1... ..		WKAUTH	MODULE IN AUTHORIZED LIBRARY
		.1.. ..		WKSYSREQ	THIS IS A SYSTEM REQUEST
		..1.		WKSYSDCB	SYSTEMDCB REQUEST
		...1		WKIOADDR_IS_64	64-bit WKIOADDR
		.... 1111		*	
1438	(59E)	BITSTRING	1	WKFLG2	X'59E' FLAG BYTE 3

IHAFETWK mapping

Table 553. Structure FTWKAREA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		WKDEBOK	THE DEB HAS BEEN VERIFIED BY THE CALLING PROGRAM
		.111		*	
		.... 1...		WKUSRLIB	DCB IS FOR A USER LIBRARY
		.... .1..		WKJOBLIB	DCB IS FOR THE JOB LIBRARY
		.... ..1.		WKSVCCLIB	DCB IS FOR THE SVC LIBRARY
		.... ...1		WKLNKLIB	DCB IS FOR THE LINK LIBRARY
1439	(59F)	BITSTRING	1	WKFLG3	X'59F'
1440	(5A0)	CHARACTER	16	*	X'5A0'
1440	(5A0)	SIGNED	4	WKREGIS(4)	X'5A0' USED TO SAVE REGS ACROSS BLDL
1440	(5A0)	ADDRESS	8	WKIOADDR64	X'5A0' 8-byte address
1440	(5A0)	CHARACTER	8	WKIOADDR64C	X'5A0' 8-byte address
1456	(5B0)	ADDRESS	4	WKTCSBE	X'5B0' ADDRESS OF TCB CONTAINING LAST DCB
1460	(5B4)	ADDRESS	4	WKDCBSE	X'5B4' ADDRESS OF LAST DCB SEARCH ARGUMENT
BLDL ENTRY					
1464	(5B8)	CHARACTER	76	WKBLDE	X'5B8'
1464	(5B8)	SIGNED	4	WKPREFX	X'5B8' BLDL PREFIX
1468	(5BC)	CHARACTER	72	WKPDSDE	X'5BC' BLDL DIR ENTRY
NOTE THAT THE FOLLOWING AREA IS ALSO MAPPED BY IHAPDS (PDS DIRECTORY ENTRY) IN IEWFETCH (THE FETCH PROGRAM), BUT THAT THERE ARE MINOR DIFFERENCES IN BLDL AND PDS DEFINITIONS					
1468	(5BC)	CHARACTER	8	WKNAME	X'5BC' MODULE NAME
1476	(5C4)	CHARACTER	4	WKTTRK	X'5C4' TRACK AND RECORD NUMBER
1476	(5C4)	UNSIGNED	2	WKTT	X'5C4' /TRACK NUMBER
1478	(5C6)	UNSIGNED	1	WKR	X'5C6' RECORD NUMBER
1479	(5C7)	UNSIGNED	1	WKK	NO. OF CONCATENATED DATA SETS
1480	(5C8)	BITSTRING	1	WKZBYTE	X'5C8' 'Z' BYTE
1481	(5C9)	BITSTRING	1	WKCBYTE	X'5C9' 'C' BYTE
1482	(5CA)	CHARACTER	8	WKTTESD	X'5CA'
1490	(5D2)	BITSTRING	2	WKATTR	X'5D2' ATTRIBUTE FLAGS
1492	(5D4)	CHARACTER	5	WKLNTH	
1492	(5D4)	UNSIGNED	3	WKLNTHM	X'5D4' LENG OF MODULE
1495	(5D7)	SIGNED	2	WKLNTHF	X'5D7' LENGTH OF FIRST TEXT RECORD
1497	(5D9)	ADDRESS	3	WKENTPT	X'5D9' ENTRY POINT ADDRESS
1500	(5DC)	ADDRESS	3	WKTXTRG	X'5DC' TEXT ORIGIN ADDRESS
1503	(5DF)	CHARACTER	37	WKAPFSSI	X'5DF' APF AND SSI FIELDS
1540	(604)	CHARACTER	0	WKEND	X'604' END OF FETCH WORK AREA

Table 554. Structure FTBELOW16M

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	104	FTBELOW16M	Below 16M Fetch area
0	(0)	CHARACTER	40	FTIOB	EXCP IOB - Must be first
0	(0)	CHARACTER	32	*	
32	(20)	CHARACTER	8	FTIOBSEEK	
32	(20)	CHARACTER	3	*	

Table 554. Structure FTBELOW16M (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
35	(23)	CHARACTER	5	FTIOBCCHHR	
40	(28)	CHARACTER	4	FTB16ID	Eye catcher
44	(2C)	ADDRESS	4	FTB16BACK	Pointer to fetch workarea
48	(30)	CHARACTER	48	FTIOBE	EXCP IOBE
96	(60)	CHARACTER	4	FTVIOECB	EXCP ECB
96	(60)	CHARACTER	1	FTVIOECBYT	
		1... ..		*	
		.1.. ..		FTVIOECPOST	ECB POSTED COMPLETE
		..11 1111		*	
100	(64)	ADDRESS	4	FTDCBDEB	Pseudo DCB DEB pointer
104	(68)	CHARACTER	0	FTVIODEB	EXCP DEB copy

Table 555. Structure WKALIAS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1503	(5DF)	STRUCTURE	11	WKALIAS	X'5DF'
1503	(5DF)	CHARACTER	3	WKENTBK	X'5DF'
1506	(5E2)	CHARACTER	8	WKNAMBK	X'5E2'

Table 556. Structure WKSCATER

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1503	(5DF)	STRUCTURE	37	WKSCATER	X'5DF'
1503	(5DF)	CHARACTER	8	WKSCATR	X'5DF'
DEFINE ENTRIES FOR SCATTER, ALIAS					
1511	(5E7)	ADDRESS	3	WKENTSC	X'5E7'
1514	(5EA)	CHARACTER	8	WKNAMSC	X'5EA'
1522	(5F2)	CHARACTER	6	*	
1528	(5F8)	ADDRESS	4	WKMAINEP	X'5F8'
1532	(5FC)	CHARACTER	8	WKMAINAM	X'5FC'

Table 557. Constants for IHAFETWK

Len	Type	Value	Name	Description
4	CHARACTER	FT16	FTB16IDC	Eye catcher constant
RETURN CODES FROM IEWFETCH, PASSED TO CALLER IN REG 15				
1	DECIMAL	0	RCNORMAL	X'00' - NORMAL RETURN
1	DECIMAL	10	RCLRAERR	X'0A' - LRA FAILURE
1	DECIMAL	11	RCPGMCK	X'0B' - PROGRAM CHECK
1	DECIMAL	12	RCNOSTOR	X'0C' - NO STORAGE
1	DECIMAL	13	RCBADREC	X'0D' - BAD RECORD READ
1	DECIMAL	14	RCBADADR	X'0E' - INVALID ADDRESS
1	DECIMAL	15	RCIOERR	X'0F' - PERMANENT I/O ERROR
REASON CODES FOR LRA FAILURES				
EXPLANATION OF RCLRAERR:				
1	DECIMAL	1	RCLRA01	X'01'
1	DECIMAL	2	RCLRA02	X'02'

IHAFETWK mapping

Table 557. Constants for IHAFETWK (continued)

Len	Type	Value	Name	Description
1	DECIMAL	3	RCLRA03	X'03'
1	DECIMAL	4	RCLRA04	X'04'
1	DECIMAL	5	RCLRA05	X'05'
1	DECIMAL	6	RCLRA06	X'06'
1	DECIMAL	7	RCLRA07	X'07'
1	DECIMAL	8	RCLRA08	X'08'
1	DECIMAL	9	RCLRA09	X'09'
1	DECIMAL	10	RCLRA10	X'0A'
1	DECIMAL	11	RCLRA11	X'0B'
1	DECIMAL	12	RCLRA12	X'0C'
1	DECIMAL	13	RCLRA13	X'0D'
1	DECIMAL	14	RCLRA14	X'0E'
1	DECIMAL	15	RCLRA15	X'0F'
1	DECIMAL	16	RCLRA16	X'10'
1	DECIMAL	17	RCLRA17	X'11'
1	DECIMAL	18	RCLRA18	X'12'
1	DECIMAL	19	RCLRA19	X'13'
1	DECIMAL	20	RCLRA20	X'14'
1	DECIMAL	21	RCLRA21	X'15'

REASON CODES FROM IEWFETCH, PASSED TO CALLER IN REG 0

EXPLANATION OF RCNOSTOR:

1	DECIMAL	4	RSNDATD	X'04' - NO STORAGE FOR DATD
1	DECIMAL	8	RSNDEB	X'08' - NO STORAGE FOR DEB
1	DECIMAL	12	RSNIOSB	X'0C' - NO STORAGE FOR IOSB
1	DECIMAL	16	RSNEXTL	X'10' - NO STORAGE FOR EXTLIST
1	DECIMAL	20	RSNMOD	X'14' - NO STORAGE FOR MODULE
1	DECIMAL	24	RSNFIIX	X'18' - UNABLE TO FIX STORAGE

EXPLANATION OF RCBADADR:

1	DECIMAL	32	RSNTTR	X'20' - ERROR CONVERTING TTR
1	DECIMAL	36	RSNB0M	X'24' - BLOCK OUTSIDE MODULE
1	DECIMAL	40	RSNADL	X'28' - ADCON LOCATION INVALID
1	DECIMAL	44	RSNV2G	X'2C' - VIO with area above 2G

EXPLANATION OF RCIOERR::

1	DECIMAL	64	RSNRDS	X'40' - I/O ERROR ON A RDS
1	DECIMAL	68	RSNVDS	X'44' - ERROR ON A VIRTUAL DS
1	DECIMAL	72	RSNEXTV	X'48' - SEEK ADDR OUTSIDE EXTENT
1	DECIMAL	76	RSNPCI	X'4C' - POSSIBLE PCI LOGIC ERROR
1	DECIMAL	80	RSNPDSE	X'50' - DATA SET IS A PDSE

Table 558. Cross Reference for IHAFETWK

Name	Offset	Hex Tag
FETCHWA	0	
FTBELOW16M	0	
FTB16BACK	2C	
FTB16ID	28	
FTCLEAR	0	
FTDCBDEB	64	
FTIOB	0	

Table 558. Cross Reference for IHAFETWK (continued)

Name	Offset	Hex Tag
FTIOBCCHHR	23	
FTIOBE	30	
FTIOBSEEK	20	
FTVIODEB	68	
FTVIOECB	60	
FTVIOECBYT	60	
FTVIOECPOST	60	40
FTWKAREA	0	
WKALIAS	5DF	
WKAPFSSI	5DF	
WKATTR	5D2	
WKAUTH	59D	80
WKBLDE	5B8	
WKCBYTE	5C9	
WKCDADDR	594	
WKCNTNSV	590	
WKDCBSE	5B4	
WKDEBOK	59E	80
WKDEBPTR	590	
WKEND	604	
WKENTBK	5DF	
WKENTPT	5D9	
WKENTSC	5E7	
WKFLAG	59C	
WKFLG1	59D	
WKFLG2	59E	
WKFLG3	59F	
WKIOADDR	598	
WKIOADDR_IS_64	59D	10
WKIOADDR64	5A0	
WKIOADDR64C	5A0	
WKJOBLIB	59E	04
WKK	5C7	
WKLNLIB	59E	01
WKLNTH	5D4	
WKLNTHF	5D7	
WKLNTHM	5D4	
WKMAINAM	5FC	
WKMAINEP	5F8	
WKNAMBK	5E2	
WKNAME	5BC	
WKNAMSC	5EA	
WKPDSDE	5BC	
WKPREFX	5B8	
WKR	5C6	
WKREGIS	5A0	
WKSCATER	5DF	
WKSCATR	5DF	
WKSVC LIB	59E	02

IHAFETWK mapping

Table 558. Cross Reference for IHAFETWK (continued)

Name	Offset	Hex Tag
WKSYSDCB	59D	20
WKSYSREQ	59D	40
WKTCBSE	5B0	
WKTT	5C4	
WKTTESD	5CA	
WKTRK	5C4	
WKTXTRG	5DC	
WKUSRLIB	59E	08
WKZBYTE	5C8	

Chapter 136. IHAFPC Information

IHAFPC Programming Interface Information

IHAFPC is a programming interface.

IHAFPC Heading Information

Common Name: FLOATING POINT CONTROL REGISTER
 Macro ID: IHAFPC
 DSECT Name: FPC
 Owing Component: SUPERVISOR CONTROL (SC1C5)
 Eye-Catcher ID: NONE
 Storage Attributes: Subpool: N/A
 Key: N/A
 Residency: N/A
 Size: FPC -- X'0004' bytes
 Created by: USER
 Pointed to by: N/A
 Serialization: N/A
 Function: Maps the architected Floating Point Control register

IHAFPC mapping

Table 559. Structure FPC

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	FPC	FLOATING POINT CONTROL REG
0	(0)	CHARACTER	1	FPCMASK	MASK BITS
		1... ..		FPCMINVO	"X'80'" INVALID OPERATION MASK
		.1.. ..		FPCMDIVZ	"X'40'" DIVISION BY ZERO MASK
		..1.		FPCMOVFL	"X'20'" OVERFLOW MASK
		...1		FPCMUNFL	"X'10'" UNDERFLOW MASK
		.... 1...		FPCMINEX	"X'08'" INEXACT MASK
1	(1)	CHARACTER	1	FPCFLAG	FLAG BITS
		1... ..		FPCFINVO	"X'80'" INVALID OPERATION FLAG
		.1.. ..		FPCFDIVZ	"X'40'" DIVISION BY ZERO FLAG
		..1.		FPCFOVFL	"X'20'" OVERFLOW FLAG
		...1		FPCFUNFL	"X'10'" UNDERFLOW FLAG
		.... 1...		FPCFINEX	"X'08'" INEXACT FLAG
2	(2)	CHARACTER	1	FPCDXC	DATA EXCEPTION CODE
		1... ..		FPCDINVO	"X'80'" INVALID OPERATION
		.1.. ..		FPCDDIVZ	"X'40'" DIVISION BY ZERO
		..1.		FPCDOVFL	"X'20'" OVERFLOW
		...1		FPCDUNFL	"X'10'" UNDERFLOW
		.... 1...		FPCDINEX	"X'08'" INEXACT
		.... .1..		FPCDINCR	"X'04'" INCREMENTED
		.... ..11		FPCDR	"X'03'" RESERVED
3	(3)	CHARACTER	1	FPCBYTE3	3 * BIT(6), RESERVED
		.... ..11		FPCRND	"X'03'" ROUNDING MODE
4	(4)	X'4'	0	FPC_LEN	"*-FPC"

IHAFPC mapping

Table 560. Cross Reference for IHAFPC

Name	Offset	Hex Tag
FPC	0	
FPC_LEN	4	4
FPCBYTE3	3	
FPCDDIVZ	2	40
FPCDINCR	2	4
FPCDINEX	2	8
FPCDINVO	2	80
FPCDOVFL	2	20
FPCDR	2	3
FPCDUNFL	2	10
FPCDXC	2	
FPCFDIVZ	1	40
FPCFINEX	1	8
FPCFINVO	1	80
FPCFLAG	1	
FPCFOVFL	1	20
FPCFUNFL	1	10
FPCMASK	0	
FPCMDIVZ	0	40
FPCMINEX	0	8
FPCMINVO	0	80
FPCMOVFL	0	20
FPCMUNFL	0	10
FPCRND	3	3

Chapter 137. IHAFPRET Information

IHAFPRET Programming Interface Information

IHAFPRET is a programming interface.

IHAFPRET Heading Information

Common Name: IEAFP Return Information
Macro ID: IHAFPRET
DSECT Name: NONE
Owning Component: Supervisor Control (SC1C5)
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: None required
Function: Equates for IEAFP return and reason codes

IHAFPRET mapping

Table 561. Structure

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

IHAFPRET mapping

Table 561. Structure (continued)

Offset	Offset			
Dec	Hex	Type	Len	Name(Dim)
		IHAFPRET_1;		
		START OF SPECIFICATIONS		
		PROPRIETARY STATEMENT		
		01 PROPRIETARY STATEMENT=		
		LICENSED MATERIALS - PROPERTY OF IBM		
		5650-ZOS COPYRIGHT IBM CORP. 1998, 2013		
		STATUS= HBB7790		
		END_OF_PROPRIETARY_STATEMENT		
		01 DESCRIPTIVE NAME: IEAFP Return Information		
		02 ACRONYM: FPRET		
		01 MACRO NAME: IHAFPRET		
		01 EXTERNAL CLASSIFICATION: GUPI		
		01 END OF EXTERNAL CLASSIFICATION:		
		01 DSECT NAME:		
		NONE		
		01 COMPONENT: Supervisor Control (SC1C5)		
		01 EYE-CATCHER: NONE		
		01 STORAGE ATTRIBUTES:		
		02 SUBPOOL: N/A		
		02 KEY: N/A		
		02 RESIDENCY: N/A		
		01 SIZE: N/A		
		01 CONTROL BLOCK CHANGES:		
		02 IHAFPRET		
		02 6.0.6		
		03 New		
		03 Migration Considerations: NONE		
		01 END CONTROL BLOCK CHANGES		
		01 CREATED BY:		
		N/A		
		01 POINTED TO BY:		
		N/A		
		01 SERIALIZATION:		
		None required		
		01 FUNCTION:		
		02 Equates for IEAFP return and reason codes		
		01 METHOD OF ACCESS:		
		02 ASM:		
		IHAFPRET		
		02 PL/AS:		
		%INCLUDE SYSLIB(IHAFPRET)		
		01 DELETED BY: N/A		
		01 FREQUENCY: N/A		
		01 DEPENDENCIES: None		
		01 DISTRIBUTION LIBRARY: AMACLIB		
		01 CHANGE ACTIVITY:		
		\$L0=IEEECBG ,HBB6606,970825,PD00XB: IEEE FP		
		\$L1=IEEESUP ,HBB6606,970825,PD00XB: IEEE FP		
		\$L2=0A43704 ,HBB7790,140601,PD00XB: IEAFP START		
		END OF SPECIFICATIONS		
		Return Code Information It is guaranteed that no reason code will be reused (i.e., the same reason code will not be used for more than one return code). Also note carefully that bits 0-15 of the reason code may contain component-diagnostic data and must not be assumed to be 0.		
0	(0)	BITSTRING	0	IEAFPRSNCODEMASK
				"X'0000FFFF'" Use this mask to isolate the non component-diagnostic portion of the reason code.
IEAFP Return and Reason Code definitions				

Table 561. Structure (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
		....	....		IEAFPRC_OK	"X'00000000'" Meaning: IEAFP request successful. Action: None required.
		....	1...		IEAFPRC_INVPARM	"X'00000008'" Meaning: IEAFP request specifies parameters that are not valid. Action: Refer to the action provided with the specific reason code.
0	(0)	BITSTRING		0	IEAFPRSNBADFUNCTION	"X'00000801'" Meaning: Incorrect value passed to target routine. Action: Check for possible storage overlay.
		....	11..		IEAFPRC_ENV	"X'0000000C'" Meaning: Environmental error Action: Refer to the action provided with the specific reason code.
0	(0)	BITSTRING		0	IEAFPRSNFROMASYNCHEXIT	"X'00000C01'" Meaning: IEAFP was issued from an asynchronous exit routine. Action: Avoid issuing IEAFP from an asynchronous exit routine.
0	(0)	BITSTRING		0	IEAFPRSNFROMNONPREEMPTIBLESRB	"X'00000C02'" Meaning: IEAFP START was issued from an SRB that was a non-preemptible SRB. Action: Avoid issuing IEAFP from a non-preemptible SRB.
0	(0)	BITSTRING		0	IEAFPRSNFROMNOTBITCB	"X'00000C03'" Meaning: IEAFP START was issued from a task that was not the jobstep program task nor a subtask of that task. Action: When using IEAFP START from a task, do so only from the jobstep program task or a subtask of that task.
0	(0)	BITSTRING		0	IEAFPRSNLOCKED	"X'00000C04'" Meaning: IEAFP START was issued when holding a lock other than the LOCAL lock. Action: Avoid using IEAFP START when holding a lock other than the LOCAL lock.
0	(0)	BITSTRING		0	IEAFPRSNNOSTORAGE	"X'00000C05'" Meaning: Necessary system storage could not be obtained. For a task mode request, it is LSQA storage. For an SRB mode request, it is ESQA storage. Action: If issued in task mode, use IEAFP START at an earlier time in the jobstep. If issued in SRB mode, arrange for some current user of ESQA storage to release it or run this after a re-IPL after ensuring additional ESQA storage availability for that IPL.

IHAFPRET mapping

Table 561. Structure (continued)

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
0	(0)	BITSTRING	0	IEAFPRSNSUPERBIT	"X'00000C06'" Meaning: IEAFP START was issued from a work unit with at least one bit on in the PSASUPER word. A DIE is one such kind of work unit. Action: Avoid issuing IEAFP from a DIE or any other work unit running with PSASUPER on.

Table 562. Cross Reference for IHAFPRET

Name	Offset	Hex Tag
IEAFPRC_ENV	0	C
IEAFPRC_INVPARM	0	8
IEAFPRC_OK	0	0
IEAFPRSNBADFUNCTION	0	801
IEAFPRSNCODEMASK	0	FFFF
IEAFPRSNFROMASYNCHEXIT	0	C01
IEAFPRSNFROMNONPREEMPTIBLESRB	0	C02
IEAFPRSNFROMNOTBITCB	0	C03
IEAFPRSNLOCKED	0	C04
IEAFPRSNNOSTORAGE	0	C05
IEAFPRSNSUPERBIT	0	C06

Chapter 138. IHAFRRSO Information

IHAFRRSO Heading Information

Common Name: OLD IHAFRRS
 Macro ID: IHAFRRSO
 DSECT Name: FRRSO, FRRSOXSTK, FRRSOENTR, FRRSOXENT
 Owing Component: RECOVERY TERMINATION MANAGER (SCR TM)
 Eye-Catcher ID: NONE
 Storage Attributes: Subpool: 239
 Key: 0
 Size: 856 BYTES OR LESS
 Created by: IEAVNIP0 OR IEFVCPU
 Pointed to by: PSA DATA AREA FIELDS -
 PSACSTK (CURRENT FRR STACK)
 PSANSTK (NORMAL FRR STACK)
 PSASSTK (SVC-I/O-DISPATCHER FRR STACK)
 PSASSAV (CURRENT FRR STACK SAVED BY SVC-I/O-DISPATCHER)
 PSAMSTK (MACHINE CHECK FLIH FRR STACK)
 PSAMSAV (CURRENT FRR STACK AT TIME OF MACHINE CHECK)
 PSAPSTAK (PROGRAM CHECK FLIH FRR STACK)
 PSAPSAV (CURRENT FRR STACK AT TIME OF PROGRAM CHECK)
 PSAESTK1 (EXTERNAL FLIH1 FRR STACK)
 PSAESAV1 (CURRENT FRR STACK AT TIME OF EXTERNAL INTERRUPT)
 PSAESTK2 (EXTERNAL FLIH2 FRR STACK)
 PSAESAV2 (CURRENT FRR STACK AT TIME OF FIRST RECURSIVE
 EXTERNAL INTERRUPT)
 PSAESTK3 (EXTERNAL FLIH3 FRR STACK)
 PSAESAV3 (CURRENT FRR STACK AT TIME OF SECOND RECURSIVE
 EXTERNAL INTERRUPT)
 PSARSTK (RESTART FLIH FRR STACK)
 PSARSASV (CURRENT FRR STACK AT TIME OF RESTART INTERRUPT)
 PSATSTK (RECOVERY TERMINATION MANAGER FRR STACK)
 PSATSASV (ERROR STACK SAVED BY RTM PROCESSING)
 PSAASTK (ALTERNATE CPU RECOVERY FRR STACK)
 PSAASAV (FRR STACK SAVED BY ACR PROCESSING)
 Serialization: AT LEAST ONE OF THE FOLLOWING -
 DISABLEMENT, SRB MODE, ANY LOCK HELD, OR AN EUT=YES FRR
 IS ESTABLISHED AND HAS NOT BEEN DELETED
 Function: MAPPING OF FRR STACK CONTENTS, USED WITH THE SETFRR
 MACRO TO DEFINE FRRSO

IHAFRRSO mapping

Table 563. Structure FRRSO

Offset	Offset		Len	Name(Dim)	Description
Dec	Hex	Type			
0	(0)	STRUCTURE	600	FRRSO	
0	(0)	CHARACTER	88	FRRSOND	NON-DYNAMIC PART OF THE FRR STACK
0	(0)	CHARACTER	16	FRRSOHEAD	THE HEADER OF THE FRR STACK
0	(0)	ADDRESS	4	FRRSOEMP	ADDRESS WHICH INDICATES AN EMPTY STACK

IHFRRSO mapping

Table 563. Structure FRRSO (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	ADDRESS	4	FRRSOLAST	ADDRESS OF LAST ENTRY IN STACK
8	(8)	SIGNED	4	FRRSOELEN	LENGTH OF EACH ENTRY IN THE STACK
12	(C)	ADDRESS	4	FRRSOCURR	ADDRESS OF CURRENT FRR ENTRY IN THE STACK
16	(10)	CHARACTER	24	FRRSORSA	SETFRR REG 14-3 SAVE AREA
40	(28)	CHARACTER	4	FRRSORTMW	RECURSION CONTROL DATA REMOVED FROM THE RT1W
44	(2C)	UNSIGNED	2	FRRSOENTL	RESERVED FOR FRRSOCOPY MACRO TO SAVE LENGTH OF ENTRIES ACTUALLY COPIED
46	(2E)	UNSIGNED	2	FRRSOEXTL	RESERVED FOR FRRSOCOPY MACRO TO SAVE LENGTH OF EXTENSIONS ACTUALLY COPIED
48	(30)	CHARACTER	8	*	RESERVED
56	(38)	ADDRESS	4	FRRSORTMA	ADDRESS OF RTM1 WORK AREA
60	(3C)	ADDRESS	4	FRRSOXSTA	ADDRESS OF THE EXTENSIONS TO THE FRR ENTRIES (ACTUAL SIZE IS 16 TIMES THE MAXIMUM NUMBER OF ENTRIES)
64	(40)	CHARACTER	24	FRRSOASA	SETFRR ACCESS REGISTER 14-3 SAVE AREA
88	(58)	CHARACTER	512	FRRSOENTS	THE FRR ENTRIES IN THE STACK

Table 564. Structure FRRSOENTR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	32	FRRSOENTR	THE MAPPING OF A FRR ENTRY
0	(0)	ADDRESS	4	FRRSOFRA	THE ADDRESS OF THE FRR
0	(0)	CHARACTER	3	*	
3	(3)	CHARACTER	1	FRRSOFRA1	LOW ORDER BYTE
		1111 111.		*	
		.... ...1		FRRSOXFLG	FLAG INDICATING FRRSOFLGS INITIALIZED WHEN SETFRR WAS ISSUED
4	(4)	CHARACTER	4	FRRSOFLGS	FLAGS USED BY RTM DURING FRR PROCESSING
4	(4)	CHARACTER	1	FRRSOFLG1	RECURSION USED BY RTM
		1...		FRRSORCUR	RECURSION FLAG USED WHEN GIVING CONTROL TO FRR AND WHEN RECEIVING CONTROL BACK FROM FRR
		.1..		FRRSONEST	FLAG INDICATING A NESTED FRR ENTRY
		..1.		FRRSONLCL	FLAG INDICATING THAT NESTED FRR IS A MODE=LOCAL FRR
		...1		FRRSONGLB	FLAG INDICATING THAT NESTED FRR IS A MODE=GLOBAL FRR
		.... 1...		FRRSONRTY	FRR RETRY INDICATOR. IF ON, FRR CANNOT RETRY.
5	(5)	CHARACTER	1	FRRSOFLG2	RESERVED
6	(6)	CHARACTER	1	FRRSOFLG3	RESULT OF IAC INSTRUCTION FROM TIME OF SETFRR
		1111 11..		*	

Table 564. Structure FRRSOENTR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
7	(7)	CHARACTER	1	FRRSOASC	ASC FLAGS
		CHARACTER	1	FRRSOFLG4	FLAGS TO INDICATE OPTIONS CHOSEN WHEN THE SETFRR WAS ISSUED
		CHARACTER	1	FRRSOEUT	ENABLED UNLOCKED TASK FRR (EUT=YES ON SETFRR)
		CHARACTER	1	FRRSONCNL	CANCEL=NO FRR, PROTECTED FROM CANCELS, DETACHES
		CHARACTER	1	*	RESERVED
		CHARACTER	1	FRRSOFULL	MODE=FULLXM WAS SPEC ON THE SETFRR
		CHARACTER	1	FRRSOPRIM	MODE=PRIMARY WAS SPEC ON THE SETFRR
		CHARACTER	1	FRRSOLCL	MODE=LOCAL WAS SPEC ON THE SETFRR
		CHARACTER	1	FRRSOGLB	MODE=GLOBAL WAS SPEC ON THE SETFRR
8	(8)	CHARACTER	24	FRRSOPARM	PARAMETER AREA PASSED TO FRR

Table 565. Structure FRRSOXENT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	16	FRRSOXENT	THE MAPPING OF AN FRR ENTRY EXTENSION
0	(0)	CHARACTER	8	FRRSOXM	CROSS MEMORY INFO WHEN SETFRR WAS ISSUED
0	(0)	CHARACTER	4	FRRSOCR3	CONTROL REGISTER 3 WHEN SETFRR WAS ISSUED
0	(0)	CHARACTER	2	FRRSOKM	KEY MASK
2	(2)	CHARACTER	2	FRRSOSAS	SASID
4	(4)	CHARACTER	4	FRRSOCR4	CONTROL REGISTER 4 WHEN SETFRR WAS ISSUED
4	(4)	CHARACTER	2	FRRSOAX	AUTHORIZATION INDEX
6	(6)	CHARACTER	2	FRRSOPAS	PASID
8	(8)	ADDRESS	4	FRROEAX	EAX VALUE AT SETFRR
12	(C)	ADDRESS	4	FRRROLS	LINKAGE STACK AT SETFRR

Table 566. Constants for IHAFRRSO

Len	Type	Value	Name	Description
4	DECIMAL	32	FRRSOESZE	LENGTH OF EACH FRR ENTRY
4	DECIMAL	16	FRRSOEXSZ	LENGTH OF EACH FRR EXTENSION
4	DECIMAL	16	FRRSONENT	NUMBER OF FRR ENTRIES IN THE STACK
4	DECIMAL	856	FRRSOTLEN	TOTAL LENGTH OF NORMAL FRR STACK

Table 567. Cross Reference for IHAFRRSO

Name	Offset	Hex Tag
FRROEAX	8	
FRRROLS	C	
FRRSO	0	
FRRSOASA	40	

IHAFRRSO mapping

Table 567. Cross Reference for IHAFRRSO (continued)

Name	Offset	Hex Tag
FRRSOASC	6	03
FRRSOAX	4	
FRRSOOCR3	0	
FRRSOOCR4	4	
FRRSOCURR	C	
FRRSOELEN	8	
FRRSOEMP	0	
FRRSOENTL	2C	
FRRSOENTR	0	
FRRSOENTS	58	
FRRSOEUT	7	80
FRRSOEXTL	2E	
FRRSOFLGS	4	
FRRSOFLG1	4	
FRRSOFLG2	5	
FRRSOFLG3	6	
FRRSOFLG4	7	
FRRSOFRA1	3	
FRRSOFRA	0	
FRRSOFULL	7	08
FRRSOGLB	7	01
FRRSOHEAD	0	
FRRSOKM	0	
FRRSOLAST	4	
FRRSOLCL	7	02
FRRSONCNL	7	40
FRRSOND	0	
FRRSONEST	4	40
FRRSONGLB	4	10
FRRSONLCL	4	20
FRRSONRTY	4	08
FRRSOPARM	8	
FRRSOPAS	6	
FRRSOPRIM	7	04
FRRSORCUR	4	80
FRRSORSA	10	
FRRSORTMA	38	
FRRSORTMW	28	
FRRSOSAS	2	
FRRSOXENT	0	
FRRSOXFLG	3	01
FRRSOXM	0	
FRRSOXSTA	3C	

Chapter 139. IHAFSD Information

IHAFSD Programming Interface Information

IHAFSD is a programming interface.

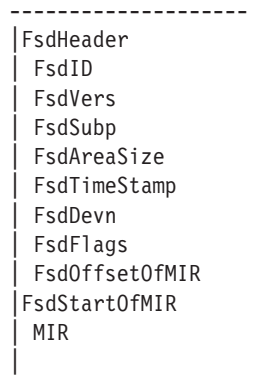
IHAFSD Heading Information

Common Name: FICON Switch Data
Macro ID: IHAFSD
DSECT Name: FSD - FICON Switch Data MHR - Monitor Header Record MPIR - Monitor Port Information Record SCR - Statistical Counter Record MCR - Monitor Control Record SCCW - Statistical Counter Control Word
Owning Component: I/O Supervisor (SC1C3)
Eye-Catcher ID: FSD
Offset: 0
Length: 4
Storage Attributes: Subpool: 252 (system copy), or user-specified (user copy)
Key: 0, or user-specified
Residency: Above 16MB, or user-specified
Size: FSD -- X'002C' bytes
MHR -- X'0010' bytes
MPIR -- X'0010' bytes
SCR -- X'0008' bytes
MCR -- X'0100' bytes
SCCW -- X'0004' bytes
Created by: IOSVFSD
Pointed to by: FsdDceFsdDataPtr, or IRDFSD_XFSDADDRESS
Serialization: SYSZIOS,FSD resource

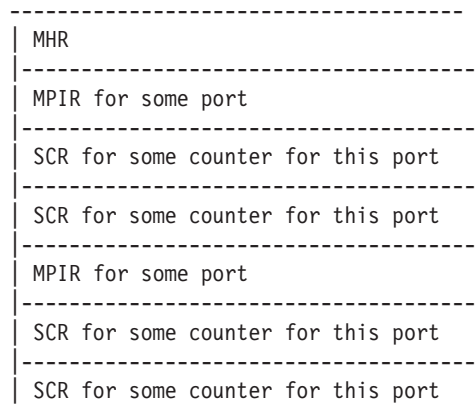
IHAFSD Heading Information

Function: Maps the area containing the port statistical data returned by the IRDFSD service.
 The area contains a header followed by a Monitor Information Record (MIR) for a single switch.
 The MIR consists of one Monitor Header Record (MHR), one or more Monitor Port Information Records (MPIRs), and one or more Statistical Counter Records (SCRs) for each MPIR.

FSD



MIR



IHAFSD mapping

Table 568. Structure FSD

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	FSD	FICON Switch Data
0	(0)	CHARACTER	44	FSDHEADER(0)	
0	(0)	CHARACTER	4	FSDID	FSD ID field
4	(4)	BITSTRING	1	FSDVERS	Version
5	(5)	CHARACTER	2		Reserved
7	(7)	BITSTRING	1	FSDSUBP	FSD Subpool
8	(8)	SIGNED	4	FSDAREASIZE	Total size of the area
12	(C)	CHARACTER	4		Reserved
16	(10)	CHARACTER	16	FSDTIMESTAMP	Extended TOD clock value
32	(20)	CHARACTER	2	FSDDEVN	Device number
34	(22)	CHARACTER	2	FSDFLAGS(0)	Flags
34	(22)	BITSTRING	1		

Table 568. Structure FSD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
35	(23)	BITSTRING	1		
36	(24)	CHARACTER	4		Reserved
40	(28)	SIGNED	4	FSDOFFSETOFMIR	Offset from the beginning of FSD of the MIR data
44	(2C)	CHARACTER	1	FSDSTARTOFMIR(0)	
44	(2C)	X'2C'	0	FSD_LEN	"*-FSD"

Table 569. Structure MHR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MHR	Monitor Header Record
0	(0)	CHARACTER	1	MHRID	MHR ID is x'60'
1	(1)	BITSTRING	1	MHRCOUNT	MHR length in 4-byte words
2	(2)	CHARACTER	1	MHRSTATUS(0)	Status
		..1.		MHRELAPSEDTIMEOVERFLOW	"X'20'" Elapsed time overflow
		...1		MHRCOUNTERSET	"X'10'" On indicates the complete counter set has been read, off indicates that a subset has been returned
		.... 1...		MHRRECORDTRUNCATED	"X'08'" On indicates that the byte count was not sufficient to transfer the entire record, and the record has been truncated
3	(3)	CHARACTER	3		Reserved
6	(6)	CHARACTER	2	MHRELAPSEDTIMECOUNT	Elapsed time counter
8	(8)	CHARACTER	1	MHRVERSIONSUPPORTED	Version supported
9	(9)	CHARACTER	1	MHRVERSIONPRESENTED	Version presented
10	(A)	CHARACTER	2		Reserved
12	(C)	CHARACTER	4	MHRSEQUENCENUMBER	Sequence Number
12	(C)	X'10'	0	MHR_LEN	"*-MHR"

Table 570. Structure MPIR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MPIR	Monitor Port Information record
0	(0)	CHARACTER	1	MPIRID	MPIR ID is x'61'
1	(1)	BITSTRING	1	MPIRCOUNT	MPIR length in 4-byte words
2	(2)	CHARACTER	1	MPIRSTATUS(0)	Status
		1...		MPIRSTATITCALCOUNTERSPROVIDED	"X'80'" Counters provided
		.1..		MPIRLAST	"X'40'" Last MPIR
		...1		MPIRINTERNALPORT	"X'10'" On indicates an internal port, off indicates an external port
3	(3)	CHARACTER	2		Reserved
5	(5)	BITSTRING	1	MPIRPORTNUMBER	Port number (always x'FF' for internal ports)
6	(6)	BITSTRING	1	MPIRPORTADDRESS	Port address
7	(7)	CHARACTER	1		Reserved
8	(8)	CHARACTER	4	MPIRPORTDESCRIPTOR	Port descriptor
12	(C)	CHARACTER	4		Reserved

IHAFSD mapping

Table 570. Structure MPIR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
12	(C)	X'10'	0	MPIR_LEN	"*-MPIR"

Table 571. Structure SCR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SCR	Statistical Counter Record
0	(0)	CHARACTER	1	SCRSTATUS(0)	Status
		1... ..		SCRCOUNTERVALID	"X'80'" Counters provided
		.1.. ..		SCRLAST	"X'40'" Last SCR
		..1.		SCROVERFLOW	"X'20'" Counter overflowed
		.... ..11		SCRSCALE	"X'03'" Counter scaling factor: '00'b = scale by 1x '01'b = scale by 16x '10'b = scale by 256x '11'b = scale by 4096x
1	(1)	BITSTRING	1	SCRCOUNT	SCR length in 4-byte words
2	(2)	CHARACTER	2	SCRSTATISTICALCOUNTERID	Counter ID
4	(4)	SIGNED	4	SCRSTATISTICALCOUNTERDATA	Statistical Counter Data

Performance Counter Identifiers

4	(4)	BITSTRING	0	SCIDNUMBEROFWORDSTRANSMITTED	"X'0901'"
4	(4)	BITSTRING	0	SCIDNUMBEROFWORDSRECEIVED	"X'0902'"
4	(4)	BITSTRING	0	SCIDNUMBEROFFRAMESTRANSMITTED	"X'0903'"
4	(4)	BITSTRING	0	SCIDNUMBEROFFRAMESRECEIVED	"X'0904'"
4	(4)	BITSTRING	0	SCIDNUMBEROFFRAMESRECV	"X'0905'"
4	(4)	BITSTRING	0	SCIDNUMBEROFFRAMESRECV	"X'0906'"
4	(4)	BITSTRING	0	SCIDNUMBEROFFRAMESRECV	"X'0907'"
4	(4)	BITSTRING	0	SCIDNUMBEROFMULTICASTFRAMESR	"X'0908'"
4	(4)	BITSTRING	0	SCIDFRAMEPACINGTIME	"X'0909'"

Frame Error Counter Identifiers

4	(4)	BITSTRING	0	SCIDNUMBEROFDISPARITYERRORSIN	"X'0910'"
4	(4)	BITSTRING	0	SCIDNUMBEROFRCRCERRORS	"X'0911'"
4	(4)	BITSTRING	0	SCIDNUMBEROFFRAMESGTFCMAX	"X'0912'"
4	(4)	BITSTRING	0	SCIDNUMBEROFFRAMESLTFCMIN	"X'0913'"
4	(4)	BITSTRING	0	SCIDNUMBEROFFRAMESWITHBADEOF	"X'0914'"
4	(4)	BITSTRING	0	SCIDNUMBEROFDISPARITYERRORSOUT	"X'0915'"
4	(4)	BITSTRING	0	SCIDNUMBEROFINVALIDORDSETS	"X'0916'"
4	(4)	BITSTRING	0	SCIDNUMBEROFFRAMESDISC	"X'0917'"

Link Error Counter Identifiers

4	(4)	BITSTRING	0	SCIDNUMBEROFFLINKFAILURES	"X'0920'"
4	(4)	BITSTRING	0	SCIDNUMBEROFFLOSSOFFSYNC	"X'0921'"

Table 571. Structure SCR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	BITSTRING	0	SCIDNUMBEROFLOSSOF SIGNAL	"X'0922'"
4	(4)	BITSTRING	0	SCIDNUMBEROFPROTOCOLERRORS	"X'0923'"
4	(4)	BITSTRING	0	SCIDNUMBEROFINVTRANWORDS	"X'0924'"
4	(4)	BITSTRING	0	SCIDNUMBEROFADDRESSIDERRORS	"X'0925'"
4	(4)	BITSTRING	0	SCIDNUMBEROFLRRISSUEDBYPORT	"X'0926'"
4	(4)	BITSTRING	0	SCIDNUMBEROFOLSRECEIVED	"X'0927'"
4	(4)	BITSTRING	0	SCIDNUMBEROFOLSISSUED	"X'0928'"
4	(4)	BITSTRING	0	SCIDERRORSSUMMARYCOUNT	"X'0929'"
Constants					
Some of these will need to be updated as additional counter IDs are defined.					
4	(4)	X'A'	0	NUMBEROFDEFAULTCOUNTERS	"10"
4	(4)	X'1B'	0	NUMBEROFCOUNTERSDEFINED	"27"
4	(4)	X'901'	0	CODEMINIMUM	"2305" Lowest valid ID
4	(4)	X'929'	0	CODEMAXIMUM	"2345" Highest valid ID
Statistical Counter Scaling Factors					
		.... ....		SCRSCALE_1	"B'00000000'" Scale by 1
		.... ...1		SCRSCALE_16	"B'00000001'" Scale by 16
		.... ..1.		SCRSCALE_256	"B'00000010'" Scale by 256
		.... ..11		SCRSCALE_4096	"B'00000011'" Scale by 4096
4	(4)	X'8'	0	SCR_LEN	"*-SCR"

Table 572. Structure MCR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	MCR	Monitor control record
0	(0)	CHARACTER	2		Reserved
2	(2)	CHARACTER	1	MCRMC	Monitor control
3	(3)	CHARACTER	1		Reserved
4	(4)	CHARACTER	4		Reserved
8	(8)	CHARACTER	1	MCRVERSION	Version requested
9	(9)	CHARACTER	2		Reserved
11	(B)	CHARACTER	1	MCRSTARTPORT	Starting Port Number
12	(C)	CHARACTER	3		Reserved
15	(F)	CHARACTER	1	MCRENDPORT	Ending Port Number
16	(10)	CHARACTER	240	MCRCCW	Counter control words
16	(10)	X'100'	0	MCR_LEN	"*-MCR"

Table 573. Structure SCCW

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SCCW	Statistical Counter Control Word (60 maximum)
0	(0)	CHARACTER	1	SCCWFLAG(0)	Flag byte
		1...		SCCWLAST	"X'80'" Last counter control word
1	(1)	CHARACTER	1		Reserved

IHAFSD mapping

Table 573. Structure SCCW (continued)

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
2	(2)	BITSTRING	2	SCCWSTATISTICALCOUNTERID	Statistical Counter ID
CCW Op Codes					
		..11 ...1		FSDSETMONITOR	"X'31'"
		..11 ...1.		FSDREADPORTSTATISTICS	"X'32'"
Other Constants					
2	(2)	X'E2C440'	0	FSDIDNAME	"C'FSD '"
2	(2)	X'2'	0	FSDVERSION02	"2"
		.11.		MHRID60	"X'60'"
		.... .1..		MHRCOUNT04	"X'04'"
		.11. ...1		MPIRID61	"X'61'"
		.... .1..		MPIRCOUNT04	"X'04'"
2	(2)	X'4'	0	SCCW_LEN	"*-SCCW"

Table 574. Cross Reference for IHAFSD

Name	Offset	Hex Tag
CODEMAXIMUM	4	929
CODEMINIMUM	4	901
FSD	0	
FSD_LEN	2C	2C
FSDAREASIZE	8	
FSDDEVN	20	
FSDFLAGS	22	
FSDHEADER	0	
FSDID	0	
FSDIDNAME	2	E2C440
FSDOFFSETOFMIR	28	
FSDREADPORTSTATISTICS	2	32
FSDSETMONITOR	2	31
FSDSTARTOFMIR	2C	
FSDSUBP	7	
FSDTIMESTAMP	10	
FSDVERS	4	
FSDVERSION02	2	2
MCR	0	
MCR_LEN	10	100
MCRCCW	10	
MCRENDPORT	F	
MCRMC	2	
MCRSTARTPORT	B	
MCRVERSION	8	
MHR	0	
MHR_LEN	C	10
MHRCOUNT	1	
MHRCOUNTERSET	2	10
MHRCOUNT04	2	4
MHRELAPSEDTIMECOUNT	6	
MHRELAPSEDTIMEOVERFLOW	2	20

Table 574. Cross Reference for IHAFSD (continued)

Name	Offset	Hex Tag
MHRID	0	
MHRID60	2	60
MHRRECORDTRUNCATED	2	8
MHRSEQUENCENUMBER	C	
MHRSTATUS	2	
MHRVERSIONPRESENTED	9	
MHRVERSIONSUPPORTED	8	
MPIR	0	
MPIR_LEN	C	10
MPIRCOUNT	1	
MPIRCOUNT04	2	4
MPIRID	0	
MPIRID61	2	61
MPIRINTERNALPORT	2	10
MPIRLAST	2	40
MPIRPORTADDRESS	6	
MPIRPORTDESCRIPTOR	8	
MPIRPORTNUMBER	5	
MPIRSTATITCALCOUNTERSPROVIDED	2	80
MPIRSTATUS	2	
NUMBEROFCOUNTERSDEFINED	4	1B
NUMBEROFDEFAULTCOUNTERS	4	A
SCCW	0	
SCCW_LEN	2	4
SCCWFLAG	0	
SCCWLAST	0	80
SCCWSTATISTICALCOUNTERID	2	
SCIDERRORSUMMARYCOUNT	4	929
SCIDFRAMEPACINGTIME	4	909
SCIDNUMBEROFADDRESSIDERRORS	4	925
SCIDNUMBEROFCLASS2FRAMESRECV	4	905
SCIDNUMBEROFCLASS3FRAMESDISC	4	917
SCIDNUMBEROFCLASS3FRAMESRECV	4	906
SCIDNUMBEROFCRCERRORS	4	911
SCIDNUMBEROFDISPARITYERRORSIN	4	910
SCIDNUMBEROFDISPARITYERRORSOUT	4	915
SCIDNUMBEROFFRAMESGTFMAX	4	912
SCIDNUMBEROFFRAMESLTFMIN	4	913
SCIDNUMBEROFFRAMESRECEIVED	4	904
SCIDNUMBEROFFRAMESTRANSMITTED	4	903
SCIDNUMBEROFFRAMESWITHBADEOF	4	914
SCIDNUMBEROFINVALIDORDSETS	4	916
SCIDNUMBEROFINVTRANWORDS	4	924
SCIDNUMBEROFLINKCNTLFRAMESR	4	907
SCIDNUMBEROFLINKFAILURES	4	920
SCIDNUMBEROFLOSSOF SIGNAL	4	922
SCIDNUMBEROFLOSSOF SYNC	4	921
SCIDNUMBEROFLRRISSUEDBYPORT	4	926
SCIDNUMBEROFMULTICASTFRAMESR	4	908

IHAFSD mapping

Table 574. Cross Reference for IHAFSD (continued)

Name	Offset	Hex Tag
SCIDNUMBEROFOLSISSUED	4	928
SCIDNUMBEROFOLSRECEIVED	4	927
SCIDNUMBEROFPROTOCOLERRORS	4	923
SCIDNUMBEROFWORDSRECEIVED	4	902
SCIDNUMBEROFWORDSTRANSMITTED	4	901
SCR	0	
SCR_LEN	4	8
SCRCOUNT	1	
SCROUNTERVALID	0	80
SCRLAST	0	40
SCROVERFLOW	0	20
SCRSCALE	0	3
SCRSCALE_1	4	0
SCRSCALE_16	4	1
SCRSCALE_256	4	2
SCRSCALE_4096	4	3
SCRSTATISTICALCOUNTERDATA	4	
SCRSTATISTICALCOUNTERID	2	
SCRSTATUS	0	

Chapter 140. IHAIPA Information

IHAIPA Programming Interface Information

IHAIPA is a programming interface.

IHAIPA Heading Information

Common Name: Initialization Parameter Area
Macro ID: IHAIPA
DSECT Name: IPA IPAPDE IPAPLI
Owning Component: Nucleus Initialization Program (SC1C8)
Eye-Catcher ID: IPA
Offset: 0
Length: 4
Storage Attributes: Main Storage: NO
Virtual Storage: YES
Auxiliary Storage: YES
Subpool: 241
Key: 0
Data Space: NO
Residency: Above 16M virtual
Size: IPA -- X'0B90' bytes
IPAPDE -- X'0008' bytes
IPAPLI -- X'0040' bytes
Created by: IEAVNIPX
Pointed to by: ECVTIPA
Serialization: NONE
Function: The IPA contains system initialization parameters defined in:
1) the load parameter used to IPL.
2) the LOADxx member used to IPL.
3) all IEASYSxx members used to IPL.
Each set of parameter information is mapped by dsect IPAPDE.

IHAIPA mapping

Table 575. Structure IPA

Offset	Offset			Len	Name(Dim)	Description
Dec	Hex	Type				
0	(0)	STRUCTURE		0	IPA	Initialization Parameter Area
0	(0)	CHARACTER		96	IPAHEAD	Header section
0	(0)	CHARACTER		4	IPAIID	Eye-catcher
4	(4)	SIGNED		2	IPALEN	Length
6	(6)	BITSTRING		1	IPASP	Subpool
7	(7)	BITSTRING		1	IPAVER	Version number
8	(8)	CHARACTER		8	IPAICTOD	TOD at completion of system initialization
16	(10)	CHARACTER		8	IPALPARM	IPL load parameter
16	(10)	CHARACTER		4	IPAIODFU	IODF unit address
20	(14)	CHARACTER		2	IPALLOADS	LOADxx suffix
22	(16)	CHARACTER		1	IPAPROMT	Operator prompt flag
23	(17)	CHARACTER		1	IPANUCID	Nucleus ID

IHAIPA mapping

Table 575. Structure IPA (continued)

Offset	Offset					
Dec	Hex	Type	Len	Name(Dim)	Description	
24	(18)	CHARACTER	24	IPANAMES	System name values	
24	(18)	CHARACTER	8	IPAHWNAM	HWNAME value	
32	(20)	CHARACTER	8	IPALPNAM	LPARNAME value	
40	(28)	CHARACTER	8	IPAVMNAM	VMUSERID value	
48	(30)	CHARACTER	44	IPALPDSN	IPL load parameter dataset name	
92	(5C)	CHARACTER	4	IPALPDDV	IPL load parameter dataset device number	
96	(60)	CHARACTER	2056	IPALOAD	LOADxx section	
96	(60)	CHARACTER	64	IPAIODF	IODF card image	
96	(60)	CHARACTER	2	IPAIOSUF	IODF dataset name suffix	
98	(62)	CHARACTER	1		Reserved	
99	(63)	CHARACTER	8	IPAIOHLQ	IODF dataset name high-level qualifier	
107	(6B)	CHARACTER	1		Reserved	
108	(6C)	CHARACTER	8	IPAIOCFG	Operating system configuration identifier	
116	(74)	CHARACTER	1		Reserved	
117	(75)	CHARACTER	2	IPAIOEDT	EDT identifier	
119	(77)	CHARACTER	1		Reserved	
120	(78)	CHARACTER	1	IPAIODDS	Load all device support modules ("Y"=" ", or "N")	
160	(A0)	CHARACTER	64	IPASPARM	SYSPARM card image	
160	(A0)	CHARACTER	2	IPASPSUF	IEASYSxx suffix	
160	(A0)	CHARACTER	63	IPASPLST	List of IEASYSxx suffixes in parentheses	
224	(E0)	CHARACTER	64	IPASCAT	SYSCAT card image	
224	(E0)	CHARACTER	6	IPASCVOL	Master catalog VOLSER	
230	(E6)	CHARACTER	1	IPASCTYP	Master catalog type (" "=VSAM, "1"=ICF, "2"=ICF and SYS%-SYS1 conversion)	
231	(E7)	CHARACTER	1	IPASCANL	Alias name level	
232	(E8)	CHARACTER	2	IPASCCAS	CAS service task lower limit ("18" to "B4")	
234	(EA)	CHARACTER	44	IPASCDSN	Master catalog dataset name	
278	(116)	CHARACTER	8	IPASCHLQ	HLQ of master cat	
288	(120)	CHARACTER	64	IPASYM	IEASYM card image	
288	(120)	CHARACTER	2	IPASYSUF	IEASYMxx suffix	
288	(120)	CHARACTER	63	IPASYLST	List of IEASYMxx suffixes in parentheses	
352	(160)	CHARACTER	64	IPAPLEX	SYSPLEX card image	
352	(160)	CHARACTER	8	IPASXNAM	SYSPLEX name	
360	(168)	CHARACTER	1		Reserved	
361	(169)	CHARACTER	1	IPASXSCU	SYSCONE uniqueness indicator	
416	(1A0)	CHARACTER	64	IPAPLIB	PARMLIB card images	
416	(1A0)	CHARACTER	44	IPAPLDSN	PARMLIB dataset name	
460	(1CC)	CHARACTER	1		Reserved	
461	(1CD)	CHARACTER	6	IPAPLVOL	PARMLIB VOLSER	
467	(1D3)	CHARACTER	12		Reserved	
479	(1DF)	BITSTRING	1	IPAPFLG	PARMLIB usage flags	

Bit definitions:

1...	IPAPLUSE	"X'80'" PARMLIB in use
.1..	IPAPLDEF	"X'40'" Default PARMLIB

Table 575. Structure IPA (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
		..1.	....		IPAPLCAT	"X'20'" IPAPLVOL found from catalog
		....	1...		IPAPLLCF	"X'08'" PARMLIB not used - LOCATE failed
		....	.1..		IPAPLMNF	"X'04'" PARMLIB not used - MOUNT failed
		....	..1.		IPAPLOPF	"X'02'" PARMLIB not used - OPEN failed
1504	(5E0)	CHARACTER		64	IPASTMTMM	This is not part of the programming interface.
1696	(6A0)	CHARACTER		64	IPASTMT	Reserved, use from the end in case we need to add more MACHMIG statements
2080	(820)	CHARACTER		40		Reserved
2120	(848)	CHARACTER		8	IPAILTOD	Local time at completion of system initialization, in TOD format.
2128	(850)	ADDRESS		4	IPAMACHMIGADDR	Address of MACHMIG statements. This is an array of 64-character card images. The number of array entries is indicated by IPANumMachmigs
2132	(854)	SIGNED		2	IPANUMMACHMIGS	Number of MACHMIG statements
2134	(856)	SIGNED		2	IPAPLNUMX	Number of PARMLIB card images. The card images must be found by using field IPAPLIB@. This field will be 0 (as will IPAPLIB@) on older systems where IPAPLNUMX is not functional.
2136	(858)	ADDRESS		4	IPAPLIB@	Address of PARMLIB card images when IPAPLNUMX is non-zero. The card images are contiguous. Each PARMLIB card is mapped by DSECT IPAPLI
2140	(85C)	SIGNED		2	IPANUMPDES	Number of parameter descriptor elements in IPASYS
2142	(85E)	CHARACTER		1	IPAMTLSH	MTLSHARE VALUE
2143	(85F)	CHARACTER		1	IPAARCHL	Architecture Level
2144	(860)	CHARACTER		4	IPANUCL	NUCLST information
2144	(860)	CHARACTER		2	IPANLID	NUCLSTxx member used
2146	(862)	CHARACTER		1	IPANUCW	Load wait state if NUCLSTxx INCLUDE member not found
2147	(863)	CHARACTER		1		Reserved

IHAIPA mapping

Table 575. Structure IPA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2148	(864)	SIGNED	2	IPAPLNUM	Number of PARMLIB card images. You can find the PARMLIB images in the IPAPLIB field of this mapping. This is the "old" field. It is preferred that you use IPAPLNUMX. If the number of user-specifiable parmlibs ever exceeds 16 (which could mean that there are 17 total parmlibs, if the system has added SYS1.PARMLIB), IPAPLNUM will never exceed 17. At such a time, IPAPLNUMX and IPAPLIB would have to be used to get the entire list.
2150	(866)	BITSTRING	1	IPALFLAG	LOADxx usage flags
Bit definitions:					
		1... ..		IPAJCLP	"X'80'" Master JCL came from PARMLIB
		.1... ..		IPAUJCL	"X'40'" Use Master JCL IEFPARMs instead of LOADxx PARMLIBs
2151	(867)	CHARACTER	1	IPANUCXID	Nucleus extension ID
2152	(868)	CHARACTER	808	IPASYS	IEASYSxx section
2152	(868)	CHARACTER	8	IPAPDES	Parameter descriptor elements
2152	(868)	CHARACTER	808	IPAPDESC	Individual parameter descriptors
2152	(868)	CHARACTER	8	IPAALLOC	
				PDE for ALLOC	
2160	(870)	CHARACTER	8	IPAAPF	
				PDE for APF	
2168	(878)	CHARACTER	8	IPAAPG	
				PDE for APG	
2176	(880)	CHARACTER	8	IPABLDL	
				PDE for BLDL	
2184	(888)	CHARACTER	8	IPABDLF	
				PDE for BDLF	
2192	(890)	CHARACTER	8	IPACLOCK	
				PDE for CLOCK	
2200	(898)	CHARACTER	8	IPACLPA	
				PDE for CLPA	
2208	(8A0)	CHARACTER	8	IPACMB	
				PDE for CMB	
2216	(8A8)	CHARACTER	8	IPACMD	
				PDE for CMD	
2224	(8B0)	CHARACTER	8	IPACON	
				PDE for CON	

Table 575. Structure IPA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2232	(8B8)	CHARACTER	8	IPACONT PDE for CONT	
2240	(8C0)	CHARACTER	8	IPACOUPL PDE for COUPLE	
2248	(8C8)	CHARACTER	8	IPACPQE PDE for CPQE	
2256	(8D0)	CHARACTER	8	IPACSA PDE for CSA	
2264	(8D8)	CHARACTER	8	IPACSCBL PDE for CSCBLOC	
2272	(8E0)	CHARACTER	8	IPACVIO PDE for CVIO	
2280	(8E8)	CHARACTER	8	IPADEVSU PDE for DEVSUP	
2288	(8F0)	CHARACTER	8	IPADIAG PDE for DIAG	
2296	(8F8)	CHARACTER	8	IPADUMP PDE for DUMP	
2304	(900)	CHARACTER	8	IPADUPLE PDE for DUPLEX	
2312	(908)	CHARACTER	8	IPAEXIT PDE for EXIT	
2320	(910)	CHARACTER	8	IPAFIX PDE for FIX	
2328	(918)	CHARACTER	8	IPAGRS PDE for GRS	
2336	(920)	CHARACTER	8	IPAGRSCN PDE for GRSCNF	
2344	(928)	CHARACTER	8	IPAGRSRN PDE for GRSRNL	
2352	(930)	CHARACTER	8	IPAICS PDE for ICS	
2360	(938)	CHARACTER	8	IPAIOS PDE for IOS	
2368	(940)	CHARACTER	8	IPAIPS PDE for IPS	
2376	(948)	CHARACTER	8	IPALNK	

IHAIPA mapping

Table 575. Structure IPA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					PDE for LNK
2384	(950)	CHARACTER	8	IPALNKAU	PDE for LNKAUTH
2392	(958)	CHARACTER	8	IPALOGCL	PDE for LOGCLS
2400	(960)	CHARACTER	8	IPALOGLM	PDE for LOGLMT
2408	(968)	CHARACTER	8	IPALOGRE	PDE for LOGREC
2416	(970)	CHARACTER	8	IPALPA	PDE for LPA
2424	(978)	CHARACTER	8	IPAMAXCA	PDE for MAXCAD
2432	(980)	CHARACTER	8	IPAMAXUS	PDE for MAXUSER
2440	(988)	CHARACTER	8	IPAMLPA	PDE for MLPA
2448	(990)	CHARACTER	8	IPAMSTRJ	PDE for MSTRJCL
2456	(998)	CHARACTER	8	IPANONVI	PDE for NONVIO
2464	(9A0)	CHARACTER	8	IPANSYSL	PDE for NSYSLX
2472	(9A8)	CHARACTER	8	IPANUCMA	PDE for NUCMAP
2480	(9B0)	CHARACTER	8	IPAOMVS	PDE for OMVS
2488	(9B8)	CHARACTER	8	IPAOPPI	PDE for OPI
2496	(9C0)	CHARACTER	8	IPAOPT	PDE for OPT
2504	(9C8)	CHARACTER	8	IPAPAGEO	PDE for PAGE (operator-specified)
2512	(9D0)	CHARACTER	8	IPAPAGEP	PDE for PAGE (IEASYSxx-specified)
2520	(9D8)	CHARACTER	8	IPAPAGNU	

Table 575. Structure IPA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					PDE for PAGNUM
2528	(9E0)	CHARACTER	8	IPAPAGTO	PDE for PAGTOTL
2536	(9E8)	CHARACTER	8	IPAPAK	PDE for PAK
2544	(9F0)	CHARACTER	8	IPAPLEXC	PDE for PLEXCFG
2552	(9F8)	CHARACTER	8	IPAPRODP	PDE for PRODP
2560	(A00)	CHARACTER	8	IPAPROG	PDE for PROG
2568	(A08)	CHARACTER	8	IPAPURGE	PDE for PURGE
2576	(A10)	CHARACTER	8	IPARDE	PDE for RDE
2584	(A18)	CHARACTER	8	IPAREAL	PDE for REAL
2592	(A20)	CHARACTER	8	IPARER	PDE for RER
2600	(A28)	CHARACTER	8	IPARSU	PDE for RSU
2608	(A30)	CHARACTER	8	IPARSVNO	PDE for RSVNONR
2616	(A38)	CHARACTER	8	IPARSVST	PDE for RSVSTR
2624	(A40)	CHARACTER	8	IPASCH	PDE for SCH
2632	(A48)	CHARACTER	8	IPASMF	PDE for SMF
2640	(A50)	CHARACTER	8	IPASMS	PDE for SMS
2648	(A58)	CHARACTER	8	IPASQA	PDE for SQA
2656	(A60)	CHARACTER	8	IPASSN	PDE for SSN
2664	(A68)	CHARACTER	8	IPASVC	PDE for SVC

IHAIPA mapping

Table 575. Structure IPA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2672	(A70)	CHARACTER	8	IPASWAP PDE for SWAP	
2680	(A78)	CHARACTER	8	IPASYSNA PDE for SYSNAME	
2688	(A80)	CHARACTER	8	IPASYSYSP PDE for SYSP	
2696	(A88)	CHARACTER	8	IPAVAL PDE for VAL	
2704	(A90)	CHARACTER	8	IPAVIDS PDE for VIODSN	
2712	(A98)	CHARACTER	8	IPAVRREG PDE for VRREGN	
2720	(AA0)	CHARACTER	8	IPARTLSP Support for RTLS has been withdrawn	
2728	(AA8)	CHARACTER	8	IPAUNIP PDE for UNI	
2736	(AB0)	CHARACTER	8	IPAILML Support for ILM has been withdrawn	
2744	(AB8)	CHARACTER	8	IPAILMOD Support for ILM has been withdrawn	
2752	(AC0)	CHARACTER	8	IPATSO PDE for IKJTSO	
2760	(AC8)	CHARACTER	8	IPALIC PDE for LICENSE 010409	
2768	(AD0)	CHARACTER	8		PDE for VSHAR
2776	(AD8)	CHARACTER	8	IPAHVSHARE	
2784	(AE0)	CHARACTER	8	IPAILM Support for ILM has been withdrawn	
2792	(AE8)	CHARACTER	8	IPADRMOD PDE for DRMODE	
2800	(AF0)	CHARACTER	8	IPACEE PDE for CEE	
2808	(AF8)	CHARACTER	8	IPAPRCPU PDE for PRESCPU	
2816	(B00)	CHARACTER	8	IPALFAREA	PDE for LFAREA
2824	(B08)	CHARACTER	8	IPACEA	

Table 575. Structure IPA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
PDE for CEA					
2832	(B10)	CHARACTER	8	IPAHVCOMMON	PDE for VCOMM
2840	(B18)	CHARACTER	8	IPAAXR	
PDE for AXR					
2848	(B20)	CHARACTER	8	IPAZAAPZIIP	PDE for zAAPzIIP (ZZ)
2856	(B28)	CHARACTER	8	IPAIQP	
PDE for IQP					
2864	(B30)	CHARACTER	8	IPACPCR	
PDE for CPR					
2872	(B38)	CHARACTER	8	IPADDM	
PDE for DDM					
2880	(B40)	CHARACTER	8	IPAAUTOR	
PDE for AUTOR					
2888	(B48)	CHARACTER	8	IPACATALOG	PDE for CATALOG
2896	(B50)	CHARACTER	8	IPAIXGCNF	PDE for IXGCNF
2904	(B58)	CHARACTER	8	IPAPAGESCM	PDE for PAGESCM
2912	(B60)	CHARACTER	8	IPAWARNUND	PDE for WARNUND
2920	(B68)	CHARACTER	8	IPAHZS	
PDE for HZS					
2928	(B70)	CHARACTER	8	IPAGTZ	
PDE for GTZ					
2936	(B78)	CHARACTER	8	IPAHZSPROC	PDE for HZSPROC
2944	(B80)	CHARACTER	8	IPASMFLIM	PDE for SMFLIM
2952	(B88)	CHARACTER	8	IPAIEFOPZ	PDE for IEFOPZ
2960	(B90)	CHARACTER	1	IPAPDESC_END(0)	
2960	(B90)	CHARACTER	1	IPAEND(0)	End of IPA. The number of elements in IPAPDESC must be less than or equal to the dimension of IPAPDES.
?ASAXMAC ASSERT(Dim(IPAPDES) Length(IPAPDE),EQ,Length(IPAPDESC)) ?ASAXMAC ASSERT(Dim(IPAPDES) Length(IPAPDE),EQ,Length(IPAPDESC))					
2960	(B90)	X'0'	0	ASSERT_EQ1_1	"0"
2960	(B90)	X'0'	0	ASSERT_EQ2_1	"0"
Constants for IPAHEAD					
2960	(B90)	X'D7C140'	0	IPAIPA	"C'IPA '" Eye-catcher
2960	(B90)	X'F1'	0	IPASPN	"241" IPA subpool
2960	(B90)	X'1'	0	IPACVN	"1" IPA current version
Constants for IPAPROMT (the last three letters of the name indicate the effects of IPLing with that prompt value: the sixth letter indicates whether ("Y") or not ("N") the master catalog prompt is issued, the seventh letter indicates whether or not the system parameters prompt is issued, and the eighth letter indicates whether or not IPL messages are displayed)					

IHAIPA mapping

Table 575. Structure IPA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2960	(B90)	X'C1'	0	IPAPRYYY	"C'A"
2960	(B90)	X'D7'	0	IPAPRYYN	"C'P"
2960	(B90)	X'D4'	0	IPAPRNNY	"C'M"
2960	(B90)	X'40'	0	IPAPRNNN	"C' "
2960	(B90)	X'C3'	0	IPAPRYNN	"C'C"
2960	(B90)	X'C4'	0	IPAPRYNY	"C'D"
2960	(B90)	X'E2'	0	IPAPRNYN	"C'S"
2960	(B90)	X'E3'	0	IPAPRNY Y	"C'T"
2960	(B90)	X'B90'	0	IPA_LEN	"*-IPA"

Table 576. Structure IPAPDE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IPAPDE	Parameter descriptor element
0	(0)	ADDRESS	4	IPAPDESA	Address of parameter string (will be zero if the parameter was not specified and has no default value)
4	(4)	SIGNED	2	IPAPDESL	Length of parameter string, not including trailing null ('00'X) delimiter (will be zero if the parameter was not specified and has no default value)
6	(6)	SIGNED	2	IPAPDEDO	Source of parameter string (default value or from operator)
6	(6)	CHARACTER	2	IPAPDESS	Source of parameter string (IEASYSxx member)
Constants for IPAPDEDO					
6	(6)	X'0'	0	IPAPDEDF	"0" Parameter was not specified and its default value was used by system initialization
6	(6)	X'FFFFFF'	0	IPAPDEOP	"-1" Operator provided the parameter value
6	(6)	X'8'	0	IPAPDE_LEN	"*-IPAPDE"

Table 577. Structure IPAPLI

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IPAPLI	Parmlib card image
0	(0)	CHARACTER	44	IPAPLIDSN	PARMLIB dataset name
44	(2C)	CHARACTER	1		Reserved
45	(2D)	CHARACTER	6	IPAPLIVOL	PARMLIB VOLSER
51	(33)	CHARACTER	12		Reserved
63	(3F)	BITSTRING	1	IPAPLIFLG	PARMLIB usage flags
Bit definitions:					
		1...		IPAPLIUSE	"X'80" PARMLIB in use
		.1..		IPAPLIDEF	"X'40" Default PARMLIB
		..1.		IPAPLICAT	"X'20" IPAPLIVOL found from catalog

Table 577. Structure IPAPLI (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
		....	1...		IPAPLILCF	"X'08'" PARMLIB not used - LOCATE failed
		....	.1..		IPAPLIMNF	"X'04'" PARMLIB not used - MOUNT failed
		....	..1.		IPAPLIOPF	"X'02'" PARMLIB not used - OPEN failed
64	(40)	X'40'		0	IPAPLI_LEN	"*-IPAPLI"

Table 578. Cross Reference for IHAIPA

Name	Offset	Hex	Tag
ASSERT_EQ1_1	B90		0
ASSERT_EQ2_1	B90		0
IPA	0		
IPA_LEN	B90		B90
IPAALLOC	868		
IPAAPF	870		
IPAAPG	878		
IPAARCHL	85F		
IPAAUTOR	B40		
IPAAXR	B18		
IPABLDL	880		
IPABLDLF	888		
IPACATALOG	B48		
IPACEA	B08		
IPACEE	AF0		
IPACLOCK	890		
IPACLPA	898		
IPACMB	8A0		
IPACMD	8A8		
IPACON	8B0		
IPACONT	8B8		
IPACOUPL	8C0		
IPACPCR	B30		
IPACPQE	8C8		
IPACSA	8D0		
IPACSCBL	8D8		
IPACVIO	8E0		
IPACVN	B90		1
IPADDM	B38		
IPAEVSU	8E8		
IPADIAG	8F0		
IPADRMOD	AE8		
IPADUMP	8F8		
IPADUPLE	900		
IPAEND	B90		
IPAEXIT	908		
IPAFIX	910		
IPAGRS	918		

IHAIPA mapping

Table 578. Cross Reference for IHAIPA (continued)

Name	Offset	Hex Tag
IPAGRSCN	920	
IPAGRSRN	928	
IPAGTZ	B70	
IPAHEAD	0	
IPAHVCOMMON	B10	
IPAHVSHARE	AD8	
IPAHWNAM	18	
IPAHZS	B68	
IPAHZSPROC	B78	
IPAICS	930	
IPAICTOD	8	
IPAID	0	
IPAIEFOPZ	B88	
IPAILM	AE0	
IPAILML	AB0	
IPAILMOD	AB8	
IPAILTOD	848	
IPAIOCFG	6C	
IPAIODDS	78	
IPAIODF	60	
IPAIODFU	10	
IPAIOEDT	75	
IPAIOHLQ	63	
IPAIOS	938	
IPAIOSUF	60	
IPAIPA	B90	D7C140
IPAIPS	940	
IPAIQP	B28	
IPAIXGCNF	B50	
IPAJCLP	866	80
IPALEN	4	
IPALFAREA	B00	
IPALFLAG	866	
IPALIC	AC8	
IPALNK	948	
IPALNKAU	950	
IPALOAD	60	
IPALLOADS	14	
IPALOGCL	958	
IPALOGLM	960	
IPALOGRE	968	
IPALPA	970	
IPALPARM	10	
IPALPDDV	5C	
IPALPDSN	30	
IPALPNAM	20	
IPAMACHMIGADDR	850	
IPAMAXCA	978	
IPAMAXUS	980	

Table 578. Cross Reference for IHAIPA (continued)

Name	Offset	Hex Tag
IPAMLPA	988	
IPAMSTRJ	990	
IPAMTLSH	85E	
IPANAMES	18	
IPANLID	860	
IPANONVI	998	
IPANSYSL	9A0	
IPANUCID	17	
IPANUCL	860	
IPANUCMA	9A8	
IPANUCW	862	
IPANUCXID	867	
IPANUMMACHMIGS	854	
IPANUMPDES	85C	
IPAOMVS	9B0	
IPAOP1	9B8	
IPAOPT	9C0	
IPAPAGEO	9C8	
IPAPAGEP	9D0	
IPAPAGESCM	B58	
IPAPAGNU	9D8	
IPAPAGTO	9E0	
IPAPAK	9E8	
IPAPDE	0	
IPAPDE_LEN	6	8
IPAPDEDF	6	0
IPAPDEDO	6	
IPAPDEOP	6	FFFFFF
IPAPDES	868	
IPAPDESA	0	
IPAPDESC	868	
IPAPDESC_END	B90	
IPAPDESL	4	
IPAPDESS	6	
IPAPLCAT	1DF	20
IPAPLDEF	1DF	40
IPAPLDSN	1A0	
IPAPLEX	160	
IPAPLEXC	9F0	
IPAPLFLG	1DF	
IPAPLI	0	
IPAPLI_LEN	40	40
IPAPLIB	1A0	
IPAPLIB@	858	
IPAPLICAT	3F	20
IPAPLIDEF	3F	40
IPAPLIDSN	0	
IPAPLIFLG	3F	
IPAPLILCF	3F	8

IHAIPA mapping

Table 578. Cross Reference for IHAIPA (continued)

Name	Offset	Hex Tag
IPAPLIMNF	3F	4
IPAPLIOPF	3F	2
IPAPLIUSE	3F	80
IPAPLIVOL	2D	
IPAPLLCF	1DF	8
IPAPLMNF	1DF	4
IPAPLNUM	864	
IPAPLNUMX	856	
IPAPLOPF	1DF	2
IPAPLUSE	1DF	80
IPAPLVOL	1CD	
IPAPRCPU	AF8	
IPAPRNNN	B90	40
IPAPRNNY	B90	D4
IPAPRNYN	B90	E2
IPAPRNY	B90	E3
IPAPRODP	9F8	
IPAPROG	A00	
IPAPROMT	16	
IPAPRYNN	B90	C3
IPAPRYNY	B90	C4
IPAPRYYN	B90	D7
IPAPRYYY	B90	C1
IPAPURGE	A08	
IPARDE	A10	
IPAREAL	A18	
IPARER	A20	
IPARSU	A28	
IPARSVNO	A30	
IPARSVST	A38	
IPARTLSP	AA0	
IPASCANL	E7	
IPASCAT	E0	
IPASCCAS	E8	
IPASCDSN	EA	
IPASCH	A40	
IPASCHLQ	116	
IPASCTYP	E6	
IPASCVOL	E0	
IPASMF	A48	
IPASMFLIM	B80	
IPASMS	A50	
IPASP	6	
IPASPARM	A0	
IPASPLST	A0	
IPASPN	B90	F1
IPASPSUF	A0	
IPASQA	A58	
IPASSN	A60	

Table 578. Cross Reference for IHAIPA (continued)

Name	Offset	Hex Tag
IPASTMT	6A0	
IPASTMTMM	5E0	
IPASVC	A68	
IPASWAP	A70	
IPASXNAM	160	
IPASXSCU	169	
IPASYLST	120	
IPASYM	120	
IPASYS	868	
IPASYSNA	A78	
IPASYSP	A80	
IPASYSUF	120	
IPATSO	AC0	
IPAUJCL	866	40
IPAUNIP	AA8	
IPAVAL	A88	
IPAVER	7	
IPAVIDS	A90	
IPAVMNAM	28	
IPAVRREG	A98	
IPAWARNUND	B60	
IPAZAAPZIIP	B20	

IHAIPA mapping

Chapter 141. IHALCCAO Information

IHALCCAO Heading Information

Common Name: Logical Configuration Communication Area
 Macro ID: IHALCCAO
 DSECT Name: LCCAO
 Owing Component: Supervisor Control (SC1C5)
 Eye-Catcher ID: LCCA
 Offset: 0
 Length: 4
 Storage Attributes: Subpool: 239
 Key: 0
 Size: OFFSET OF LCCAOEND MINUS THE OFFSET OF LCCAO
 Created by: IEAVNIPO
 IEEVCPRP
 Pointed to by: PSALCCAV field of the PSA data area
 PSALCCAR field of the PSA data area
 LCCATxxP field of the LCCAVT data area
 (where xx is the processor number)
 LCCADCPU field of the LCCA data area
 (failing processor's LCCA)
 LCCARCPU field of the LCCA data area
 (recovering processor's LCCA)
 Serialization: Disablement
 Function: Contains processor related data.

IHALCCAO mapping

Table 579. Structure LCCAO

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	2632	LCCAO	
0	(0)	CHARACTER	4	LCCAO_LCCAO	CONTROL BLOCK ACRONYM IN EBCDIC
4	(4)	ADDRESS	2	LCCAO_CPUA	LOGICAL CPU ADDRESS
6	(6)	BITSTRING	2	LCCAO_CAFM	BIT MASK CORRESPONDING TO LOGICAL CPU ADDRESS
8	(8)	SIGNED	4	LCCAO_PGR1(16)	PROGRAM FLIH RECURSION REGISTER SAVE AREA 1
72	(48)	SIGNED	4	LCCAO_PGR2(16)	PROGRAM FLIH MAIN ENTRY REGISTER SAVE AREA (MDC346)
136	(88)	CHARACTER	8	LCCAO_PPSW	PROGRAM FLIH MAIN ENTRY PSW SAVE AREA
144	(90)	SIGNED	4	LCCAO_PINT	PROGRAM FLIH MAIN ENTRY ILC AND INTERRUPT CODE SAVE AREA
144	(90)	CHARACTER	1	*	RESERVED - SET TO 0
145	(91)	BITSTRING	1	LCCAO_PILC	INSTRUCTION LENGTH CODE
146	(92)	BITSTRING	1	LCCAO_PEEC	EXCEPTION - EXTENSION CODE
147	(93)	BITSTRING	1	LCCAO_PICD	PROGRAM INTERRUPT CODE
		1...		LCCAO_PPPER	PER BIT IN INTERRUPT CODE
		.111 1111		LCCAO_PICA	The interrupt code without the PER bit

IHALCCAO mapping

Table 579. Structure LCCAO (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		LCCAOPMC	Monitor call bit in interrupt code
148	(94)	SIGNED	4	LCCAOPVAD	The "clean" interrupt code PROGRAM FLIH MAIN ENTRY TRANSLATION EXCEPTION ADDRESS SAVE AREA
148	(94)	CHARACTER	3	* LCCAOPVXM	FIRST THREE BYTES OF ADDRESS TEA MODE STATE. 0=PRIMARY 1=SECONDARY
151	(97)	UNSIGNED	1	LCCAOPDXC	Data exception code for PI 7
151	(97)	BITSTRING	1	LCCAOPSTD	LAST BYTE OF LCCAOPVAD
		1111 1... .... .1..		* LCCAOSOPI	Suppression-on-protection indicator
		.... ..11		LCCAOPSTF	STD FIELD - LAST TWO BITS OF LCCAOPVAD '00' - PRIMARY STD USED .. '01' - STD WAS AR QUALIFIED .. '10' - SECONDARY STD USED .. '11' - HOME STD USED.
152	(98)	CHARACTER	3	*	Reserved
155	(9B)	UNSIGNED	1	LCCAOPICC	LCCAOPICD without PER. Should it be w/o MC?
156	(9C)	SIGNED	4	LCCAOCR0	WORK AREA FOR TESTING BITS IN CONTROL REGISTER 0
160	(A0)	SIGNED	4	LCCAOPGR3(16)	PROGRAM CHECK FLIH REGISTER SAVE AREA 3 (MDC317)
224	(E0)	CHARACTER	64	LCCAOPAR2	PROGRAM FLIH MAINLINE ACCESS REGISTER SAVEAREA 2
224	(E0)	UNSIGNED	4	LCCAOP2A0	ACCESS REGISTER 0
228	(E4)	UNSIGNED	4	LCCAOP2A1	ACCESS REGISTER 1
232	(E8)	UNSIGNED	4	LCCAOP2A2	ACCESS REGISTER 2
236	(EC)	UNSIGNED	4	LCCAOP2A3	ACCESS REGISTER 3
240	(F0)	UNSIGNED	4	LCCAOP2A4	ACCESS REGISTER 4
244	(F4)	UNSIGNED	4	LCCAOP2A5	ACCESS REGISTER 5
248	(F8)	UNSIGNED	4	LCCAOP2A6	ACCESS REGISTER 6
252	(FC)	UNSIGNED	4	LCCAOP2A7	ACCESS REGISTER 7
256	(100)	UNSIGNED	4	LCCAOP2A8	ACCESS REGISTER 8
260	(104)	UNSIGNED	4	LCCAOP2A9	ACCESS REGISTER 9
264	(108)	UNSIGNED	4	LCCAOP2AA	ACCESS REGISTER 10
268	(10C)	UNSIGNED	4	LCCAOP2AB	ACCESS REGISTER 11
272	(110)	UNSIGNED	4	LCCAOP2AC	ACCESS REGISTER 12
276	(114)	UNSIGNED	4	LCCAOP2AD	ACCESS REGISTER 13
280	(118)	UNSIGNED	4	LCCAOP2AE	ACCESS REGISTER 14
284	(11C)	UNSIGNED	4	LCCAOP2AF	ACCESS REGISTER 15
288	(120)	SIGNED	4	LCCAORSGR(16)	RESTART FLIH REGISTER SAVE AREA
352	(160)	ADDRESS	4	LCCAODSA2	REAL ADDRESS OF THE DATA SPACE ASTE CAUSING THE FAULT.
356	(164)	CHARACTER	64	LCCAOPCR2	PROGRAM FLIH MAINLINE CONTROL REGISTER SAVEAREA 2
356	(164)	UNSIGNED	4	LCCAOP2C0	CONTROL REGISTER 0
360	(168)	UNSIGNED	4	LCCAOP2C1	CONTROL REGISTER 1
364	(16C)	UNSIGNED	4	LCCAOP2C2	DUCT ORIGIN ADDRESS (CR2)

Table 579. Structure LCCAO (continued)

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
368	(170)	CHARACTER	8	LCCAOPXM2	PROGRAM FLIH CROSS MEMORY CONTROL REGISTER SAVEAREA 2 - MUST BE ON A DOUBLE WORD BOUNDARY.
368	(170)	UNSIGNED	4	LCCAOP2C3	CONTROL REGISTER 3
368	(170)	UNSIGNED	2	LCCAOPX2K	PROGRAM KEY MASK
370	(172)	UNSIGNED	2	LCCAOPX2S	SASN
372	(174)	UNSIGNED	4	LCCAOP2C4	CONTROL REGISTER 4
372	(174)	UNSIGNED	2	LCCAOPX2A	AX
374	(176)	UNSIGNED	2	LCCAOPX2P	PASN
376	(178)	UNSIGNED	4	LCCAOP2C5	ASTE REAL ADDRESS (CR5)
380	(17C)	UNSIGNED	4	LCCAOP2C6	CONTROL REGISTER 6
384	(180)	UNSIGNED	4	LCCAOP2C7	CONTROL REGISTER 7
388	(184)	UNSIGNED	4	LCCAOP2C8	CONTROL REGISTER 8
388	(184)	UNSIGNED	2	LCCAOPEX2	EAX VALUE (LH CR8)
390	(186)	UNSIGNED	2	*	SECOND HALF OF CR8
392	(188)	UNSIGNED	4	LCCAOP2C9	CONTROL REGISTER 9
396	(18C)	UNSIGNED	4	LCCAOP2CA	CONTROL REGISTER 10
400	(190)	UNSIGNED	4	LCCAOP2CB	CONTROL REGISTER 11
404	(194)	UNSIGNED	4	LCCAOP2CC	CONTROL REGISTER 12
408	(198)	UNSIGNED	4	LCCAOP2CD	CONTROL REGISTER 13
412	(19C)	UNSIGNED	4	LCCAOP2CE	CONTROL REGISTER 14
416	(1A0)	UNSIGNED	4	LCCAOP2CF	PROGRAM FLIH MAINLINE LINKAGE STACK ADDRESS (CR15)
420	(1A4)	CHARACTER	52	LCCAOR1A4	RESERVED
472	(1D8)	CHARACTER	8	LCCAOPSW3	PROGRAM FLIH PSW SAVE AREA 3 (MDC342)
480	(1E0)	SIGNED	4	LCCAOINGR(8)	INTERSECT REGISTER SAVE AREA (MDC325)
512	(200)	SIGNED	2	LCCAOBBCT	COUNT OF THE NUMBER OF TIMES BIND BREAK HAS ENABLED.
514	(202)	SIGNED	2	LCCAOWFCT	Bind Break Window Function Count - Incremented by code which opens an EMS window after it has completed its function
516	(204)	SIGNED	4	LCCAOMCR0	MACHINE CHECK FLIH CR0 SAVE AREA (MDC312)
		111.		*	FIRST THREE BITS OF LCCAO MCR0
		...1		LCCAO MPEN	IF 0, PSA PROTECT DISABLED. IF 1, PSA PROTECT ENABLED. (MDC315)
520	(208)	CHARACTER	4	LCCAOIHRC	GENERAL FLIH RECURSION FLAGS
520	(208)	BITSTRING	1	LCCAOIHR1	FIRST BYTE OF LCCAOIHRC
		1...		LCCAOXRC1	EXTERNAL FLIH RECURSION BIT 1
		.1..		LCCAOXRC2	EXTERNAL FLIH RECURSION BIT 2
		..11 1111		*	RESERVED
521	(209)	BITSTRING	1	LCCAOIHR2	SECOND BYTE OF LCCAOIHRC
522	(20A)	BITSTRING	1	LCCAOIHR3	THIRD BYTE OF LCCAOIHRC
523	(20B)	BITSTRING	1	LCCAOIHR4	FOURTH BYTE OF LCCAOIHRC
524	(20C)	CHARACTER	4	LCCAO SPIN	PROCESSOR IS SPINNING INDICATORS
524	(20C)	BITSTRING	1	LCCAO SPN1	FIRST BYTE OF LCCAO SPIN
		1...		LCCAO SIGS	IEAVSIGP SPIN BIT
		.1..		LCCAO ERIS	IEAVERI SPIN BIT
		..1.		LCCAO LOCK	LOCK MANAGER SPIN BIT

IHALCCAO mapping

Table 579. Structure LCCAO (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		LCCAOTSPN	SIMULATES SPIN FOR TIMER SUPERVISOR AT VARY TIME
		.... 1...		LCCAORSTR	USED BY A PROGRAM SPINNING FOR THE RESTART RESOURCE MDC035
		.... .1..		*	RESERVED
		.... ..1.		LCCAOINT	INTERSECT FUNCTION SPIN BIT (MDC308)
		.... ...1		LCCAOEXSN	SPIN BIT FOR EXCESSIVE SPIN NOTIFICATION ROUTINE IEEVEXSN (MDC330)
525	(20D)	BITSTRING	1	LCCAOSPN2	SECOND BYTE OF LCCAOSPIN
		1...		LCCAOMSF	MSSFCALL SVC SPIN CONDITION
		.1..		LCCAOCHAP	ASCBCHAP SPIN BIT
		..1.		LCCAOCPUR	TIMER SPIN BIT
		...1		LCCAOSTAS	STATUS SPIN BIT
		.... 1...		LCCAOESPN	IEAVESPN SPIN BIT
		.... .1..		LCCAOSTST	CPU/VF STOP/START spin bit IEEVCVSR.
		.... ..1.		LCCAOSXLS	XLS spin bit
526	(20E)	BITSTRING	1	LCCAOSPN3	THIRD BYTE OF LCCAOSPIN
527	(20F)	BITSTRING	1	LCCAOSPN4	FOURTH BYTE OF LCCAOSPIN
528	(210)	CHARACTER	8	*	OWNERSHIP: SUPERVISOR SERIALIZATION: NONE
528	(210)	UNSIGNED	4	LCCAOTODH	STCK WORK AREA - HIGH ORDER WORD
532	(214)	UNSIGNED	4	LCCAOTODL	STCK WORK AREA - LOW ORDER WORD
536	(218)	ADDRESS	4	LCCAOCPUS	POINTER TO CPU WORK/SAVE AREA VECTOR TABLE
540	(21C)	BITSTRING	1	LCCAODSF1	DISPATCHER STATUS INDICATOR BYTE 1 SPECIAL EXIT FLAGS
		1...		LCCA0ACR	ACR IN PROGRESS
		.1..		LCCA0VCPU	VARY CPU IN PROGRESS
		..1.		LCCA0ETSC	TOD SYNC CHECKS SHOULD BE ENABLED
		...1		LCCA0TIMR	CPU'S TOD CLOCK IS TO BE OR IS BEING SYNCHRONIZED MDC011
		.... 1...		LCCA0TSMC	TOD SYNC CHECK THRESHOLD HAS BEEN EXCEEDED
		.... .1..		LCCA0SVC6	Dispatcher entry DSSRBRTN was spinning for the global intersect.
		.... ..1.		LCCA0TCT2	Dispatcher entry IEAVDSTC was spinning for the global intersect.
		.... ...1		*	RESERVED
541	(21D)	BITSTRING	1	LCCAODSF2	DISPATCHER STATUS INDICATOR BYTE 2 SPECIAL EXIT FLAGS
		1...		LCCA0SRBM	SRB MODE INDICATOR
		.1..		*	
		..1.		LCCA0SSRB	DISPATCHER SSRB PATH FOOTPRINT
		...1		LCCA0EUTS	EUTSAVE SUBROUTINE FOOTPRINT
		.... 1...		LCCA0EUTR	EUTREST SUBROUTINE FOOTPRINT
		.... .1..		LCCA0TVS	Dispatcher footprint for XES Schedule List Transition Notification

Table 579. Structure LCCAO (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
		....	..1.		LCCA0DS7E	Dispatcher footprint on entry from external or i/o flih.
		....	...1		LCCA0TVS2	Dispatcher footprint for iQDIO notification.
542	(21E)	CHARACTER		1	LCCAOPSMK	STORE AREA FOR FLIH'S STOSM INSTRUCTION
543	(21F)	BITSTRING		1	LCCAOSCFI	Supervisor Control flag byte. Current processor's field serialized via disablement.
		1...	....		LCCAOCryp	THE ENCRYPTION FEATURE IS ENABLED ON THIS PROCESSOR (SET BY IEAMCPUF SERVICE).
		.1..	....		LCCA0HSCS	HPPI external interrupts are enabled on this processor (set by IEAMCPUF service).
		..1.	....		LCCAOPASS	Pass ABEND to interrupted unit of work indicator
		...1	....		LCCA0TVSE	External FLIH footprint for XES processing in progress.
		....	1...		LCCA0AOLS	Set when PSAAOLD was refreshed and IEAVELCR needs to record the old value in the VRA. The old value is saved in LCCA0AOLD.
		....	.1..		LCCA0TOLS	Set when PSATOLD was refreshed and IEAVELCR needs to record the old value in the VRA. The old value is saved in LCCA0TOLD.
		....	..1.		LCCA0TVS3	External FLIH footprint for iQDIO processing in progress.
		....	...1		*	RESERVED
544	(220)	CHARACTER		32	LCCA0DS0W	DISPATCHER CPU RELATED WORK AREA
544	(220)	ADDRESS		4	LCCA0PWEB	Dispatcher Savearea for previous current WUQ. SERIALIZATION: Dispatcher Active OWNERSHIP: Supervisor Control
548	(224)	SIGNED		4	LCCA0DBCT	DISPATCHER SAVEAREA FOR INTERNAL ASCB COUNTER. INITIALIZED TO SVTDSBCT AND DECREMENTED BY ONE FOR EACH ASCB SEARCHED.
		1...	....		LCCAORSWS	Turned on whenever the dispatcher is entered as a result of a successful Transfer request. Turned off by the dispatcher when a successful work search is completed.
552	(228)	ADDRESS		4	LCCA0DSV1	DISPATCHER SAVEAREA
556	(22C)	ADDRESS		4	LCCA0DSV2	DISPATCHER SAVEAREA
560	(230)	ADDRESS		4	LCCA0DSV3	DISPATCHER SAVEAREA
564	(234)	ADDRESS		4	LCCA0DSV4	DISPATCHER SAVEAREA
568	(238)	ADDRESS		4	LCCA0DSV5	DISPATCHER SAVEAREA
572	(23C)	ADDRESS		4	LCCA0DSV6	DISPATCHER SAVEAREA
576	(240)	ADDRESS		4	LCCA0EE1R	EXTERNAL FLIH MAINLINE RETRY ADDRESS
580	(244)	ADDRESS		4	LCCA0EE2R	EXTERNAL FLIH 1ST RECURSION RETRY ADDRESS

IHALCCAO mapping

Table 579. Structure LCCAO (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
584	(248)	ADDRESS	4	LCCA0EE3R	EXTERNAL FLIH 2ND RECURSION RETRY ADDRESS
588	(24C)	UNSIGNED	1	LCCAOPTR1	PROGRAM FLIH RECURSION TEA AR NUMBER SAVEAREA 1
589	(24D)	UNSIGNED	1	LCCAOPTR2	PROGRAM FLIH MAINLINE TEA AR NUMBER SAVEAREA 2
590	(24E)	UNSIGNED	1	LCCAOPTR3	PROGRAM FLIH RECURSION TEA MC AR NUMBER SAVEAREA 3
591	(24F)	UNSIGNED	1	LCCAOPPR2	MAINLINE PER STORAGE ALTERATION AR NUMBER
592	(250)	SIGNED	4	LCCAOTCR0	SAVE AREA FOR CONTROL REGISTER 0 FOR TIMER ROUTINES (MDC322)
596	(254)	SIGNED	4	LCCAOWTD	AWM wait dispatch count
600	(258)	SIGNED	4	LCCAOWSD	AWM short wait dispatch count
604	(25C)	SIGNED	4	LCCAOWSU	Unproductive short wait dispatch count
608	(260)	SIGNED	4	LCCAOWS	Short wait time slice count
612	(264)	UNSIGNED	4	*	
612	(264)	UNSIGNED	1	LCCAOSTCT	The count of sequential transfers on this processor
613	(265)	UNSIGNED	3	LCCAOR265	RESERVED
616	(268)	CHARACTER	8	LCCAOWTIM	ACCUMULATED CPU WAIT TIME
624	(270)	CHARACTER	28	LCCAOR270	RESERVED
652	(28C)	ADDRESS	4	LCCAOLCCX	Virtual address of LCCX.
652	(28C)	ADDRESS	4	LCCAOPWA	Virtual address of FPWA. Set during IPL and bringing processor online. Never reset. OWNERSHIP: Supervisor Control
656	(290)	ADDRESS	4	LCCAOLCXR	Real address of LCCX.
656	(290)	ADDRESS	4	LCCAOPWR	Real address of FPWA. Set during IPL and bringing processor online. Never reset. OWNERSHIP: Supervisor Control
660	(294)	ADDRESS	4	LCCA0ESAV	Virtual address of area pointed to by FLCESAA. Set during IPL and bringing processor online. Never reset. OWNERSHIP: Supervisor Control
664	(298)	ADDRESS	4	LCCAOAOLD	If LCCAOAOLS = 1, PSAAOLD was refreshed and the original value of PSAAOLD is saved in this field, so it can be recorded in the VRA.
668	(29C)	ADDRESS	4	LCCAOTOLD	If LCCAOTOLS = 1, PSATOLD was refreshed and the original value of PSATOLD is saved in this field, so it can be recorded in the VRA.
672	(2A0)	SIGNED	4	LCCAOSRBJ	SUSPENDED SERVICE REQUEST BLOCK (SRB) JOURNAL WORD USED BY SETLOCK MDC043
676	(2A4)	ADDRESS	4	LCCAODCPU	VIRTUAL ADDRESS OF LCCAO OF FAILING CPU

Table 579. Structure LCCAO (continued)

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
680	(2A8)	ADDRESS	4	LCCAORCPU	VIRTUAL ADDRESS OF LCCAO OF RECOVERING CPU
684	(2AC)	SIGNED	4	LCCAOCLC	ACR SAVE AREA FOR HIGHEST LOCK HELD INDICATOR
688	(2B0)	SIGNED	4	LCCAOLCR0	SAVE AREA FOR CONTROL REGISTER 0 WHEN OPENING A WINDOW
692	(2B4)	BITSTRING	1	LCCAOCRFL	ACR FLAGS
				LCCAOCRTRM	RTM ENTRY BIT
				LCCAACLMS	PROCESS SUSPENDED
				*	RESERVED
				LCCAOVARY	TELLS ACR THAT VARY IS IN PROGRESS MDC038
693	(2B5)	BITSTRING	1	LCCAOCREX	ACR ENTRY AND EXIT FLAGS
				LCCAOCREX	EXTERNAL ROUTINE
				LCCAOCRM	FINAL EXIT
				LCCAOCLRE	LOCK MANAGER EXIT
				LCCAOCLRT	FRR EXIT
				LCCAOCLRN	ENTRY TYPE = ACR
				LCCAOCLRM	ENTRY TYPE = ACLRM
				LCCAOCLRD	ENTRY TYPE = ACLDISP
				LCCAOCLRT	SYSTEM TERMINATION EXIT FLAG MDC037
				694	(2B6)	BITSTRING	1	LCCAOCLKFG	LOCK FLAG BYTE MDC005
*	RESERVED				
LCCAOCLKRD	THIS IS A LOCK MANAGER RELEASE DISABLED REQUEST MDC047				
*	RESERVED				
695	(2B7)	CHARACTER	1	*	RESERVED
696	(2B8)	CHARACTER	4	LCCAOBLEB	SPIN LOOP EXEMPTION BITS
696	(2B8)	BITSTRING	1	LCCAOBLE1	FLAG BYTE OWNERSHIP: RECONFIG
				LCCAOBLE1	SERIALIZATION: CS
				LCCAOBLE1	BLWSPIN IN CONTROL.
				LCCAOBLE1	LOADWAIT/RESTART PROCESSING IS PLACING THIS PROCESSOR INTO A RESTARTABLE WAIT STATE.
				LCCAOBLE1	IEATVTOD IN CONTROL.
				LCCAOBLE1	IEATESMR IN CONTROL.
				LCCAOBLE1	IGFPXMFA HAS STOPPED THIS CPU.
				LCCAOBLE1	IEEVCVSR IN CONTROL.
				LCCAOBLE1	ISNBRNCH IN CONTROL.
				LCCAOBLE1	IEAVBWT0 IN CONTROL.
697	(2B9)	BITSTRING	1	LCCAOBLE2	FLAG BYTE 2
				LCCAOBLE2	IEATESCH or IEATTFDH in control. OWNERSHIP: RECONFIG. SERIALIZATION: CS.
				LCCAOBLE2	XLS is in control. Ownership: XES. Serialization: Disablement.
				*	RESERVED
				LCCAOBLE2	RESERVED
698	(2BA)	CHARACTER	2	*	RESERVED
700	(2BC)	ADDRESS	4	LCCAOBLIP	POINTER TO SLIP/PER WORK AREA (MDC316)
704	(2C0)	CHARACTER	8	LCCAOBLTM	VALUE OF LCCAOBLTIM AT THE END OF A MEASUREMENT INTERVAL MDC001

IHALCCAO mapping

Table 579. Structure LCCAO (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
712	(2C8)	ADDRESS	4	LCCAOSSA2	REAL ADDRESS OF SUBSPACE ASTE CAUSING THE FAULT. OWNERSHIP: SUPERVISOR CONTROL
716	(2CC)	ADDRESS	4	LCCAOSSA5	SERIALIZATION: DISABLEMENT REAL ADDRESS OF SUBSPACE ASTE CAUSING THE RECURSIVE FAULT. OWNERSHIP: SUPERVISOR CONTROL
720	(2D0)	CHARACTER	8	LCCAO SRBF	SERIALIZATION: DISABLEMENT SRB FIELDS MDC009
720	(2D0)	SIGNED	2	LCCAOSAFN	CPU AFFINITY IF IN SRB MODE MDC003
722	(2D2)	CHARACTER	6	LCCAOPGTA	ASID/TCB IF IN SRB MODE MDC004
728	(2D8)	ADDRESS	4	LCCA00RMT	OLD SRB RMTR VALUE
		1... ..		LCCAO SSTD	SERIALIZATION: DISABLEMENT OWNERSHIP: SUPERVISOR CONTROL SRB SUSPEND WITH TOKEN DISABLED BIT
		.1... ..		LCCAO SSTA	SRB SUSPEND WITH TOKEN DISABLED BECAUSE SRB WAS ABENDED BY PURGEDQ PROCESSING.
		..1.		LCCAO SSTE	SRB SUSPEND WITH TOKEN DISABLED BECAUSE SRB IS REALLY A SUSPEND EXIT.
732	(2DC)	CHARACTER	4	LCCA0R2DC	RESERVED
736	(2E0)	ADDRESS	4	LCCAOIOWA	ADDRESS OF IOS WORKAREA (MDCXXX)@G860PVB
740	(2E4)	SIGNED	4	LCCAOIOR1	RESERVED FOR IOS (MDCXXX)
744	(2E8)	SIGNED	4	LCCAOIOR2	RESERVED FOR IOS (MDCXXX)
748	(2EC)	SIGNED	4	LCCAOIOR3	RESERVED FOR IOS (MDCXXX)
752	(2F0)	SIGNED	4	LCCA0R2F0	RESERVED
756	(2F4)	CHARACTER	64	LCCAOPCR1	PROGRAM FLIH RECURSION CONTROL REGISTER SAVEAREA 1
756	(2F4)	UNSIGNED	4	LCCAOP1C0	CONTROL REGISTER 0
760	(2F8)	UNSIGNED	4	LCCAOP1C1	CONTROL REGISTER 1
764	(2FC)	UNSIGNED	4	LCCAOP1C2	DUCT ORIGIN ADDRESS (CR2)
768	(300)	CHARACTER	8	LCCAOPXM1	PROGRAM FLIH CROSS MEMORY CONTROL REGISTER SAVEAREA 1 - MUST BE ON A DOUBLE WORD BOUNDARY.
768	(300)	UNSIGNED	4	LCCAOP1C3	CONTROL REGISTER 3
768	(300)	UNSIGNED	2	LCCAOPX1K	PROGRAM KEY MASK
770	(302)	UNSIGNED	2	LCCAOPX1S	SASN
772	(304)	UNSIGNED	4	LCCAOP1C4	CONTROL REGISTER 4
772	(304)	UNSIGNED	2	LCCAOPX1A	AX
774	(306)	UNSIGNED	2	LCCAOPX1P	PASN
776	(308)	UNSIGNED	4	LCCAOP1C5	ASTE REAL ADDRESS (CR5)
780	(30C)	UNSIGNED	4	LCCAOP1C6	CONTROL REGISTER 6
784	(310)	UNSIGNED	4	LCCAOP1C7	CONTROL REGISTER 7
788	(314)	UNSIGNED	4	LCCAOP1C8	CONTROL REGISTER 8
788	(314)	UNSIGNED	2	LCCAOPEX1	EAX VALUE (LH CR8)
790	(316)	UNSIGNED	2	*	SECOND HALF OF CR8
792	(318)	UNSIGNED	4	LCCAOP1C9	CONTROL REGISTER 9
796	(31C)	UNSIGNED	4	LCCAOP1CA	CONTROL REGISTER 10
800	(320)	UNSIGNED	4	LCCAOP1CB	CONTROL REGISTER 11

Table 579. Structure LCCAO (continued)

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
804	(324)	UNSIGNED	4	LCCAOP1CC	CONTROL REGISTER 12
808	(328)	UNSIGNED	4	LCCAOP1CD	CONTROL REGISTER 13
812	(32C)	UNSIGNED	4	LCCAOP1CE	CONTROL REGISTER 14
816	(330)	UNSIGNED	4	LCCAOP1CF	PROGRAM FLIH RECURSION LINKAGE STACK ADDRESS SAVEAREA 1 (CR15)
820	(334)	UNSIGNED	1	LCCAOWDT(16)	WEB Distribution table. 16 one-byte elements. INITIALIZED BY: IEAVINIT SERIALIZATION: Dispatcher Active OWNERSHIP: Supervisor Control
836	(344)	ADDRESS	4	LCCAOCWEB	Address of current workunit's WEB Address. SERIALIZATION: Disablement. Global Intersect required to change another processor's LCCAOCWEB field OWNERSHIP: Supervisor Control
840	(348)	ADDRESS	4	LCCAONWEB	Address of the next WEB to be dispatched on the current CPU. SERIALIZATION: Compare and Swap OWNERSHIP: Supervisor Control
844	(34C)	SIGNED	2	LCCAOWUQI	Dispatcher's current index into the WUQ Array (LCCAOWUQA), used during Dispatcher Work Search. SERIALIZATION: Dispatcher Active OWNERSHIP: Supervisor Control
846	(34E)	UNSIGNED	2	LCCAOWUQR	Dispatcher work queue rescans remaining count.
848	(350)	ADDRESS	4	LCCAOWUQM	Address of this processor's PWUQ. SERIALIZATION: Global Intersect OWNERSHIP: Supervisor Control
852	(354)	CHARACTER	8	LCCAOWFP	Processor Free WEB Pool and count. SERIALIZATION: Disablement for current processor's LCCAOWFP OWNERSHIP: Supervisor Control
852	(354)	ADDRESS	4	LCCAOWFP	Processor WEB Free Pool Header. SERIALIZATION: Disablement for current processor's LCCAOWFP. OWNERSHIP: Supervisor Control
856	(358)	SIGNED	4	LCCAOWPC	Processor WEB Free Pool element count. SERIALIZATION: Disablement for current processor's LCCAOWPC. OWNERSHIP: Supervisor Control
860	(35C)	CHARACTER	4	LCCAOR35C	Reserved
864	(360)	SIGNED	4	LCCAOSMQJ	GLOBAL SERVICE MANAGER QUEUE (GSMQ) AND LOCAL SERVICE MANAGER QUEUE (LSMQ) JOURNAL WORD USED BY DISPATCHER AND SCHEDULE MDC044
868	(364)	SIGNED	4	LCCAOSPLJ	GLOBAL SYSTEM PRIORITY LIST (GSPL) AND LOCAL SYSTEM PRIORITY LIST (LSPL) JOURNAL WORD USED BY DISPATCHER MDC045

IHALCCAO mapping

Table 579. Structure LCCAO (continued)

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
872	(368)	CHARACTER	4	LCCA0ETP	Unproductive task preemptions count due to timeslices (External Fliih Detected).
876	(36C)	CHARACTER	4	LCCA0ETPB	Unproductive task preemptions count Base. Previous value of LCCA0ETP
880	(370)	CHARACTER	12	LCCA0R370	RESERVED
892	(37C)	ADDRESS	4	LCCA0RWQL	Recovery word for WebQLock address. Ownership: Supervisor Control Serialization: Disablement
896	(380)	SIGNED	4	LCCA0SGPR(16)	SVC FLIH GENERAL REGISTER SAVE AREA (MDC301)
960	(3C0)	CHARACTER	1	LCCA0DS0F	DISPATCHER DIAGNOSTIC EXIT FLAG BYTE
		1... ..		LCCA0DSE1	DISPATCHER UNLOCKED TASK DISPATCH DIAGNOSTIC EXIT ROUTED CONTROL
		.1.. ..		LCCA0DSE2	DISPATCHER LOCKED TASK DISPATCH DIAGNOSTIC EXIT ROUTED CONTROL
		..1. ..		LCCA0DSE3	DISPATCHER SRB DISPATCH DIAGNOSTIC EXIT ROUTED CONTROL
		...1 ..		LCCA0DSE4	DISPATCHER SSRB DISPATCH DIAGNOSTIC EXIT ROUTED CONTROL
		.... 1..		LCCA0DSE5	DISPATCHER WAIT TASK DISPATCH DIAGNOSTIC EXIT ROUTED CONTROL
961	(3C1)	BITSTRING	1	LCCA0FPFL	FP Flags
		111.		*	Reserved
		...1		LCCA0BFP	Additional FP status is being saved.
		.... 111.		*	Reserved
		.... ...1		LCCA0BFPH	BFP hardware is present. This bit is a duplicate of CVTBFPH so that dat-off reference can be made. It is set only at IPL and when a processor is brought online
962	(3C2)	CHARACTER	2	LCCA0PERC	PROGRAM EVENT RECORDING CODE (MDC326)
964	(3C4)	ADDRESS	4	LCCA0PERA	PER ADDRESS (MDC327)
968	(3C8)	ADDRESS	4	LCCA0SDUV	SRB RELATED DUCT VIRTUAL ADDRESS
972	(3CC)	ADDRESS	4	LCCA0SDUR	SRB RELATED DUCT REAL ADDRESS
976	(3D0)	ADDRESS	4	LCCA0IDUV	INTERRUPT HANDLER DUCT VIRTUAL ADDRESS
980	(3D4)	ADDRESS	4	LCCA0IDUR	INTERRUPT HANDLER DUCT REAL ADDRESS
984	(3D8)	ADDRESS	4	LCCA0SCW1	SUPERVISOR CONTROL WORK AREA 1 USED BY VARIOUS SUPERVISOR ROUTINES PRESERVED ACROSS CALLS TO IEAVECMS OWNERSHIP: SUPERVISOR CONTROL SERIALIZATION: DISABLEMENT

Table 579. Structure LCCAO (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
988	(3DC)	ADDRESS	4	LCCAOSCW2	SUPERVISOR CONTROL WORK AREA 2 USED BY VARIOUS SUPERVISOR ROUTINES PRESERVED ACROSS CALLS TO IEAVECMS OWNERSHIP: SUPERVISOR CONTROL
992	(3E0)	CHARACTER	8	LCCAOSXMR	SERIALIZATION: DISABLEMENT SVC FLIH CROSS MEMORY CONTROL REGISTER SAVE AREA (MDC338)
1000	(3E8)	CHARACTER	72	LCCAOLKG1	LOCK MANAGER REGISTER SAVE AREA (MDC338)
1072	(430)	CHARACTER	64	LCCAOLKG2	LOCK MANAGER SUSPENSION REGISTER SAVE AREA (MDC338)
1136	(470)	CHARACTER	8	LCCA0ELKP	LOCK MANAGER PSW SAVE AREA (MDC338)
1144	(478)	CHARACTER	72	LCCA0STG1	STATUS REGISTER SAVE AREA (MDC338)
1216	(4C0)	CHARACTER	20	LCCA0SCSA	PCLINK SAVE AREA FOR REGISTERS 8-12 (CALLER'S REGISTERS) (MDC341)
1236	(4D4)	CHARACTER	52	LCCA0SREG	PCLINK REGISTER SAVE AREA (MDC341)
1288	(508)	CHARACTER	1	LCCA0SMK	PCLINK SYSTEM MASK (MDC341)
1289	(509)	CHARACTER	1	LCCA0RSMK	RESUME TCTL SYSTEM MASK (MDC340)
1290	(50A)	CHARACTER	1	LCCA0PGMM	PCLINK PROGRAM MASK (MDC341)
1291	(50B)	BITSTRING	1	LCCA0TCFB	RESUME/TCTL RECOVERY FOOTPRINT BYTE (MDC346)
		1...		LCCA0TCTL	TCTL IN CONTROL AT ABEND (MDC346)
		.1...		LCCA0TCAC	TCBACTIV AND TCBS3A SET (MDC346)
1292	(50C)	CHARACTER	40	LCCA0RSM	RESUME REGISTER SAVE AREA FOR REGISTERS 11-4 (MDC338)
1292	(50C)	CHARACTER	28	LCCA0RES1	RESUME REGISTER SAVE AREA REG 11-REG 1 (MDC338)
1320	(528)	CHARACTER	12	LCCA0RES2	RESUME REGISTER SAVE AREA REG 2 - REG 4 (MDC338)
1332	(534)	CHARACTER	4	LCCA0SPSW	SYSTEM MASK SAVE AREA, USED BY MACHINE CHECK HANDLER
1336	(538)	ADDRESS	4	LCCA0SRGS	RETURN ADDRESS SAVE AREA, USED BY MACHINE CHECK HANDLER
1340	(53C)	ADDRESS	4	LCCA0PRMW	Address of the WEB on whose behalf a priority promotion was initiaed. SERIALIZATION: Dispatcher Active OWNERSHIP: Supervisor Control
1344	(540)	ADDRESS	4	LCCA0PTCB	ADDRESS OF THE TCB ON WHOSE BEHALF A PRIORITY PROMOTION WAS INITIATED. (MDC347)
1348	(544)	ADDRESS	4	LCCA0PRTN	DISPATCHER RETURN POINT IF NO DISPATCHABLE WORK IS FOUND IN A PROMOTED ADDRESS SPACE. (MDC347)
1352	(548)	CHARACTER	8	LCCA0CDXM	CALLDISP XMEM SAVE AREA (MDC338)
1360	(550)	CHARACTER	8	LCCA0SRXM	CROSS MEMORY SAVE AREA FOR STOP/RESET AND SRB STATUS SAVE/RESTORE/MODIFY ROUTINES.

IHALCCAO mapping

Table 579. Structure LCCAO (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1360	(550)	SIGNED	4	LCCAOSRSA	STOP/RESET IAC SAVE AREA.
1364	(554)	SIGNED	4	LCCAOSRTK	HOLDS SSARTO TOKEN FOR STOP/RESET.
1368	(558)	SIGNED	4	LCCAOCR8W	WORK AREA FOR CTL REG 8
1372	(55C)	CHARACTER	12	LCCAOIOXM	IOS CROSS MEMORY SAVE AREA (MDC339)
1372	(55C)	SIGNED	4	LCCAIOIOSS	IOS PSW S-BIT REGISTER SAVE AREA (MDC339)
1376	(560)	SIGNED	4	LCCAIOIOC3	IOS CONTROL REGISTER 3 SAVE AREA (MDC339)
1380	(564)	SIGNED	4	LCCAIOIOC4	IOS CONTROL REGISTER 4 SAVE AREA (MDC339)
1384	(568)	SIGNED	4	LCCA0BBRC	BIND BREAK COMMUNICATION BUFFER USED BY IEAVEBBR (MDC344)
1388	(56C)	CHARACTER	64	LCCA0CDSV	CALLDISP SERVICE ROUTINE REGISTER SAVE AREA FOR REGISTERS 0-15 (MDC344)
1388	(56C)	CHARACTER	4	LCCA0CDS0	CALLDISP REGISTER 0 SAVE AREA (MDC344)
1392	(570)	CHARACTER	4	LCCA0CDS1	CALLDISP REGISTER 1 SAVE AREA (MDC344)
1396	(574)	CHARACTER	4	LCCA0CDS2	CALLDISP REGISTER 2 SAVE AREA (MDC344)
1400	(578)	CHARACTER	4	LCCA0CDS3	CALLDISP REGISTER 3 SAVE AREA (MDC344)
1404	(57C)	CHARACTER	4	LCCA0CDS4	CALLDISP REGISTER 4 SAVE AREA (MDC344)
1408	(580)	CHARACTER	4	LCCA0CDS5	CALLDISP REGISTER 5 SAVE AREA (MDC344)
1412	(584)	CHARACTER	4	LCCA0CDS6	CALLDISP REGISTER 6 SAVE AREA (MDC344)
1416	(588)	CHARACTER	4	LCCA0CDS7	CALLDISP REGISTER 7 SAVE AREA (MDC344)
1420	(58C)	CHARACTER	4	LCCA0CDS8	CALLDISP REGISTER 8 SAVE AREA (MDC344)
1424	(590)	CHARACTER	4	LCCA0CDS9	CALLDISP REGISTER 9 SAVE AREA (MDC344)
1428	(594)	CHARACTER	4	LCCA0CDSA	CALLDISP REGISTER 10 SAVE AREA (MDC344)
1432	(598)	CHARACTER	4	LCCA0CDSB	CALLDISP REGISTER 11 SAVE AREA (MDC344)
1436	(59C)	CHARACTER	4	LCCA0CDSC	CALLDISP REGISTER 12 SAVE AREA (MDC344)
1440	(5A0)	CHARACTER	4	LCCA0CDS D	CALLDISP REGISTER 13 SAVE AREA (MDC344)
1444	(5A4)	CHARACTER	4	LCCA0CDSE	CALLDISP REGISTER 14 SAVE AREA (MDC344)
1448	(5A8)	CHARACTER	4	LCCA0CDSF	CALLDISP REGISTER 15 SAVE AREA (MDC344)
1452	(5AC)	CHARACTER	64	LCCA0SLSA	LCCAO SINGLE LEVEL SAVE AREA USED BY MACHINE CHECK HANDLER (MDC344)

Table 579. Structure LCCAO (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1516	(5EC)	ADDRESS	4	LCCAORWEB	Address of WEB expected to be locked by this CPU on entry to global recovery
		1...		LCCAORWLK	Indicator that WEB in LCCAORWEB is not validly locked but the AWQ lock for the WEB can be held by this CPU
1520	(5F0)	CHARACTER	40	LCCAOPOST	POST SAVE AREA FOR SRB POOL MANAGER
1560	(618)	ADDRESS	4	LCCAOALOV	SRB RELATED AL VIRTUAL ADDRESS OR ZERO (ZERO MEANS THE NULL OR BASIC ACCESS LIST)
1564	(61C)	ADDRESS	4	LCCAOPSB2	ASCB ADDRESS WHERE PAGE/SEGMENT FAULT OCCURRED
1568	(620)	ADDRESS	4	LCCAOLSSD	LSSD ADDRESS FOR THE PROCESSOR RELATED SRB LINKAGE STACK
1572	(624)	ADDRESS	4	LCCAOLSDP	ADDRESS OF THE FIRST LSED IN THE PROCESSOR RELATED SRB LINKAGE STACK
1576	(628)	CHARACTER	8	LCCAOXTIM	EXTERNAL FLIH TIMER SAVE AREA
1584	(630)	CHARACTER	64	LCCAOPAR3	PROGRAM FLIH RECURSION MC ACCESS REGISTER SAVEAREA 3
1584	(630)	UNSIGNED	4	LCCAOP3A0	ACCESS REGISTER 0
1588	(634)	UNSIGNED	4	LCCAOP3A1	ACCESS REGISTER 1
1592	(638)	UNSIGNED	4	LCCAOP3A2	ACCESS REGISTER 2
1596	(63C)	UNSIGNED	4	LCCAOP3A3	ACCESS REGISTER 3
1600	(640)	UNSIGNED	4	LCCAOP3A4	ACCESS REGISTER 4
1604	(644)	UNSIGNED	4	LCCAOP3A5	ACCESS REGISTER 5
1608	(648)	UNSIGNED	4	LCCAOP3A6	ACCESS REGISTER 6
1612	(64C)	UNSIGNED	4	LCCAOP3A7	ACCESS REGISTER 7
1616	(650)	UNSIGNED	4	LCCAOP3A8	ACCESS REGISTER 8
1620	(654)	UNSIGNED	4	LCCAOP3A9	ACCESS REGISTER 9
1624	(658)	UNSIGNED	4	LCCAOP3AA	ACCESS REGISTER 10
1628	(65C)	UNSIGNED	4	LCCAOP3AB	ACCESS REGISTER 11
1632	(660)	UNSIGNED	4	LCCAOP3AC	ACCESS REGISTER 12
1636	(664)	UNSIGNED	4	LCCAOP3AD	ACCESS REGISTER 13
1640	(668)	UNSIGNED	4	LCCAOP3AE	ACCESS REGISTER 14
1644	(66C)	UNSIGNED	4	LCCAOP3AF	ACCESS REGISTER 15
1648	(670)	CHARACTER	64	LCCAOEMS0	IEAVWUQA REGISTER SAVE AREA
1712	(6B0)	CHARACTER	8	LCCAOPPS1	PROGRAM FLIH RECURSION PSW SAVE AREA 1
1720	(6B8)	CHARACTER	4	LCCAOPIC1	PROGRAM FLIH RECURSION ILC AND INTERRUPT CODE SAVE AREA 1
1724	(6BC)	CHARACTER	4	LCCAOPT1	PROGRAM FLIH RECURSION TRANSLATION EXCEPTION ADDRESS SAVE AREA 1
1728	(6C0)	CHARACTER	64	LCCAOGR4	PROGRAM FLIH REGISTER SAVE AREA 4
1792	(700)	CHARACTER	72	LCCAOPLI	PROGRAM FLIH SAVE AREA TO PASS TO SLIH ROUTINES
1864	(748)	ADDRESS	4	LCCAOLSHD	LSSD ADDRESS FOR THE INTERRUPT HANDLER LINKAGE STACK
1868	(74C)	ADDRESS	4	LCCAOLSHP	ADDRESS OF THE FIRST LSED IN THE INTERRUPT HANDLER LINKAGE STACK

IHALCCAO mapping

Table 579. Structure LCCAO (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1872	(750)	CHARACTER	8	LCCAOPPS3	PROGRAM FLIH RECURSION PSW SAVE AREA 3
1880	(758)	CHARACTER	4	LCCAOPIC3	PROGRAM FLIH RECURSION ILC AND INTERRUPT CODE SAVE AREA 3
1884	(75C)	CHARACTER	4	LCCAOPTE3	PROGRAM FLIH RECURSION TRANSLATION EXCEPTION ADDRESS SAVE AREA 3
1888	(760)	CHARACTER	64	LCCAOPAR1	PROGRAM FLIH RECURSION ACCESS REGISTER SAVEAREA 1
1888	(760)	UNSIGNED	4	LCCAOP1A0	ACCESS REGISTER 0
1892	(764)	UNSIGNED	4	LCCAOP1A1	ACCESS REGISTER 1
1896	(768)	UNSIGNED	4	LCCAOP1A2	ACCESS REGISTER 2
1900	(76C)	UNSIGNED	4	LCCAOP1A3	ACCESS REGISTER 3
1904	(770)	UNSIGNED	4	LCCAOP1A4	ACCESS REGISTER 4
1908	(774)	UNSIGNED	4	LCCAOP1A5	ACCESS REGISTER 5
1912	(778)	UNSIGNED	4	LCCAOP1A6	ACCESS REGISTER 6
1916	(77C)	UNSIGNED	4	LCCAOP1A7	ACCESS REGISTER 7
1920	(780)	UNSIGNED	4	LCCAOP1A8	ACCESS REGISTER 8
1924	(784)	UNSIGNED	4	LCCAOP1A9	ACCESS REGISTER 9
1928	(788)	UNSIGNED	4	LCCAOP1AA	ACCESS REGISTER 10
1932	(78C)	UNSIGNED	4	LCCAOP1AB	ACCESS REGISTER 11
1936	(790)	UNSIGNED	4	LCCAOP1AC	ACCESS REGISTER 12
1940	(794)	UNSIGNED	4	LCCAOP1AD	ACCESS REGISTER 13
1944	(798)	UNSIGNED	4	LCCAOP1AE	ACCESS REGISTER 14
1948	(79C)	UNSIGNED	4	LCCAOP1AF	ACCESS REGISTER 15
1952	(7A0)	CHARACTER	64	LCCAOPAR4	PROGRAM FLIH ACCESS REGISTER SAVEAREA 4
1952	(7A0)	UNSIGNED	4	LCCAOP4A0	ACCESS REGISTER 0
1956	(7A4)	UNSIGNED	4	LCCAOP4A1	ACCESS REGISTER 1
1960	(7A8)	UNSIGNED	4	LCCAOP4A2	ACCESS REGISTER 2
1964	(7AC)	UNSIGNED	4	LCCAOP4A3	ACCESS REGISTER 3
1968	(7B0)	UNSIGNED	4	LCCAOP4A4	ACCESS REGISTER 4
1972	(7B4)	UNSIGNED	4	LCCAOP4A5	ACCESS REGISTER 5
1976	(7B8)	UNSIGNED	4	LCCAOP4A6	ACCESS REGISTER 6
1980	(7BC)	UNSIGNED	4	LCCAOP4A7	ACCESS REGISTER 7
1984	(7C0)	UNSIGNED	4	LCCAOP4A8	ACCESS REGISTER 8
1988	(7C4)	UNSIGNED	4	LCCAOP4A9	ACCESS REGISTER 9
1992	(7C8)	UNSIGNED	4	LCCAOP4AA	ACCESS REGISTER 10
1996	(7CC)	UNSIGNED	4	LCCAOP4AB	ACCESS REGISTER 11
2000	(7D0)	UNSIGNED	4	LCCAOP4AC	ACCESS REGISTER 12
2004	(7D4)	UNSIGNED	4	LCCAOP4AD	ACCESS REGISTER 13
2008	(7D8)	UNSIGNED	4	LCCAOP4AE	ACCESS REGISTER 14
2012	(7DC)	UNSIGNED	4	LCCAOP4AF	ACCESS REGISTER 15
2016	(7E0)	CHARACTER	64	LCCAORARS	RESTART FLIH ACCESS REGISTER SAVEAREA
2016	(7E0)	UNSIGNED	4	LCCAORAR0	ACCESS REGISTER 0
2020	(7E4)	UNSIGNED	4	LCCAORAR1	ACCESS REGISTER 1
2024	(7E8)	UNSIGNED	4	LCCAORAR2	ACCESS REGISTER 2
2028	(7EC)	UNSIGNED	4	LCCAORAR3	ACCESS REGISTER 3
2032	(7F0)	UNSIGNED	4	LCCAORAR4	ACCESS REGISTER 4
2036	(7F4)	UNSIGNED	4	LCCAORAR5	ACCESS REGISTER 5
2040	(7F8)	UNSIGNED	4	LCCAORAR6	ACCESS REGISTER 6
2044	(7FC)	UNSIGNED	4	LCCAORAR7	ACCESS REGISTER 7

Table 579. Structure LCCAO (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2048	(800)	UNSIGNED	4	LCCAORAR8	ACCESS REGISTER 8
2052	(804)	UNSIGNED	4	LCCAORAR9	ACCESS REGISTER 9
2056	(808)	UNSIGNED	4	LCCAORARA	ACCESS REGISTER 10
2060	(80C)	UNSIGNED	4	LCCAORARB	ACCESS REGISTER 11
2064	(810)	UNSIGNED	4	LCCAORARC	ACCESS REGISTER 12
2068	(814)	UNSIGNED	4	LCCAORARD	ACCESS REGISTER 13
2072	(818)	UNSIGNED	4	LCCAORARE	ACCESS REGISTER 14
2076	(81C)	UNSIGNED	4	LCCAORARF	ACCESS REGISTER 15
2080	(820)	CHARACTER	2	LCCAO820	RESERVED
2082	(822)	SIGNED	2	LCCAO0ILC	Original ILC. Only valid when LCCAOFPPE is on
2084	(824)	CHARACTER	64	LCCAOPCR3	PROGRAM FLIH RECURSION MC CONTROL REGISTER SAVEAREA 3
2084	(824)	UNSIGNED	4	LCCAOP3C0	CONTROL REGISTER 0
2088	(828)	UNSIGNED	4	LCCAOP3C1	CONTROL REGISTER 1
2092	(82C)	UNSIGNED	4	LCCAOP3C2	DUCT ORIGIN ADDRESS (CR2)
2096	(830)	CHARACTER	8	LCCAOPXM3	PROGRAM FLIH CROSS MEMORY CONTROL REGISTER SAVEAREA 3 - MUST BE ON A DOUBLE WORD BOUNDARY.
2096	(830)	UNSIGNED	4	LCCAOP3C3	CONTROL REGISTER 3
2096	(830)	UNSIGNED	2	LCCAOPX3K	PROGRAM KEY MASK
2098	(832)	UNSIGNED	2	LCCAOPX3S	SASN
2100	(834)	UNSIGNED	4	LCCAOP3C4	CONTROL REGISTER 4
2100	(834)	UNSIGNED	2	LCCAOPX3A	AX
2102	(836)	UNSIGNED	2	LCCAOPX3P	PASN
2104	(838)	UNSIGNED	4	LCCAOP3C5	ASTE REAL ADDRESS
2108	(83C)	UNSIGNED	4	LCCAOP3C6	CONTROL REGISTER 6
2112	(840)	UNSIGNED	4	LCCAOP3C7	CONTROL REGISTER 7
2116	(844)	UNSIGNED	4	LCCAOP3C8	CONTROL REGISTER 8
2116	(844)	UNSIGNED	2	LCCAOPEX3	EAX VALUE (LH CR8)
2118	(846)	UNSIGNED	2	*	SECOND HALF OF CR8
2120	(848)	UNSIGNED	4	LCCAOP3C9	CONTROL REGISTER 9
2124	(84C)	UNSIGNED	4	LCCAOP3CA	CONTROL REGISTER 10
2128	(850)	UNSIGNED	4	LCCAOP3CB	CONTROL REGISTER 11
2132	(854)	UNSIGNED	4	LCCAOP3CC	CONTROL REGISTER 12
2136	(858)	UNSIGNED	4	LCCAOP3CD	CONTROL REGISTER 13
2140	(85C)	UNSIGNED	4	LCCAOP3CE	CONTROL REGISTER 14
2144	(860)	UNSIGNED	4	LCCAOP3CF	PROGRAM FLIH RECURSION LINKAGE STACK ADDRESS SAVEAREA 3 (CR15)
2148	(864)	CHARACTER	64	LCCAOPCR4	PROGRAM FLIH CONTROL REGISTER SAVEAREA 4
2148	(864)	UNSIGNED	4	LCCAOP4C0	CONTROL REGISTER 0
2152	(868)	UNSIGNED	4	LCCAOP4C1	CONTROL REGISTER 1
2156	(86C)	UNSIGNED	4	LCCAOP4C2	DUCT ORIGIN ADDRESS (CR2)
2160	(870)	CHARACTER	8	LCCAOPXM4	PROGRAM FLIH CROSS MEMORY CONTROL REGISTER SAVEAREA 4 - MUST BE ON A DOUBLE WORD BOUNDARY.
2160	(870)	UNSIGNED	4	LCCAOP4C3	CONTROL REGISTER 3
2160	(870)	UNSIGNED	2	LCCAOPX4K	PROGRAM KEY MASK
2162	(872)	UNSIGNED	2	LCCAOPX4S	SASN
2164	(874)	UNSIGNED	4	LCCAOP4C4	CONTROL REGISTER 4

IHALCCAO mapping

Table 579. Structure LCCAO (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2164	(874)	UNSIGNED	2	LCCAOPX4A	AX
2166	(876)	UNSIGNED	2	LCCAOPX4P	PASN
2168	(878)	UNSIGNED	4	LCCAOP4C5	ASTE REAL ADDRESS
2172	(87C)	UNSIGNED	4	LCCAOP4C6	CONTROL REGISTER 6
2176	(880)	UNSIGNED	4	LCCAOP4C7	CONTROL REGISTER 7
2180	(884)	UNSIGNED	4	LCCAOP4C8	CONTROL REGISTER 8
2180	(884)	UNSIGNED	2	LCCAOPEX4	EAX VALUE (LH CR8)
2182	(886)	UNSIGNED	2	*	SECOND HALF OF CR8
2184	(888)	UNSIGNED	4	LCCAOP4C9	CONTROL REGISTER 9
2188	(88C)	UNSIGNED	4	LCCAOP4CA	CONTROL REGISTER 10
2192	(890)	UNSIGNED	4	LCCAOP4CB	CONTROL REGISTER 11
2196	(894)	UNSIGNED	4	LCCAOP4CC	CONTROL REGISTER 12
2200	(898)	UNSIGNED	4	LCCAOP4CD	CONTROL REGISTER 13
2204	(89C)	UNSIGNED	4	LCCAOP4CE	CONTROL REGISTER 14
2208	(8A0)	UNSIGNED	4	LCCAOP4CF	PROGRAM FLIH RECURSION LINKAGE STACK ADDRESS SAVEAREA 4 (CR15)
2212	(8A4)	CHARACTER	64	LCCAORCRS	RESTART FLIH CONTROL REGISTER SAVEAREA
2212	(8A4)	UNSIGNED	4	LCCAORCR0	CONTROL REGISTER 0
2216	(8A8)	UNSIGNED	4	LCCAORCR1	CONTROL REGISTER 1
2220	(8AC)	ADDRESS	4	LCCAORCR2	DUCT ORIGIN ADDRESS (CR2)
2224	(8B0)	CHARACTER	8	LCCAORXMR	RESTART FLIH CROSS MEMORY CONTROL REGISTER SAVEAREA - MUST BE ON A DOUBLE WORD BOUNDARY.
2224	(8B0)	UNSIGNED	4	LCCAORCR3	CONTROL REGISTER 3
2224	(8B0)	UNSIGNED	2	LCCAORXRK	PROGRAM KEY MASK
2226	(8B2)	UNSIGNED	2	LCCAORXRS	SASN
2228	(8B4)	UNSIGNED	4	LCCAORCR4	CONTROL REGISTER 4
2228	(8B4)	UNSIGNED	2	LCCAORXRA	AX
2230	(8B6)	UNSIGNED	2	LCCAORXRP	PASN
2232	(8B8)	UNSIGNED	4	LCCAORCR5	CONTROL REGISTER 5
2236	(8BC)	UNSIGNED	4	LCCAORCR6	CONTROL REGISTER 6
2240	(8C0)	UNSIGNED	4	LCCAORCR7	CONTROL REGISTER 7
2244	(8C4)	UNSIGNED	4	LCCAORCR8	CONTROL REGISTER 8
2244	(8C4)	UNSIGNED	2	LCCAOREAX	EAX VALUE (LH CR8)
2246	(8C6)	UNSIGNED	2	*	SECOND HALF OF CR8
2248	(8C8)	UNSIGNED	4	LCCAORCR9	CONTROL REGISTER 9
2252	(8CC)	UNSIGNED	4	LCCAORCRA	CONTROL REGISTER 10
2256	(8D0)	UNSIGNED	4	LCCAORCRB	CONTROL REGISTER 11
2260	(8D4)	UNSIGNED	4	LCCAORCRC	CONTROL REGISTER 12
2264	(8D8)	UNSIGNED	4	LCCAORCRD	CONTROL REGISTER 13
2268	(8DC)	UNSIGNED	4	LCCAORCRE	CONTROL REGISTER 14
2272	(8E0)	ADDRESS	4	LCCAORCRF	LINKAGE STACK ENTRY ADDRESS (CR15)
2276	(8E4)	CHARACTER	64	LCCAOPGR5	PROGRAM FLIH RECURSION REGISTER SAVE AREA 5
2340	(924)	ADDRESS	4	LCCAOPSB5	ASCB ADDRESS WHERE PAGE/SEGMENT FAULT OCCURRED
2344	(928)	CHARACTER	64	LCCAOPAR5	PROGRAM FLIH RECURSION ACCESS REGISTER SAVEAREA 5
2344	(928)	UNSIGNED	4	LCCAOP5A0	ACCESS REGISTER 0
2348	(92C)	UNSIGNED	4	LCCAOP5A1	ACCESS REGISTER 1
2352	(930)	UNSIGNED	4	LCCAOP5A2	ACCESS REGISTER 2

Table 579. Structure LCCAO (continued)

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
2356	(934)	UNSIGNED	4	LCCAOP5A3	ACCESS REGISTER 3
2360	(938)	UNSIGNED	4	LCCAOP5A4	ACCESS REGISTER 4
2364	(93C)	UNSIGNED	4	LCCAOP5A5	ACCESS REGISTER 5
2368	(940)	UNSIGNED	4	LCCAOP5A6	ACCESS REGISTER 6
2372	(944)	UNSIGNED	4	LCCAOP5A7	ACCESS REGISTER 7
2376	(948)	UNSIGNED	4	LCCAOP5A8	ACCESS REGISTER 8
2380	(94C)	UNSIGNED	4	LCCAOP5A9	ACCESS REGISTER 9
2384	(950)	UNSIGNED	4	LCCAOP5AA	ACCESS REGISTER 10
2388	(954)	UNSIGNED	4	LCCAOP5AB	ACCESS REGISTER 11
2392	(958)	UNSIGNED	4	LCCAOP5AC	ACCESS REGISTER 12
2396	(95C)	UNSIGNED	4	LCCAOP5AD	ACCESS REGISTER 13
2400	(960)	UNSIGNED	4	LCCAOP5AE	ACCESS REGISTER 14
2404	(964)	UNSIGNED	4	LCCAOP5AF	ACCESS REGISTER 15
2408	(968)	UNSIGNED	1	LCCAOPT5	PROGRAM FLIH RECURSION TEA AR NUMBER SAVEAREA 5
2409	(969)	UNSIGNED	1	LCCAOPT5V	RECURSIVE PAGE FAULT MAINLINE FUNCTION VALUE SAVEAREA
2410	(96A)	UNSIGNED	2	LCCAOPT5P	PASN value set by previous CMSET,SET,DIE=YES,... Used by program FLIH to determine whether a SSE program interrupt is valid.
2412	(96C)	CHARACTER	64	LCCAOPT5C	PROGRAM FLIH RECURSION CONTROL REGISTER SAVEAREA 5
2412	(96C)	UNSIGNED	4	LCCAOP5C0	CONTROL REGISTER 0
2416	(970)	UNSIGNED	4	LCCAOP5C1	CONTROL REGISTER 1
2420	(974)	ADDRESS	4	LCCAOP5C2	DUCT ORIGIN ADDRESS (CR2)
2424	(978)	CHARACTER	8	LCCAOP5C3	PROGRAM FLIH CROSS MEMORY CONTROL REGISTER SAVEAREA 5 - MUST BE ON A DOUBLE WORD BOUNDARY.
2424	(978)	UNSIGNED	4	LCCAOP5C4	CONTROL REGISTER 3
2424	(978)	UNSIGNED	2	LCCAOP5C5	PROGRAM KEY MASK
2426	(97A)	UNSIGNED	2	LCCAOP5C6	SASN
2428	(97C)	UNSIGNED	4	LCCAOP5C7	CONTROL REGISTER 4
2428	(97C)	UNSIGNED	2	LCCAOP5C8	AX
2430	(97E)	UNSIGNED	2	LCCAOP5C9	PASN
2432	(980)	UNSIGNED	4	LCCAOP5CA	CONTROL REGISTER 5
2436	(984)	UNSIGNED	4	LCCAOP5CB	CONTROL REGISTER 6
2440	(988)	UNSIGNED	4	LCCAOP5CC	CONTROL REGISTER 7
2444	(98C)	UNSIGNED	4	LCCAOP5CD	CONTROL REGISTER 8
2444	(98C)	UNSIGNED	2	LCCAOP5CE	EAX VALUE (LH CR8)
2446	(98E)	UNSIGNED	2	*	SECOND HALF OF CR8
2448	(990)	UNSIGNED	4	LCCAOP5CF	CONTROL REGISTER 9
2452	(994)	UNSIGNED	4	LCCAOP5D0	CONTROL REGISTER 10
2456	(998)	UNSIGNED	4	LCCAOP5D1	CONTROL REGISTER 11
2460	(99C)	UNSIGNED	4	LCCAOP5D2	CONTROL REGISTER 12
2464	(9A0)	UNSIGNED	4	LCCAOP5D3	CONTROL REGISTER 13
2468	(9A4)	UNSIGNED	4	LCCAOP5D4	CONTROL REGISTER 14
2472	(9A8)	ADDRESS	4	LCCAOP5D5	LINKAGE STACK ENTRY ADDRESS (CR15)

IHALCCAO mapping

Table 579. Structure LCCAO (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2476	(9AC)	ADDRESS	4	LCCA0DSA5	REAL ADDRESS OF THE DATA SPACE ASTE CAUSING THE RECURSIVE FAULT.
2480	(9B0)	CHARACTER	8	LCCAOPPS5	PROGRAM FLIH RECURSION PSW SA 5
2488	(9B8)	CHARACTER	4	LCCAOPIC5	PROGRAM FLIH RECURSION ILC AND INTERRUPT CODE SAVE AREA 5
2492	(9BC)	CHARACTER	4	LCCAOPTE5	PROGRAM FLIH RECURSION TRANSLATION EXCEPTION ADDRESS SAVE AREA 5
2492	(9BC)	CHARACTER	3	*	FIRST THREE BYTES OF ADDRESS
2495	(9BF)	BITSTRING	1	LCCAOPSTL	LAST BYTE OF LCCAOPTE5
		1111 11..		*	
		.... ..11		LCCAOPST5	STD FIELD - LAST TWO BITS OF LCCAOPTE5 '00' - PRIMARY STD USED .. '01' - STD WAS AR QUALIFIED .. '10' - SECONDARY STD USED .. '11' - HOME STD USED.
2496	(9C0)	CHARACTER	8	LCCAOTTSC	Workunit Time Slice Interval. Ownership: SRM Serialization: SRM Lock.
2496	(9C0)	BITSTRING	4	LCCAOTTS1	High Order 32 bits of LCCAOTTSC. Ownership: SRM Serialization: SRM Lock.
2500	(9C4)	BITSTRING	4	LCCAOTTS2	Low Order 32 bits of LCCAOTTSC. Ownership: SRM Serialization: SRM Lock.
2504	(9C8)	CHARACTER	8	LCCAOWTSC	WAIT TASK TIME SLICE INTERVAL
2504	(9C8)	BITSTRING	4	LCCAOWTS1	HIGH ORDER 32 BITS
2508	(9CC)	BITSTRING	4	LCCAOWTS2	LOW ORDER 32 BITS
2512	(9D0)	UNSIGNED	4	LCCAOTP	Workunit Preemption Count- number of workunit time slice expirations. Ownership: Supervisor Control. Serialization: Disablement on current processor.
2516	(9D4)	UNSIGNED	4	LCCAOTPU	Unproductive Workunit Preemption Count - number of workunit time slice expirations that were not needed. Ownership: Supervisor Control. Serialization: Disablement on current processor.
2520	(9D8)	UNSIGNED	4	LCCAOWP	WAIT PREEMPTION COUNT - NUMBER OF WAIT TASK TIME SLICE EXPIRATIONS
2524	(9DC)	UNSIGNED	4	LCCAOWPU	UNPRODUCTIVE WAIT PREEMPTION COUNT - NUMBER OF WAIT TASK TIME SLICE EXPIRATIONS THAT WERE NOT NEEDED
2528	(9E0)	UNSIGNED	4	LCCAOTPB	Workunit Preemption Count Base - previous value of LCCAOTP. Ownership: SRM Serialization: SRM Lock.

Table 579. Structure LCCAO (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
2532	(9E4)	UNSIGNED		4	LCCAOTPU	Unproductive Workunit Preemption Count Base - previous value of LCCAOTPU. Ownership: SRM Serialization: SRM Lock.
2536	(9E8)	UNSIGNED		4	LCCAOWPB	WAIT PREEMPTION COUNT BASE - PREVIOUS VALUE OF LCCAOWP
2540	(9EC)	UNSIGNED		4	LCCAOWPUB	UNPRODUCTIVE WAIT PREEMPTION COUNT BASE - PREVIOUS VALUE OF LCCAOWPU
2544	(9F0)	SIGNED		2	LCCA00ID	Active ASID or Enclave ID when the workunit time slice expired. LCCA00ID is an Enclave ID.
			1... ..		LCCA0ENID	
2546	(9F2)	UNSIGNED		1	LCCAOMTSC	Maximum number of dispatchs per task
2547	(9F3)	UNSIGNED		1	LCCA0CTSC	Number of consecutive dispatches remaining for this task
2548	(9F4)	UNSIGNED		4	LCCA0PPRI	Priority of the active work unit when Time Slice Expired. SERIALIZATION: Disablement OWNERSHIP: Supervisor Control
2552	(9F8)	UNSIGNED		4	LCCA0CPTM	THIS CPU'S COUNT DOWN TIMER OWNERSHIP: SUPERVISOR SERIALIZATION: NONE
2556	(9FC)	ADDRESS		4	LCCA0CLSD	The address of the LSSD for the currently executing SRB routine. Only valid when an SRB is executing.
2560	(A00)	ADDRESS		4	LCCA0WUQA(0:17)	Array of Work Unit Queues for this processor. SERIALIZATION: Disablement. Global Intersect is required to change an element in another processor's LCCA0WUQA. OWNERSHIP: Supervisor Control
2632	(A48)	CHARACTER		0	LCCA0END	END OF LCCAO.

Table 580. Cross Reference for IHALCCAO

Name	Offset	Hex Tag
LCCAO	0	
LCCA0ACR	21C	80
LCCA0ALOV	618	
LCCA0AOLD	298	
LCCA0AOLS	21F	08
LCCA0BBCT	200	
LCCA0BBRC	568	
LCCA0BFP	3C1	10
LCCA0BFPH	3C1	01
LCCA0BRCH	2B8	02
LCCA0BWTO	2B8	01
LCCA0CAFM	6	
LCCA0CDSA	594	
LCCA0CDSB	598	
LCCA0CDSC	59C	

IHALCCAO mapping

Table 580. Cross Reference for IHALCCAO (continued)

Name	Offset	Hex Tag
LCCAOCDS0	5A0	
LCCAOCDS1	5A4	
LCCAOCDS2	5A8	
LCCAOCDS3	56C	
LCCAOCDS4	56C	
LCCAOCDS5	570	
LCCAOCDS6	574	
LCCAOCDS7	578	
LCCAOCDS8	57C	
LCCAOCDS9	580	
LCCAOCDSX	584	
LCCAOCDSY	588	
LCCAOCDSZ	58C	
LCCAOCDS10	590	
LCCAOCDS11	548	
LCCAOCDS12	20D	40
LCCAOCDS13	2B4	40
LCCAOCDS14	9FC	
LCCAOCDS15	9F8	
LCCAOCDS16	4	
LCCAOCDS17	20D	20
LCCAOCDS18	218	
LCCAOCDS19	2B5	02
LCCAOCDS20	2B5	80
LCCAOCDS21	2B5	
LCCAOCDS22	2B4	
LCCAOCDS23	2B5	08
LCCAOCDS24	2AC	
LCCAOCDS25	2B5	20
LCCAOCDS26	2B5	04
LCCAOCDS27	2B5	40
LCCAOCDS28	2B5	10
LCCAOCDS29	2B5	01
LCCAOCDS30	2B4	80
LCCAOCDS31	21F	80
LCCAOCDS32	9C	
LCCAOCDS33	558	
LCCAOCDS34	9F3	
LCCAOCDS35	2B8	04
LCCAOCDS36	344	
LCCAOCDS37	224	
LCCAOCDS38	2A4	
LCCAOCDS39	96A	
LCCAOCDS40	160	
LCCAOCDS41	9AC	
LCCAOCDS42	3C0	80
LCCAOCDS43	3C0	40
LCCAOCDS44	3C0	20
LCCAOCDS45	3C0	10

Table 580. Cross Reference for IHALCCAO (continued)

Name	Offset	Hex Tag
LCCA0DSE5	3C0	08
LCCA0DSF1	21C	
LCCA0DSF2	21D	
LCCA0DSV1	228	
LCCA0DSV2	22C	
LCCA0DSV3	230	
LCCA0DSV4	234	
LCCA0DSV5	238	
LCCA0DSV6	23C	
LCCA0DS0F	3C0	
LCCA0DS0W	220	
LCCA0DS7E	21D	02
LCCA0EE1R	240	
LCCA0EE2R	244	
LCCA0EE3R	248	
LCCA0ELKP	470	
LCCA0EMS0	670	
LCCA0END	A48	
LCCA0ENID	9F0	80
LCCA0ERIS	20C	40
LCCA0ESAV	294	
LCCA0ESC2	2B9	80
LCCA0ESMR	2B8	10
LCCA0ESPN	20D	08
LCCA0ETP	368	
LCCA0ETPB	36C	
LCCA0ETSC	21C	20
LCCA0EUTR	21D	08
LCCA0EUTS	21D	10
LCCA0EXSN	20C	01
LCCA0FPFL	3C1	
LCCA0FPWA	28C	
LCCA0FPWR	290	
LCCA0FWP	354	
LCCA0FWPC	358	
LCCA0FWPP	354	
LCCA0HSCS	21F	40
LCCA0IDUR	3D4	
LCCA0IDUV	3D0	
LCCA0IHRC	208	
LCCA0IHR1	208	
LCCA0IHR2	209	
LCCA0IHR3	20A	
LCCA0IHR4	20B	
LCCA0INGR	1E0	
LCCA0INT	20C	02
LCCA0IOC3	560	
LCCA0IOC4	564	
LCCA0IOR1	2E4	

IHALCCAO mapping

Table 580. Cross Reference for IHALCCAO (continued)

Name	Offset	Hex Tag
LCCA0IOR2	2E8	
LCCA0IOR3	2EC	
LCCA0IOSS	55C	
LCCA0IOWA	2E0	
LCCA0IOXM	55C	
LCCA0LCCA0	0	
LCCA0LCCX	28C	
LCCA0LCR0	2B0	
LCCA0LCXR	290	
LCCA0LKFG	2B6	
LCCA0LKG1	3E8	
LCCA0LKG2	430	
LCCA0LKRD	2B6	10
LCCA0LOCK	20C	20
LCCA0LSDP	624	
LCCA0LSHD	748	
LCCA0LSHP	74C	
LCCA0LSSD	620	
LCCA0LWTM	2C0	
LCCA0MCR0	204	
LCCA0MPEN	204	10
LCCA0MSF	20D	80
LCCA0MTSC	9F2	
LCCA0NWEB	348	
LCCA0OID	9F0	
LCCA0OILC	822	
LCCA0ORMT	2D8	
LCCA0PAR1	760	
LCCA0PAR2	E0	
LCCA0PAR3	630	
LCCA0PAR4	7A0	
LCCA0PAR5	928	
LCCA0PASS	21F	20
LCCA0PCR1	2F4	
LCCA0PCR2	164	
LCCA0PCR3	824	
LCCA0PCR4	864	
LCCA0PCR5	96C	
LCCA0PDXC	97	
LCCA0PEEC	92	
LCCA0PERA	3C4	
LCCA0PERC	3C2	
LCCA0PEX1	314	
LCCA0PEX2	184	
LCCA0PEX3	844	
LCCA0PEX4	884	
LCCA0PEX5	98C	
LCCA0PGMM	50A	
LCCA0PGR1	8	

Table 580. Cross Reference for IHALCCAO (continued)

Name	Offset	Hex Tag
LCCAOPGR2	48	
LCCAOPGR3	A0	
LCCAOPGR4	6C0	
LCCAOPGR5	8E4	
LCCAOPGTA	2D2	
LCCAOPICA	93	7F
LCCAOPICB	93	3F
LCCAOPICC	9B	
LCCAOPICD	93	
LCCAOPIC1	6B8	
LCCAOPIC3	758	
LCCAOPIC5	9B8	
LCCAOPILC	91	
LCCAOPINT	90	
LCCAOPMC	93	40
LCCAOPMFV	969	
LCCAOPPOST	5F0	
LCCAOPPER	93	80
LCCAOPPRI	9F4	
LCCAOPPR2	24F	
LCCAOPPSW	88	
LCCAOPPS1	6B0	
LCCAOPPS3	750	
LCCAOPPS5	9B0	
LCCAOPRMW	53C	
LCCAOPRTN	544	
LCCAOPSB2	61C	
LCCAOPSB5	924	
LCCAOPSLI	700	
LCCAOPSMK	21E	
LCCAOPSTD	97	
LCCAOPSTF	97	03
LCCAOPSTL	9BF	
LCCAOPST5	9BF	03
LCCAOPSW3	1D8	
LCCAOPTCB	540	
LCCAOPTE1	6BC	
LCCAOPTE3	75C	
LCCAOPTE5	9BC	
LCCAOPTR1	24C	
LCCAOPTR2	24D	
LCCAOPTR3	24E	
LCCAOPTR5	968	
LCCAOPVAD	94	
LCCAOPVXM	94	80
LCCAOPWEB	220	
LCCAOPXM1	300	
LCCAOPXM2	170	
LCCAOPXM3	830	

IHALCCAO mapping

Table 580. Cross Reference for IHALCCAO (continued)

Name	Offset	Hex Tag
LCCAOPXM4	870	
LCCAOPXM5	978	
LCCAOPX1A	304	
LCCAOPX1K	300	
LCCAOPX1P	306	
LCCAOPX1S	302	
LCCAOPX2A	174	
LCCAOPX2K	170	
LCCAOPX2P	176	
LCCAOPX2S	172	
LCCAOPX3A	834	
LCCAOPX3K	830	
LCCAOPX3P	836	
LCCAOPX3S	832	
LCCAOPX4A	874	
LCCAOPX4K	870	
LCCAOPX4P	876	
LCCAOPX4S	872	
LCCAOPX5A	97C	
LCCAOPX5K	978	
LCCAOPX5P	97E	
LCCAOPX5S	97A	
LCCAOP1AA	788	
LCCAOP1AB	78C	
LCCAOP1AC	790	
LCCAOP1AD	794	
LCCAOP1AE	798	
LCCAOP1AF	79C	
LCCAOP1A0	760	
LCCAOP1A1	764	
LCCAOP1A2	768	
LCCAOP1A3	76C	
LCCAOP1A4	770	
LCCAOP1A5	774	
LCCAOP1A6	778	
LCCAOP1A7	77C	
LCCAOP1A8	780	
LCCAOP1A9	784	
LCCAOP1CA	31C	
LCCAOP1CB	320	
LCCAOP1CC	324	
LCCAOP1CD	328	
LCCAOP1CE	32C	
LCCAOP1CF	330	
LCCAOP1C0	2F4	
LCCAOP1C1	2F8	
LCCAOP1C2	2FC	
LCCAOP1C3	300	
LCCAOP1C4	304	

Table 580. Cross Reference for IHALCCAO (continued)

Name	Offset	Hex Tag
LCCAOP1C5	308	
LCCAOP1C6	30C	
LCCAOP1C7	310	
LCCAOP1C8	314	
LCCAOP1C9	318	
LCCAOP2AA	108	
LCCAOP2AB	10C	
LCCAOP2AC	110	
LCCAOP2AD	114	
LCCAOP2AE	118	
LCCAOP2AF	11C	
LCCAOP2A0	E0	
LCCAOP2A1	E4	
LCCAOP2A2	E8	
LCCAOP2A3	EC	
LCCAOP2A4	F0	
LCCAOP2A5	F4	
LCCAOP2A6	F8	
LCCAOP2A7	FC	
LCCAOP2A8	100	
LCCAOP2A9	104	
LCCAOP2CA	18C	
LCCAOP2CB	190	
LCCAOP2CC	194	
LCCAOP2CD	198	
LCCAOP2CE	19C	
LCCAOP2CF	1A0	
LCCAOP2C0	164	
LCCAOP2C1	168	
LCCAOP2C2	16C	
LCCAOP2C3	170	
LCCAOP2C4	174	
LCCAOP2C5	178	
LCCAOP2C6	17C	
LCCAOP2C7	180	
LCCAOP2C8	184	
LCCAOP2C9	188	
LCCAOP3AA	658	
LCCAOP3AB	65C	
LCCAOP3AC	660	
LCCAOP3AD	664	
LCCAOP3AE	668	
LCCAOP3AF	66C	
LCCAOP3A0	630	
LCCAOP3A1	634	
LCCAOP3A2	638	
LCCAOP3A3	63C	
LCCAOP3A4	640	
LCCAOP3A5	644	

IHALCCAO mapping

Table 580. Cross Reference for IHALCCAO (continued)

Name	Offset	Hex Tag
LCCAOP3A6	648	
LCCAOP3A7	64C	
LCCAOP3A8	650	
LCCAOP3A9	654	
LCCAOP3CA	84C	
LCCAOP3CB	850	
LCCAOP3CC	854	
LCCAOP3CD	858	
LCCAOP3CE	85C	
LCCAOP3CF	860	
LCCAOP3C0	824	
LCCAOP3C1	828	
LCCAOP3C2	82C	
LCCAOP3C3	830	
LCCAOP3C4	834	
LCCAOP3C5	838	
LCCAOP3C6	83C	
LCCAOP3C7	840	
LCCAOP3C8	844	
LCCAOP3C9	848	
LCCAOP4AA	7C8	
LCCAOP4AB	7CC	
LCCAOP4AC	7D0	
LCCAOP4AD	7D4	
LCCAOP4AE	7D8	
LCCAOP4AF	7DC	
LCCAOP4A0	7A0	
LCCAOP4A1	7A4	
LCCAOP4A2	7A8	
LCCAOP4A3	7AC	
LCCAOP4A4	7B0	
LCCAOP4A5	7B4	
LCCAOP4A6	7B8	
LCCAOP4A7	7BC	
LCCAOP4A8	7C0	
LCCAOP4A9	7C4	
LCCAOP4CA	88C	
LCCAOP4CB	890	
LCCAOP4CC	894	
LCCAOP4CD	898	
LCCAOP4CE	89C	
LCCAOP4CF	8A0	
LCCAOP4C0	864	
LCCAOP4C1	868	
LCCAOP4C2	86C	
LCCAOP4C3	870	
LCCAOP4C4	874	
LCCAOP4C5	878	
LCCAOP4C6	87C	

Table 580. Cross Reference for IHALCCAO (continued)

Name	Offset	Hex Tag
LCCAOP4C7	880	
LCCAOP4C8	884	
LCCAOP4C9	888	
LCCAOP5AA	950	
LCCAOP5AB	954	
LCCAOP5AC	958	
LCCAOP5AD	95C	
LCCAOP5AE	960	
LCCAOP5AF	964	
LCCAOP5A0	928	
LCCAOP5A1	92C	
LCCAOP5A2	930	
LCCAOP5A3	934	
LCCAOP5A4	938	
LCCAOP5A5	93C	
LCCAOP5A6	940	
LCCAOP5A7	944	
LCCAOP5A8	948	
LCCAOP5A9	94C	
LCCAOP5CA	994	
LCCAOP5CB	998	
LCCAOP5CC	99C	
LCCAOP5CD	9A0	
LCCAOP5CE	9A4	
LCCAOP5CF	9A8	
LCCAOP5C0	96C	
LCCAOP5C1	970	
LCCAOP5C2	974	
LCCAOP5C3	978	
LCCAOP5C4	97C	
LCCAOP5C5	980	
LCCAOP5C6	984	
LCCAOP5C7	988	
LCCAOP5C8	98C	
LCCAOP5C9	990	
LCCAORARA	808	
LCCAORARB	80C	
LCCAORARC	810	
LCCAORARD	814	
LCCAORARE	818	
LCCAORARF	81C	
LCCAORARS	7E0	
LCCAORAR0	7E0	
LCCAORAR1	7E4	
LCCAORAR2	7E8	
LCCAORAR3	7EC	
LCCAORAR4	7F0	
LCCAORAR5	7F4	
LCCAORAR6	7F8	

IHALCCAO mapping

Table 580. Cross Reference for IHALCCAO (continued)

Name	Offset	Hex Tag
LCCAORAR7	7FC	
LCCAORAR8	800	
LCCAORAR9	804	
LCCAORCPU	2A8	
LCCAORCRA	8CC	
LCCAORCRB	8D0	
LCCAORCRC	8D4	
LCCAORCRD	8D8	
LCCAORCRE	8DC	
LCCAORCRF	8E0	
LCCAORCRS	8A4	
LCCAORCR0	8A4	
LCCAORCR1	8A8	
LCCAORCR2	8AC	
LCCAORCR3	8B0	
LCCAORCR4	8B4	
LCCAORCR5	8B8	
LCCAORCR6	8BC	
LCCAORCR7	8C0	
LCCAORCR8	8C4	
LCCAORCR9	8C8	
LCCAOREAX	8C4	
LCCAORES1	50C	
LCCAORES2	528	
LCCAORSGR	120	
LCCAORSME	50C	
LCCAORSMK	509	
LCCAORSTP	2B8	40
LCCAORSTR	20C	08
LCCAORSWS	224	80
LCCAORWEB	5EC	
LCCAORWLK	5EC	80
LCCAORWQL	37C	
LCCAORXMR	8B0	
LCCAORXRA	8B4	
LCCAORXRK	8B0	
LCCAORXRP	8B6	
LCCAORXRS	8B2	
LCCAOR1A4	1A4	
LCCAOR2DC	2DC	
LCCAOR2F0	2F0	
LCCAOR265	265	
LCCAOR270	270	
LCCAOR35C	35C	
LCCAOR370	370	
LCCAOR820	820	
LCCA0SAFN	2D0	
LCCA0SCFL	21F	
LCCA0SCSA	4C0	

Table 580. Cross Reference for IHALCCAO (continued)

Name	Offset	Hex Tag
LCCAOSCW1	3D8	
LCCAOSCW2	3DC	
LCCAOSDUR	3CC	
LCCAOSDUV	3C8	
LCCAOSGPR	380	
LCCAOSIGS	20C	80
LCCAOSLEB	2B8	
LCCAOSLE1	2B8	
LCCAOSLE2	2B9	
LCCAOSLIP	2BC	
LCCAOSLSA	5AC	
LCCAOSMQJ	360	
LCCAOSMSK	508	
LCCAOSOP1	97	04
LCCAOSPIN	20C	
LCCAOSPLJ	364	
LCCAOSPN1	20C	
LCCAOSPN2	20D	
LCCAOSPN3	20E	
LCCAOSPN4	20F	
LCCAOSPSW	534	
LCCAOSRBF	2D0	
LCCAOSRBJ	2A0	
LCCAOSRBM	21D	80
LCCAOSREG	4D4	
LCCAOSRGS	538	
LCCAOSRSA	550	
LCCAOSRTK	554	
LCCAOSRXM	550	
LCCAOSSA2	2C8	
LCCAOSSA5	2CC	
LCCAOSSRB	21D	20
LCCAOSSTA	2D8	40
LCCAOSSTD	2D8	80
LCCAOSSTE	2D8	20
LCCAOSTAS	20D	10
LCCAOSTCP	2B8	80
LCCAOSTCT	264	
LCCAOSTG1	478	
LCCAOSTST	20D	04
LCCAOSVC6	21C	04
LCCAOSXLS	20D	02
LCCAOSXMR	3E0	
LCCAOTCAC	50B	40
LCCAOTCFB	50B	
LCCAOTCR0	250	
LCCAOTCTL	50B	80
LCCAOTCT2	21C	02
LCCAOTIMR	21C	10

IHALCCAO mapping

Table 580. Cross Reference for IHALCCAO (continued)

Name	Offset	Hex Tag
LCCAOTODH	210	
LCCAOTODL	214	
LCCAOTOLD	29C	
LCCAOTOLS	21F	04
LCCAOTP	9D0	
LCCAOTPB	9E0	
LCCAOTPU	9D4	
LCCAOTPUB	9E4	
LCCAOTSMC	21C	08
LCCAOTSPN	20C	10
LCCAOTTSC	9C0	
LCCAOTTS1	9C0	
LCCAOTTS2	9C4	
LCCAOTVS	21D	04
LCCAOTVSE	21F	10
LCCAOTVS2	21D	01
LCCAOTVS3	21F	02
LCCAOVARY	2B4	01
LCCAOVCPU	21C	40
LCCAOVTOD	2B8	20
LCCAOWDT	334	
LCCAOWFCT	202	
LCCAOWP	9D8	
LCCAOWPB	9E8	
LCCAOWPU	9DC	
LCCAOWPUB	9EC	
LCCAOWS	260	
LCCAOWSD	258	
LCCAOWSU	25C	
LCCAOWTD	254	
LCCAOWTIM	268	
LCCAOWTSC	9C8	
LCCAOWTS1	9C8	
LCCAOWTS2	9CC	
LCCAOWUQA	A00	
LCCAOWUQI	34C	
LCCAOWUQM	350	
LCCAOWUQR	34E	
LCCAOXLS	2B9	40
LCCAOXMFA	2B8	08
LCCAOXRC1	208	80
LCCAOXRC2	208	40
LCCAOXTIM	628	

Chapter 142. IHALCCX Information

IHALCCX Programming Interface Information

ONLY the following fields are part of the programming interface information:

- LCCX_Sigp_Count_Addr
- LCCX_SystrcBuf_Count
- LCCX_TimeParked
- LCCX_TimerDIE_CPUTime
- LCCXECCC

IHALCCX Heading Information

Common Name: Extended Status Saving Work Area
 Macro ID: IHALCCX
 DSECT Name: LCCX
 Owning Component: Supervisor Control (SC1C5)
 Eye-Catcher ID: LCCX
 Offset: X'6C0'
 Length: 4
 Storage Attributes: Subpool: 239
 Key: 0
 Residency: Above 16M
 Size: LCCX -- X'0A50' bytes
 Created by: IEAVNIP0 (ipl CPU), IEEVCPRA (other CPU)
 Pointed to by: LCCALCCX (virtual)
 LCCALCXR (real)
 Serialization: Disablement
 Function: Maps the area used for extended status saving things

IHALCCX mapping

Table 581. Structure LCCX

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	2640	LCCX	
0	(0)	CHARACTER	512	LCCXFPWA	The FPWA is mapped here
0	(0)	CHARACTER	128	LCCXTXPG641	64-bit regs resulting from program-interrupt-caused transaction abort (regs from PITDB are moved to "normal" place). IEAVEPCO requires that the high halves be first
0	(0)	CHARACTER	64	LCCXTXPG641_H	64-bit reg high halves
64	(40)	CHARACTER	64	LCCXTXPG641_L	64-bit reg low halves
128	(80)	CHARACTER	128	LCCXTXPG642	64-bit regs resulting from program-interrupt-caused transaction abort (regs from PITDB are moved to "normal" place). IEAVEPCO requires that the high halves be first

IHALCCX mapping

Table 581. Structure LCCX (continued)

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
128	(80)	CHARACTER	64	LCCXTXPG642_H	64-bit reg high halves
192	(C0)	CHARACTER	64	LCCXTXPG642_L	64-bit reg low halves
256	(100)	CHARACTER	128	LCCXTXPG643	64-bit regs resulting from program-interrupt-caused transaction abort (regs from PITDB are moved to "normal" place). IEAVEPCO requires that the high halves be first
256	(100)	CHARACTER	64	LCCXTXPG643_H	64-bit reg high halves
320	(140)	CHARACTER	64	LCCXTXPG643_L	64-bit reg low halves
384	(180)	CHARACTER	128	LCCXTXPG644	64-bit regs resulting from program-interrupt-caused transaction abort (regs from PITDB are moved to "normal" place). IEAVEPCO requires that the high halves be first
384	(180)	CHARACTER	64	LCCXTXPG644_H	64-bit reg high halves
448	(1C0)	CHARACTER	64	LCCXTXPG644_L	64-bit reg low halves
512	(200)	CHARACTER	64	LCCXLCCAP64H1	Program FLIH recursion 64-bit GPR high-order half savearea 1
576	(240)	CHARACTER	64	LCCXLCCAP64H2	Program FLIH mainline 64-bit GPR high-order half savearea 2
640	(280)	CHARACTER	64	LCCXLCCAP64H3	Program FLIH recursion MC access 64-bit GPR high-order half savearea 3
704	(2C0)	CHARACTER	64	LCCXLCCAP64H4	Program FLIH 64-bit GPR high-order half savearea 4
768	(300)	CHARACTER	64	LCCXLCCAP64H5	Program FLIH recursion 64-bit GPR high-order half savearea 5
832	(340)	CHARACTER	64	LCCXLCCARG64H	Restart FLIH 64-bit GPR high-order half savearea
896	(380)	CHARACTER	16	LCCXPPSW16_1	16-byte PSW which is scrunched into LCCAPPS1
912	(390)	CHARACTER	16	LCCXPPSW16_2	16-byte PSW which is scrunched into LCCAPPSW
928	(3A0)	CHARACTER	16	LCCXPPSW16_3	16-byte PSW which is scrunched into LCCAPPS3
944	(3B0)	CHARACTER	16	LCCXPPSW16_5	16-byte PSW which is scrunched into LCCAPPS5
960	(3C0)	CHARACTER	128	LCCXTXPG645	64-bit regs resulting from program-interrupt-caused transaction abort (regs from PITDB are moved to "normal" place). IEAVEPCO requires that the high halves be first
960	(3C0)	CHARACTER	64	LCCXTXPG645_H	64-bit reg high halves
1024	(400)	CHARACTER	64	LCCXTXPG645_L	64-bit reg low halves
1088	(440)	CHARACTER	16	LCCXTXPPSW16_1	PSW resulting from program-interrupt-caused transaction abort (PSW from PITDB is moved to "normal" place)

Table 581. Structure LCCX (continued)

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
1104	(450)	CHARACTER	16	LCCXTXPPSW16_2	PSW resulting from program-interrupt-caused transaction abort (PSW from PITDB is moved to "normal" place)
1120	(460)	CHARACTER	16	LCCXTXPPSW16_3	PSW resulting from program-interrupt-caused transaction abort (PSW from PITDB is moved to "normal" place)
1136	(470)	CHARACTER	16	LCCXTXPPSW16_4	PSW resulting from program-interrupt-caused transaction abort (PSW from PITDB is moved to "normal" place)
1152	(480)	CHARACTER	16	LCCXTXPPSW16_5	PSW resulting from program-interrupt-caused transaction abort (PSW from PITDB is moved to "normal" place)
1168	(490)	CHARACTER	48	LCCXR490	Reserved
1216	(4C0)	CHARACTER	128	LCCXR4C0	Reserved
1344	(540)	CHARACTER	128	LCCXLCCAPCR4	8-byte CRs
1344	(540)	CHARACTER	8	LCCXLCCAPCR4_0	CR0
1344	(540)	CHARACTER	4	LCCXLCCAPCR4_0H	CR 0 high half
1348	(544)	CHARACTER	4	LCCXLCCAPCR4_0L	CR 0 low half
1352	(548)	CHARACTER	8	LCCXLCCAPCR4_1	CR1
1360	(550)	CHARACTER	8	LCCXLCCAPCR4_2	CR2
1368	(558)	CHARACTER	16	LCCXLCCAPCR4_XM	CR3/4
1368	(558)	CHARACTER	8	LCCXLCCAPCR4_3	CR3
1376	(560)	CHARACTER	8	LCCXLCCAPCR4_4	CR4
1384	(568)	CHARACTER	8	LCCXLCCAPCR4_5	CR5
1392	(570)	CHARACTER	8	LCCXLCCAPCR4_6	CR6
1400	(578)	CHARACTER	8	LCCXLCCAPCR4_7	CR7
1408	(580)	CHARACTER	8	LCCXLCCAPCR4_8	CR8
1408	(580)	CHARACTER	4	LCCXLCCAPCR4_8H	CR 8 high half
1412	(584)	CHARACTER	4	LCCXLCCAPCR4_8L	CR 8 low half
1412	(584)	CHARACTER	2	LCCXLCCAPCR4_EAX	EAX in CR8
1416	(588)	CHARACTER	8	LCCXLCCAPCR4_9	CR9
1424	(590)	CHARACTER	8	LCCXLCCAPCR4_A	CR 10
1432	(598)	CHARACTER	8	LCCXLCCAPCR4_B	CR 11
1440	(5A0)	CHARACTER	8	LCCXLCCAPCR4_C	CR 12
1448	(5A8)	CHARACTER	8	LCCXLCCAPCR4_D	CR 13
1456	(5B0)	CHARACTER	8	LCCXLCCAPCR4_E	CR 14
1464	(5B8)	CHARACTER	8	LCCXLCCAPCR4_F	CR 15
1464	(5B8)	CHARACTER	4	LCCXLCCAPCR4_FH	CR 15 high half
1468	(5BC)	CHARACTER	4	LCCXLCCAPCR4_FL	CR 15 low half
1472	(5C0)	CHARACTER	128	LCCXLCCAPCR5	8-byte CRs
1472	(5C0)	CHARACTER	8	LCCXLCCAPCR5_0	CR0
1472	(5C0)	CHARACTER	4	LCCXLCCAPCR5_0H	CR 0 high half
1476	(5C4)	CHARACTER	4	LCCXLCCAPCR5_0L	CR 0 low half
1480	(5C8)	CHARACTER	8	LCCXLCCAPCR5_1	CR1
1480	(5C8)	CHARACTER	4	LCCXLCCAPCR5_1H	CR 1 high half

IHALCCX mapping

Table 581. Structure LCCX (continued)

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
1484	(5CC)	CHARACTER	4	LCCXLCCAPCR5_1L	CR 1 low half
1488	(5D0)	CHARACTER	8	LCCXLCCAPCR5_2	CR2
1488	(5D0)	CHARACTER	4	LCCXLCCAPCR5_2H	CR 2 high half
1492	(5D4)	CHARACTER	4	LCCXLCCAPCR5_2L	CR 2 low half
1496	(5D8)	CHARACTER	16	LCCXLCCAPCR5_XM	CR3/4
1496	(5D8)	CHARACTER	8	LCCXLCCAPCR5_3	CR3
1496	(5D8)	CHARACTER	4	LCCXLCCAPCR5_SINS	
1500	(5DC)	CHARACTER	2	LCCXLCCAPCR5_KM	
1502	(5DE)	CHARACTER	2	LCCXLCCAPCR5_SASID	
1504	(5E0)	CHARACTER	8	LCCXLCCAPCR5_4	CR4
1504	(5E0)	CHARACTER	4	LCCXLCCAPCR5_PINS	
1508	(5E4)	CHARACTER	2	LCCXLCCAPCR5_AX	
1510	(5E6)	CHARACTER	2	LCCXLCCAPCR5_PASID	
1512	(5E8)	CHARACTER	8	LCCXLCCAPCR5_5	CR5
1512	(5E8)	CHARACTER	4	LCCXLCCAPCR5_5H	CR 5 high half
1516	(5EC)	CHARACTER	4	LCCXLCCAPCR5_5L	CR 5 low half
1520	(5F0)	CHARACTER	8	LCCXLCCAPCR5_6	CR6
1528	(5F8)	CHARACTER	8	LCCXLCCAPCR5_7	CR7
1528	(5F8)	CHARACTER	4	LCCXLCCAPCR5_7H	CR 7 high half
1532	(5FC)	CHARACTER	4	LCCXLCCAPCR5_7L	CR 7 low half
1536	(600)	CHARACTER	8	LCCXLCCAPCR5_8	CR8
1536	(600)	CHARACTER	4	LCCXLCCAPCR5_8H	CR 8 high half
1540	(604)	CHARACTER	4	LCCXLCCAPCR5_8L	CR 8 low half
1540	(604)	CHARACTER	2	LCCXLCCAPCR5_EAX	EAX in CR8
1544	(608)	CHARACTER	8	LCCXLCCAPCR5_9	CR9
1552	(610)	CHARACTER	8	LCCXLCCAPCR5_A	CR 10
1560	(618)	CHARACTER	8	LCCXLCCAPCR5_B	CR 11
1568	(620)	CHARACTER	8	LCCXLCCAPCR5_C	CR 12
1576	(628)	CHARACTER	8	LCCXLCCAPCR5_D	CR 13
1584	(630)	CHARACTER	8	LCCXLCCAPCR5_E	CR 14
1592	(638)	CHARACTER	8	LCCXLCCAPCR5_F	CR 15
1592	(638)	CHARACTER	4	LCCXLCCAPCR5_FH	CR 15 high half
1596	(63C)	CHARACTER	4	LCCXLCCAPCR5_FL	CR 15 low half
1600	(640)	CHARACTER	128	LCCXLCCARCRS	8-byte CRs
1600	(640)	CHARACTER	8	LCCXLCCARCR_0	CR0
1608	(648)	CHARACTER	8	LCCXLCCARCR_1	CR1
1616	(650)	CHARACTER	8	LCCXLCCARCR_2	CR2
1624	(658)	CHARACTER	16	LCCXLCCARCR_XM	CR3/4
1624	(658)	CHARACTER	8	LCCXLCCARCR_3	CR3
1624	(658)	CHARACTER	4	LCCXLCCARCR_3H	CR3 high half
1628	(65C)	CHARACTER	4	LCCXLCCARCR_3L	CR3 low half
1628	(65C)	CHARACTER	2	LCCXLCCARCR_3KM	
1630	(65E)	CHARACTER	2	LCCXLCCARCR_3SASID	
1632	(660)	CHARACTER	8	LCCXLCCARCR_4	CR4
1632	(660)	CHARACTER	4	LCCXLCCARCR_4H	CR4 high half
1636	(664)	CHARACTER	4	LCCXLCCARCR_4L	CR4 low half
1636	(664)	CHARACTER	2	LCCXLCCARCR_4AX	
1638	(666)	CHARACTER	2	LCCXLCCARCR_4PASID	
1640	(668)	CHARACTER	8	LCCXLCCARCR_5	CR5
1648	(670)	CHARACTER	8	LCCXLCCARCR_6	CR6
1656	(678)	CHARACTER	8	LCCXLCCARCR_7	CR7
1664	(680)	CHARACTER	8	LCCXLCCARCR_8	CR8

Table 581. Structure LCCX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1664	(680)	CHARACTER	4	LCCXLCCARCR_8H	CR 8 high half
1668	(684)	CHARACTER	4	LCCXLCCARCR_8L	CR 8 low half
1668	(684)	CHARACTER	2	LCCXLCCARCR_EAX	EAX in CR8
1672	(688)	CHARACTER	8	LCCXLCCARCR_9	CR9
1680	(690)	CHARACTER	8	LCCXLCCARCR_A	CR 10
1688	(698)	CHARACTER	8	LCCXLCCARCR_B	CR 11
1696	(6A0)	CHARACTER	8	LCCXLCCARCR_C	CR 12
1704	(6A8)	CHARACTER	8	LCCXLCCARCR_D	CR 13
1712	(6B0)	CHARACTER	8	LCCXLCCARCR_E	CR 14
1720	(6B8)	CHARACTER	8	LCCXLCCARCR_F	CR 15
1720	(6B8)	CHARACTER	4	LCCXLCCARCR_FH	CR 15 high half
1724	(6BC)	CHARACTER	4	LCCXLCCARCR_FL	CR 15 low half
1728	(6C0)	CHARACTER	4	LCCXID	Acronym
1732	(6C4)	CHARACTER	8	LCCXR6C4	Reserved
1740	(6CC)	UNSIGNED	2	LCCX_RR_COUNT_DOWN	round robin count down Round robin is the technique used by the dispatcher to provide specific help to equal priority workloads
1742	(6CE)	CHARACTER	2	LCCXLCCAPER	PER code
1744	(6D0)	CHARACTER	8	LCCXLCCAPERA	PER address
1744	(6D0)	CHARACTER	4	LCCXLCCAPERA03	PER address 0-3
1748	(6D4)	ADDRESS	4	LCCXLCCAPERA47	PER address 4-7
1752	(6D8)	CHARACTER	8	LCCXLCCAPVAD	Translation exception address (from 168-175)
1760	(6E0)	CHARACTER	8	LCCXLCCAPTE1	Translation exception address analogous to LCCAPTE1
1768	(6E8)	CHARACTER	8	LCCXLCCAPTE3	Translation exception address analogous to LCCAPTE3
1776	(6F0)	CHARACTER	8	LCCXLCCAPTE5	Translation exception address analogous to LCCAPTE5
1784	(6F8)	CHARACTER	16	LCCXLCCASRXM	CROSS MEMORY SAVE AREA FOR STOP/RESET AND SRB STATUS SAVE/RESTORE/MODIFY ROUTINES.
1784	(6F8)	CHARACTER	8	*	
1792	(700)	CHARACTER	8	LCCXLCCASRTK	HOLDS SSARTO TOKEN FOR STOP/RESET.
1800	(708)	CHARACTER	48	LCCXRSM	RSM related LCCX fields
1800	(708)	CHARACTER	4	LCCXRSMQ	Ensure RSM queue headers do not start on a double word boundary skip so that the next field is on a dword
1804	(70C)	CHARACTER	4	LCCXR70C	
1808	(710)	ADDRESS	8	LCCXPHQH	CPU related preferred AFQ header
1816	(718)	ADDRESS	8	LCCXNHQH	CPU related non-preferred AFQ header
1824	(720)	CHARACTER	24	LCCXR720	
1848	(738)	UNSIGNED	4	LCCX_SPIN_DIAG	Count of DIAG 9C's issued to this CPU.
1852	(73C)	UNSIGNED	4	LCCX_BASE_SPIN_DIAG	Base value, set by WLM.
1856	(740)	CHARACTER	8	LCCX_NATIVE_CPU_TIME(4)	Normalized CPU time for work intended to run on this CPU in timer units.
1888	(760)	CHARACTER	8	LCCX_NATIVE_BASE_CPU_TIME(4)	

IHALCCX mapping

Table 581. Structure LCCX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1920	(780)	ADDRESS	4	LCCXAWUQ	Base value, set by WLM. Pointer to AWUQ_Node this processor is assigned to
1924	(784)	ADDRESS	4	LCCXWUQ	Pointer to WUQ this processor dispatches work from
1928	(788)	UNSIGNED	4	LCCX_CPU_YIELD	Count of yields issued by this CPU.
1932	(78C)	UNSIGNED	4	LCCX_BASE_CPU_YIELD	Base value, set by WLM.
1936	(790)	UNSIGNED	4	LCCX_GENERIC_HELP_TOKEN	Token when generic help was last recognized as needed by this processor
1940	(794)	SIGNED	4	LCCXRICAL	The recalculation timer used to determine when a CPU should execute the need help recalculation logic. OWNERSHIP: SUPERVISOR
1944	(798)	CHARACTER	8	LCCX_BASE_WAIT_TIME	Base value for LCCAWTIM Ownership: SRM
1952	(7A0)	ADDRESS	4	LCCX_SIGP_COUNT_ADDR	The address of a 4 byte counter that holds the total number of SIGPs done by this CPU that contribute to LPAR overheads
1956	(7A4)	CHARACTER	4	LCCXR7A4	Reserved
1960	(7A8)	ADDRESS	4	LCCX_CPU_EXCLUDED_ADDR	CPUs that are excluded during need help processing. This mask is ECVTMaxMPNumBytesInMask bytes long where the first (CVTMAXMP+1) bits are valid. Ownership: Supervisor
1964	(7AC)	ADDRESS	4	LCCX_CPU_EXCLUDED_PARTIAL_ADDR	Partial exclusion mask CPUs excluded during need help processing, except CPUs with higher priority level. This mask is ECVTMaxMPNumBytesInMask bytes long where the first (CVTMAXMP+1) bits are valid. OWNERSHIP: SUPERVISOR
1968	(7B0)	BITSTRING	4	LCCX_CPU_EXCLUDED_BITMASK_SUMMARY	A bitmask summarizing which 64-bit CPU blocks have been populated in the exclude and partial exclude block. Current support depends on this value being 4 bytes. Ownership: Supervisor
1972	(7B4)	ADDRESS	4	LCCX_CORE_ADDR	The CORE data structure for this thread. There is 1 CORE control block per core, and all threads on a core point to the same CORE block. This field will be non-zero when PROCVIEW CORE was specified on hardware that supports MT. Otherwise, this field will be zero.

Table 581. Structure LCCX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1976	(7B8)	ADDRESS	4	LCCXLCEB	Ptr to the LCEB
1980	(7BC)	ADDRESS	4	LCCXLCCC	Ptr to the LCCC
1984	(7C0)	ADDRESS	4	LCCX_PERFINSTBB_ADDR	
1988	(7C4)	ADDRESS	4	LCCX_SIGP_BLOCK_ADDR	
1992	(7C8)	ADDRESS	4	LCCX_NHLP_OTHER_CTRS_ADDR	
1996	(7CC)	ADDRESS	4	LCCX_PREV_OTHER_CTRS_ADDR	
2000	(7D0)	ADDRESS	4	LCCXECCC	External Logical CPU Counter block.
2004	(7D4)	ADDRESS	4	LCCXECCC_PREV	External Logical CPU Counter previous block. This is not a programming interface. Use LCCXECCC instead.
2008	(7D8)	ADDRESS	4	LCCX_TXCOUNTS_CURRADDR	The address of the current LCCC transaction diagnostic counters. This field will be non-zero when PROCVIEW CORE was specified on hardware that supports MT. Otherwise, this field will be zero.
2012	(7DC)	ADDRESS	4	LCCX_TXCOUNTS_PREVADDR	The address of the previous LCCC transaction diagnostic counters. This field will be non-zero when PROCVIEW CORE was specified on hardware that supports MT. Otherwise, this field will be zero.
2016	(7E0)	CHARACTER	72	LCCXR7E0	Reserved 110@LBD
2088	(828)	CHARACTER	8	LCCXTOBPWAE	
2088	(828)	SIGNED	4	LCCXTOBPWA0	Part of LccxTobPWAE
2092	(82C)	SIGNED	4	LCCXTOBPWA1	Processor work area. Serialization - disablement on the processor.
2096	(830)	CHARACTER	48	LCCXR830	Reserved 28@LBD
2144	(860)	CHARACTER	8	LCCX_NH_SAVEAREA	Register save area for need help processing
2152	(868)	SIGNED	4	LCCX_NHTM_AT_RCAL_UPDATE	The NHTM timer value at the time RCAL is updated. In another word, this value is the CPU time that this CPU has run, consecutively or not, since the last RCAL update. By subtracting this value from the RCAL, we will know whether the RCAL timer popped OWNERSHIP: SUPERVISOR
2156	(86C)	SIGNED	4	LCCX_GH_LEVEL	The giving help level of this CPU 00010000: no priority 00010000: AWUQ_PRIORITY_LEVEL_1 00100000: AWUQ_PRIORITY_LEVEL_2 00110000: AWUQ_PRIORITY_LEVEL_3 01000000: AWUQ_PRIORITY_LEVEL_4 Only the last byte of the word is used. The values are the AWUQ_PRIORITY_LEVEL_xxx values plus AWUQ_Mask_Byte_Size
2160	(870)	CHARACTER	104	LCCXR870	Reserved

IHALCCX mapping

Table 581. Structure LCCX (continued)

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
2264	(8D8)	CHARACTER	32	LCCXR8D8	Reserved
2296	(8F8)	CHARACTER	8	LCCX_TOD_WTI_START	The TOD z/OS honored the last WTI request
2304	(900)	CHARACTER	8	LCCX_TOD_WTI_END	The TOD z/OS was resumed after the WTI completed
2312	(908)	CHARACTER	8	LCCX_TIMEPARKED	The amount of time a CPU was parked. This value contains the official parked time (meaning accounted for by EEXT waking up and adding the last official time parked into LCCX_TimeParked_Official) plus the time since this CPU was last parked. WLM updates this time parked value regularly while the CPU is parked. Ownership: WLM & Supervisor Serialization: Compare and Swap
2320	(910)	CHARACTER	8	LCCX_TIMEPARKED_OFFICIAL	The official amount of time this CPU has been parked. This value is updated when a parked CPU wakes up in EEXT due to a SIGP, EMS signal, or unpark. For a parked CPU, this value grows less accurate the longer the CPU remains parked without being woken up. Once the parked CPU is woken up, this value is updated. Ownership: WLM & Supervisor
2328	(918)	CHARACTER	8	LCCX_TOD_CPU_PARKED	A timestamp when this CPU was last parked
2336	(920)	CHARACTER	8	LCCX_TOD_CPU_UNPARKED	A timestamp when this CPU was last unparked
2344	(928)	UNSIGNED	2	LCCX_MINOR_HPWUQ_COUNT_DOWN	In VCM=YES a countdown value from LCCX_Minor_HPWUQ_Count_Down_From to 0. When this value reaches 0 on CPs, the external FLIH needs to check the HPWUQ.
2346	(92A)	UNSIGNED	2	LCCX_MINOR_HPWUQ_COUNT_DOWN_FROM	In VCM=YES the value to initialize LCCX_Minor_HPWUQ_Count_Down to when the countdown reaches 0
2348	(92C)	UNSIGNED	2	LCCX_NORMAL_TO_SHORT_MINOR_CONV	The normal minor to short minor conversion factor for this CPU. When this CPU has normal minors, the value in this field represents how many short minors would have occurred during this CPU's normal minor. If this CPU has short minors, the value is 1 because no conversion factor is needed.

Table 581. Structure LCCX (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
2350	(92E)	CHARACTER		2	LCCXR92E	Reserved
2352	(930)	CHARACTER		8	LCCX_ENTITLE_WITHDRAWN	Amount of time that this zIIP may use to run CP work
2360	(938)	SIGNED		4	LCCX_NHTM_BASE_ENTITLE	The NHTM timer value for entitlement
2364	(93C)	UNSIGNED		2	LCCX_RELUCTANT_HELP_COUNTDOWN	When this CPU is reluctantly helping, the number of times to give help serially before helping concurrently
2366	(93E)	CHARACTER		2	LCCXR93E	Reserved
2368	(940)	CHARACTER		8	LCCX_TIMERDIE_CPUTIME	Accumulated time
2376	(948)	UNSIGNED		8	LCCX_SYSTRCBUF_COUNT	Sytem trace buffer counts
2384	(950)	CHARACTER		256	LCCX_VRS0T015	VRs 0-15 (PC FLIH). Do not add new fields after this, until this has moved to offset A00. Instead, add before here, and recompile users of this.
2640	(A50)	CHARACTER		0	LCCX_END	End of mapping

Table 582. Constants for IHALCCX

Len	Type	Value	Name	Description
4	CHARACTER	LCCX	LCCXIDCHARS	
4	DECIMAL	0	LCCX_ASSERT_EQ1_1	
4	DECIMAL	0	LCCX_ASSERT_EQ2_1	Ensure the LCCX ends on a QWORD boundary 70@LBD

Table 583. Cross Reference for IHALCCX

Name	Offset	Hex Tag
LCCX	0	
LCCX_BASE_CPU_YIELD	78C	
LCCX_BASE_SPIN_DIAG	73C	
LCCX_BASE_WAIT_TIME	798	
LCCX_CORE_ADDR	7B4	
LCCX_CPU_EXCLUDED_ADDR	7A8	
LCCX_CPU_EXCLUDED_BITMASK_SUMMARY	7B0	
LCCX_CPU_EXCLUDED_PARTIAL_ADDR	7AC	
LCCX_CPU_YIELD	788	
LCCX_END	A50	
LCCX_ENTITLE_WITHDRAWN	930	
LCCX_GENERIC_HELP_TOKEN	790	
LCCX_GH_LEVEL	86C	
LCCX_MINOR_HPWUQ_COUNT_DOWN	928	
LCCX_MINOR_HPWUQ_COUNT_DOWN_FROM	92A	
LCCX_NATIVE_BASE_CPU_TIME	760	
LCCX_NATIVE_CPU_TIME	740	
LCCX_NH_SAVEAREA	860	
LCCX_NHLP_OTHER_CTRS_ADDR	7C8	
LCCX_NHTM_AT_RCAL_UPDATE	868	

IHALCCX mapping

Table 583. Cross Reference for IHALCCX (continued)

Name	Offset	Hex Tag
LCCX_NHTM_BASE_ENTITLE	938	
LCCX_NORMAL_TO_SHORT_MINOR_CONV	92C	
LCCX_PERFINSTBB_ADDR	7C0	
LCCX_PREV_OTHER_CTRS_ADDR	7CC	
LCCX_RELUCTANT_HELP_COUNTDOWN	93C	
LCCX_RR_COUNT_DOWN	6CC	
LCCX_SIGP_BLOCK_ADDR	7C4	
LCCX_SIGP_COUNT_ADDR	7A0	
LCCX_SPIN_DIAG	738	
LCCX_SYSTRCBUF_COUNT	948	
LCCX_TIMEPARKED	908	
LCCX_TIMEPARKED_OFFICIAL	910	
LCCX_TIMERDIE_CPUTIME	940	
LCCX_TOD_CPU_PARKED	918	
LCCX_TOD_CPU_UNPARKED	920	
LCCX_TOD_WTI_END	900	
LCCX_TOD_WTI_START	8F8	
LCCX_TXCOUNTS_CURRADDR	7D8	
LCCX_TXCOUNTS_PREVADDR	7DC	
LCCX_VRS0T015	950	
LCCXAWUQ	780	
LCCXECCC	7D0	
LCCXECCC_PREV	7D4	
LCCXFPWA	0	
LCCXID	6C0	
LCCXLCCAPCR4	540	
LCCXLCCAPCR4_A	590	
LCCXLCCAPCR4_B	598	
LCCXLCCAPCR4_C	5A0	
LCCXLCCAPCR4_D	5A8	
LCCXLCCAPCR4_E	5B0	
LCCXLCCAPCR4_EAX	584	
LCCXLCCAPCR4_F	5B8	
LCCXLCCAPCR4_FH	5B8	
LCCXLCCAPCR4_FL	5BC	
LCCXLCCAPCR4_XM	558	
LCCXLCCAPCR4_0	540	
LCCXLCCAPCR4_0H	540	
LCCXLCCAPCR4_0L	544	
LCCXLCCAPCR4_1	548	
LCCXLCCAPCR4_2	550	
LCCXLCCAPCR4_3	558	
LCCXLCCAPCR4_4	560	
LCCXLCCAPCR4_5	568	
LCCXLCCAPCR4_6	570	
LCCXLCCAPCR4_7	578	
LCCXLCCAPCR4_8	580	
LCCXLCCAPCR4_8H	580	
LCCXLCCAPCR4_8L	584	

Table 583. Cross Reference for IHALCCX (continued)

Name	Offset	Hex Tag
LCCXLCCAPCR4_9	588	
LCCXLCCAPCR5	5C0	
LCCXLCCAPCR5_A	610	
LCCXLCCAPCR5_AX	5E4	
LCCXLCCAPCR5_B	618	
LCCXLCCAPCR5_C	620	
LCCXLCCAPCR5_D	628	
LCCXLCCAPCR5_E	630	
LCCXLCCAPCR5_EAX	604	
LCCXLCCAPCR5_F	638	
LCCXLCCAPCR5_FH	638	
LCCXLCCAPCR5_FL	63C	
LCCXLCCAPCR5_KM	5DC	
LCCXLCCAPCR5_PASID	5E6	
LCCXLCCAPCR5_PINS	5E0	
LCCXLCCAPCR5_SASID	5DE	
LCCXLCCAPCR5_SINS	5D8	
LCCXLCCAPCR5_XM	5D8	
LCCXLCCAPCR5_0	5C0	
LCCXLCCAPCR5_0H	5C0	
LCCXLCCAPCR5_0L	5C4	
LCCXLCCAPCR5_1	5C8	
LCCXLCCAPCR5_1H	5C8	
LCCXLCCAPCR5_1L	5CC	
LCCXLCCAPCR5_2	5D0	
LCCXLCCAPCR5_2H	5D0	
LCCXLCCAPCR5_2L	5D4	
LCCXLCCAPCR5_3	5D8	
LCCXLCCAPCR5_4	5E0	
LCCXLCCAPCR5_5	5E8	
LCCXLCCAPCR5_5H	5E8	
LCCXLCCAPCR5_5L	5EC	
LCCXLCCAPCR5_6	5F0	
LCCXLCCAPCR5_7	5F8	
LCCXLCCAPCR5_7H	5F8	
LCCXLCCAPCR5_7L	5FC	
LCCXLCCAPCR5_8	600	
LCCXLCCAPCR5_8H	600	
LCCXLCCAPCR5_8L	604	
LCCXLCCAPCR5_9	608	
LCCXLCCAPERA	6D0	
LCCXLCCAPERA03	6D0	
LCCXLCCAPERA47	6D4	
LCCXLCCAPERC	6CE	
LCCXLCCAPTE1	6E0	
LCCXLCCAPTE3	6E8	
LCCXLCCAPTE5	6F0	
LCCXLCCAPVAD	6D8	
LCCXLCCAP64H1	200	

IHALCCX mapping

Table 583. Cross Reference for IHALCCX (continued)

Name	Offset	Hex Tag
LCCXLCCAP64H2	240	
LCCXLCCAP64H3	280	
LCCXLCCAP64H4	2C0	
LCCXLCCAP64H5	300	
LCCXLCCARCR_A	690	
LCCXLCCARCR_B	698	
LCCXLCCARCR_C	6A0	
LCCXLCCARCR_D	6A8	
LCCXLCCARCR_E	6B0	
LCCXLCCARCR_EAX	684	
LCCXLCCARCR_F	6B8	
LCCXLCCARCR_FH	6B8	
LCCXLCCARCR_FL	6BC	
LCCXLCCARCR_XM	658	
LCCXLCCARCR_0	640	
LCCXLCCARCR_1	648	
LCCXLCCARCR_2	650	
LCCXLCCARCR_3	658	
LCCXLCCARCR_3H	658	
LCCXLCCARCR_3KM	65C	
LCCXLCCARCR_3L	65C	
LCCXLCCARCR_3SASID	65E	
LCCXLCCARCR_4	660	
LCCXLCCARCR_4AX	664	
LCCXLCCARCR_4H	660	
LCCXLCCARCR_4L	664	
LCCXLCCARCR_4PASID	666	
LCCXLCCARCR_5	668	
LCCXLCCARCR_6	670	
LCCXLCCARCR_7	678	
LCCXLCCARCR_8	680	
LCCXLCCARCR_8H	680	
LCCXLCCARCR_8L	684	
LCCXLCCARCR_9	688	
LCCXLCCARCRS	640	
LCCXLCCARG64H	340	
LCCXLCCASRTK	700	
LCCXLCCASRXM	6F8	
LCCXLCCC	7BC	
LCCXLCEB	7B8	
LCCXNHQH	718	
LCCXPHQH	710	
LCCXPPSW16_1	380	
LCCXPPSW16_2	390	
LCCXPPSW16_3	3A0	
LCCXPPSW16_5	3B0	
LCCXRCAL	794	
LCCXRSM	708	
LCCXRSMQ	708	

Table 583. Cross Reference for IHALCCX (continued)

Name	Offset	Hex Tag
LCCXR4C0	4C0	
LCCXR490	490	
LCCXR6C4	6C4	
LCCXR7A4	7A4	
LCCXR7E0	7E0	
LCCXR70C	70C	
LCCXR720	720	
LCCXR8D8	8D8	
LCCXR830	830	
LCCXR870	870	
LCCXR92E	92E	
LCCXR93E	93E	
LCCXTOBPWAE	828	
LCCXTOBPWAW0	828	
LCCXTOBPWAW1	82C	
LCCXTXPG641	0	
LCCXTXPG641_H	0	
LCCXTXPG641_L	40	
LCCXTXPG642	80	
LCCXTXPG642_H	80	
LCCXTXPG642_L	C0	
LCCXTXPG643	100	
LCCXTXPG643_H	100	
LCCXTXPG643_L	140	
LCCXTXPG644	180	
LCCXTXPG644_H	180	
LCCXTXPG644_L	1C0	
LCCXTXPG645	3C0	
LCCXTXPG645_H	3C0	
LCCXTXPG645_L	400	
LCCXTXPPSW16_1	440	
LCCXTXPPSW16_2	450	
LCCXTXPPSW16_3	460	
LCCXTXPPSW16_4	470	
LCCXTXPPSW16_5	480	
LCCXWUQ	784	

IHALCCX mapping

Chapter 143. IHALCCXO Information

IHALCCXO Heading Information

Common Name: Extended Status Saving Work Area
 Macro ID: IHALCCXO
 DSECT Name: LCCXO
 Owing Component: Supervisor Control (SC1C5)
 Eye-Catcher ID: LCCX
 Offset: X'6C0'
 Length: 4
 Storage Attributes: Subpool: 239
 Key: 0
 Residency: Above 16M
 Size: LCCXO -- X'0720' bytes
 Created by: IEAVNIP0 (ipl CPU), IEEVCPRA (other CPU)
 Pointed to by: LCCALCCX (virtual)
 LCCALCXR (real)
 Serialization: Disablement
 Function: Maps the area used for extended status saving things

IHALCCXO mapping

Table 584. Structure LCCXO

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	1824	LCCXO	
0	(0)	CHARACTER	512	LCCX0FPWA	The FPWA is mapped here
512	(200)	CHARACTER	64	LCCX0LCCAP64H1	Program FLIH recursion 64-bit GPR high-order half savearea 1
576	(240)	CHARACTER	64	LCCX0LCCAP64H2	Program FLIH mainline 64-bit GPR high-order half savearea 2
640	(280)	CHARACTER	64	LCCX0LCCAP64H3	Program FLIH recursion MC access 64-bit GPR high-order half savearea 3
704	(2C0)	CHARACTER	64	LCCX0LCCAP64H4	Program FLIH 64-bit GPR high-order half savearea 4
768	(300)	CHARACTER	64	LCCX0LCCAP64H5	Program FLIH recursion 64-bit GPR high-order half savearea 5
832	(340)	CHARACTER	64	LCCX0LCCARG64H	Restart FLIH 64-bit GPR high-order half savearea
896	(380)	CHARACTER	64	LCCX0R380	Reserved
960	(3C0)	CHARACTER	128	LCCX0LCCAPCR1	8-byte CRs
1088	(440)	CHARACTER	128	LCCX0LCCAPCR2	8-byte CRs
1216	(4C0)	CHARACTER	128	LCCX0LCCAPCR3	8-byte CRs
1344	(540)	CHARACTER	128	LCCX0LCCAPCR4	8-byte CRs
1472	(5C0)	CHARACTER	128	LCCX0LCCAPCR5	8-byte CRs
1600	(640)	CHARACTER	128	LCCX0LCCARCRS	8-byte CRs
1728	(6C0)	CHARACTER	4	LCCX0ID	Acronym
1732	(6C4)	CHARACTER	4	*	Reserved
1736	(6C8)	CHARACTER	6	*	Reserved
1742	(6CE)	CHARACTER	2	LCCX0LCCAPER	PER code

IHALCCXO mapping

Table 584. Structure LCCXO (continued)

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
1744	(6D0)	CHARACTER	8	LCCXOLCCAPERA	PER address
1744	(6D0)	CHARACTER	4	LCCXOLCCAPERA03	PER address 0-3
1748	(6D4)	ADDRESS	4	LCCXOLCCAPERA47	PER address 4-7
1752	(6D8)	CHARACTER	8	LCCXOLCCAPVAD	Translation exception address (from 168-175)
1760	(6E0)	CHARACTER	8	LCCXOLCCAPTE1	Translation exception address analogous to LCCAPTE1
1768	(6E8)	CHARACTER	8	LCCXOLCCAPTE3	Translation exception address analogous to LCCAPTE3
1776	(6F0)	CHARACTER	8	LCCXOLCCAPTE5	Translation exception address analogous to LCCAPTE5
1784	(6F8)	CHARACTER	40	*	Reserved
1824	(720)	CHARACTER	0	*	End of mapping

Table 585. Constants for IHALCCXO

Len	Type	Value	Name	Description
4	CHARACTER	LCCX	LCCXOIDCHARS	

Table 586. Cross Reference for IHALCCXO

Name	Offset	Hex Tag
LCCXO	0	
LCCXOFPWA	0	
LCCXOID	6C0	
LCCXOLCCAPCR1	3C0	
LCCXOLCCAPCR2	440	
LCCXOLCCAPCR3	4C0	
LCCXOLCCAPCR4	540	
LCCXOLCCAPCR5	5C0	
LCCXOLCCAPERA	6D0	
LCCXOLCCAPERA03	6D0	
LCCXOLCCAPERA47	6D4	
LCCXOLCCAPERC	6CE	
LCCXOLCCAPTE1	6E0	
LCCXOLCCAPTE3	6E8	
LCCXOLCCAPTE5	6F0	
LCCXOLCCAPVAD	6D8	
LCCXOLCCAP64H1	200	
LCCXOLCCAP64H2	240	
LCCXOLCCAP64H3	280	
LCCXOLCCAP64H4	2C0	
LCCXOLCCAP64H5	300	
LCCXOLCCARCRS	640	
LCCXOLCCARG64H	340	
LCCXOR380	380	

Chapter 144. IHALCCXT Information

IHALCCXT Heading Information

Common Name: LCCA Extension (LCCX) Vector Table
 Macro ID: IHALCCXT
 DSECT Name: LCCXVT
 Owing Component: Supervisor Control (SC1C5)
 Eye-Catcher ID: None
 Storage Attributes: Subpool: 245
 Key: 0
 Size: CVTMAXMP+1 LCCXT00P Entries
 Created by: IEAVNIP0
 Pointed to by: ECVTLXCT field of the ECVT data area
 Serialization: None
 Function: Contains address of LCCX for each processor.

IHALCCXT mapping

Table 587. Structure LCCXVT

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
0	(0)	STRUCTURE		0	LCCXVT	
0	(0)	ADDRESS		4	LCCXT00P	- ADDRESS OF LCCX FOR CPU 0. There are CVTMAXMP+1 entries. Do not reference entries beyond CVTMAXMP+1.
4	(4)	ADDRESS		4	LCCXT01P	- ADDRESS OF LCCX FOR CPU 1
8	(8)	ADDRESS		4	LCCXT02P	- ADDRESS OF LCCX FOR CPU 2
12	(C)	ADDRESS		4	LCCXT03P	- ADDRESS OF LCCX FOR CPU 3
16	(10)	ADDRESS		4	LCCXT04P	- ADDRESS OF LCCX FOR CPU 4
20	(14)	ADDRESS		4	LCCXT05P	- ADDRESS OF LCCX FOR CPU 5
24	(18)	ADDRESS		4	LCCXT06P	- ADDRESS OF LCCX FOR CPU 6
28	(1C)	ADDRESS		4	LCCXT07P	- ADDRESS OF LCCX FOR CPU 7
32	(20)	ADDRESS		4	LCCXT08P	- ADDRESS OF LCCX FOR CPU 8
36	(24)	ADDRESS		4	LCCXT09P	- ADDRESS OF LCCX FOR CPU 9
40	(28)	ADDRESS		4	LCCXT10P	- ADDRESS OF LCCX FOR CPU 10
44	(2C)	ADDRESS		4	LCCXT11P	- ADDRESS OF LCCX FOR CPU 11
48	(30)	ADDRESS		4	LCCXT12P	- ADDRESS OF LCCX FOR CPU 12
52	(34)	ADDRESS		4	LCCXT13P	- ADDRESS OF LCCX FOR CPU 13
56	(38)	ADDRESS		4	LCCXT14P	- ADDRESS OF LCCX FOR CPU 14
60	(3C)	ADDRESS		4	LCCXT15P	- ADDRESS OF LCCX FOR CPU 15
64	(40)	ADDRESS		4	LCCXT16_31P(16)	- Addresses OF LCCXs for CPUs 16 to 31
128	(80)	ADDRESS		4	LCCXT32_63P(32)	- Addresses OF LCCXs for CPUs 32 to 63
256	(100)	ADDRESS		4	LCCXT64_127P(64)	- Addresses OF LCCXs for CPUs 64 - 127
512	(200)	DBL WORD		8	LCCXTEND(0)	- END OF LCCXT. There are CVTMAXMP+1 entries. Do not reference entries beyond CVTMAXMP+1

IHALCCXT mapping

Table 588. Cross Reference for IHALCCXT

Name	Offset	Hex Tag
LCCXTEND	200	
LCCXT00P	0	
LCCXT01P	4	
LCCXT02P	8	
LCCXT03P	C	
LCCXT04P	10	
LCCXT05P	14	
LCCXT06P	18	
LCCXT07P	1C	
LCCXT08P	20	
LCCXT09P	24	
LCCXT10P	28	
LCCXT11P	2C	
LCCXT12P	30	
LCCXT13P	34	
LCCXT14P	38	
LCCXT15P	3C	
LCCXT16_31P	40	
LCCXT32_63P	80	
LCCXT64_127P	100	
LCCXVT	0	

Chapter 145. IHALDAX Information

IHALDAX Programming Interface Information

IHALDAX is a programming interface.

IHALDAX Heading Information

Common Name: VSM Local Data Area Extension
Macro ID: IHALDAX
DSECT Name: LDAX
Owning Component: Virtual Storage Manager (SC1CH)
Eye-Catcher ID: LDAX
Offset: 0
Length: 4
Storage Attributes: Residency: Nucleus for ASID=1
Size: X'0080' bytes
Created by: IEAMSWCB, IEAVEMRQ
Pointed to by: ASSBLDAX
Serialization: LOCAL lock
Function: Contains information about address space related virtual storage

IHALDAX mapping

Table 589. Structure LDAX

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	LDAX	
0	(0)	CHARACTER	8	LDAX_HEADER	
0	(0)	CHARACTER	4	LDAX_ID	
4	(4)	BITSTRING	1	LDAX_VERSION	
5	(5)	CHARACTER	3		
8	(8)	ADDRESS	4	LDAX_LDAASCB	Address of ASCB FOR THIS ADDRESS SPACE
12	(C)	ADDRESS	4	LDAX_LDASTRTA	Low addr of Region
16	(10)	SIGNED	4	LDAX_LDASIZA	Size of Region
20	(14)	ADDRESS	4	LDAX_LDAESTRA	Low addr of extended Region
24	(18)	SIGNED	4	LDAX_LDAESIZA	Size of extended Region
28	(1C)	ADDRESS	4	LDAX_LDACRGTP	Current high address of PRIVATE AREA Region
32	(20)	ADDRESS	4	LDAX_LDAERGTP	Current high address of EXTENDED PRIVATE AREA Region
36	(24)	ADDRESS	4	LDAX_LDALIMIT	< 16M V=V Region limit value
40	(28)	ADDRESS	4	LDAX_LDAAVVRG	< 16M V=V Region high value
44	(2C)	ADDRESS	4	LDAX_LDAELIM	> 16M V=V Region limit value
48	(30)	ADDRESS	4	LDAX_LDAEVVRG	> 16M V=V Region high value
52	(34)	SIGNED	4	LDAX_LDALOAL	< 16M USER Region alloc value
56	(38)	SIGNED	4	LDAX_LDAHIAL	< 16M AUTH Region alloc value
60	(3C)	SIGNED	4	LDAX_LDAELOAL	> 16M USER Region alloc value
64	(40)	SIGNED	4	LDAX_LDAEHIAL	> 16M AUTH Region alloc value

IHALDAX mapping

Table 589. Structure LDAX (continued)

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
68	(44)	CHARACTER	16	LDAX_TCTVALUS	TCT Water marks
68	(44)	SIGNED	4	LDAX_TCTHWM	< 16M max virt stor in SWA and LSQA
72	(48)	SIGNED	4	LDAX_TCTLWM	< 16M max virt stor in user subpools
76	(4C)	SIGNED	4	LDAX_TCTEHWM	> 16M max virt stor in SWA and LSQA
80	(50)	SIGNED	4	LDAX_TCTELWM	> 16M max virt stor in user subpools
84	(54)	ADDRESS	4	LDAX_CURHIGHBOT	< 16M Cur bot Auth area
88	(58)	ADDRESS	4	LDAX_CUREHIGHBOT	> 16M Cur bot EAuth area
92	(5C)	ADDRESS	4	LDAX_LDASMAD	Storage Management Area
96	(60)	ADDRESS	4	LDAX_LDASMSZ	Storage Management Size
100	(64)	CHARACTER	28		Reserved
128	(80)	CHARACTER	1	LDAX_END(0)	Reserved
128	(80)	X'C4C1E7'	0	LDAX_KID	"C'LDAX'"
128	(80)	X'1'	0	LDAX_KVERSION	"1"
128	(80)	X'80'	0	LDAX_LEN	"*-LDAX"

Table 590. Cross Reference for IHALDAX

Name	Offset	Hex Tag
LDAX	0	
LDAX_CUREHIGHBOT	58	
LDAX_CURHIGHBOT	54	
LDAX_END	80	
LDAX_HEADER	0	
LDAX_ID	0	
LDAX_KID	80	C4C1E7
LDAX_KVERSION	80	1
LDAX_LDAASCB	8	
LDAX_LDACRGTP	1C	
LDAX_LDAEHIAL	40	
LDAX_LDAELIM	2C	
LDAX_LDAELOAL	3C	
LDAX_LDAERGTP	20	
LDAX_LDAESIZA	18	
LDAX_LDAESTRA	14	
LDAX_LDAEVVRG	30	
LDAX_LDAHIAL	38	
LDAX_LDALIMIT	24	
LDAX_LDALOAL	34	
LDAX_LDASIZA	10	
LDAX_LDASMAD	5C	
LDAX_LDASMSZ	60	
LDAX_LDASTRTA	C	
LDAX_LDAVVRG	28	
LDAX_LEN	80	80
LDAX_TCTEHWM	4C	
LDAX_TCTELWM	50	

Table 590. Cross Reference for IHALDAX (continued)

Name	Offset	Hex Tag
LDAX_TCTHWM	44	
LDAX_TCTLWM	48	
LDAX_TCTVALUS	44	
LDAX_VERSION	4	

IHALDAX mapping

Chapter 146. IHALFTE Information

IHALFTE Heading Information

Common Name: Linkage First Table Entry
Macro ID: IHALFTE
DSECT Name: LFTE
Owning Component: Supervisor Control (SC1C5)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: 245
Key: 0
Residency: Above-16M
Size: LFTE -- X'0004' bytes
Created by: The Linkage First Table is created by IEAVXMAS during initialization of the PC/AUTH address space. The entry table connect service creates linkage tables for non-system connections. Entry contents are changed by the entry table connect and disconnect service routines (IEAVXECO/IEAVXEDI).
Pointed to by: The linkage first table is pointed to by the ASCB field ascb1tov (virtual address) and the ASTE field ASTE1LFTD (real address). The ASTELFTD field also contains the length of the table.
Serialization: Local lock of the PC/Auth address space
Function: Describes an entry in the linkage first table. Each address space will be connected to a linkage first table in the PC/Auth LSQA

Constants for IHALFTE

Table 591. Constants for IHALFTE

Len	Type	Value	Name	Description
4	HEX	7FFFFFF0	LFTELSTR_MASK	
4	HEX	80000000	LFTEINVALID_MASK	
4	DECIMAL	64	LFTESPERLFTUNIT	
4	DECIMAL	12	LFTBOUNDARY_LOG	LFT must be on a 2**8 (256) byte boundary but it must also be in contiguous real, so since we get a "page" we make sure to start on a page boundary.
4	DECIMAL	4096	LFTBOUNDARY	LFT must be on a 2**8 (256) byte boundary but it must also be in contiguous real, so since we get a "page" we make sure to start on a page boundary.
4	DECIMAL	256	LFTUNITSIZE	
4	DECIMAL	1024	LFTESPERLFT	
4	DECIMAL	4096	LFTLEN	We always get 1-page for the LFT. Architecturally, it could be larger, but we do not support that.

Constants for IHALFTE

Chapter 147. IHALOCKI Information

IHALOCKI Programming Interface Information

IHALOCKI is a programming interface.

IHALOCKI Heading Information

Common Name: Lock Instrumentation Data
Macro ID: IHALOCKI
DSECT Name: LockInst_Comm, LockInst_Uniq_CML
Owning Component: Supervisor Control (SC1C5)
Eye-Catcher ID: LKCM, LKUN
Offset: 0, 0
Length: 4, 4
Storage Attributes: Main Storage: ESQA / ENUCLEUS
Virtual Storage: ESQA / ENUCLEUS
Auxiliary Storage: N/A
Subpool: 245 / NA
Key: 0
Data Space: N/A
Residency: 31 bit.
Size: LockInst_Comm -- X'0028' bytes
LockInst_Uniq_CML -- X'0040' bytes
Created by: IEAVEMRQ
IEAMSWCB
IEAVESLA
Pointed to by: LockInst_Comm is pointed to by:
ASSB_SMFCMS_LockInst_Addr
ASSB_ENQDEQ_CMS_LockInst_Addr
ASSB_LATCH_CMS_LockInst_Addr
ASSB_CMS_LockInst_Addr
ASSB_Local_LockInst_Addr
ECVT_SMF_CMS_LockInst_Addr
ECVT_ENQDEQ_CMS_LockInst_Addr
ECVT_LATCH_CMS_LockInst_Addr
ECVT_CMS_LockInst_Addr
LockInst_Uniq_CML is pointed to by:
LockInst_Comm_Unique_Lock_Data_Addr when
LockInst_Comm_LockType = LockInst_LockType_Local
Serialization: Data updates to the lock instrumentation
blocks are serialized by one of the following mechanisms:
The lock the instrumentation block represents.
Compare and Swap
See individual fields for how updates are serialized.
Data reads should be done unserialized.
Function: Maps suspend lock instrumentation data.

IHALOCKI mapping

Table 592. Structure LOCKINST_COMM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	LOCKINST_COMM	
0	(0)	CHARACTER	4	LOCKINST_COMM_ACRONYM	Acronym
4	(4)	SIGNED	4	LOCKINST_COMM_VERSION	Version number
8	(8)	SIGNED	2	LOCKINST_COMM_LENGTH	Length of block
10	(A)	SIGNED	2	LOCKINST_COMM_LOCKTYPE	The type of lock this lock instrumentation block represents. See EQUs for LockInst_LockType_*. Available with version LockInst_Comm_Version_Number1 and above. Serialization: N/A (none)
12	(C)	ADDRESS	4	LOCKINST_COMM_UNIQUE_LOCK_DATA_ADDR	A pointer to an area which contains information unique to the lock represented by this LockInst_Comm block. If there is no data associated with this lock, this pointer will be zero. Available with version LockInst_Comm_Version_Number1 and above. Serialization: N/A (none)
16	(10)	SIGNED	8	LOCKINST_COMM_SUSPENDS	The number of times a unit of work was suspended on this lock. Available with version LockInst_Comm_Version_Number1 and above. Serialization: Lock this instrumentation block represents.
24	(18)	SIGNED	8	LOCKINST_COMM_ALREADY_SUSPENDED	The number of times a unit of work was suspended on this lock when there was already at least 1 other unit of work suspended for for the lock. Available with version LockInst_Comm_Version_Number1 and above. Serialization: Lock this instrumentation block represents.
32	(20)	CHARACTER	8	LOCKINST_COMM_CONT_TIME	The amount of time in a TOD clock format of all units of work that were suspended on this lock. If Wn represents the time each unit of work was suspended, this field contains: W1 + W2 + W3 + ... + Wn. Available with version LockInst_Comm_Version_Number1 and above. Serialization: Lock this instrumentation block represents.

Table 592. Structure LOCKINST_COMM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
32	(20)	X'1'	0	LOCKINST_LOCKTYPE_MIN	"1" Note the LockInst_LockType_Min can change from release to release. LockInst_LockType_Min is the lowest lock type supported for a given release.
32	(20)	X'1'	0	LOCKINST_LOCKTYPE_SMFCMS	"1"
32	(20)	X'2'	0	LOCKINST_LOCKTYPE_ENQDEQCMS	"2"
32	(20)	X'3'	0	LOCKINST_LOCKTYPE_LATCHCMS	"3"
32	(20)	X'4'	0	LOCKINST_LOCKTYPE_CMS	"4"
32	(20)	X'5'	0	LOCKINST_LOCKTYPE_LOCAL	"5"
32	(20)	X'5'	0	LOCKINST_LOCKTYPE_MAX	"5" Note the LockInst_LockType_Max can change from release to release. LockInst_LockType_Max is the largest lock type supported for a given release.
32	(20)	X'D2C3D4'	0	LOCKINST_COMM_ACRONYM_CHARS	"C'LKCM'"
32	(20)	X'1'	0	LOCKINST_COMM_CURR_VERSION_NUMBER	"1"
32	(20)	X'1'	0	LOCKINST_COMM_VERSION_NUMBER1	"1"
32	(20)	X'2E8'	0	LOCKINST_ASSB_SMFCMS_OFFSET	"744"
32	(20)	X'2EC'	0	LOCKINST_ASSB_ENQDEQ_OFFSET	"748"
32	(20)	X'2F0'	0	LOCKINST_ASSB_LATCH_OFFSET	"752"
32	(20)	X'2F4'	0	LOCKINST_ASSB_CMS_OFFSET	"756"
32	(20)	X'2F8'	0	LOCKINST_ASSB_LOCAL_OFFSET	"760"
32	(20)	X'28'	0	LOCKINST_COMM_LEN	"*-LockInst_Comm"

Table 593. Structure LOCKINST_UNIQ_CML

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	LOCKINST_UNIQ_CML	
0	(0)	CHARACTER	4	LOCKINST_UNIQ_CML_ACRONYM	Acronym
4	(4)	SIGNED	4	LOCKINST_UNIQ_CML_VERSION	Version number
8	(8)	SIGNED	2	LOCKINST_UNIQ_CML_LENGTH	Length of block
10	(A)	SIGNED	2	LOCKINST_UNIQ_CML_LOCKTYPE	The type of unique lock this lock instrumentation block represents. The LockType between LockInst_Comm_LockType and LockInst_Uniq_CML_LockType are equal. See EQUs for LockInst_Uniq_LockType_Local. Available with version LockInst_Uniq_CML_Version_Number1 and above. Serialization: N/A (none)
12	(C)	CHARACTER	4		Reserved

IHALOCKI mapping

Table 593. Structure LOCKINST_UNIQ_CML (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
16	(10)	SIGNED	8	LOCKINST_UNIQ_CML_SUSPENDS	The number of times a unit of work from some other address space was suspended for this address space's local lock. This count represents the cumulative number of times a unit of work from another address space was suspended when requesting the CML lock of this address space. LockInst_Comm_Suspends + LockInst_Uniq_CML_Suspends is the total number of suspends on this address space's local lock. Available with version LockInst_Uniq_CML_Version_Number1 and above. Serialization: Lock this instrumentation block represents.
24	(18)	SIGNED	8	LOCKINST_UNIQ_CML_ALREADY_SUSPENDED	The number of times a unit of work from some other address space was suspended for this address space's local lock. This count represents the cumulative number of times a unit of work from another address space was suspended and there was already another unit of work waiting for that lock. LockInst_Comm_Already_Suspended + LockInst_Uniq_CML_Already_Suspended is the total number of times a unit of work was suspended for this address space's local lock and there was already another unit of work waiting for the lock. Available with version LockInst_Uniq_CML_Version_Number1 and above. Serialization: Lock this instrumentation block represents.
32	(20)	CHARACTER	8	LOCKINST_UNIQ_CML_CONT_TIME	

Table 593. Structure LOCKINST_UNIQ_CML (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					The cumulative amount of time in a TOD clock format a unit of work from some other address space was suspended for this address space's local lock. If W_n represents the time each unit of work was suspended, this field contains: $W_1 + W_2 + W_3 + \dots + W_n$. LockInst_Comm_Cont_Time + LockInst_Uniq_CML_Cont_Time is the total time suspended on this address space's local lock. Available with version LockInst_Uniq_CML_Version_Number1 and above. Serialization: Lock this instrumentation block represents.
40	(28)	SIGNED	8	LOCKINST_UNIQ_CML_SUSPENDS_SRC	The cumulative number of times a unit of work from this address space (source) was suspended for another address space's local lock. This count represents the cumulative number of times a unit of work from this address space was suspended when requesting the CML lock of another address space. Available with version LockInst_Uniq_CML_Version_Number1 and above. Serialization: CS
48	(30)	SIGNED	8	LOCKINST_UNIQ_CML_ALREADY_SUSPENDED_SRC	The cumulative number of times a unit of work from this address space (source) was suspended for another address space's local lock and there was another unit of work already suspended on that lock. This count represents the cumulative number of times a unit of work from this address space was suspended when requesting the CML lock of another address space and there was already a unit of work suspended on that CML lock. Available with version LockInst_Uniq_CML_Version_Number1 and above. Serialization: CS
56	(38)	CHARACTER	8	LOCKINST_UNIQ_CML_CONT_TIME_SRC	

IHALOCKI mapping

Table 593. Structure LOCKINST_UNIQ_CML (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					The cumulative amount of time in a TOD clock format of all units of work that originated from this address space and were suspended on a different address space's local lock. This time represents the total time units of work from this address space were suspended for requesting the CML lock of another address space. If Wn represents the time each unit of work was suspended, this field contains: W1 + W2 + W3 + ... + Wn. Available with version LockInst_Uniq_CML_Version_Number1 and above. Serialization: CS
56	(38)	X'5'	0	LOCKINST_UNIQ_LOCKTYPE_MIN	"5" Note the LockInst_Uniq_LockType_Min can change from release to release. LockInst_Uniq_LockType_Min is the lowest lock type supported for a given release.
56	(38)	X'5'	0	LOCKINST_UNIQ_LOCKTYPE_LOCAL	"5"
56	(38)	X'5'	0	LOCKINST_UNIQ_LOCKTYPE_MAX	"5" Note the LockInst_Uniq_LockType_Max can change from release to release. LockInst_Uniq_LockType_Max is the largest lock type supported for a given release.
56	(38)	X'D2E4D5'	0	LOCKINST_UNIQ_CML_ACRONYM_CHARS	"C'LKUN'"
56	(38)	X'1'	0	LOCKINST_UNIQ_CML_CURR_VERSION_NUMBER	"1"
56	(38)	X'1'	0	LOCKINST_UNIQ_CML_VERSION_NUMBER1	"1"
56	(38)	X'40'	0	LOCKINST_UNIQ_CML_LEN	"*-LockInst_Uniq_CML"

Table 594. Cross Reference for IHALOCKI

Name	Offset	Hex	Tag
LOCKINST_ASSB_CMS_OFFSET	20		2F4
LOCKINST_ASSB_ENQDEQ_OFFSET	20		2EC
LOCKINST_ASSB_LATCH_OFFSET	20		2F0
LOCKINST_ASSB_LOCAL_OFFSET	20		2F8
LOCKINST_ASSB_SMFCMS_OFFSET	20		2E8
LOCKINST_COMM	0		
LOCKINST_COMM_ACRONYM	0		
LOCKINST_COMM_ACRONYM_CHARS	20	D2C3D4	
LOCKINST_COMM_ALREADY_SUSPENDED	18		
LOCKINST_COMM_CONT_TIME	20		
LOCKINST_COMM_CURR_VERSION_NUMBER	20		1

Table 594. Cross Reference for IHALOCKI (continued)

Name	Offset	Hex Tag
LOCKINST_COMM_LEN	20	28
LOCKINST_COMM_LENGTH	8	
LOCKINST_COMM_LOCKTYPE	A	
LOCKINST_COMM_SUSPENDS	10	
LOCKINST_COMM_UNIQUE_LOCK_DATA_ADDR	C	
LOCKINST_COMM_VERSION	4	
LOCKINST_COMM_VERSION_NUMBER1	20	1
LOCKINST_LOCKTYPE_CMS	20	4
LOCKINST_LOCKTYPE_ENQDEQCMS	20	2
LOCKINST_LOCKTYPE_LATCHCMS	20	3
LOCKINST_LOCKTYPE_LOCAL	20	5
LOCKINST_LOCKTYPE_MAX	20	5
LOCKINST_LOCKTYPE_MIN	20	1
LOCKINST_LOCKTYPE_SMF CMS	20	1
LOCKINST_UNIQ_CML	0	
LOCKINST_UNIQ_CML_ACRONYM	0	
LOCKINST_UNIQ_CML_ACRONYM_CHARS	38	D2E4D5
LOCKINST_UNIQ_CML_ALREADY_SUSPENDED	18	
LOCKINST_UNIQ_CML_ALREADY_SUSPENDED_SRC	30	
LOCKINST_UNIQ_CML_CONT_TIME	20	
LOCKINST_UNIQ_CML_CONT_TIME_SRC	38	
LOCKINST_UNIQ_CML_CURR_VERSION_NUMBER	38	1
LOCKINST_UNIQ_CML_LEN	38	40
LOCKINST_UNIQ_CML_LENGTH	8	
LOCKINST_UNIQ_CML_LOCKTYPE	A	
LOCKINST_UNIQ_CML_SUSPENDS	10	
LOCKINST_UNIQ_CML_SUSPENDS_SRC	28	
LOCKINST_UNIQ_CML_VERSION	4	
LOCKINST_UNIQ_CML_VERSION_NUMBER1	38	1
LOCKINST_UNIQ_LOCKTYPE_LOCAL	38	5
LOCKINST_UNIQ_LOCKTYPE_MAX	38	5
LOCKINST_UNIQ_LOCKTYPE_MIN	38	5

IHALOCKI mapping

Chapter 148. IHALSTE Information

IHALSTE Heading Information

Common Name: Linkage Second Table Entry
Macro ID: IHALSTE
DSECT Name: LSTE
Owning Component: Supervisor Control (SC1C5)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: 245
Key: 0
Residency: Above-16M
Size: LSTE -- X'0008' bytes
Created by: The Linkage Second Table is created by IEAVXMAS during initialization of the PC/AUTH address space. The entry table connect service creates linkage tables for non-system connections. Entry contents are changed by the entry table connect and disconnect service routines (IEAVXECO/IEAVXEDI).
Pointed to by: The linkage second table is pointed to by the LFTELSTR field of IHALFTE (real address.)
Serialization: Local lock of the PC/Auth address space
Function: Describes an entry in the linkage second table. Each address space will be connected to a linkage second table in the PC/Auth LSQA. The linkage second table is always 32 entries on a 256-byte boundary.

Constants for IHALSTE

Table 595. Constants for IHALSTE

Len	Type	Value	Name	Description
4	HEX	7FFFFFF0	LSTEETR_MASK	
4	HEX	0000003F	LSTEETLEN_MASK	
4	DECIMAL	32	LSTESPERLST	
4	DECIMAL	256	LSTLEN	
4	HEX	80000000	LSTEINVALID_MASK	
4	DECIMAL	8	LSTBOUNDARY_LOG	LST must be on a 2**8 (256) byte boundary
4	DECIMAL	256	LSTBOUNDARY	LST must be on a 2**8 (256) byte boundary

Constants for IHALSTE

Chapter 149. IHALTE Information

IHALTE Heading Information

Common Name: LINKAGE TABLE ENTRY (LTE) DESCRIPTION
 Macro ID: IHALTE
 DSECT Name: LTE
 Owning Component: PC/AUTH (SCXMS)
 Eye-Catcher ID: NONE
 Storage Attributes: Subpool: SYSTEM-DETERMINED
 Key: 0
 Residency: SYSTEM-DETERMINED
 Size: 4 BYTES
 Created by: THE SYSTEM LINKAGE TABLE IS CREATED BY IEAVXMAS DURING
 INITIALIZATION OF THE PC/AUTH ADDRESS SPACE. THE ENTRY
 TABLE CONNECT SERVICE CREATES LINKAGE TABLES FOR NON-SYSTEM
 CONNECTIONS. ENTRY CONTENTS ARE CHANGED BY THE ENTRY TABLE
 CONNECT AND DISCONNECT SERVICE ROUTINES (IEAVXECO/IEAVXEDI).
 Pointed to by: THE LINKAGE TABLE IS POINTED TO BY THE ASCB FIELD
 ASCBTOV (VIRTUAL ADDRESS) AND THE ASTE FIELD ASTELTD (REAL
 ADDRESS). THE ASTELTD FIELD ALSO CONTAINS THE LENGTH OF
 THE TABLE.
 Serialization: LOCAL LOCK OF THE PC /AUTH SERVICES ADDRESS SPACE.
 Function: DESCRIBES AN ENTRY IN THE LINKAGE TABLE. EACH ADDRESS
 SPACE WILL BE CONNECTED TO A LINKAGE TABLE IN THE PC/AUTH
 LSQA.

IHALTE mapping

Table 596. Structure LTE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	4	LTE	LINKAGE TABLE ENTRY DESCRIPTION
0	(0)	UNSIGNED	4	LTEETR	REAL ADDRESS OF ENTRY TABLE. LENGTH IN LOW ORDER 6 BITS MUST BE ZEROED TO USE THIS AS AN ENTRY TABLE ADDRESS
0	(0)	BITSTRING	1	LTEIBYTE	FLAG CONTAINS INVALID FLAG
		1... ..		LTEINV	INVALID ENTRY FLAG
1	(1)	CHARACTER	2	*	PART OF ET ADDRESS - NOT REFERENCABLE ALONE
3	(3)	BITSTRING	1	LTEETLEN	THE NUMBER IN THE LAST SIX BITS PLUS ONE MULTIPLIED BY FOUR GIVES THE NUMBER OF ENTRIES IN THE TABLE

IHALTE mapping

Chapter 150. IHAPPR Information

IHAPPR Programming Interface Information

IHAPPR is a programming interface.

IHAPPR Heading Information

Common Name: z/OS Program Parameter Register Mapping
 Macro ID: IHAPPR
 DSECT Name: PPR
 Owning Component: SUPERVISOR CONTROL (SC1C5)
 Eye-Catcher ID: None
 Storage Attributes: Subpool: N/A
 Key: N/A
 Residency: N/A
 Size: PPR -- X'0008' bytes
 Created by: N/A
 Pointed to by: N/A
 Serialization: N/A
 Function: The CPU Measurement Sampling Facility produces architected sampling entries that contains a program parameter value, determined by the most recent setting of the Program Parameter Register (PPR). The format of the PPR is not architected, this maps the z/OS format for the PPR.

IHAPPR mapping

Table 597. Structure PPR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PPR	
0	(0)	ADDRESS	4	PPR_WU_ADDR	Address of the work unit dispatched, depends on the type of work unit. If an SRB, WU@ is the address of a WEB. If a TCB, WU@ is the address of a TCB.
Bit definitions:					
		1... ..		PPR_IS_WAIT	"X'80'" Set when the wait task is dispatched
4	(4)	SIGNED	2	PPR_HOME_ASID	The home ASID of the work unit
Bit definitions:					
		1... ..		PPR_IS_SRB	"X'80'" Set when the work unit dispatched is an SRB.
6	(6)	SIGNED	2	PPR_TOKEN	A pseudo-unique identifier for this work unit.
6	(6)	X'8'	0	PPR_LEN	"*-PPR"

IHAPPR mapping

Chapter 151. IHAPRD Information

IHAPRD Programming Interface Information

The following fields are NOT programming interface information:

- PRDADSSO
 - PRDITCH
-

IHAPRD Heading Information

Common Name: Dump Header mapping for SVC Dump
Macro ID: IHAPRD
DSECT Name: PRDINPUT
Owning Component: SVC Dump (SCDMP)
Eye-Catcher ID: None
Storage Attributes: Auxiliary Storage: One per dump dataset
Size: 4160 bytes
Created by: SVC Dump (IEAVTSDH, ADYPRED)
SADMP (AMDSADM2)
Pointed to by: N/A
Serialization: None
Function: IHAPRD describes the contents of dump records created by SADMP, SVC Dump, SLIP invoked SVC Dump, and SYSMDUMP. The macro defines the dump header record and symptom area, CPU status records, and general storage records.

IHAPRD mapping

Table 598. Structure PRDINPUT

Offset	Offset		Len	Name(Dim)	Description
Dec	Hex	Type			
0	(0)	STRUCTURE	0	PRDINPUT	
0	(0)	CHARACTER	8	PRDMODNM	NAME OF PGM REQUESTING DUMP
8	(8)	CHARACTER	8	PRDTODVL	CLOCK VALUE AT TIME OF DUMP
16	(10)	CHARACTER	8	PRDCPU(0)	PROCESSOR IDENTIFICATION
16	(10)	CHARACTER	1	PRDPVRSN	PROCESSOR VERSION CODE IN HEX
17	(11)	CHARACTER	3	PRDPSERL	PROCESSOR SERIAL NUMBER IN HEX
20	(14)	CHARACTER	2	PRDPMODL	PROCESSOR MODEL NUMBER IN HEX
22	(16)	CHARACTER	2	PRDPCPU@	PHYSICAL CPU ADDRESS IN HEX
24	(18)	CHARACTER	100	PRDTITLE	TITLE FROM DUMP
124	(7C)	CHARACTER	8	PRDDSPB	TIME SYSTEM SET NON-DISPATCHABLE
132	(84)	CHARACTER	8	PRDDSPE	TIME SYSTEM RESET DISPATCHABLE
140	(8C)	CHARACTER	8	PRDSNAME	SYSTEM NAME
148	(94)	CHARACTER	12		RESERVED - Aligns PRSDRSN
160	(A0)	CHARACTER	16	PRSDRSN	SVC Dump reason code (only for SVC dump captured dumps)
176	(B0)	SIGNED	4	PRSDDBLK	Number of blocks in a captured dump (est. for auto alloc)
180	(B4)	CHARACTER	16	PRDPRODN	Product name
196	(C4)	CHARACTER	2	PRDPRODV	Product version
198	(C6)	CHARACTER	2	PRDPRODR	Product release

IHAPRD mapping

Table 598. Structure PRDINPUT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
200	(C8)	CHARACTER	2	PRDPRODM	Product modification
202	(CA)	CHARACTER	1	PRDPRODD	Product development level
203	(CB)	CHARACTER	1		RESERVED
204	(CC)	CHARACTER	8	PRDBEA	Breaking Event Address Register
212	(D4)	CHARACTER	46		RESERVED
258	(102)	SIGNED	2	PRDADSS0	Offset of ADSS
260	(104)	CHARACTER	16	PRDXMP16	16-byte analog of PRDXMPSW
276	(114)	CHARACTER	16	PRDPSW16	16-byte analog of PRDPSW
292	(124)	SIGNED	4	PRDSDFWD	POINTER USED FOR HEADER CHAIN

THE FOLLOWING FIELDS ARE OFFSETS TO OTHER SECTIONS OF THE HEADER ALONG WITH THE LENGTHS. IF THE OFFSET FIELD IS ZERO THEN THE CORRESPONDING SECTION DOES NOT EXIST

296	(128)	CHARACTER	16	PRDOFSET(0)	OFFSETS
296	(128)	SIGNED	2	PRSDMPO	OFFSET OF SDUMP/SYSMDUMP COMMON SECTION
298	(12A)	SIGNED	2	PRSDMPL	LENGTH OF COMMON SECTION
300	(12C)	SIGNED	2	PRDSLIP0	OFFSET OF SLIP SECTION
302	(12E)	SIGNED	2	PRDSLIPL	LENGTH OF SLIP SECTION
304	(130)	SIGNED	2	PRDSYSMO	OFFSET OF SYSMDUMP SECTION
306	(132)	SIGNED	2	PRDSYSML	LENGTH OF SYSMDUMP SECTION
308	(134)	SIGNED	2	PRSDWAO	OFFSET OF SDWA FOR THIS DUMP
310	(136)	SIGNED	2	PRSDWAL	LENGTH OF SDWA
312	(138)	CHARACTER	50	PRDCID	CALLER'S ID
362	(16A)	SIGNED	2	PRDINTKO	Offset of incident token If 0, no incident token exists

Table 599. Structure PRSDSDWA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PRSDSDWA	, SDWA FOR THIS DUMP

Table 600. Structure PRSDSDSM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PRSDSDSM	
0	(0)	CHARACTER	4	PRDCVT	VIRTUAL ADDRESS OF CVT
4	(4)	CHARACTER	1	PRDFLG1	Flag byte
		1...		PRDME	"BIT0" ESAME mode
		.1..		PRDVGPRF	"BIT1" 64-bit SVC Dump regs on entry
		.1..		PRDMESET	"BIT1" For SADMP, on if dump was taken by a level of SADMP which sets PRDME
		..1.		PRDLGPRF	"BIT2" 64-bit SLIP regs on entry
		...1		PRDMGPRF	"BIT3" 64-bit SYSMDUMP regs at error
5	(5)	CHARACTER	1		RESERVED
6	(6)	CHARACTER	10	PRDERRID	ERRORID ASSOCIATED WITH DUMP
16	(10)	CHARACTER	44	PRDDSNAM	DSN TO WHICH DUMP WAS TAKEN

Table 600. Structure PRDSDSM (continued)

Offset	Offset					
Dec	Hex	Type	Len	Name(Dim)	Description	
60	(3C)	CHARACTER	18	PRDXM(0)	CROSS MEMORY STATUS INFO WHEN SDUMP WAS INVOKED	
60	(3C)	CHARACTER	4	PRDCML	ASCB ADDRESS OF CML ASID	
64	(40)	CHARACTER	8	PRDXMPSW	PSW WHEN SDUMP WAS INVOKED	
72	(48)	SIGNED	2	PRDPASID	PRIMARY ASID	
74	(4A)	SIGNED	2	PRDSASID	SECONDARY ASID	
76	(4C)	SIGNED	2	PRDHASID	HOME ASID	
78	(4E)	SIGNED	2	PRDWASID	SDWA OWNERS ASID	
80	(50)	SIGNED	4	PRDSADDR	ADDRESS WHERE SDWA EXISTED	
84	(54)	SIGNED	4	PRDTTCH(0)	POINTER TO TRACE TABLE CONTROL HDR	
84	(54)	SIGNED	4	PRDPSAAD	If non-zero, the absolute address of an MVS PSA which SADMP used to locate other MVS control blocks.	
88	(58)	SIGNED	2	PRSDPO	OFFSET OF SVC DUMP PARM LIST	
90	(5A)	SIGNED	2	PRSDPL	LENGTH OF SVC DUMP PARM LIST	
92	(5C)	SIGNED	2	PRSDOPO	OFFSET OF SDUMP OPTIONS LIST	
94	(5E)	SIGNED	2	PRSDOPL	LENGTH OF SDUMP OPTIONS LIST	
96	(60)	SIGNED	4	PRDTCB	POINTER TO TCB OF TASK WHICH REQUESTED THE DUMP	
100	(64)	CHARACTER	3	PRDDIDCO	DUMP ID USED FOR MESSAGES AND TO IDENTIFY THE DUMP TO THE OPERATOR	
103	(67)	CHARACTER	1		RESERVED	
104	(68)	CHARACTER	428	PRDCPUST(0)	CPU STATUS SECTION	
104	(68)	CHARACTER	428	PRDREGS(0)	REGISTERS	
104	(68)	CHARACTER	32		Unused	
136	(88)	CHARACTER	64	PRDGPR	GPR'S UPON ENTERING SDUMP	
200	(C8)	CHARACTER	64	PRDCR	Used only in special IPCS code	
264	(108)	CHARACTER	8	PRDPSW	CALLERS PSW BEFORE SDUMP	
272	(110)	CHARACTER	64	PRDAR	ACCESS REGS UPON ENTERING SDUMP	
336	(150)	CHARACTER	128	PRDFPR	FPR'S UPON ENTERING SDUMP	
464	(1D0)	CHARACTER	4	PRDFPCR	FPCR	
468	(1D4)	CHARACTER	4		RESERVED	
472	(1D8)	SIGNED	4	(0)		
472	(1D8)	CHARACTER	64	PRDG64H	G64H UPON ENTERING SDUMP	
536	(218)	CHARACTER	128	PRDC64S	ESAME CRs at SDUMP entry	
664	(298)	SIGNED	4	PRDCSA	START OF COMMON STORAGE	
668	(29C)	SIGNED	4	PRDEPVT	END OF COMMON STORAGE	
672	(2A0)	CHARACTER	8	PRDHJOBN	PRDHASID JOBNAME	
680	(2A8)	CHARACTER	8	PRDHVSS	START OF HIGH VIRTUAL SHARED AREA	
688	(2B0)	CHARACTER	8	PRDHVHP	START OF HIGH VIRTUAL HIGH PRIVATE AREA	
696	(2B8)	CHARACTER	8	PRDHVCO	High Virtual Common Origin	
704	(2C0)	SIGNED	4	PRDTTCH2	Pointer to the trace table control header of the SNAPTRC which was issued by SDUMP when the system is reset to dispatchable prematurely	

IHAPRD mapping

Table 601. Structure PRSDPDM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PRSDPDM	, SDUMP PARM LIST IN BITS

Table 602. Structure PRSDDOPS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PRSDDOPS	, SDUMP OPTIONS IN BITS

Table 603. Structure PRDSLIP

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PRDSLIP	
0	(0)	CHARACTER	8	PRDSLPSW	PSW WHEN SLIP WAS ENTERED
8	(8)	CHARACTER	8	PRDSLBEA	BEAR when SLIP was Entered
16	(10)	CHARACTER	64	PRDSLGPR	GPR'S WHEN SLIP WAS ENTERED
80	(50)	CHARACTER	64	PRDSLAR	ACCESS REGISTERS WHEN SLIP WAS ENTERED
144	(90)	CHARACTER	64	(0)	Was PRDSLRCR
144	(90)	DBL WORD	8	PRDSLPC3	CONTROL REG 3
152	(98)	DBL WORD	8	PRDSLPC4	CONTROL REG 4
160	(A0)	CHARACTER	16	PRDSL16	16-byte PSW
176	(B0)	CHARACTER	32		Reserved
208	(D0)	CHARACTER	64	PRDSL6H	High halves of GPRs when SLIP was entered
272	(110)	CHARACTER	128	PRSLC64	ESAME CRs when SLIP WAS ENTERED

Table 604. Structure PRDSYSMD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PRDSYSMD	
0	(0)	CHARACTER	4	PRDSMABD	ABEND CODE FOR THE ERROR
4	(4)	CHARACTER	8	PRDSMPSW	PSW AT ENTRY TO ABEND
12	(C)	CHARACTER	8	PRDSMLMN	NAME OF ACTIVE LOAD MODULE AT TIME OF ERROR
20	(14)	SIGNED	4	PRDSMLMA	@ OF ACTIVE LOAD MODULE
24	(18)	SIGNED	4	PRDSMLMO	OFFSET INTO ACTIVE LOAD MODULE POINTED TO BY PSW
28	(1C)	CHARACTER	12	PRDSMPDA	DATA AT PSW @ (6+ 6-)
40	(28)	CHARACTER	64	PRDSMGPR	GPR'S AT TIME OF ERROR
104	(68)	CHARACTER	4	PRDSMRSN	REASON CODE FOR THE ERROR
108	(6C)	CHARACTER	64	PRDSMAR	AR'S AT TIME OF ERROR
172	(AC)	CHARACTER	8	PRDSMBEA	BEAR AT TIME OF ERROR
180	(B4)	CHARACTER	40		Unused
220	(DC)	CHARACTER	16	PRDSMP16	PSW AT ENTRY TO ABEND
236	(EC)	CHARACTER	64	PRDSMG6H	High halves of GPRs at time of error
300	(12C)	CHARACTER	128	PRDSMC64	ESAME CRs

Table 605. Structure PRDINTKD

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	0	PRDINTKD	
0	(0)	CHARACTER	32	PRDINTKN	Incident token

Table 606. Cross Reference for IHAPRD

Name	Offset	Hex Tag
PRDADSS0	102	
PRDAR	110	
PRDBEA	CC	
PRDCID	138	
PRDCML	3C	
PRDCPU	10	
PRDCPUST	68	
PRDCR	C8	
PRDCSA	298	
PRDCVT	0	
PRDC64S	218	
PRDDIDCO	64	
PRDDSNAM	10	
PRDDSPB	7C	
PRDDSPB	84	
PRDEPVT	29C	
PRDERRID	6	
PRDFLG1	4	
PRDFPCR	1D0	
PRDFPR	150	
PRDGPR	88	
PRDG64H	1D8	
PRDHASID	4C	
PRDHJOB	2A0	
PRDHVCO	2B8	
PRDHVHP	2B0	
PRDHVSS	2A8	
PRDINPUT	0	
PRDINTKD	0	
PRDINTKN	0	
PRDINTKO	16A	
PRDLGPRF	4	20
PRDME	4	80
PRDMESET	4	40
PRDMGPRF	4	10
PRDMODNM	0	
PRDOFSET	128	
PRDPASID	48	
PRDPCPU@	16	
PRDPMODL	14	
PRDPRODD	CA	
PRDPRODM	C8	

IHAPRD mapping

Table 606. Cross Reference for IHAPRD (continued)

Name	Offset	Hex Tag
PRDPRDN	B4	
PRDPRODR	C6	
PRDPRODV	C4	
PRDPSAAD	54	
PRDPSERL	11	
PRDPSW	108	
PRDPSW16	114	
PRDPVRSN	10	
PRDREGS	68	
PRDSADDR	50	
PRDSASID	4A	
PRDSDBLK	B0	
PRSDDFWD	124	
PRSDMPL	12A	
PRSDMPO	128	
PRSDOPL	5E	
PRSDOPO	5C	
PRSDOPS	0	
PRSDPL	5A	
PRSDPM	0	
PRSDPO	58	
PRSDRSN	A0	
PRSDSM	0	
PRSDWA	0	
PRSDWAL	136	
PRSDWAO	134	
PRSLAR	50	
PRSLBEA	8	
PRSLC64	110	
PRSLGPR	10	
PRSLG6H	D0	
PRSLIP	0	
PRSLIPL	12E	
PRSLIPO	12C	
PRSLPC3	90	
PRSLPC4	98	
PRSLPSW	0	
PRSLP16	A0	
PRDSMABD	0	
PRDSMAR	6C	
PRDSMBEA	AC	
PRSMC64	12C	
PRSMGPR	28	
PRSMG6H	EC	
PRSMLMA	14	
PRSMLMN	C	
PRSMLMO	18	
PRSMPPDA	1C	
PRSMPSW	4	

Table 606. Cross Reference for IHAPRD (continued)

Name	Offset	Hex Tag
PRDSMPSW16	DC	
PRDSMRSN	68	
PRDSNAME	8C	
PRDSYSMD	0	
PRDSYSML	132	
PRDSYSM0	130	
PRDTCB	60	
PRDTITLE	18	
PRDTODVL	8	
PRDTTCH	54	
PRDTTCH2	2C0	
PRDVGPRF	4	40
PRDWASID	4E	
PRDXM	3C	
PRDXMPSW	40	
PRDXMP16	104	

IHAPRD mapping

Chapter 152. IHAPSAE Information

IHAPSAE Programming Interface Information

ONLY the following fields are part of the programming interface information:

- FlceFacilitiesList
 - FlceFacilitiesList1
-

IHAPSAE Heading Information

Common Name: PSA Extension (z/Architecture)
Macro ID: IHAPSAE
DSECT Name: FLCESAME
Owning Component: SUPERVISOR CONTROL (SC1C5)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: N/A
Key: N/A
Residency: N/A
Size: FLCESAME -- X'0200' bytes
Created by: IEAVFX00
IEAVNIPO
IEEVCpra
Pointed to by: The PSAE maps the storage that starts at location 0 for the related processor.
Serialization: Disablement.
None needed for FlceFacilitiesList/FlceFacilitiesList1
Function: Maps the z/Architecture format of the first page of the PSA.
This macro is automatically included when IHAPSA is included.

IHAPSAE mapping

Table 607. Structure FLCESAME

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	FLCESAME	FLCE 0x: defined by architecture
0	(0)	CHARACTER	8	FLCEIPPSW	FLCE 0x: IPL PSW
8	(8)	CHARACTER	8	FLCEICCW1	FLCE 8x: IPL CCW1
16	(10)	CHARACTER	8	FLCEICCW2	FLCE 10x: IPL CCW1
24	(18)	CHARACTER	104	FLCER018	FLCE 18x: reserved
128	(80)	CHARACTER	4	FLCEEPARM	FLCE 80x: External interruption parameter
132	(84)	CHARACTER	2	FLCECPUAD	FLCE 84x: CPU address
134	(86)	CHARACTER	2	FLCEEICCODE	FLCE 86x: External interruption code
136	(88)	CHARACTER	4	FLCESDATA	FLCE 88x: Additional SVC interruption data
136	(88)	CHARACTER	2	FLCESDATABYTE0	FLCE 88x:
136	(88)	CHARACTER	1		FLCE 88x: Reserved
137	(89)	BITSTRING	1	FLCESILC	FLCE 89x: SVC interruption length code

Bit definitions:

IHAPSAE mapping

Table 607. Structure FLCESAME (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		....	.111	FLCESILCB	"X'07'" FLCE 89x: Significant bits in ILC. Last bit is always zero
138	(8A)	CHARACTER	2	FLCESICODE	FLCE 8Ax: SVC interruption code
140	(8C)	CHARACTER	4	FLCEPDATA	FLCE 8Cx: Additional Program interruption data
140	(8C)	CHARACTER	2	FLCEPDATABYTE0	FLCE 8Cx:
140	(8C)	CHARACTER	1		FLCE 8Cx: Reserved
141	(8D)	BITSTRING	1	FLCEPILC	FLCE 8Dx: Program interruption length code

Bit definitions:

		....	.111	FLCEPILCB	"X'07'" FLCE 8Dx: Significant bits in ILC. Last bit is always zero
142	(8E)	CHARACTER	2	FLCEPICODE	FLCE 8Ex: Program interruption code
142	(8E)	BITSTRING	1	FLCEPICODE0	FLCE 8Ex: Exception extension code
143	(8F)	BITSTRING	1	FLCEPICODE1	FLCE 8Fx: 8-bit interruption code

Bit definitions:

		1... ..	....	FLCEPIPER	"X'80'" FLCE 8Fx: PER interruption code
		.1.. ..	....	FLCEPIMC	"X'40'" FLCE 8Fx: Monitor Call interruption code
		..11	1111	FLCEPIPC	"X'3F'" FLCE 8Fx: An unsolicited program interruption has occurred if any of these bits are on
144	(90)	CHARACTER	4	FLCEPIINFORMATION	FLCE 90x:
144	(90)	CHARACTER	3		
147	(93)	BITSTRING	1	FLCEDXC	FLCE 93x: Data exception code for PI 7
147	(93)	BITSTRING	1	FLCEVXC	FLCE 93x: Vector exception code for PI 1B
148	(94)	CHARACTER	2	FLCEMNUM	FLCE 94x: Monitor class number
150	(96)	CHARACTER	2	FLCEPERCODE	FLCE 96x: PER code
150	(96)	BITSTRING	1	FLCEPERCODE0	FLCE 96x: Byte 0

Bit definitions:

		1... ..	....	FLCEPERSB	"X'80'" FLCE 96x: PER successful branch event
		.1.. ..	....	FLCEPERIF	"X'40'" FLCE 96x: PER instruction fetch event
		..1. ....	....	FLCEPERSA	"X'20'" FLCE 96x: PER storage alteration event
		....	1...	FLCEPERSAR	"X'08'" FLCE 96x: PER storage alteration using real event
		....	.1..	FLCEPERZAD	"X'04'" FLCE 96x: PER zero address detection
		....	..1.	FLCEPERTRANSACTIONEND	"X'02'"

Table 607. Structure FLCESAME (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
151	(97)	BITSTRING	1	FLCEPERATMID	FLCE 97x: PER addressing and translation mode ID
Bit definitions:					
		1...		FLCEPERPSW4	"X'80'" FLCE 97x: PER PSW bit 4
		.1..		FLCEPERATMIDVALID	"X'40'" FLCE 97x: When 1, the ATMID bits are valid
		..1.		FLCEPERPSW32	"X'20'" FLCE 97x: PER PSW bit 32
		...1		FLCEPERPSW5	"X'10'" FLCE 97x: PER PSW bit 5
		.... 1...		FLCEPERPSW16	"X'08'" FLCE 97x: PER PSW bit 16
		.... .1..		FLCEPERPSW17	"X'04'" FLCE 97x: PER PSW bit 17
		.... ..11		FLCEPERASCEID	"X'03'" FLCE 97x: PER ASCE identification. If a storage alteration event when DAT is on, identifies the ASCE used: '00' - primary ASCE '01' - AR-specified AR. '10' - secondary ASCE '11' - home ASCE
152	(98)	CHARACTER	8	FLCEPER	FLCE 98x: PER address
152	(98)	CHARACTER	4	FLCEPERW0	FLCE 98x: PER address word 0
156	(9C)	ADDRESS	4	FLCEPERW1	FLCE 9Cx: PER address word 1
160	(A0)	BITSTRING	1	FLCEEAID	FLCE A0x: Exception access ID (The AR number involved in the translation exception when bits 30-31 of the TEA='01'). On a PIC 2C when ALRF is installed, additional bits are set
Bit definitions:					
		1...		FLCEEAID0	"X'80'" Bit 0 of EAID. Zero
		.1..		FLCEEAID1	"X'40'" Bit 1 of EAID. Zero
		..1.		FLCEEAID2	"X'20'" Bit 2 of EAID. Set only when PIC 2C for PTI or for PASN translation on PR
		...1		FLCEEAID3	"X'10'" Bit 3 of EAID. Set only when PIC 2C for SSAIR or for SASN translation on PR
		.... 1111		FLCEEAID_ARNUM	"X'0F'" AR number. Zero when Bit 1 or Bit 2 is set
161	(A1)	BITSTRING	1	FLCEPERAID	FLCE A1x: PER access ID (the access register number involved in the PER storage alteration event)
162	(A2)	BITSTRING	1	FLCEOPACID	FLCE A2x:
163	(A3)	CHARACTER	1	FLCEAMDID	FLCE A3x: Architecture mode ID (See FLCARCH in IHAPSA)
Bit definitions:					
		.... ...1		FLCELOEME	"X'01'" Logout is Z/Architecture
164	(A4)	ADDRESS	4	FLCEMPL	FLCE A4x: MPL address
168	(A8)	CHARACTER	8	FLCETEID	FLCE A8x: Translation exception identification
168	(A8)	CHARACTER	8	FLCETEA	FLCE A8x: Translation exception address
168	(A8)	CHARACTER	6		

IHAPSAE mapping

Table 607. Structure FLCESAME (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
174	(AE)	BITSTRING	1	FLCETEA6	FLCE AEx: Byte 6 of FlceTEA
Bit definitions:					
		.... 11..		FLCEAEFSI	"X'0C'" Access-exception Fetch/Store indicator: 00 -- not determined. 01 -- store. 10 -- fetch. 11 -- reserved
175	(AF)	BITSTRING	1	FLCETEA7	FLCE AFx: Byte 7 of FlceTEA
Bit definitions:					
		.... 1...		FLCEPEALC	"X'08'" FLCE AFx: Protection exception due to access-list control
		.... .1..		FLCESOPI	"X'04'" FLCE AFx: Suppress on protection indication
		.... ..11		FLCETEASTD	"X'03'" FLCE AFx: Segment table designation for TEA: '00' - primary STD '01' - STD was AR-qualified '10' - secondary STD '11' - home STD
168	(A8)	CHARACTER	8	FLCETEASNINFO	FLCE A8x: ASN Info
168	(A8)	CHARACTER	6		
174	(AE)	SIGNED	2	FLCETEASN	FLCE AEx: ASN
168	(A8)	CHARACTER	8	FLCETEPCINFO	FLCE A8x: PC Info
168	(A8)	CHARACTER	4		
172	(AC)	SIGNED	4	FLCEPCNUM	FLCE ACx: PC#. Bits 0-10 are 0, bit 11 is 1, and the PC# is in bits 12-31
176	(B0)	CHARACTER	8	FLCEMONITORCODE	FLCE B0x: Monitor Code
184	(B8)	CHARACTER	4	FLCESSID	FLCE B8x: Subsystem ID word
188	(BC)	CHARACTER	4	FLCEIOINTPARM	FLCE BCx: I/O interruption parameter
192	(C0)	CHARACTER	4	FLCEIOINTID	FLCE C0x: I/O interruption ID
196	(C4)	CHARACTER	4	FLCER0C4	FLCE C4x: Reserved
200	(C8)	CHARACTER	16	FLCEFACILITIESLIST	FLCE C8x: Facilities list stored by STFLE. See macro IHAFACL for a more complete definition of the facilities list. If the facilities list exceeds 256 bits, only the area mapped by IHAFACL will contain those additional bits. This 16-byte area matches the area mapped by Fac1Bytes0To15 within IHAFACL.
200	(C8)	BITSTRING	1	FLCEFACILITIESLISTBYTE0	FLCE C8x
Bit definitions:					
		1...		FLCEZARCHN3	"X'80'" Instructions marked "N3" in the instruction summary are available on the CPU in ESA/390 mode
		1...		FLCEESAMEN3	"X'80'" Instructions marked "N3" in the instruction summary are available on the CPU in ESA/390 mode

Table 607. Structure FLCESAME (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		FLCEZARCHINSTALLED	"X'40'" The z/Architecture mode is installed on the CPU
		.1..		FLCEESAMEINSTALLED	"X'40'" The z/Architecture mode is installed on the CPU
		..1.		FLCEZARCH	"X'20'" The z/Architecture mode is active on the CPU
		..1.		FLCEESAME	"X'20'" The z/Architecture mode is active on the CPU
		...1		FLCEIDTEINSTALLED	"X'10'" IDTE is installed
		.... 1..		FLCEIDTECLEARINGCOMBINEDSEGMENT	"X'08'" IDTE does clearing of combined entries upon segment-table entry invalidation
		.... .1..		FLCEIDTECLEARINGCOMBINEDREGION	"X'04'" IDTE does clearing of combined entries upon region-table entry invalidation
		.... ..1.		FLCEASNANDLXREUSEINSTALLED	"X'02'" The ASN and LX reuse facility is installed on the CPU
		.... ...1		FLCESTFLE	"X'01'" STFLE instruction is available
201	(C9)	BITSTRING	1	FLCEFACILITIESLISTBYTE1	FLCE C9x
Bit definitions:					
		1...		FLCEEDATFEAT	"X'80'" DAT features
		.1..		FLCESENSERUNNINGSTATUS	"X'40'" sense-running-status facility
		..1.		FLCECONDSSKEINSTALLED	"X'20'" The conditional SSKE instruction is installed
		...1		FLCECONFIGURATIONTOPOLOGY	"X'10'" STSI-enhancement for configuration topology
		.... 1..		FLCECQCIF	"X'08'" 110524
		.... .1..		FLCEIPTERANGE	"X'04'" IPTE-range facility is installed
		.... ..1.		FLCENONQKEYSETTING	"X'02'" Nonquiescing key-setting facility is installed
		.... ...1		FLCEAPFT	"X'01'" The APFT facility is installed / 091111
202	(CA)	BITSTRING	1	FLCEFACILITIESLISTBYTE2	FLCE CAx
Bit definitions:					
		1...		FLCEETF2	"X'80'" Extended translation facility 2 is present
		.1..		FLCECRYPTOASSIST	"X'40'" The cryptographic assist is present
		.1..		FLCEMESSAGESECURITYASSIST	"X'40'" The message security assist is present
		..1.		FLCELONGDISPLACEMENT	"X'20'" The long displacement facility is installed in the z/Architecture mode
		...1		FLCELONGDISPLACEMENTHP	"X'10'" The long displacement facility has high performance. Bit FlceLongDisplacement will also be on.

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Table 607. Structure FLCESAME (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		FLCEHFPMS	"X'08'" The HFP Multiply add/subtract facility is installed
		.... .1..		FLCEEXTENDEDIMMEDIATE	"X'04'" The extended immediate facility is installed in the z/Architecture mode
		.... ..1.		FLCEETF3	"X'02'" The extended transaction facility 3 is installed in the z/Architecture mode
		.... ...1		FLCEHFPUNNORMEXTENSION	"X'01'" The HFP unnormalized extension facility is installed
203	(CB)	BITSTRING	1	FLCEFACILITIESLISTBYTE3	FLCE CBx
Bit definitions:					
		1...		FLCEETF2E	"X'80'" ETF2 enhancement is present 031215
		.1..		FLCESTCKF	"X'40'" STCKF enhancement is present
		..1.		FLCEPARSE	"X'20'" Parsing enhancement facility is present
		.... 1...		FLCETCSF	"X'08'" TOD clock steering facility
		.... ..1.		FLCEETF3E	"X'02'" ETF3 enhancement is present 040512
		.... ...1		FLCEECTF	"X'01'" Extract Cpu Time facility
204	(CC)	BITSTRING	1	FLCEFACILITIESLISTBYTE4	FLCE CCx
Bit definitions:					
		1...		FLCECSSF	"X'80'" Compare-and-swap-and-store facility
		.1..		FLCECSSF2	"X'40'" Compare-and-swap-and-store facility 2
		..1.		FLCEGENERALINTEXTENSION	"X'20'" General-Instructions-Extension Facility
		.... 1...		FLCEENHANCEDMONITOR	"X'08'" The Enhanced Monitor facility is supported.
		.... ...1		FLCEOBSOLETECPUMEASUREMENT	"X'01'" Obsolete. Meant CPU-measurement facility supported. Use FlceCpuMeasurementCounter & FlceCpuMeasurementSampling
205	(CD)	BITSTRING	1	FLCEFACILITIESLISTBYTE5	FLCE CDx
Bit definitions:					
		1...		FLCESETPROGRAMPARM	"X'80'" Set-Program-Parameter facility is supported
		.1..		FLCEFPSEF	"X'40'" Floating-point-support enhancement facility
		..1.		FLCEDFPF	"X'20'" Decimal-floating-point facility
		...1		FLCEDFPFHP	"X'10'" Decimal-floating-point facility high performance
		.... 1...		FLCEPFPO	"X'08'" PFPO instruction 070424

Table 607. Structure FLCESAME (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		FLCEDISTINCTOPERANDS	"X'04'" z196 is the first machine with this facility bit on.
		.... .1..		FLCEHIGHWORD	"X'04'"
		.... .1..		FLCELOADSTOREONCONDITION	"X'04'"
		.... .1..		FLCEPOPULATIONCOUNT	"X'04'"
		.... ...1		FLCECMPEF	"X'01'" Possible future enhancement
206	(CE)	BITSTRING	1	FLCEFACILITIESLISTBYTE6	FLCE CEx
Bit definitions:					
		.1..		FLCEMISCINTEXT	"X'40'" Bit 49 - Miscellaneous instruction extensions facility.
		.1..		FLCEEXECUTIONHINT	"X'40'" Bit 49 - Execution hint facility.
		.1..		FLCELOADANDTRAP	"X'40'" Bit 49 - Load and trap facility.
		..1.		FLCECONSTRAINEDTX	"X'20'" Bit 50 - Constrained Transactional Execution facility. Even if this bit if on, do not use Constrained TX unless bit CVTXX is on (you may alternately check bit PSATXC)
		.... .1..		FLCELOADSTOREONCOND2	"X'04'" Bit 53 -
207	(CF)	BITSTRING	1	FLCEFACILITIESLISTBYTE7	FLCE CFx
208	(D0)	BITSTRING	1	FLCEFACILITIESLISTBYTE8	FLCE D0x bits 64-71
Bit definitions:					
		1...		FLCERI	"X'80'" FlceRI
		.1..		FLCECRYPTOAPQAI	"X'40'" Crypto AP-Queue adapter interruption
		...1		FLCECPUMEASUREMENTCOUNTER	"X'10'" CPU-measurement counter facility
		.... 1...		FLCECPUMEASUREMENTSAMPLING	"X'08'" CPU-measurement sampling facility
		.... .1..		FLCESCLP	"X'04'" Possible future enhancement
		.... ..1.		FLCEAISI	"X'02'" AISI facility, bit 70
		.... ...1		FLCEAEN	"X'01'" AEN facility, bit 71
209	(D1)	BITSTRING	1	FLCEFACILITIESLISTBYTE9	FLCE D1x bits 72-79
Bit definitions:					
		1...		FLCEAIS	"X'80'" AIS facility, bit 72
		.1..		FLCETRANSACTIONALEXECUTION	"X'40'" Bit 73 - Transactional Execution facility. Even if this bit if on, do not use TX unless bit CVTXX is on (you may alternately check bit PSATX)
		.... .1..		FLCEMSA4	"X'04'" MSA4 facility, bit 77
		.... ...1.		FLCEEDAT2	"X'02'" Bit 78 - Enhanced Dat-2
210	(D2)	BITSTRING	1	FLCEFACILITIESLISTBYTEA	FLCE D2x
211	(D3)	BITSTRING	1	FLCEFACILITIESLISTBYTEB	FLCE D3x
212	(D4)	BITSTRING	1	FLCEFACILITIESLISTBYTEC	FLCE D4x
213	(D5)	BITSTRING	1	FLCEFACILITIESLISTBYTED	FLCE D5x

IHAPSAE mapping

Table 607. Structure FLCESAME (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
214	(D6)	BITSTRING		1	FLCEFACILITIESLISTBYTEE	FLCE D6x
215	(D7)	BITSTRING		1	FLCEFACILITIESLISTBYTEF	FLCE D7x
216	(D8)	CHARACTER		16	FLCEFACILITIESLIST1	FLCE D8x: Facilities list stored by STFLE. It is valid if on z/OS 2.2 or later. See macro IHAFACL for a more complete definition of the facilities list. This 16-byte area matches the area mapped by FaclBytes16To31 within IHAFACL.
232	(E8)	CHARACTER		8	FLCEMCIC	FLCE E8x: Machine check interruption code
240	(F0)	CHARACTER		4	FLCEMCICE	FLCE F0x: Machine check interruption code extension
244	(F4)	CHARACTER		4	FLCEEDCODE	FLCE F4x: External damage code
248	(F8)	CHARACTER		8	FLCEFSA	FLCE F8x: Failing storage address
256	(100)	ADDRESS		8	FLCEEMFCTRARRAYADDR	FLCE 100x: The enhanced monitor facility counter array origin
264	(108)	SIGNED		4	FLCEEMFCTRARRAYSIZE	FLCE 108x: The enhanced monitor facility counter array dimension
268	(10C)	SIGNED		4	FLCEEMFEXCEPTIONCNT	FLCE 10Cx: The enhanced monitor facility exception count
272	(110)	CHARACTER		8	FLCEBEA	FLCE 110x: Breaking event address
280	(118)	CHARACTER		8	FLCER118	FLCE 118x: Reserved
288	(120)	CHARACTER		16	FLCEROPSW	FLCE 120x: Restart old PSW
304	(130)	CHARACTER		16	FLCEEOPSW	FLCE 130x: External old PSW
320	(140)	CHARACTER		16	FLCESOPSW	FLCE 140x: SVC old PSW
336	(150)	CHARACTER		16	FLCEPOPSW	FLCE 150x: Program old PSW
352	(160)	CHARACTER		16	FLCEMOPSW	FLCE 160x: Machine check old PSW
368	(170)	CHARACTER		16	FLCEIOPSW	FLCE 170x: I/O old PSW
384	(180)	CHARACTER		32	FLCER180	FLCE 180x: reserved
416	(1A0)	CHARACTER		16	FLCERNPSW	FLCE 1A0x: Restart new PSW
432	(1B0)	CHARACTER		16	FLCEENPSW	FLCE 1B0x: External new PSW
448	(1C0)	CHARACTER		16	FLCESNPSW	FLCE 1C0x: SVC new PSW
464	(1D0)	CHARACTER		16	FLCEPNPSW	FLCE 1D0x: Program new PSW
480	(1E0)	CHARACTER		16	FLCEMNPSW	FLCE 1E0x: Machine check new PSW
496	(1F0)	CHARACTER		16	FLCEINPSW	FLCE 1F0x: I/O new PSW
496	(1F0)	X'200'		0	FLCESAME_LEN	"*-FLCESAME"

Table 608. Cross Reference for IHAPSAE

Name	Offset	Hex Tag
FLCEAEFSI	AE	C
FLCEAEN	D0	1
FLCEAIS	D1	80
FLCEAISI	D0	2
FLCEAMDID	A3	
FLCEAPFT	C9	1
FLCEASNANLXREUSEINSTALLED	C8	2
FLCEBEA	110	

Table 608. Cross Reference for IHAPSAE (continued)

Name	Offset	Hex Tag
FLCECMPEF	CD	1
FLCECONDSSKEINSTALLED	C9	20
FLCECONFIGURATIONTOPOLOGY	C9	10
FLCECONSTRAINEDTX	CE	20
FLCECPUAD	84	
FLCECPUMEASUREMENTCOUNTER	D0	10
FLCECPUMEASUREMENTSAMPLING	D0	8
FLCECQCIF	C9	8
FLCECRYPTOAPQAI	D0	40
FLCECRYPTOASSIST	CA	40
FLCECSSF	CC	80
FLCECSSF2	CC	40
FLCEDFPF	CD	20
FLCEDFPFHP	CD	10
FLCEDISTINCTOPERANDS	CD	4
FLCEDXC	93	
FLCEEAIID	A0	
FLCEEAIID_ARNUM	A0	F
FLCEEAIID0	A0	80
FLCEEAIID1	A0	40
FLCEEAIID2	A0	20
FLCEEAIID3	A0	10
FLCEECTF	CB	1
FLCEEDATFEAT	C9	80
FLCEEDAT2	D1	2
FLCEEDCODE	F4	
FLCEEICODE	86	
FLCEEMFCTRARRAYADDR	100	
FLCEEMFCTRARRAYSIZE	108	
FLCEEMFEXCEPTIONCNT	10C	
FLCEENHANCEDMONITOR	CC	8
FLCEENPSW	1B0	
FLCEEOPSW	130	
FLCEEPARM	80	
FLCEESAME	C8	20
FLCEESAMEINSTALLED	C8	40
FLCEESAMEN3	C8	80
FLCEETF2	CA	80
FLCEETF2E	CB	80
FLCEETF3	CA	2
FLCEETF3E	CB	2
FLCEEXECUTIONHINT	CE	40
FLCEEXTENDEDIMMEDIATE	CA	4
FLCEFACILITIESLIST	C8	
FLCEFACILITIESLISTBYTEA	D2	
FLCEFACILITIESLISTBYTEB	D3	
FLCEFACILITIESLISTBYTEC	D4	
FLCEFACILITIESLISTBYTED	D5	
FLCEFACILITIESLISTBYTEE	D6	

IHAPSAE mapping

Table 608. Cross Reference for IHAPSAE (continued)

Name	Offset	Hex Tag
FLCEFACILITIESLISTBYTEF	D7	
FLCEFACILITIESLISTBYTE0	C8	
FLCEFACILITIESLISTBYTE1	C9	
FLCEFACILITIESLISTBYTE2	CA	
FLCEFACILITIESLISTBYTE3	CB	
FLCEFACILITIESLISTBYTE4	CC	
FLCEFACILITIESLISTBYTE5	CD	
FLCEFACILITIESLISTBYTE6	CE	
FLCEFACILITIESLISTBYTE7	CF	
FLCEFACILITIESLISTBYTE8	D0	
FLCEFACILITIESLISTBYTE9	D1	
FLCEFACILITIESLIST1	D8	
FLCEFPSEF	CD	40
FLCEFSA	F8	
FLCEGENERALINTEXTENSION	CC	20
FLCEHFPMAS	CA	8
FLCEHFPUNNORMEXTENSION	CA	1
FLCEHIGHWORD	CD	4
FLCEICCW1	8	
FLCEICCW2	10	
FLCEIDTECLEARINGCOMBINEDREGION	C8	4
FLCEIDTECLEARINGCOMBINEDSEGMENT	C8	8
FLCEIDTEINSTALLED	C8	10
FLCEINPSW	1F0	
FLCEIOINTID	C0	
FLCEIOINTPARM	BC	
FLCEIOPSW	170	
FLCEIPPSW	0	
FLCEIPTERANGE	C9	4
FLCELOADANDTRAP	CE	40
FLCELOADSTOREONCONDITION	CD	4
FLCELOADSTOREONCOND2	CE	4
FLCELOEME	A3	1
FLCELONGDISPLACEMENT	CA	20
FLCELONGDISPLACEMENTHP	CA	10
FLCEMCIC	E8	
FLCEMCICE	F0	
FLCEMCNUM	94	
FLCEMESSAGESECURITYASSIST	CA	40
FLCEMISCINTEXT	CE	40
FLCEMNPSW	1E0	
FLCEMONITORCODE	B0	
FLCEMOPSW	160	
FLCEMPL	A4	
FLCEMSA4	D1	4
FLCENONQKEYSETTING	C9	2
FLCEOBSOLETECPUMEASUREMENT	CC	1
FLCEOPACID	A2	
FLCEPARSE	CB	20

Table 608. Cross Reference for IHAPSAE (continued)

Name	Offset	Hex Tag
FLCEPCNUM	AC	
FLCEPDATA	8C	
FLCEPDATABYTE0	8C	
FLCEPEALC	AF	8
FLCEPER	98	
FLCEPERAID	A1	
FLCEPERASCEID	97	3
FLCEPERATMID	97	
FLCEPERATMIDVALID	97	40
FLCEPERCODE	96	
FLCEPERCODE0	96	
FLCEPERIF	96	40
FLCEPERPSW16	97	8
FLCEPERPSW17	97	4
FLCEPERPSW32	97	20
FLCEPERPSW4	97	80
FLCEPERPSW5	97	10
FLCEPERSA	96	20
FLCEPERSAR	96	8
FLCEPERSB	96	80
FLCEPERTRANSACTIONEND	96	2
FLCEPERW0	98	
FLCEPERW1	9C	
FLCEPERZAD	96	4
FLCEPFPO	CD	8
FLCEPCODE	8E	
FLCEPCODE0	8E	
FLCEPCODE1	8F	
FLCEPIINFORMATION	90	
FLCEPILC	8D	
FLCEPILCB	8D	7
FLCEPMC	8F	40
FLCEPIPC	8F	3F
FLCEPIPER	8F	80
FLCEPNPSW	1D0	
FLCEPOPSW	150	
FLCEPOPULATIONCOUNT	CD	4
FLCERI	D0	80
FLCERNPSW	1A0	
FLCEROPSW	120	
FLCER0C4	C4	
FLCER018	18	
FLCER118	118	
FLCER180	180	
FLCESAME	0	
FLCESAME_LEN	1F0	200
FLCESCLP	D0	4
FLCESDATA	88	
FLCESDATABYTE0	88	

IHAPSAE mapping

Table 608. Cross Reference for IHAPSAE (continued)

Name	Offset	Hex Tag
FLCESENERUNNINGSTATUS	C9	40
FLCESETPROGRAMPARM	CD	80
FLCESICODE	8A	
FLCESILC	89	
FLCESILCB	89	7
FLCESNPSW	1C0	
FLCESOPI	AF	4
FLCESOPSW	140	
FLCESSID	B8	
FLCESTCKF	CB	40
FLCESTFLE	C8	1
FLCETCSF	CB	8
FLCETEA	A8	
FLCETEASN	AE	
FLCETEASNINFO	A8	
FLCETEASTD	AF	3
FLCETE6	AE	
FLCETE7	AF	
FLCETEID	A8	
FLCETEPCINFO	A8	
FLCETRANSSACTIONALEXECUTION	D1	40
FLCEVXC	93	
FLCEZARCH	C8	20
FLCEZARCHINSTALLED	C8	40
FLCEZARCHN3	C8	80

Chapter 153. IHAPSAX Information

IHAPSAX Heading Information

Common Name: PSA Extension (ESAME)
 Macro ID: IHAPSAX
 DSECT Name: PSAX
 Owing Component: SUPERVISOR CONTROL (SC1C5)
 Eye-Catcher ID: NONE
 Storage Attributes: Subpool: N/A
 Key: N/A
 Residency: N/A
 Size: PSAX -- X'1000' bytes
 Created by: USER
 Pointed to by: N/A
 Serialization: N/A
 Function: Maps the architected 2nd page of the PSA.
 This macro is automatically included when IHAPSA is included.

IHAPSAX mapping

Table 609. Structure THEPSAX

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE IsA(PSAX)	4096	THEPSAX	
0	(0)	CHARACTER	1024	PSAXFLCX	
0	(0)	CHARACTER	432	FLCXR000	FLCX 0x: reserved
432	(1B0)	CHARACTER	16	FLCXR1B0	FLCX 1B0x: reserved
448	(1C0)	CHARACTER	64	FLCXR1C0	FLCX 1C0x: reserved for programming
512	(200)	CHARACTER	512	FLCXMCSA	FLCX 200x: machine check or Store Status save area
512	(200)	CHARACTER	128	FLCXMCSAFPRS	FLCX 200x: FPRs
512	(200)	CHARACTER	8	FLCXMCSAFPR(0:15)	FLCX 200x: FPRs 0-15
640	(280)	CHARACTER	128	FLCXMCSAGPRS	FLCX 280x: GPRs
640	(280)	CHARACTER	8	FLCXMCSAGPR(0:15)	FLCX 280x: GPRs 0-15
768	(300)	CHARACTER	16	FLCXMCSAFLA	FLCX 300x: Fixed logout
768	(300)	CHARACTER	16	FLCXMCSAPSW	FLCX 300x: Store Status PSW
784	(310)	CHARACTER	8	FLCXR310	FLCX 310x: unused
792	(318)	ADDRESS	4	FLCXMCSAPREFIX	FLCX 318x: Store Status prefix
796	(31C)	CHARACTER	4	FLCXMCSAFPC	FLCX 31Cx: floating point control reg
800	(320)	CHARACTER	4	FLCXR320	FLCX 320x: unused
804	(324)	CHARACTER	4	FLCXMCSATODPR	FLCX 324x: TOD programmable reg
808	(328)	CHARACTER	8	FLCXMCSACPUTIMER	FLCX 328x: CPU timer
816	(330)	CHARACTER	1	FLCXR330	FLCX 330x: unused
817	(331)	CHARACTER	7	FLCXMCSACLOCKCOMPARATOR	FLCX 331x: Clock comparator bits 0-55
824	(338)	CHARACTER	8	FLCXR338	FLCX 338x: reserved
832	(340)	CHARACTER	64	FLCXMCSAARS	FLCX 340x: ARs

IHAPSAX mapping

Table 609. Structure THEPSAX (continued)

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
832	(340)	CHARACTER	4	FLCXMCSAAR(0:15)	FLCX 340x: ARs 0-15
896	(380)	CHARACTER	128	FLCXMCSACRS	FLCX 380x: CRs
896	(380)	CHARACTER	8	FLCXMCSACR(0:15)	FLCX 380x: CRs 0-15
1024	(400)	CHARACTER	256	PSAX0400	PSAX 400X:
1280	(500)	CHARACTER	256	PSAX0500	PSAX 500X:
1536	(600)	CHARACTER	256	PSAX0600	PSAX 600X:
1792	(700)	CHARACTER	256	PSAX0700	PSAX 700X:
2048	(800)	CHARACTER	256	PSAX_PITDB	PSAX 800X: Program interrupt diagnostic block mapped by IHATDB
2304	(900)	CHARACTER	256	PSAX0900	PSAX 900X:
2560	(A00)	CHARACTER	256	PSAX0A00	PSAX A00X:
2816	(B00)	CHARACTER	256	PSAX0B00	PSAX B00X:
3072	(C00)	CHARACTER	256	PSAX0C00	PSAX C00X:
3328	(D00)	CHARACTER	256	PSAX0D00	PSAX D00X:
3584	(E00)	CHARACTER	128	PSAX0E00	PSAX E00X:
3584	(E00)	CHARACTER	64	PSAXDATLK	PSAX E00X: Area for 64-bit dat-off assist linkage code
3648	(E40)	ADDRESS	4	PSAXDATOF	PSAX E40x: Real storage address of the 64-bit dat-off linkage table which is initialized by NIP for 64-bit dat-on/dat-off linkage
3652	(E44)	SIGNED	4	PSAXDATLN	PSAX E44x: Length of the 64-bit dat-off linkage table
3656	(E48)	ADDRESS	4	PSAXZ1	PSAX E48x:
3660	(E4C)	CHARACTER	52	PSAXRE4C	PSAX E4Cx: reserved
3712	(E80)	CHARACTER	256	PSAXSLSA	PSAX E80x: analog of PSASLSA. Single level save area used by disabled routines with no dependency that the save area will remain intact across a call. This area is not maintained by restart processing that results in an abend of the interrupted routine.
3968	(F80)	CHARACTER	128	PSAXRF80	PSAX F80x: reserved

Table 610. Constants for IHAPSAX

Len	Type	Value	Name	Description
4	DECIMAL	4096	PSAXPTR	
4	DECIMAL	0	PSAXDUMMYLEN1A	
4	DECIMAL	0	PSAXDUMMYLEN1B	

Table 611. Cross Reference for IHAPSAX

Name	Offset	Hex Tag
FLCXMCSA	200	
FLCXMCSAAR	340	
FLCXMCSAARS	340	
FLCXMCSACLOCKCOMPARATOR	331	
FLCXMCSACPUTIMER	328	

Table 611. Cross Reference for IHAPSAX (continued)

Name	Offset	Hex Tag
FLCXMCSACR	380	
FLCXMCSACRS	380	
FLCXMCSAFLA	300	
FLCXMCSAFPC	31C	
FLCXMCSAFPR	200	
FLCXMCSAFPRS	200	
FLCXMCSAGPR	280	
FLCXMCSAGPRS	280	
FLCXMCSAPREFIX	318	
FLCXMCSAPSW	300	
FLCXMCSATODPR	324	
FLCXR000	0	
FLCXR1B0	1B0	
FLCXR1C0	1C0	
FLCXR310	310	
FLCXR320	320	
FLCXR330	330	
FLCXR338	338	
PSAX_PITDB	800	
PSAXDATLK	E00	
PSAXDATLN	E44	
PSAXDATOF	E40	
PSAXFLCX	0	
PSAXRE4C	E4C	
PSAXRF80	F80	
PSAXSLSA	E80	
PSAXZ1	E48	
PSAX0A00	A00	
PSAX0B00	B00	
PSAX0C00	C00	
PSAX0D00	D00	
PSAX0E00	E00	
PSAX0400	400	
PSAX0500	500	
PSAX0600	600	
PSAX0700	700	
PSAX0900	900	
THEPSAX	0	

IHAPSAX mapping

Chapter 154. IHAPWVT Information

IHAPWVT Heading Information

Common Name: Processor Work Unit Queue Vector Table
Macro ID: IHAPWVT
DSECT Name: PWVT
Owning Component: Supervisor Control (SC1C5)
Eye-Catcher ID: PWVT
Offset: 0
Length: 4
Storage Attributes: Subpool: 239 (Fixed, ESQA)
Key: 0
Residency: Above 16M line
Size: 72 bytes
Created by: IEAVINIT
Pointed to by: ECVTPWVT field of the ECVT data area
Serialization: Enqueue on the SYSZVARY.CPU resource.
Function: Locates Processor WUQs (PWUQs)

IHAPWVT mapping

Table 612. Structure PWVT

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	0	PWVT	
0	(0)	CHARACTER	4	PWVTPWVT	Acronym in EBCDIC- "PWVT ".
4	(4)	BITSTRING	64	PWVTPWUQ	Address of PWUQs for processors 0-15.
68	(44)	BITSTRING	4	PWVTR044	Reserved. SEE DEPENDENCY SECTION.
72	(48)	DBL WORD	8	PWVTEND(0)	End of the PWVT.

IHAPWVT mapping

Chapter 155. IHARBUP Information

IHARBUP Programming Interface Information

IHARBUP is a programming interface.

IHARBUP Heading Information

Common Name: RB updated Return Information
Macro ID: IHARBUP
DSECT Name: none
Owning Component: Supervisor Control (SC1C5)
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: None required
Function: Return Codes from IEARBUP service

IHARBUP mapping

Table 613. Structure

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

IHARBUP mapping

Table 613. Structure (continued)

Offset Dec	Offset Hex Type	Len	Name(Dim)	Description
	IHARBUP_1;;			
	START OF SPECIFICATIONS			
	PROPRIETARY STATEMENT			
	01 PROPRIETARY STATEMENT=			
	LICENSED MATERIALS - PROPERTY OF IBM			
	THIS MACRO IS "RESTRICTED MATERIALS OF IBM"			
	5694-A01 (C) COPYRIGHT IBM CORP. 2000, 2001			
	STATUS= HBB7706			
	END OF PROPRIETARY STATEMENT			
	01 DESCRIPTIVE NAME: RB updated Return Information			
	02 ACRONYM: RBUP			
	01 MACRO NAME: IHARBUP			
	01 EXTERNAL CLASSIFICATION: GUPI			
	01 END OF EXTERNAL CLASSIFICATION:			
	01 DSECT NAME:			
	none			
	01 COMPONENT: Supervisor Control (SC1C5)			
	01 EYE-CATCHER: NONE			
	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:			
	None required			
	01 FUNCTION:			
	02 Return Codes from IEARBUP service			
	01 METHOD OF ACCESS:			
	02 ASM:			
	IHARBUP			
	02 PL/X:			
	%INCLUDE SYSLIB(IHARBUP)			
	01 DELETED BY: n/a			
	01 FREQUENCY: n/a			
	01 DEPENDENCIES: None			
	01 DISTRIBUTION LIBRARY: AMACLIB			
	01 CHANGE ACTIVITY:			
	\$L0=64BITCBG ,HBB7703 990820 PD00XB:			
	\$L0=64BITSUP ,HBB7703 990820 PD00XB:			
	END OF SPECIFICATIONS			
	IEARBUP Return and Reason Code definitions			
	.... ....		IEARBUPRC_OK	"X'00000000'" Meaning: Iearbup request successful.
	.... 1...		IEARBUPRC_INVPARM	"X'00000008'" Meaning: Iearbup request specifies invalid parameters. Action: Refer to the action provided with the specific reason code.
0	(0) BITSTRING	0	IEARBUPRSNBADVERSION	"X'00000801'" Meaning: The version field in the parameter list is not valid. Action: Check for possible storage overlay.

Table 613. Structure (continued)

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
0	(0)	BITSTRING	0	IEARBUPRSNBADAMODEFIELD	"X'00000802'" Meaning: The amode field in the parameter list is not valid. Action: Check for possible storage overlay.
0	(0)	BITSTRING	0	IEARBUPRSNBADADDRESS	"X'00000803'" Meaning: The address provided is not valid. Action: Only provide an instruction address that is less than X'80000000'.
0	(0)	BITSTRING	0	IEARBUPRSNBADFUNCTION	"X'00000804'" Meaning: The function field in the parameter list is not valid. Action: Check for possible storage overlay.
		.... 11..		IEARBUPRC_ENV	"X'0000000C'" Meaning: Environmental error Action: Refer to the action provided with the specific reason code.
0	(0)	BITSTRING	0	IEARBUPRSNPREVRBNOTFOUND	"X'00000C01'" Meaning: RB=PREV was requested, but there is only one RB for the current task. Action: Use RB=CURRENT when there is only one RB.
0	(0)	BITSTRING	0	IEARBUPRSNBADAMODE	"X'00000C02'" Meaning: AMODE=64 was specified but the architecture level is not ESAME. Action: Only request AMODE=64 when the architecture level is ESAME.

Table 614. Cross Reference for IHARBUP

Name	Offset	Hex Tag
IEARBUPRC_ENV	0	C
IEARBUPRC_INVPARM	0	8
IEARBUPRC_OK	0	0
IEARBUPRSNBADADDRESS	0	803
IEARBUPRSNBADAMODE	0	C02
IEARBUPRSNBADAMODEFIELD	0	802
IEARBUPRSNBADFUNCTION	0	804
IEARBUPRSNBADVERSION	0	801
IEARBUPRSNPREVRBNOTFOUND	0	C01

IHARBUP mapping

Chapter 156. IHASAVER Information

IHASAVER Programming Interface Information

IHASAVER is a programming interface.

IHASAVER Heading Information

Common Name: General Purpose Registers Save Area
Macro ID: IHASAVER
DSECT Name: SAVER SAVF4SA SAVF5SA SAVF7SA SAVF8SA
Owning Component: Supervisor Control (SC1C5)
Eye-Catcher ID: None
Storage Attributes: Subpool: Caller-supplied except SAVF5SA/SAVF8SA where it is determined by called routine
Key: Caller-supplied except SAVF5SA/SAVF8SA where it is determined by called routine
Residency: Caller-supplied except SAVF5SA/SAVF8SA where it is determined by called routine
Size: SAVER -- X'0048' bytes
SAVF4SA -- X'0090' bytes
SAVF5SA -- X'00D8' bytes
SAVF7SA -- X'00D8' bytes
SAVF8SA -- X'0120' bytes
Created by: Caller except for SAVF5SA/SAVF8SA which is created by called routine
Pointed to by: R13 on input to a called routine or getmaind by called routine
Serialization: None required
Function: Maps the save area

IHASAVER mapping

Table 615. Structure SAVER

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SAVER	
0	(0)	ADDRESS	4	SAVPLI	USED BY PL/I LANG. PRGM
4	(4)	ADDRESS	4	SAVPREV	ADDR OF PREVIOUS SAVEAREA
8	(8)	ADDRESS	4	SAVNEXT	ADDR OF NEXT SAVE AREA
12	(C)	ADDRESS	4	SAVGRS14	REGISTER 14
16	(10)	ADDRESS	4	SAVGRS15	REGISTER 15
20	(14)	ADDRESS	4	SAVGRS0	REGISTER 0
24	(18)	ADDRESS	4	SAVGRS1	REGISTER 1
28	(1C)	ADDRESS	4	SAVGRS2	REGISTER 2
32	(20)	ADDRESS	4	SAVGRS3	REGISTER 3
36	(24)	ADDRESS	4	SAVGRS4	REGISTER 4
40	(28)	ADDRESS	4	SAVGRS5	REGISTER 5
44	(2C)	ADDRESS	4	SAVGRS6	REGISTER 6
48	(30)	ADDRESS	4	SAVGRS7	REGISTER 7
52	(34)	ADDRESS	4	SAVGRS8	REGISTER 8
56	(38)	ADDRESS	4	SAVGRS9	REGISTER 9

IHASAVER mapping

Table 615. Structure SAVER (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
60	(3C)	ADDRESS	4	SAVGRS10	REGISTER 10
64	(40)	ADDRESS	4	SAVGRS11	REGISTER 11
68	(44)	ADDRESS	4	SAVGRS12	REGISTER 12
68	(44)	X'48'	0	SAVER_LEN	"*-SAVER"

Table 616. Structure SAVF4SA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SAVF4SA	
0	(0)	ADDRESS	4	SAVF4SALANG	USED BY LANGUAGES
4	(4)	CHARACTER	4	SAVF4SAID	'F4SA'
8	(8)	CHARACTER	8	SAVF4SAG64RS14	REGISTER 14
16	(10)	CHARACTER	8	SAVF4SAG64RS15	REGISTER 15
24	(18)	CHARACTER	8	SAVF4SAG64RS0	REGISTER 0
32	(20)	CHARACTER	8	SAVF4SAG64RS1	REGISTER 1
40	(28)	CHARACTER	8	SAVF4SAG64RS2	REGISTER 2
48	(30)	CHARACTER	8	SAVF4SAG64RS3	REGISTER 3
56	(38)	CHARACTER	8	SAVF4SAG64RS4	REGISTER 4
64	(40)	CHARACTER	8	SAVF4SAG64RS5	REGISTER 5
72	(48)	CHARACTER	8	SAVF4SAG64RS6	REGISTER 6
80	(50)	CHARACTER	8	SAVF4SAG64RS7	REGISTER 7
88	(58)	CHARACTER	8	SAVF4SAG64RS8	REGISTER 8
96	(60)	CHARACTER	8	SAVF4SAG64RS9	REGISTER 9
104	(68)	CHARACTER	8	SAVF4SAG64RS10	REGISTER 10
112	(70)	CHARACTER	8	SAVF4SAG64RS11	REGISTER 11
120	(78)	CHARACTER	8	SAVF4SAG64RS12	REGISTER 12
128	(80)	CHARACTER	8	SAVF4SAPREV	ADDR OF PREVIOUS SAVEAREA
136	(88)	CHARACTER	8	SAVF4SANEXT	ADDR OF NEXT SAVE AREA
136	(88)	X'F4E2C1'	0	SAVF4SAID_VALUE	"C'F4SA'"
136	(88)	X'90'	0	SAVF4SA_LEN	"*-SAVF4SA"

Table 617. Structure SAVF5SA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SAVF5SA	
0	(0)	ADDRESS	4	SAVF5SALANG	USED BY LANGUAGES
4	(4)	CHARACTER	4	SAVF5SAID	'F5SA'
8	(8)	CHARACTER	8	SAVF5SAG64RS14	REGISTER 14
16	(10)	CHARACTER	8	SAVF5SAG64RS15	REGISTER 15
24	(18)	CHARACTER	8	SAVF5SAG64RS0	REGISTER 0
32	(20)	CHARACTER	8	SAVF5SAG64RS1	REGISTER 1
40	(28)	CHARACTER	8	SAVF5SAG64RS2	REGISTER 2
48	(30)	CHARACTER	8	SAVF5SAG64RS3	REGISTER 3
56	(38)	CHARACTER	8	SAVF5SAG64RS4	REGISTER 4
64	(40)	CHARACTER	8	SAVF5SAG64RS5	REGISTER 5
72	(48)	CHARACTER	8	SAVF5SAG64RS6	REGISTER 6
80	(50)	CHARACTER	8	SAVF5SAG64RS7	REGISTER 7
88	(58)	CHARACTER	8	SAVF5SAG64RS8	REGISTER 8
96	(60)	CHARACTER	8	SAVF5SAG64RS9	REGISTER 9
104	(68)	CHARACTER	8	SAVF5SAG64RS10	REGISTER 10

Table 617. Structure SAVF5SA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
112	(70)	CHARACTER	8	SAVF5SAG64RS11	REGISTER 11
120	(78)	CHARACTER	8	SAVF5SAG64RS12	REGISTER 12
128	(80)	CHARACTER	8	SAVF5SAPREV	ADDR OF PREVIOUS SAVEAREA
136	(88)	CHARACTER	8	SAVF5SANEXT	ADDR OF NEXT SAVE AREA
144	(90)	ADDRESS	4	SAVF5SAG64HS0	High half of caller's R0
148	(94)	ADDRESS	4	SAVF5SAG64HS1	High half of caller's R1
152	(98)	ADDRESS	4	SAVF5SAG64HS2	High half of caller's R2
156	(9C)	ADDRESS	4	SAVF5SAG64HS3	High half of caller's R3
160	(A0)	ADDRESS	4	SAVF5SAG64HS4	High half of caller's R4
164	(A4)	ADDRESS	4	SAVF5SAG64HS5	High half of caller's R5
168	(A8)	ADDRESS	4	SAVF5SAG64HS6	High half of caller's R6
172	(AC)	ADDRESS	4	SAVF5SAG64HS7	High half of caller's R7
176	(B0)	ADDRESS	4	SAVF5SAG64HS8	High half of caller's R8
180	(B4)	ADDRESS	4	SAVF5SAG64HS9	High half of caller's R9
184	(B8)	ADDRESS	4	SAVF5SAG64HS10	High half of caller's R10
188	(BC)	ADDRESS	4	SAVF5SAG64HS11	High half of caller's R11
192	(C0)	ADDRESS	4	SAVF5SAG64HS12	High half of caller's R12
196	(C4)	ADDRESS	4	SAVF5SAG64HS13	High half of caller's R13
200	(C8)	ADDRESS	4	SAVF5SAG64HS14	High half of caller's R14
204	(CC)	ADDRESS	4	SAVF5SAG64HS15	High half of caller's R15
208	(D0)	CHARACTER	8		Undefined
208	(D0)	X'F5E2C1'	0	SAVF5SAID_VALUE	"C'F5SA'"
208	(D0)	X'D8'	0	SAVF5SA_LEN	"*-SAVF5SA"

Table 618. Structure SAVF7SA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SAVF7SA	
0	(0)	ADDRESS	4	SAVF7SALANG	USED BY LANGUAGES
4	(4)	CHARACTER	4	SAVF7SAID	'F7SA'
8	(8)	CHARACTER	8	SAVF7SAG64RS14	REGISTER 14
16	(10)	CHARACTER	8	SAVF7SAG64RS15	REGISTER 15
24	(18)	CHARACTER	8	SAVF7SAG64RS0	REGISTER 0
32	(20)	CHARACTER	8	SAVF7SAG64RS1	REGISTER 1
40	(28)	CHARACTER	8	SAVF7SAG64RS2	REGISTER 2
48	(30)	CHARACTER	8	SAVF7SAG64RS3	REGISTER 3
56	(38)	CHARACTER	8	SAVF7SAG64RS4	REGISTER 4
64	(40)	CHARACTER	8	SAVF7SAG64RS5	REGISTER 5
72	(48)	CHARACTER	8	SAVF7SAG64RS6	REGISTER 6
80	(50)	CHARACTER	8	SAVF7SAG64RS7	REGISTER 7
88	(58)	CHARACTER	8	SAVF7SAG64RS8	REGISTER 8
96	(60)	CHARACTER	8	SAVF7SAG64RS9	REGISTER 9
104	(68)	CHARACTER	8	SAVF7SAG64RS10	REGISTER 10
112	(70)	CHARACTER	8	SAVF7SAG64RS11	REGISTER 11
120	(78)	CHARACTER	8	SAVF7SAG64RS12	REGISTER 12
128	(80)	CHARACTER	8	SAVF7SAPREV	ADDR OF PREVIOUS SAVEAREA
136	(88)	CHARACTER	8	SAVF7SANEXT	ADDR OF NEXT SAVE AREA
144	(90)	SIGNED	4	SAVF7SAAR14	AR 14
148	(94)	SIGNED	4	SAVF7SAAR15	AR 15
152	(98)	SIGNED	4	SAVF7SAAR0	AR 0
156	(9C)	SIGNED	4	SAVF7SAAR1	AR 1

IHASAVER mapping

Table 618. Structure SAVF7SA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
160	(A0)	SIGNED	4	SAVF7SAAR2	AR 2
164	(A4)	SIGNED	4	SAVF7SAAR3	AR 3
168	(A8)	SIGNED	4	SAVF7SAAR4	AR 4
172	(AC)	SIGNED	4	SAVF7SAAR5	AR 5
176	(B0)	SIGNED	4	SAVF7SAAR6	AR 6
180	(B4)	SIGNED	4	SAVF7SAAR7	AR 7
184	(B8)	SIGNED	4	SAVF7SAAR8	AR 8
188	(BC)	SIGNED	4	SAVF7SAAR9	AR 9
192	(C0)	SIGNED	4	SAVF7SAAR10	AR 10
196	(C4)	SIGNED	4	SAVF7SAAR11	AR 11
200	(C8)	SIGNED	4	SAVF7SAAR12	AR 12
204	(CC)	SIGNED	4	SAVF7SAAR13	ALET of previous save area or undefined
208	(D0)	SIGNED	4	SAVF7SAASC	ASC mode of caller
212	(D4)	CHARACTER	4		Undefined
212	(D4)	X'F7E2C1'	0	SAVF7SAID_VALUE	"C'F7SA'"
212	(D4)	X'D8'	0	SAVF7SA_LEN	"*-SAVF7SA"

Table 619. Structure SAVF8SA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SAVF8SA	
0	(0)	ADDRESS	4	SAVF8SALANG	USED BY LANGUAGES
4	(4)	CHARACTER	4	SAVF8SAID	'F8SA'
8	(8)	CHARACTER	8	SAVF8SAG64RS14	REGISTER 14
16	(10)	CHARACTER	8	SAVF8SAG64RS15	REGISTER 15
24	(18)	CHARACTER	8	SAVF8SAG64RS0	REGISTER 0
32	(20)	CHARACTER	8	SAVF8SAG64RS1	REGISTER 1
40	(28)	CHARACTER	8	SAVF8SAG64RS2	REGISTER 2
48	(30)	CHARACTER	8	SAVF8SAG64RS3	REGISTER 3
56	(38)	CHARACTER	8	SAVF8SAG64RS4	REGISTER 4
64	(40)	CHARACTER	8	SAVF8SAG64RS5	REGISTER 5
72	(48)	CHARACTER	8	SAVF8SAG64RS6	REGISTER 6
80	(50)	CHARACTER	8	SAVF8SAG64RS7	REGISTER 7
88	(58)	CHARACTER	8	SAVF8SAG64RS8	REGISTER 8
96	(60)	CHARACTER	8	SAVF8SAG64RS9	REGISTER 9
104	(68)	CHARACTER	8	SAVF8SAG64RS10	REGISTER 10
112	(70)	CHARACTER	8	SAVF8SAG64RS11	REGISTER 11
120	(78)	CHARACTER	8	SAVF8SAG64RS12	REGISTER 12
128	(80)	CHARACTER	8	SAVF8SAPREV	ADDR OF PREVIOUS SAVEAREA
136	(88)	CHARACTER	8	SAVF8SANEXT	ADDR OF NEXT SAVE AREA
144	(90)	SIGNED	4	SAVF8SAAR14	AR 14
148	(94)	SIGNED	4	SAVF8SAAR15	AR 15
152	(98)	SIGNED	4	SAVF8SAAR0	AR 0
156	(9C)	SIGNED	4	SAVF8SAAR1	AR 1
160	(A0)	SIGNED	4	SAVF8SAAR2	AR 2
164	(A4)	SIGNED	4	SAVF8SAAR3	AR 3
168	(A8)	SIGNED	4	SAVF8SAAR4	AR 4
172	(AC)	SIGNED	4	SAVF8SAAR5	AR 5
176	(B0)	SIGNED	4	SAVF8SAAR6	AR 6
180	(B4)	SIGNED	4	SAVF8SAAR7	AR 7

Table 619. Structure SAVF8SA (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
184	(B8)	SIGNED		4	SAVF8SAAR8	AR 8
188	(BC)	SIGNED		4	SAVF8SAAR9	AR 9
192	(C0)	SIGNED		4	SAVF8SAAR10	AR 10
196	(C4)	SIGNED		4	SAVF8SAAR11	AR 11
200	(C8)	SIGNED		4	SAVF8SAAR12	AR 12
204	(CC)	SIGNED		4	SAVF8SAAR13	ALET of previous save area or undefined
208	(D0)	SIGNED		4	SAVF8SAASC	ASC mode of caller
212	(D4)	CHARACTER		4		Undefined
216	(D8)	ADDRESS		4	SAVF8SAG64HS0	High half of caller's R0
220	(DC)	ADDRESS		4	SAVF8SAG64HS1	High half of caller's R1
224	(E0)	ADDRESS		4	SAVF8SAG64HS2	High half of caller's R2
228	(E4)	ADDRESS		4	SAVF8SAG64HS3	High half of caller's R3
232	(E8)	ADDRESS		4	SAVF8SAG64HS4	High half of caller's R4
236	(EC)	ADDRESS		4	SAVF8SAG64HS5	High half of caller's R5
240	(F0)	ADDRESS		4	SAVF8SAG64HS6	High half of caller's R6
244	(F4)	ADDRESS		4	SAVF8SAG64HS7	High half of caller's R7
248	(F8)	ADDRESS		4	SAVF8SAG64HS8	High half of caller's R8
252	(FC)	ADDRESS		4	SAVF8SAG64HS9	High half of caller's R9
256	(100)	ADDRESS		4	SAVF8SAG64HS10	High half of caller's R10
260	(104)	ADDRESS		4	SAVF8SAG64HS11	High half of caller's R11
264	(108)	ADDRESS		4	SAVF8SAG64HS12	High half of caller's R12
268	(10C)	ADDRESS		4	SAVF8SAG64HS13	High half of caller's R13
272	(110)	ADDRESS		4	SAVF8SAG64HS14	High half of caller's R14
276	(114)	ADDRESS		4	SAVF8SAG64HS15	High half of caller's R15
280	(118)	CHARACTER		8		Undefined
280	(118)	X'F8E2C1'		0	SAVF8SAID_VALUE	"C'F8SA'"
280	(118)	X'120'		0	SAVF8SA_LEN	"*-SAVF8SA"

Table 620. Cross Reference for IHASAVER

Name	Offset	Hex Tag
SAVER	0	
SAVER_LEN	44	48
SAVF4SA	0	
SAVF4SA_LEN	88	90
SAVF4SAG64RS0	18	
SAVF4SAG64RS1	20	
SAVF4SAG64RS10	68	
SAVF4SAG64RS11	70	
SAVF4SAG64RS12	78	
SAVF4SAG64RS14	8	
SAVF4SAG64RS15	10	
SAVF4SAG64RS2	28	
SAVF4SAG64RS3	30	
SAVF4SAG64RS4	38	
SAVF4SAG64RS5	40	
SAVF4SAG64RS6	48	
SAVF4SAG64RS7	50	
SAVF4SAG64RS8	58	

IHASAVER mapping

Table 620. Cross Reference for IHASAVER (continued)

Name	Offset	Hex Tag
SAVF4SAG64RS9	60	
SAVF4SAID	4	
SAVF4SAID_VALUE	88	F4E2C1
SAVF4SALANG	0	
SAVF4SANEXT	88	
SAVF4SAPREV	80	
SAVF5SA	0	
SAVF5SA_LEN	D0	D8
SAVF5SAG64HS0	90	
SAVF5SAG64HS1	94	
SAVF5SAG64HS10	B8	
SAVF5SAG64HS11	BC	
SAVF5SAG64HS12	C0	
SAVF5SAG64HS13	C4	
SAVF5SAG64HS14	C8	
SAVF5SAG64HS15	CC	
SAVF5SAG64HS2	98	
SAVF5SAG64HS3	9C	
SAVF5SAG64HS4	A0	
SAVF5SAG64HS5	A4	
SAVF5SAG64HS6	A8	
SAVF5SAG64HS7	AC	
SAVF5SAG64HS8	B0	
SAVF5SAG64HS9	B4	
SAVF5SAG64RS0	18	
SAVF5SAG64RS1	20	
SAVF5SAG64RS10	68	
SAVF5SAG64RS11	70	
SAVF5SAG64RS12	78	
SAVF5SAG64RS14	8	
SAVF5SAG64RS15	10	
SAVF5SAG64RS2	28	
SAVF5SAG64RS3	30	
SAVF5SAG64RS4	38	
SAVF5SAG64RS5	40	
SAVF5SAG64RS6	48	
SAVF5SAG64RS7	50	
SAVF5SAG64RS8	58	
SAVF5SAG64RS9	60	
SAVF5SAID	4	
SAVF5SAID_VALUE	D0	F5E2C1
SAVF5SALANG	0	
SAVF5SANEXT	88	
SAVF5SAPREV	80	
SAVF7SA	0	
SAVF7SA_LEN	D4	D8
SAVF7SAAR0	98	
SAVF7SAAR1	9C	
SAVF7SAAR10	C0	

Table 620. Cross Reference for IHASAVER (continued)

Name	Offset	Hex Tag
SAVF7SAAR11	C4	
SAVF7SAAR12	C8	
SAVF7SAAR13	CC	
SAVF7SAAR14	90	
SAVF7SAAR15	94	
SAVF7SAAR2	A0	
SAVF7SAAR3	A4	
SAVF7SAAR4	A8	
SAVF7SAAR5	AC	
SAVF7SAAR6	B0	
SAVF7SAAR7	B4	
SAVF7SAAR8	B8	
SAVF7SAAR9	BC	
SAVF7SAASC	D0	
SAVF7SAG64RS0	18	
SAVF7SAG64RS1	20	
SAVF7SAG64RS10	68	
SAVF7SAG64RS11	70	
SAVF7SAG64RS12	78	
SAVF7SAG64RS14	8	
SAVF7SAG64RS15	10	
SAVF7SAG64RS2	28	
SAVF7SAG64RS3	30	
SAVF7SAG64RS4	38	
SAVF7SAG64RS5	40	
SAVF7SAG64RS6	48	
SAVF7SAG64RS7	50	
SAVF7SAG64RS8	58	
SAVF7SAG64RS9	60	
SAVF7SAID	4	
SAVF7SAID_VALUE	D4	F7E2C1
SAVF7SALANG	0	
SAVF7SANEXT	88	
SAVF7SAPREV	80	
SAVF8SA	0	
SAVF8SA_LEN	118	120
SAVF8SAAR0	98	
SAVF8SAAR1	9C	
SAVF8SAAR10	C0	
SAVF8SAAR11	C4	
SAVF8SAAR12	C8	
SAVF8SAAR13	CC	
SAVF8SAAR14	90	
SAVF8SAAR15	94	
SAVF8SAAR2	A0	
SAVF8SAAR3	A4	
SAVF8SAAR4	A8	
SAVF8SAAR5	AC	
SAVF8SAAR6	B0	

IHASAVER mapping

Table 620. Cross Reference for IHASAVER (continued)

Name	Offset	Hex Tag
SAVF8SAAR7	B4	
SAVF8SAAR8	B8	
SAVF8SAAR9	BC	
SAVF8SAASC	D0	
SAVF8SAG64HS0	D8	
SAVF8SAG64HS1	DC	
SAVF8SAG64HS10	100	
SAVF8SAG64HS11	104	
SAVF8SAG64HS12	108	
SAVF8SAG64HS13	10C	
SAVF8SAG64HS14	110	
SAVF8SAG64HS15	114	
SAVF8SAG64HS2	E0	
SAVF8SAG64HS3	E4	
SAVF8SAG64HS4	E8	
SAVF8SAG64HS5	EC	
SAVF8SAG64HS6	F0	
SAVF8SAG64HS7	F4	
SAVF8SAG64HS8	F8	
SAVF8SAG64HS9	FC	
SAVF8SAG64RS0	18	
SAVF8SAG64RS1	20	
SAVF8SAG64RS10	68	
SAVF8SAG64RS11	70	
SAVF8SAG64RS12	78	
SAVF8SAG64RS14	8	
SAVF8SAG64RS15	10	
SAVF8SAG64RS2	28	
SAVF8SAG64RS3	30	
SAVF8SAG64RS4	38	
SAVF8SAG64RS5	40	
SAVF8SAG64RS6	48	
SAVF8SAG64RS7	50	
SAVF8SAG64RS8	58	
SAVF8SAG64RS9	60	
SAVF8SAID	4	
SAVF8SAID_VALUE	118	F8E2C1
SAVF8SALANG	0	
SAVF8SANEXT	88	
SAVF8SAPREV	80	
SAVGRS0	14	
SAVGRS1	18	
SAVGRS10	3C	
SAVGRS11	40	
SAVGRS12	44	
SAVGRS14	C	
SAVGRS15	10	
SAVGRS2	1C	
SAVGRS3	20	

Table 620. Cross Reference for IHASAVER (continued)

Name	Offset	Hex Tag
SAVGRS4	24	
SAVGRS5	28	
SAVGRS6	2C	
SAVGRS7	30	
SAVGRS8	34	
SAVGRS9	38	
SAVNEXT	8	
SAVPLI	0	
SAVPREV	4	

IHASAVER mapping

Chapter 157. IHASCBO Information

IHASCBO Heading Information

Common Name: STAE Control Block Old (pre-z/OS R6)
 Macro ID: IHASCBO
 DSECT Name: SCBO, SCBOX
 Owing Component: Recovery Termination Manager (SCRTM)
 Eye-Catcher ID: None
 Storage Attributes: Subpool: 255
 Key: 0
 Size: 48 bytes
 Created by: IEAVSTA0, IEAVSTA1
 Pointed to by: TCBSTABB field of the TCB data area
 SCBOCHAIN field of the SCBO data area
 Serialization: Task Active
 Function: The SCBO is used to make STAE/ESTAE/ESTAEX recovery routines known to the system.

IHASCBO mapping

Table 621. Structure SCBO

Offset	Offset		Len	Name(Dim)	Description
Dec	Hex	Type			
0	(0)	STRUCTURE	24	SCBO	
0	(0)	ADDRESS	4	SCBOCHAIN	POINTER TO NEXT SCB ON CHAIN
4	(4)	ADDRESS	4	SCBOEXIT	POINTER TO USER WRITTEN EXIT ROUTINE
8	(8)	ADDRESS	4	SCBOPARM	ADDRESS OF PARAMETER LIST FOR STA EXIT
8	(8)	CHARACTER	1	SCBOFLGS1	FIRST FLAG BYTE
		1...		SCBOSTAI	STAI SCB
		.1...		SCBOASCM	ADDRESS SPACE CONTROL MODE FOR EXIT ROUTINE (0 = PRIMARY, 1 = AR MODE.
		..1.		SCBONCNL	NO CANCEL - ROUTINE RUNS PROTECTED FROM CANCELS AND DETACHES
		...1		SCBOESTAE	ESTAE INDICATOR
		.... 1...		SCBOTOKEN	ESTAE ESTABLISHED WITH TOKEN
		.... .1..		SCBOASYNC	ALLOW ASYNCHRONOUS INTERRUPTS
		.... ..11		SCBOIOPRC	I/O PROCESSING OPTION, BITS 6 & 7 00 - QUIESCE I/O 01 - HALT I/O 10 - BYPASS I/O INTERVENTION 11 - (RESERVED)
		.... ..1.		SCBONOIOF	BYPASS I/O INTERVENTION
		.... ...1		SCBOHALT	HALT I/O
9	(9)	ADDRESS	3	SCBOPARMA	24 BIT USER PARAMETER LIST ADDRESS
		1...		SCBOAM64	Extended AMODE - 64. Only valid when this is not a STAE/STAI and not a FESTAE

IHASCBO mapping

Table 621. Structure SCBO (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
12	(C)	ADDRESS	4	SCBOOWNR	TCB/RB ADDRESS CONTROLLING SCB
12	(C)	CHARACTER	1	SCBOFLGS2	SECOND FLAG BYTE
		1... ..		SCBOAMODE	USER IN 31 BIT ADDRESSING MODE
		1... ..		SCBOAM31	USER IN 31 BIT ADDRESSING MODE
		.1..		SCBOXCTL2	RETAIN THIS SCB ACROSS XCTL
		..1.		SCBOARRFL	THIS SCB WAS CREATED BY RTM2 TO MANAGE AN ASSOCIATED RECOVERY ROUTINE FROM THE LINKAGE STACK
		...1		SCBOINUSE	THIS SCB IN USE
		.... 1..		SCBOL031	SDWA is LOC 31
		.... .1..		SCBOPC	PC ESTAE TYPE SCB
		.... ..1.		SCBOKEY0	USER IN KEY 0-7
		.... ...1		SCBOSUPER	USER IN SUPERVISOR MODE
13	(D)	ADDRESS	3	SCBOOWNRA	RB ADDRESS IF STAE, TCB ADDRESS IF STAI.
16	(10)	ADDRESS	4	SCBODATA	FLAGS AND DATA FIELD
16	(10)	CHARACTER	1	SCBOFLGS3	OPTION FLAGS
		1... ..		SCBOSTAUT	STAE REQUESTOR IS AUTHORIZED
		.1..		SCBOTERMI	AUTHORIZED FOR SPECIAL TERM PROCESSING
		..1.		SCBORECRD	ON INDICATES ERROR RECORD IS TO BE WRITTEN TO SYS1.LOGREC
		...1		SCBODUMMY	DUMMY SCB - (WILL NOT BE SCHEDULED).
		.... 1..		SCBOPRNR	SCB PREVIOUSLY ENTERED
		.... .1..		SCBOBRNR	FESTAE
		.... ..1.		SCBORB	SAVED STATUS OF RBSCBO
		.... ...1		SCBOUNSS	UNSTACK SUPPRESS STATUS OF THE LINKAGE STACK ENTRY THAT WAS CURRENT WHEN THIS SCB WAS CREATED 1 - UNSTACK SUPPRESS WAS ACTIVE 0 - UNSTACK SUPPRESS WAS INACTIVE
17	(11)	CHARACTER	1	SCBOPKEY	PROGRAM KEY
18	(12)	CHARACTER	1	SCBOID	SCB IDENTIFIER
19	(13)	BITSTRING	1	SCBOPCFLG	PC ESTAE USER FLAGS, VALID IF SCBOPC IS ON
		1... ..		SCBOPTERM	Request for TERM ESTAE
		.1..		SCBOPREC	Request for RECORDing
		..1.		SCBOPXCTL	Request for XCTL
		...1		SCBOPNCNL	Request for CANCEL=NO
		.... 1..		*	TOKEN flag - not used
		.... .1..		SCBOPASYN	Request for ASYNCH
		.... ...11		SCBOPIO	I/O request bits 00 - QUIESCE I/O 01 - HALT I/O 10 - BYPASS I/O INTERVENTION 11 - (RESERVED)
		.... ..1.		SCBOPNOIO	Bypass I/O intervention
		.... ...1		SCBOPHALT	Halt I/O
20	(14)	ADDRESS	4	SCBOXPTR	POINTER TO SCB EXTENSION
		1... ..		SCBOFTIME	SCB WAS IN THE FIRST GETMAIN

Table 622. Structure SCBOX

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	24	SCBOX	SCB EXTENSION
0	(0)	CHARACTER	8	SCBOXCR34	CONTROL REGISTERS 3 AND 4
0	(0)	CHARACTER	2	SCBOXKMSK	KEYMASK
2	(2)	CHARACTER	6	SCBOXRSV	SECONDARY ASN, EXTENDED AUTH INDEX, AND PRIMARY ASN.
2	(2)	CHARACTER	2	SCBOXSASN	SECONDARY ASN
4	(4)	CHARACTER	2	SCBOXEAX	EXTENDED AUTH. INDEX
6	(6)	CHARACTER	2	SCBOXPASN	PRIMARY ASN
8	(8)	BITSTRING	4	SCBOXTOKN	ESTAE TOKEN VALUE
12	(C)	CHARACTER	8	SCBOXPRMS	FIELD NAME FOR IEAVSTA1
12	(C)	ADDRESS	4	SCBOXPARAM	31 BIT USER PARAMETER LIST ADDRESS
16	(10)	ADDRESS	4	SCBOXALET	ALET ASSOCIATED WITH PARAM
20	(14)	ADDRESS	4	SCBOXLSEA	LINKAGE STACK ENTRY ADDR

Table 623. Cross Reference for IHASCBO

Name	Offset	Hex Tag
SCBO	0	
SCBOAMODE	C	80
SCBOAM31	C	80
SCBOAM64	9	80
SCBOARRFL	C	20
SCBOASCM	8	40
SCBOASYNC	8	04
SCBOBRNTR	10	04
SCBOCHAIN	0	
SCBODATA	10	
SCBODUMMY	10	10
SCBOESTAE	8	10
SCBOEXIT	4	
SCBOFLGS1	8	
SCBOFLGS2	C	
SCBOFLGS3	10	
SCBOFTIME	14	80
SCBOHALT	8	01
SCBOID	12	
SCBOINUSE	C	10
SCBOIOPRC	8	03
SCBOKEY0	C	02
SCBOLO31	C	08
SCBONCNL	8	20
SCBONOIOP	8	02
SCBOOWNR	C	
SCBOOWNRA	D	
SCBOPARM	8	
SCBOPARMA	9	
SCBOPASYN	13	04
SCBOPC	C	04

IHASCBO mapping

Table 623. Cross Reference for IHASCBO (continued)

Name	Offset	Hex Tag
SCBOPCFLG	13	
SCBOPHALT	13	01
SCBOPIO	13	03
SCBOPKEY	11	
SCBOPNCNL	13	10
SCBOPNOIO	13	02
SCBOPREC	13	40
SCBOPRNTR	10	08
SCBOPTERM	13	80
SCBOPXCTL	13	20
SCBORB	10	02
SCBORECRD	10	20
SCBOSTAI	8	80
SCBOSTAUT	10	80
SCBOSUPER	C	01
SCBOTERMI	10	40
SCBOTOKEN	8	08
SCBOUNSS	10	01
SCBOX	0	
SCBOXALET	10	
SCBOXCR34	0	
SCBOXCTL2	C	40
SCBOXEAX	4	
SCBOXKMSK	0	
SCBOXLSEA	14	
SCBOXPARM	C	
SCBOXPASN	6	
SCBOXPRMS	C	
SCBOXPTR	14	
SCBOXRSV	2	
SCBOXSASN	2	
SCBOXTOKN	8	

Chapter 158. IHASDEXI Information

IHASDEXI Programming Interface Information

IHASDEXI is a programming interface.

IHASDEXI Heading Information

Common Name: SDUMP Exit information
Macro ID: IHASDEXI
DSECT Name: SDEXI SDEXIALST SDEXIDRPX
Owning Component: SDUMP (SCDMP)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: 231
Key: 0
Residency: Above 16M
Size: SDEXIDRPX64 -- X'0040' bytes
SDEXI -- X'0070' bytes
SDEXIWORK -- X'00C8' bytes
SDEXISAVE -- X'0048' bytes
SDEXIALST -- X'0004' bytes
SDEXIDRPX -- X'0040' bytes
SDEXIUTokenArea -- X'0100' bytes
Created by: Created by SDUMP, passed to SDUMP local/global exit(s)
Pointed to by: R1 on entry to SDUMP local/global exit(s)
Serialization: None required
Function: Maps the information needed by the SDUMP local/global exit(s)

IHASDEXI mapping

Table 624. Structure SDEXI

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SDEXI	SVC Dump exit parameter list fields for use by, or to be filled in by, exit.
0	(0)	CHARACTER	12		Contains no information for use by the exit.
12	(C)	ADDRESS	4	SDEXIBFAD	Address of data buffer. Set by SVC Dump. For use by exit.
16	(10)	SIGNED	4	SDEXIBFLN	Length of data buffer (4096 bytes). For use by exit.
20	(14)	ADDRESS	4	SDEXIORAD	Address of output routine. Set by SVC Dump. For use by exit. Interface to routine: AMODE=31. PASN=HASN=SASN Task mode. Enabled, no locks held, no EUT FRRs. Key 0, Supervisor State. R1 - address of SDEXI. R13 - address of 72-byte save area. R14 - return address. R15 - entry point address.

IHASDEXI mapping

Table 624. Structure SDEXI (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
24	(18)	CHARACTER	2	SDEXIKEYS	Storage keys for moved data. Must be set by exit if bit SdexiDRPS is not set.
24	(18)	CHARACTER	1	SDEXIFKEY	Storage key of first 2K of data (Key must be in bits 0-3, not 4-7 of the byte)
25	(19)	CHARACTER	1	SDEXISKEY	Storage key of second 2K of data (Key must be in bits 0-3, not 4-7 of the byte)
26	(1A)	CHARACTER	2	SDEXIASID	ASID of data moved to buffer. Must be set by exit if bit SdexiDRPS is not set.
28	(1C)	CHARACTER	4		Contains no information for use by the exit.
32	(20)	ADDRESS	4	SDEXICDAD	Address of data in buffer. Must be set by exit if bit SdexiDRPS is not set. This address should be on a page boundary, and the buffer should contain 4096 bytes of data representing the contents of the entire page.
36	(24)	CHARACTER	8		Contains no information for use by the exit.
44	(2C)	ADDRESS	4	SDEXISVAD	Address of 72-byte save area. Set by SVC Dump. For use by exit.
48	(30)	CHARACTER	4		Contains no information for use by the exit.
52	(34)	ADDRESS	4	SDEXIWKAD	Address of work area. Set by SVC Dump. For use by exit. Length is in SdexiWKLN (AT LEAST 200 BYTES)
56	(38)	SIGNED	4	SDEXIWKLN	Length of work area pointed to by SdexiWKAD
60	(3C)	ADDRESS	4	SDEXIDRPA	Address of dump record prefix to be filled in by exit

Bit definitions:

		1...		SDEXIDRPS	"X'80'" If on, then the dump record prefix was filled in by the exit. This bit is set by the exit, and checked by SVC Dump. It is initially off
64	(40)	ADDRESS	4	SDEXIALP	Pointer to the ASID list - Set by SVC Dump. For use by exit.
68	(44)	CHARACTER	8	SDEXISDAO	SDATA OPTIONS
68	(44)	CHARACTER	2	SDEXISDTA	SDATA OPTION FLAGS
68	(44)	CHARACTER	1	SDEXISDT1	1ST BYTE OF OPTIONS

Bit definitions:

		1...		SDEXIAPSA	"X'80'" DUMP ALL PSA'S
		.1..		SDEXIPSA	"X'40'" DUMP CURRENT PSA
		..1.		SDEXINUC	"X'20'" DUMP THE NUCLEUS
		...1		SDEXISQA	"X'10'" DUMP SQA
		.... 1...		SDEXILSQA	"X'08'" DUMP LSQA

Table 624. Structure SDEXI (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		SDEXIRGN	"X'04'" DUMP RGN-PRIVATE AREA
		.... ..1.		SDEXILPA	"X'02'" DUMP LPA MOD. FOR RGN
		.... ...1		SDEXITRT	"X'01'" DUMP TRACE DATA
69	(45)	CHARACTER	1	SDEXISDT2	SECOND BYTE SDATA FLGS
Bit definitions:					
		1...		SDEXICSA	"X'80'" DUMP CSA
		.1..		SDEXISWA	"X'40'" DUMP SWA
		..1.		SDEXISMDM	"X'20'" DUMP SUMMARY DUMP DATA
		...1		SDEXINSMD	"X'10'" DON'T DUMP SUMMARY DUMP
		.... 1...		SDEXINAPS	"X'08'" DO NOT DUMP ALL PSA
		.... .1..		SDEXINASQ	"X'04'" DO NOT DUMP SQA
		.... ..1.		SDEXIANUC	"X'02'" DUMP ALL NUCLEUS
		.... ...1		SDEXIDEFS	"X'01'" DEFAULTS
70	(46)	CHARACTER	4	SDEXISDA2	EXTENDED SDATA OPTIONS
70	(46)	BITSTRING	1	SDEXIEXIT1	SDATA OPTIONS EXIT ROUTINES
Bit definitions:					
		1...		SDEXIGRSQ	"X'80'" SDATA=GRSQ
		...1		SDEXICOUPLE	"X'10'" SDATA=COUPLE
		.... 1...		SDEXIXESDATA	"X'08'" SDATA=XESDATA
		.... ..1.		SDEXIWLMATA	"X'02'" SDATA=WLMATA
71	(47)	BITSTRING	1	SDEXIEXIT2	SDATA OPTIONS EXIT ROUTINES
Bit definitions:					
		..1.		SDEXISERVERS	"X'20'" SDATA=SERVERS
72	(48)	BITSTRING	1	SDEXISDT3	SDATA OPTIONS
Bit definitions:					
		1...		SDEXINDEF	"X'80'" NODEFAULTS
		.1..		SDEXIIO	"X'40'" DO I/O AREAS
		..1.		SDEXIHCSA	"X'20'" Dump HCSA by ASID
		...1		SDEXIHCSNO	"X'10'" Dump No Owner HCSA
		.... 1...		SDEXIHCSY	"X'08'" Dump System owned HCSA
73	(49)	BITSTRING	1	SDEXISDT4	SDATA OPTIONS
74	(4A)	CHARACTER	2		Reserved
76	(4C)	BITSTRING	1	SDEXIFLAGS	
Bit definitions:					

IHASDEXI mapping

Table 624. Structure SDEXI (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
		1...	....		SDEXIADDRESSRANGE	"X'80'" An address range has been provided, instead of placing the data into the provided buffer. The data must be in the current primary space or be addressable by an ALET that is currently on the DU-AL or the PASN AL. This may only be used if bit SdexiDRPS is off or (if it is on) if creating an address space or data space record. When SdexiDRPS is off, the storage range must represent the primary address space, with start address in SdexiCDAD and end address in SdexiRangeEnd. When SdexiDRPS is on for address space storage, the start address is in SdexiDrpxLAD, the end address in SdexiRangeEnd, and the ALET is in SdexiRangeALET. Use an ALET of 0 for the primary address space. When SdexiDRPS is on for data space storage, the start address is in SdexiDrpxLAD, the end address in SdexiRangeEnd, and the ALET is in SdexiRangeALET. In all cases, the start address will be rounded down to the nearest page boundary. The end address will be rounded up to the last byte of the page containing the input end address. For 64bit ranges, set the start address in SdexiDrpx64LAD or SdexiCDAD64 following the above rules. Then, instead of providing an end address in SdexiRangeEnd (which can only hold a 31bit address), set the SdexiRangeLengthInPages bit, then provide a count of the number of pages to capture in SdexiRangePageCount. Keep in mind that the starting address will be rounded down to a page boundary if it is not supplied on a page boundary - this may have an adverse affect on your page range. There is a hard 8T limit on the exit buffer, so the page count cannot be bigger than 7FFFFFFF.
		.1..	....		SDEXIADDRESS64	"X'40'" A 64-bit address has been provided in SdexiCDAD64.

Table 624. Structure SDEXI (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		..1.		SDEXIRANGELENGTHINPAGES	"X'20'" If set and processing an address range, the SdexiRangePageCount field will be used as the number of pages to capture instead of SdexiRangeEnd
		...1		SDEXIFLAG3	"X'10'" Reserved
		.... 1...		SDEXIFLAG4	"X'08'" Reserved
		.... .1..		SDEXIFLAG5	"X'04'" Reserved
		.... ..1.		SDEXIUTOKENPROVIDED	"X'02'" If set, it indicates that Exit has provided UtokenPtr in SdexiUtokenPtr field. Exits intending to exploit Utoken support must populate the UtokenArea as expected in addition to setting this flag to request DUMPSRV to capture global storage associated with supplied usertoken(s).
		.... ...1		SDEXIREMOTE	"X'01'" This remote dump resulted from a Remote dump request
77	(4D)	CHARACTER	3		RESERVED
80	(50)	ADDRESS	4	SDEXIRANGEEND	The entire page containing this byte will be dumped.
80	(50)	SIGNED	4	SDEXIRANGEPAGECOUNT	The number of pages to capture
84	(54)	SIGNED	4	SDEXIRANGEALLET	
88	(58)	ADDRESS	4	SDEXIPROBDESC@	Address of ProbDesc area for dump. 0 if no such area exists.
92	(5C)	ADDRESS	4	SDEXIINTOKEN@	Address of 32-byte incident token for dump.
96	(60)	CHARACTER	8	SDEXICDAD64	64-bit address of data in buffer. Must be set by exit if bit SdexiDRP2 is set. This address should be on a page boundary, and the buffer should contain 4096 bytes of data representing the contents of the entire page.
104	(68)	ADDRESS	4	SDEXIUTOKENPTR	Address of DUMPSRV supplied Utoken area. Set by SDUMP. Exits intending to use this area must also set SdexiUtokenProvided.
108	(6C)	CHARACTER	4		Available
108	(6C)	X'70'	0	SDEXI_LEN	"*-SDEXI"

Table 625. Structure SDEXIALST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SDEXIALST	LIST OF ASID WHICH ARE INCLUDED IN THE DUMP. IT IS BUILT BY SDUMP AND USED BY THE EXITS
0	(0)	SIGNED	2	SDEXIALST#	NUMBER OF ENTRIES

IHASDEXI mapping

Table 625. Structure SDEXIALST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2	(2)	CHARACTER	2	SDEXIALST_ARRAY	An array of ASIDs, the number of which is indicated by SdexiALST#
2	(2)	SIGNED	2	SDEXIALST_ENTRY	An ASID within the array.
2	(2)	X'40'	0	SDEXIMAXA	"64" MAXIMUM NUMBER OF ENTRIES IN THE ASID LIST
2	(2)	X'4'	0	SDEXIALST_LEN	"*-SDEXIALST"

Table 626. Structure SDEXIDRPX

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SDEXIDRPX	Dump record prefix to be filled in by the exit
0	(0)	CHARACTER	3	SDEXIDRPXID	Set by SDUMP. Exit should not change.
0	(0)	CHARACTER	2		DRPX identifier
2	(2)	CHARACTER	1	SDEXIDRPXIDV	DRPX version
3	(3)	BITSTRING	1	SDEXIDRPXLEN	Set by SDUMP. Exit should not change.
4	(4)	CHARACTER	16	SDEXIDRPXAS	ASCB information
4	(4)	CHARACTER	2	SDEXIDRPXAST	Address space type code. See Constants SdexiDrpxAST_xxx
6	(6)	SIGNED	2	SDEXIDRPXASH	
8	(8)	SIGNED	4	SDEXIDRPXAS1	
12	(C)	CHARACTER	8	SDEXIDRPXASC	Qualifier 2
12	(C)	SIGNED	4	SDEXIDRPXAS2	
16	(10)	SIGNED	4	SDEXIDRPXAS3	
20	(14)	ADDRESS	4	SDEXIDRPXLAD	Logical address. This should be on a page boundary.
24	(18)	SIGNED	4	SDEXIDRPXSEQ	Set by SDUMP. Exit should not change.
28	(1C)	CHARACTER	8		Set by SDUMP. Exit should not change.
36	(24)	CHARACTER	28	SDEXIDRPXTYPD	Record type specific data.
36	(24)	X'40'	0	SDEXIDRPX_LEN	"*-SDEXIDRPX"
36	(24)	BITSTRING	1	SDEXIDRPXTYPD_CV(0)	
36	(24)	BITSTRING	1	SDEXIDRPXTYPD_CV_KEY	Key should be in bits 0-3 of the field, not bits 4-7
36	(24)	X'1'	0	SDEXIDRPXTYPD_CV_LEN	"*-SDEXIDRPXTYPD_CV"
36	(24)	BITSTRING	1	SDEXIDRPXTYPD_DS(0)	
36	(24)	BITSTRING	1	SDEXIDRPXTYPD_DS_KEY	Key should be in bits 0-3 of the field, not bits 4-7
37	(25)	CHARACTER	5		Reserved
42	(2A)	CHARACTER	2		Reserved
44	(2C)	ADDRESS	4	SDEXIDRPXTYPD_DS_ASTE	Set by SDUMP. Exit should not change.
48	(30)	CHARACTER	8	SDEXIDRPXTYPD_DS_STOKEN	STOKEN
48	(30)	X'14'	0	SDEXIDRPXTYPD_DS_LEN	"*-SDEXIDRPXTYPD_DS"
36	(24)	BITSTRING	1	SDEXIDRPXTYPD_SC(0)	
36	(24)	BITSTRING	1	SDEXIDRPXTYPD_SC_KEY	Key should be in bits 0-3 of the field, not bits 4-7
37	(25)	CHARACTER	5		Reserved
42	(2A)	BITSTRING	1	SDEXIDRPXTYPD_SC_STYP	Storage Type

Table 626. Structure SDEXIDRPX (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
Bit definitions:						
		1...	....		SDEXIDRPXTYPD_SC_COMM	"X'80'" Storage is in common
		.1...	....		SDEXIDRPXTYPD_SC_AAFLAG	"X'40'" Absolute address supplied in SdexiDrpxTypd_SC_AAPtr
43	(2B)	CHARACTER		1		Reserved
44	(2C)	ADDRESS		4	SDEXIDRPXTYPD_SC_AAPTR	Absolute address
44	(2C)	X'C'		0	SDEXIDRPXTYPD_SC_LEN	"*-SDEXIDRPXTYPD_SC"

Table 627. Structure SDEXIDRPX64

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
0	(0)	STRUCTURE		0	SDEXIDRPX64	Dump record prefix v2 to be filled in by the exit
0	(0)	CHARACTER		20		
20	(14)	CHARACTER		8	SDEXIDRPX64LAD	Logical address. This should be on a page boundary.
20	(14)	ADDRESS		4	SDEXIDRPX64LADHI	High-order word of LAD
24	(18)	ADDRESS		4	SDEXIDRPX64LADLO	Low-order word of LAD
28	(1C)	CHARACTER		32		
28	(1C)	X'C3E5'		0	SDEXIDRPXAST_ADDRSPAC	"C'CV'" Address space
28	(1C)	X'C4E2'		0	SDEXIDRPXAST_DATASPACE	"C'DS'" Data space
28	(1C)	X'E2C3'		0	SDEXIDRPXAST_COMPDATA	"C'SC'" Component data
28	(1C)	X'100'		0	SDEXIUTOKENAREASIZE	"256" Size of SdexiUtokerArea
28	(1C)	X'14'		0	MAXXUTOKENENTRIES	"20" Maximum Utoker entries allowed in SdexiUtokerArea
64	(40)	X'40'		0	SDEXIDRPX64_LEN	"*-SDEXIDRPX64"

Table 628. Cross Reference for IHASDEXI

Name	Offset	Hex Tag
MAXXUTOKENENTRIES	1C	14
SDEXI	0	
SDEXI_LEN	6C	70
SDEXIADDRESSRANGE	4C	80
SDEXIADDRESS64	4C	40
SDEXIALP	40	
SDEXIALST	0	
SDEXIALST_ARRAY	2	
SDEXIALST_ENTRY	2	
SDEXIALST_LEN	2	4
SDEXIALST#	0	
SDEXIANUC	45	2
SDEXIAPSA	44	80
SDEXIASID	1A	
SDEXIBFAD	C	
SDEXIBFLN	10	
SDEXICDAD	20	
SDEXICDAD64	60	

IHASDEXI mapping

Table 628. Cross Reference for IHASDEXI (continued)

Name	Offset	Hex Tag
SDEXICOUPLE	46	10
SDEXICSA	45	80
SDEXIDEFS	45	1
SDEXIDRPA	3C	
SDEXIDRPS	3C	80
SDEXIDRPX	0	
SDEXIDRPX_LEN	24	40
SDEXIDRPXAS	4	
SDEXIDRPXASC	C	
SDEXIDRPXASH	6	
SDEXIDRPXAST	4	
SDEXIDRPXAST_ADDRSPAC	1C	C3E5
SDEXIDRPXAST_COMPDATA	1C	E2C3
SDEXIDRPXAST_DATASPAC	1C	C4E2
SDEXIDRPXAS1	8	
SDEXIDRPXAS2	C	
SDEXIDRPXAS3	10	
SDEXIDRPXID	0	
SDEXIDRPXIDV	2	
SDEXIDRPXLAD	14	
SDEXIDRPXLEN	3	
SDEXIDRPXSEQ	18	
SDEXIDRPXTYPD	24	
SDEXIDRPXTYPD_CV	24	
SDEXIDRPXTYPD_CV_KEY	24	
SDEXIDRPXTYPD_CV_LEN	24	1
SDEXIDRPXTYPD_DS	24	
SDEXIDRPXTYPD_DS_ASTE	2C	
SDEXIDRPXTYPD_DS_KEY	24	
SDEXIDRPXTYPD_DS_LEN	30	14
SDEXIDRPXTYPD_DS_STOKEN	30	
SDEXIDRPXTYPD_SC	24	
SDEXIDRPXTYPD_SC_AAFLAG	2A	40
SDEXIDRPXTYPD_SC_AAPTR	2C	
SDEXIDRPXTYPD_SC_COMM	2A	80
SDEXIDRPXTYPD_SC_KEY	24	
SDEXIDRPXTYPD_SC_LEN	2C	C
SDEXIDRPXTYPD_SC_STYP	2A	
SDEXIDRPX64	0	
SDEXIDRPX64_LEN	40	40
SDEXIDRPX64LAD	14	
SDEXIDRPX64LADHI	14	
SDEXIDRPX64LADLO	18	
SDEXIEXIT1	46	
SDEXIEXIT2	47	
SDEXIFKEY	18	
SDEXIFLAGS	4C	
SDEXIFLAG3	4C	10
SDEXIFLAG4	4C	8

Table 628. Cross Reference for IHASDEXI (continued)

Name	Offset	Hex Tag
SDEXIFLAG5	4C	4
SDEXIGRSQ	46	80
SDEXIHCAS	48	20
SDEXIHCNO	48	10
SDEXIHCSY	48	8
SDEXIINTOKEN@	5C	
SDEXIIO	48	40
SDEXIKEYS	18	
SDEXILPA	44	2
SDEXILSQA	44	8
SDEXIMAXA	2	40
SDEXINAPS	45	8
SDEXINASQ	45	4
SDEXINDEF	48	80
SDEXINSMD	45	10
SDEXINUC	44	20
SDEXIORAD	14	
SDEXIPROBDESC@	58	
SDEXIPSA	44	40
SDEXIRANGEALET	54	
SDEXIRANGEEND	50	
SDEXIRANGELENGTHINPAGES	4C	20
SDEXIRANGEPAGECOUNT	50	
SDEXIREMOTE	4C	1
SDEXIRGN	44	4
SDEXISDA0	44	
SDEXISDA2	46	
SDEXISDTA	44	
SDEXISDT1	44	
SDEXISDT2	45	
SDEXISDT3	48	
SDEXISDT4	49	
SDEXISERVERS	47	20
SDEXISKEY	19	
SDEXISMDM	45	20
SDEXISQA	44	10
SDEXISVAD	2C	
SDEXISWA	45	40
SDEXITRT	44	1
SDEXIUTOKENAREASIZE	1C	100
SDEXIUTOKENPROVIDED	4C	2
SDEXIUTOKENPTR	68	
SDEXIWKAD	34	
SDEXIWKLN	38	
SDEXIWLMDATA	46	2
SDEXIXESDATA	46	8

IHASDEXI mapping

Chapter 159. IHASDMSE Information

IHASDMSE Programming Interface Information

IHASDMSE is a programming interface.

IHASDMSE Heading Information

Common Name: SDUMPX Multisystem SDUMP Exit parameter area
Macro ID: IHASDMSE
DSECT Name: SDMSE SDMSE_MODEL SDMSE_ASIDLST SDMSE_STORAGE SDMSE_STORAGE64
SDMSE_JOBLIST SDMSE_DSPLIST SDMSE_SUBPLST SDMSE_KEYLIST
Owning Component: SDUMP (SCDMP)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: 252
Key: 0
Residency: Above 16M
Size: SDMSE -- X'0060' bytes
SDMSE_MODEL -- X'0008' bytes
SDMSE_ASIDLST -- X'0006' bytes
+ X'0002' bytes for each entry
after the first
SDMSE_STORAGE -- X'0014' bytes
+ X'0010' bytes for each entry
after the first
SDMSE_STORAGE64 -- X'001C' bytes
+ X'0018' bytes for each entry
after the first
SDMSE_JOBLIST -- X'000C' bytes
+ X'0010' bytes for each entry
after the first
SDMSE_DSPLIST -- X'0014' bytes
+ X'0018' bytes for each entry
after the first
SDMSE_SUBPLST -- X'0008' bytes
+ X'0004' bytes for each entry
after the first
SDMSE_KEYLIST -- X'0005' bytes
+ X'0001' bytes for each entry
after the first
Created by: Created by SDUMP and passed via R1 to multisystem Sdump exit
Pointed to by: R1 on entry to multisystem SDUMP exit
Serialization: None required
Function: Maps the parameter information passed to the multisystem
Sdump exit.

IHASDMSE mapping

Table 629. Structure SDMSE

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

IHASDMSE mapping

Table 629. Structure SDMSE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	BITSTRING	1	SDMSE_VERSION	Initial version is 0. This can be used by the exit to tell just how the parameter area is mapped.
1	(1)	CHARACTER	3		Unused
4	(4)	ADDRESS	4	SDMSE_INPUT_PROBDESC_ADDR	Address of problem description information provided via PROBDESC keyword when the SDUMP was initiated on a remote system. If this pointer is 0, no such information was provided. Otherwise, the area is in the format described for that keyword.
8	(8)	ADDRESS	4	SDMSE_INPUT_WORKAREA_ADDR	Address of 4096-byte workarea that the exit can use to build information for use by SDUMP. This field is an input value for the exit.
12	(C)	ADDRESS	4	SDMSE_OUTPUT_WORKAREA_ADDR	Address of workarea that the exit provided via GETMAIN or STORAGE OBTAIN when the input workarea was not large enough. This field is to be set by the exit when storage is so obtained. SDUMP will FREEMAIN this storage. The length and subpool and key must also be provided.
16	(10)	ADDRESS	4	SDMSE_OUTPUT_WORKAREA_LENGTH	Length of workarea pointed to by the output workarea. SDUMP will FREEMAIN this area. This field is to be set by the exit when storage is so obtained.
20	(14)	BITSTRING	1	SDMSE_OUTPUT_WORKAREA_SUBPOOL	Subpool of output workarea. This field is to be set by the exit when storage is so obtained.
21	(15)	BITSTRING	1	SDMSE_OUTPUT_WORKAREA_KEY	Key of output workarea (must be in range 0-X'F0'). This field is to be set by the exit when storage is so obtained.
22	(16)	CHARACTER	2		Reserved
24	(18)	ADDRESS	4	SDMSE_OUTPUT_ASIDLST_ADDR	This field should be set if the exit has indicated ASID(s) to be incorporated in the dump. The area pointed to by this field is mapped by DSECT SDMSE_ASIDLST
28	(1C)	ADDRESS	4	SDMSE_OUTPUT_STORAGE_ADDR	This field should be set if the exit has indicated Storage Ranges to be incorporated in the dump. The area pointed to by this field is mapped by DSECT SDMSE_STORAGE or DSECT Sdmse_Storage64

Table 629. Structure SDMSE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
32	(20)	ADDRESS	4	SDMSE_OUTPUT_JOBLIST_ADDR	This field should be set if the exit has indicated a list of jobnames to be incorporated in the dump. The area pointed to by this field is mapped by DSECT SDMSE_JOBLIST
36	(24)	ADDRESS	4	SDMSE_OUTPUT_DSPLIST_ADDR	This field should be set if the exit has indicated a list of data space names by which data spaces are to be incorporated in the dump. The area pointed to by this field is mapped by DSECT SDMSE_DSPLIST
40	(28)	ADDRESS	4	SDMSE_OUTPUT_SUBPLST_ADDR	This field should be set if the exit has indicated a list of subpools to be incorporated in the dump. The area pointed to by this field is mapped by DSECT SDMSE_SUBPLST
44	(2C)	ADDRESS	4	SDMSE_OUTPUT_KEYLIST_ADDR	This field should be set if the exit has indicated a list of keys to be incorporated in the dump. This is ignored unless SDMSE_SUBPLST_ADDR is also specified. The area pointed to by this field is mapped by DSECT SDMSE_KEYLIST
48	(30)	CHARACTER	8		Reserved
56	(38)	CHARACTER	8	SDMSE_SDATA_OPTIONS	These are mapped in the same order as they appear in the SDUMP parameter list. The desired subfields should be set if the exit has indicated SDATA options for the dump.
56	(38)	BITSTRING	1	SDMSE_SDATA_BYTE0	This field should be set if the exit has indicated SDATA options for the dump.

Bit definitions:

1... ..	SDMSE_SDATA_ALLPSA	"X'80'" Corresponds to SDUMPX SDATA option ALLPSA
.1..	SDMSE_SDATA_PSA	"X'40'" Corresponds to SDUMPX SDATA option PSA
..1.	SDMSE_SDATA_NUC	"X'20'" Corresponds to SDUMPX SDATA option NUC
...1	SDMSE_SDATA_SQA	"X'10'" Corresponds to SDUMPX SDATA option SQA
.... 1...	SDMSE_SDATA_LSQA	"X'08'" Corresponds to SDUMPX SDATA option LSQA
.... .1..	SDMSE_SDATA_RGN	"X'04'" Corresponds to SDUMPX SDATA option RGN
.... ..1.	SDMSE_SDATA_LPA	"X'02'" Corresponds to SDUMPX SDATA option LPA
.... ...1	SDMSE_SDATA_TRT	"X'01'" Corresponds to SDUMPX SDATA option TRT

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Table 629. Structure SDMSE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
57	(39)	BITSTRING	1	SDMSE_SDATA_BYTE1	This field should be set if the exit has indicated SDATA options for the dump.
Bit definitions:					
		1... ..		SDMSE_SDATA_CSA	"X'80'" Corresponds to SDUMPX SDATA option CSA
		.1.. ..		SDMSE_SDATA_SWA	"X'40'" Corresponds to SDUMPX SDATA option SWA
		..1.		SDMSE_SDATA_SUM	"X'20'" Corresponds to SDUMPX SDATA option SUM
		.... ..1.		SDMSE_SDATA_ALLNUC	"X'02'" Corresponds to SDUMPX SDATA option ALLNUC
		.... ...1		SDMSE_SDATA_DEFS	"X'01'" Corresponds to SDUMPX SDATA option DEFS
58	(3A)	BITSTRING	1	SDMSE_SDATA_BYTE2	This field should be set if the exit has indicated SDATA options for the dump.
Bit definitions:					
		1... ..		SDMSE_SDATA_GRSQ	"X'80'" Corresponds to SDUMPX SDATA option GRSQ
		...1		SDMSE_SDATA_COUPLE	"X'10'" Corresponds to SDUMPX SDATA option COUPLE
		.... 1...		SDMSE_SDATA_XESDATA	"X'08'" Corresponds to SDUMPX SDATA option XESDATA
		.... ..1.		SDMSE_SDATA_WLM	"X'02'" Corresponds to SDUMPX SDATA option XESDATA
59	(3B)	BITSTRING	1	SDMSE_SDATA_BYTE3	Sdata Byte 3
Bit definitions:					
		..1.		SDMSE_SDATA_SERVERS	"X'20'" Corresponds to SDUMPX SDATA option SERVERS
60	(3C)	BITSTRING	1	SDMSE_SDATA_BYTE4	Sdata Byte 4
Bit definitions:					
		.1..		SDMSE_SDATA_IO	"X'40'" Corresponds to SDUMPX SDATA option IO
		..1.		SDMSE_SDATA_HCAS	"X'20'" Corresponds to SDUMPX SDATA option HCAS
		...1		SDMSE_SDATA_HCNO	"X'10'" Corresponds to SDUMPX SDATA option HCNO
		.... 1...		SDMSE_SDATA_HCSY	"X'08'" Corresponds to SDUMPX SDATA option HCSY
61	(3D)	BITSTRING	1	SDMSE_SDATA_BYTE5	Sdata Byte 5 - Reserved, must be 0
62	(3E)	CHARACTER	2	SDMSE_SDATA_RSVD	Reserved, must be 0
64	(40)	ADDRESS	4	SDMSE_INPUT_ASIDLST_ADDR	This field indicates the ASID(s) incorporated in the dump. The area pointed to by this field is mapped by DSECT SDMSE_ASIDLST

Table 629. Structure *SDMSE* (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
68	(44)	ADDRESS	4	SDMSE_INPUT_STORAGE_ADDR	This field indicates the Storage Ranges incorporated in the dump. The area pointed to by this field is mapped by DSECT SDMSE_STORAGE. (Note: when SDUMP LIST64 parameter options are in effect then this field is set to zero and the SDMSE_INPUT_STORAGE64_ADDR field is set instead. @L2A-
72	(48)	ADDRESS	4	SDMSE_INPUT_SUBPLST_ADDR	This field indicates the list of subpools incorporated in the dump. The area pointed to by this field is mapped by DSECT SDMSE_SUBPLST
76	(4C)	ADDRESS	4	SDMSE_INPUT_KEYLIST_ADDR	This field indicates the list of keys incorporated in the dump. This will only be specified if SDMSE_SUBPLST_ADDR is also specified. The area pointed to by this field is mapped by DSECT SDMSE_KEYLIST
80	(50)	ADDRESS	4	SDMSE_INPUT_STORAGE64_ADDR	This field indicates the Storage Ranges incorporated in the dump when SDUMP LIST64 parameter options are in effect. The area pointed to by this field is mapped by DSECT SDMSE_STORAGE64
84	(54)	CHARACTER	4	SDMSE_FLAGS	Exit parm list flags
84	(54)	BITSTRING	1	SDMSE_FLAGS1	Flags byte 1

Bit definitions:

	1... ..			SDMSE_OUTPUT_STORAGE_TYPE64	"X'80'" Indicates that a non-zero value in SDMSE_OUTPUT_STORAGE_ADDR addresses a range list with format SDMSE_STORAGE64 rather than an SDMSE_STORAGE format
85	(55)	CHARACTER	3	SDMSE_FLAGS_RSVD	Reserved - must be zero
88	(58)	CHARACTER	8		Unused @L2A-
88	(58)	X'0'	0	SDMSE_VERSION_CURRENT	"0"
88	(58)	X'0'	0	SDMSE_VERSION_0	"0"
88	(58)	X'60'	0	SDMSE_LEN	"*-SDMSE"

Table 630. Structure *SDMSE_MODEL*

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SDMSE_MODEL	Model entry
0	(0)	CHARACTER	4	SDMSE_MODEL_HEADER	Header area
0	(0)	SIGNED	2	SDMSE_MODEL_LENGTH	Total length of area including the header area
2	(2)	CHARACTER	2		Reserved
4	(4)	SIGNED	4	SDMSE_MODEL_ENTRY	An entry

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Table 630. Structure *SDMSE_MODEL* (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	X'8'	0	SDMSE_MODEL_LEN	"*-SDMSE_MODEL"

Table 631. Structure *SDMSE_ASIDLST*

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SDMSE_ASIDLST	
0	(0)	CHARACTER	4	SDMSE_ASIDLST_HEADER	Header area
0	(0)	SIGNED	2	SDMSE_ASIDLST_LENGTH	Total length of area including the header area
2	(2)	CHARACTER	2		Reserved
4	(4)	CHARACTER	2	SDMSE_ASIDLST_ENTRY	This represents an array of ASIDs
4	(4)	SIGNED	2	SDMSE_ASIDLST_ASID	The ASID
4	(4)	X'6'	0	SDMSE_ASIDLST_LEN	"*-SDMSE_ASIDLST"

Table 632. Structure *SDMSE_STORAGE*

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SDMSE_STORAGE	
0	(0)	CHARACTER	4	SDMSE_STORAGE_HEADER	Header area
0	(0)	SIGNED	2	SDMSE_STORAGE_LENGTH	Total length of area including the header area
2	(2)	CHARACTER	2		Reserved
4	(4)	CHARACTER	16	SDMSE_STORAGE_ENTRY	This represents an array of start/end address pairs
4	(4)	CHARACTER	8	SDMSE_STORAGE_STOKEN	STOKEN of storage
12	(C)	ADDRESS	4	SDMSE_STORAGE_START	Start of range
16	(10)	ADDRESS	4	SDMSE_STORAGE_END	End of range
16	(10)	X'14'	0	SDMSE_STORAGE_LEN	"*-SDMSE_STORAGE"

Table 633. Structure *SDMSE_STORAGE64*

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SDMSE_STORAGE64	
0	(0)	CHARACTER	4	SDMSE_STORAGE64_HEADER	Header area
0	(0)	SIGNED	2	SDMSE_STORAGE64_LENGTH	Total length of area including the header area
2	(2)	CHARACTER	2		Reserved
4	(4)	CHARACTER	24	SDMSE_STORAGE64_ENTRY	This represents an array of start/end 64-bit address pairs
4	(4)	CHARACTER	8	SDMSE_STORAGE64_STOKEN	STOKEN of storage
12	(C)	CHARACTER	8	SDMSE_STORAGE64_START	Start of range
20	(14)	CHARACTER	8	SDMSE_STORAGE64_END	End of range
20	(14)	X'1C'	0	SDMSE_STORAGE64_LEN	"*-SDMSE_STORAGE64"

Table 634. Structure *SDMSE_JOBLIST*

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

Table 634. Structure *SDMSE_JOBLIST* (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	CHARACTER	4	SDMSE_JOBLIST_HEADER	Header area
0	(0)	SIGNED	2	SDMSE_JOBLIST_LENGTH	Total length of area including the header area
2	(2)	CHARACTER	2		Reserved
4	(4)	CHARACTER	8	SDMSE_JOBLIST_ENTRY	This represents an array of job names
4	(4)	CHARACTER	8	SDMSE_JOBLIST_NAME	The jobname
4	(4)	X'C'	0	SDMSE_JOBLIST_LEN	"*-SDMSE_JOBLIST"

Table 635. Structure *SDMSE_DSPLIST*

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SDMSE_DSPLIST	
0	(0)	CHARACTER	4	SDMSE_DSPLIST_HEADER	Header area
0	(0)	SIGNED	2	SDMSE_DSPLIST_LENGTH	Total length of area including the header area
2	(2)	CHARACTER	2		Reserved
4	(4)	CHARACTER	16	SDMSE_DSPLIST_ENTRY	This represents an array of data space owners and names
4	(4)	CHARACTER	8	SDMSE_DSPLIST_OWNER	The owner of the data space: this can be by jobname or by ASID
4	(4)	CHARACTER	8	SDMSE_DSPLIST_OWNER_JOBNAME	Fill this in, left-justified, padded with blanks, if specifying a jobname as the owner.
4	(4)	CHARACTER	6	SDMSE_DSPLIST_OWNER_ZEROES	Make sure this is zeroes if specifying an ASID as the owner.
10	(A)	SIGNED	2	SDMSE_DSPLIST_OWNER_ASID	Fill this in, zeroing the previous field too, if specifying an ASID as the owner.
12	(C)	CHARACTER	8	SDMSE_DSPLIST_NAME	The data space name
12	(C)	X'14'	0	SDMSE_DSPLIST_LEN	"*-SDMSE_DSPLIST"

Table 636. Structure *SDMSE_SUBPLST*

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SDMSE_SUBPLST	
0	(0)	CHARACTER	4	SDMSE_SUBPLST_HEADER	Header area
0	(0)	SIGNED	2	SDMSE_SUBPLST_LENGTH	Total length of area including the header area
2	(2)	CHARACTER	2		Reserved
4	(4)	CHARACTER	4	SDMSE_SUBPLST_ENTRY	This represents an array of ASID/Subpool pairs
4	(4)	SIGNED	2	SDMSE_SUBPLST_ASID	The ASID to which the subpool applies
6	(6)	SIGNED	2	SDMSE_SUBPLST_SUBPOOL	The subpool
6	(6)	X'8'	0	SDMSE_SUBPLST_LEN	"*-SDMSE_SUBPLST"

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Table 637. Structure SDMSE_KEYLIST

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
0	(0)	STRUCTURE		0	SDMSE_KEYLIST	
0	(0)	CHARACTER		4	SDMSE_KEYLIST_HEADER	Header area
0	(0)	SIGNED		2	SDMSE_KEYLIST_LENGTH	Total length of area including the header area
2	(2)	CHARACTER		2		Reserved
4	(4)	CHARACTER		1	SDMSE_KEYLIST_ENTRY	This represents an array of KEYS which are applied to the provided subpools
4	(4)	BITSTRING		1	SDMSE_KEYLIST_KEY	The key (must be X'00'-X'F0', not 0-15)
4	(4)	X'5'		0	SDMSE_KEYLIST_LEN	"*-SDMSE_KEYLIST"

Table 638. Cross Reference for IHASDMSE

Name	Offset	Hex	Tag
SDMSE	0		
SDMSE_ASIDLST	0		
SDMSE_ASIDLST_ASID	4		
SDMSE_ASIDLST_ENTRY	4		
SDMSE_ASIDLST_HEADER	0		
SDMSE_ASIDLST_LEN	4		6
SDMSE_ASIDLST_LENGTH	0		
SDMSE_DSPLIST	0		
SDMSE_DSPLIST_ENTRY	4		
SDMSE_DSPLIST_HEADER	0		
SDMSE_DSPLIST_LEN	C		14
SDMSE_DSPLIST_LENGTH	0		
SDMSE_DSPLIST_NAME	C		
SDMSE_DSPLIST_OWNER	4		
SDMSE_DSPLIST_OWNER_ASID	A		
SDMSE_DSPLIST_OWNER_JOBNAME	4		
SDMSE_DSPLIST_OWNER_ZEROES	4		
SDMSE_FLAGS	54		
SDMSE_FLAGS_RSVD	55		
SDMSE_FLAGS1	54		
SDMSE_INPUT_ASIDLST_ADDR	40		
SDMSE_INPUT_KEYLIST_ADDR	4C		
SDMSE_INPUT_PROBDESC_ADDR	4		
SDMSE_INPUT_STORAGE_ADDR	44		
SDMSE_INPUT_STORAGE64_ADDR	50		
SDMSE_INPUT_SUBPLST_ADDR	48		
SDMSE_INPUT_WORKAREA_ADDR	8		
SDMSE_JOBLIST	0		
SDMSE_JOBLIST_ENTRY	4		
SDMSE_JOBLIST_HEADER	0		
SDMSE_JOBLIST_LEN	4		C
SDMSE_JOBLIST_LENGTH	0		
SDMSE_JOBLIST_NAME	4		
SDMSE_KEYLIST	0		

Table 638. Cross Reference for IHASDMSE (continued)

Name	Offset	Hex Tag
SDMSE_KEYLIST_ENTRY	4	
SDMSE_KEYLIST_HEADER	0	
SDMSE_KEYLIST_KEY	4	
SDMSE_KEYLIST_LEN	4	5
SDMSE_KEYLIST_LENGTH	0	
SDMSE_LEN	58	60
SDMSE_MODEL	0	
SDMSE_MODEL_ENTRY	4	
SDMSE_MODEL_HEADER	0	
SDMSE_MODEL_LEN	4	8
SDMSE_MODEL_LENGTH	0	
SDMSE_OUTPUT_ASIDLST_ADDR	18	
SDMSE_OUTPUT_DSPLIST_ADDR	24	
SDMSE_OUTPUT_JOBLIST_ADDR	20	
SDMSE_OUTPUT_KEYLIST_ADDR	2C	
SDMSE_OUTPUT_STORAGE_ADDR	1C	
SDMSE_OUTPUT_STORAGE_TYPE64	54	80
SDMSE_OUTPUT_SUBPLST_ADDR	28	
SDMSE_OUTPUT_WORKAREA_ADDR	C	
SDMSE_OUTPUT_WORKAREA_KEY	15	
SDMSE_OUTPUT_WORKAREA_LENGTH	10	
SDMSE_OUTPUT_WORKAREA_SUBPOOL	14	
SDMSE_SDATA_ALLNUC	39	2
SDMSE_SDATA_ALLPSA	38	80
SDMSE_SDATA_BYTE0	38	
SDMSE_SDATA_BYTE1	39	
SDMSE_SDATA_BYTE2	3A	
SDMSE_SDATA_BYTE3	3B	
SDMSE_SDATA_BYTE4	3C	
SDMSE_SDATA_BYTE5	3D	
SDMSE_SDATA_COUPLE	3A	10
SDMSE_SDATA_CSA	39	80
SDMSE_SDATA_DEFS	39	1
SDMSE_SDATA_GRSQ	3A	80
SDMSE_SDATA_HCAS	3C	20
SDMSE_SDATA_HCNO	3C	10
SDMSE_SDATA_HCSY	3C	8
SDMSE_SDATA_IO	3C	40
SDMSE_SDATA_LPA	38	2
SDMSE_SDATA_LSQA	38	8
SDMSE_SDATA_NUC	38	20
SDMSE_SDATA_OPTIONS	38	
SDMSE_SDATA_PSA	38	40
SDMSE_SDATA_RGN	38	4
SDMSE_SDATA_RSVD	3E	
SDMSE_SDATA_SERVERS	3B	20
SDMSE_SDATA_SQA	38	10
SDMSE_SDATA_SUM	39	20
SDMSE_SDATA_SWA	39	40

IHASDMSE mapping

Table 638. Cross Reference for IHASDMSE (continued)

Name	Offset	Hex Tag
SDMSE_SDATA_TRT	38	1
SDMSE_SDATA_WLM	3A	2
SDMSE_SDATA_XESDATA	3A	8
SDMSE_STORAGE	0	
SDMSE_STORAGE_END	10	
SDMSE_STORAGE_ENTRY	4	
SDMSE_STORAGE_HEADER	0	
SDMSE_STORAGE_LEN	10	14
SDMSE_STORAGE_LENGTH	0	
SDMSE_STORAGE_START	C	
SDMSE_STORAGE_STOKEN	4	
SDMSE_STORAGE64	0	
SDMSE_STORAGE64_END	14	
SDMSE_STORAGE64_ENTRY	4	
SDMSE_STORAGE64_HEADER	0	
SDMSE_STORAGE64_LEN	14	1C
SDMSE_STORAGE64_LENGTH	0	
SDMSE_STORAGE64_START	C	
SDMSE_STORAGE64_STOKEN	4	
SDMSE_SUBPLST	0	
SDMSE_SUBPLST_ASID	4	
SDMSE_SUBPLST_ENTRY	4	
SDMSE_SUBPLST_HEADER	0	
SDMSE_SUBPLST_LEN	6	8
SDMSE_SUBPLST_LENGTH	0	
SDMSE_SUBPLST_SUBPOOL	6	
SDMSE_VERSION	0	
SDMSE_VERSION_CURRENT	58	0
SDMSE_VERSION_0	58	0

Chapter 160. IHASDPD Information

IHASDPD Programming Interface Information

IHASDPD is a programming interface.

IHASDPD Heading Information

Common Name: SDUMPX ProbDesc area mapping
Macro ID: IHASDPD
DSECT Name: SDPD
Owning Component: SDUMP (SCDMP)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: caller-supplied
Key: caller-supplied
Residency: caller-supplied
Size: SDPD -- X'0004' bytes
+ variable data
SDPD_KLD -- X'000A' bytes
+ variable data
Created by: Created by SDUMP issuer, passed via PROBDDESC keyword
Pointed to by: PROBDDESC address field of SDUMP parameter list
Serialization: None required
Function: Maps the PROBDDESC parameter information

IHASDPD mapping

Table 639. Structure SDPD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SDPD	
0	(0)	CHARACTER	4	SDPD_HEADER	
0	(0)	SIGNED	4	SDPD_LENGTH	Total length of area, including this length field
4	(4)	CHARACTER	1	SDPD_DATA(0)	Entries in Key-length-data format. The SDPD_LENGTH field is used to determine how many entries there are. See SDPD_KLD.
4	(4)	X'4'	0	SDPD_LEN	"*-SDPD"

Table 640. Structure SDPD_KLD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SDPD_KLD	, Key-length-data entry
0	(0)	CHARACTER	10	SDPD_KLD_HEADER	Header
0	(0)	CHARACTER	8	SDPD_KLD_KEY	The 8-byte key. Keys beginning with "A" through "I" or with "SYS" are reserved for IBM use.
0	(0)	CHARACTER	3	SDPD_KLD_KEY_COMPMPREFIX	Component identifier. IBM products should use their 3-character module prefix.

IHASDPD mapping

Table 640. Structure SDPD_KLD (continued)

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
3	(3)	CHARACTER	5	SDPD_KLD_KEY_COMPINFO	Component information identifier. This is up to the component to decide how to use. It can be used to differentiate between different problem description information entries for the given component. A possible use is: 2 bytes to indicate the subcomponent followed by a 3-byte number to indicate what kind of information this is.
8	(8)	SIGNED	2	SDPD_KLD_LENGTH	Length of data that follows. It does not include the length of this field itself or of the key field.
10	(A)	CHARACTER	1	SDPD_KLD_DATA(0)	Data, in whatever format the component chooses.
10	(A)	X'A'	0	SDPD_KLD_LEN	"*-SDPD_KLD"

Table 641. Cross Reference for IHASDPD

Name	Offset	Hex	Tag
SDPD	0		
SDPD_DATA	4		
SDPD_HEADER	0		
SDPD_KLD	0		
SDPD_KLD_DATA	A		
SDPD_KLD_HEADER	0		
SDPD_KLD_KEY	0		
SDPD_KLD_KEY_COMPINFO	3		
SDPD_KLD_KEY_COMPPREFIX	0		
SDPD_KLD_LEN	A	A	
SDPD_KLD_LENGTH	8		
SDPD_LEN	4	4	
SDPD_LENGTH	0		

Chapter 161. IHASDRMT Information

IHASDRMT Programming Interface Information

IHASDRMT is a programming interface.

IHASDRMT Heading Information

Common Name: SDUMPX REMOTE keyword information area
Macro ID: IHASDRMT
DSECT Name: SDRMT SDRMT_MODEL SDRMT_SYSLIST SDRMT_GRPLIST SDRMT_SDATA
SDRMT_ASIDLST SDRMT_STORAGE SDRMT_LIST64 SDRMT_JOBLIST SDRMT_DSPLIST
SDRMT_SUBPLST SDRMT_KEYLIST SDRMT_COPY
Owning Component: SDUMP (SCDMP)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: Caller-supplied
Key: Caller-supplied
Residency: Caller-supplied
Size: Variable
SDRMT -- X'0004' bytes
SDRMT_MODEL -- X'0004' bytes
SDRMT_SYSLIST -- X'0014' bytes
+ X'0018' bytes for each entry
after the first
SDRMT_GRPLIST -- X'001C' bytes
+ X'0018' bytes for each entry
after the first
SDRMT_SDATA -- X'000C' bytes
SDRMT_ASIDLST -- X'0008' bytes
+ X'0004' bytes for each entry
after the first
SDRMT_STORAGE -- X'0014' bytes
+ X'0010' bytes for each entry
after the first
SDRMT_LIST64 -- X'001C' bytes
+ X'0018' bytes for each entry
after the first
SDRMT_JOBLIST -- X'000C' bytes
+ X'0010' bytes for each entry
after the first
SDRMT_DSPLIST -- X'0014' bytes
+ X'0018' bytes for each entry
after the first
SDRMT_SUBPLST -- X'0008' bytes
+ X'0004' bytes for each entry
after the first
SDRMT_KEYLIST -- X'0008' bytes
+ X'0004' bytes for each entry
after the first
SDRMT_COPY -- X'0004' bytes
Created by: Created by Caller and passed as parameter on REMOTE keyword
on SDUMPX
Pointed to by: SDUMPX parameter list
Serialization: None required
Function: Maps the data passed by the REMOTE keyword.

IHASDRMT mapping

Table 642. Structure SDRMT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SDRMT	
0	(0)	SIGNED	4	SDRMT_LENGTH	Total length for REMOTE info. Data begins at SDRMT_DATA with entries contiguously defined from that point.
4	(4)	CHARACTER	1	SDRMT_DATA(0)	Start of remote data
Constants to identify the DSECT. Note that the constants ending with "_COPY" should use the SDRMT_COPY DSECT.					
4	(4)	X'4'	0	SDRMT_IDCON_SYSLIST	"4"
4	(4)	X'8'	0	SDRMT_IDCON_GRPLIST	"8"
4	(4)	X'C'	0	SDRMT_IDCON_SDATA	"12"
4	(4)	X'D'	0	SDRMT_IDCON_SDATA_COPY	"13"
4	(4)	X'10'	0	SDRMT_IDCON_ASIDLST	"16"
4	(4)	X'11'	0	SDRMT_IDCON_ASIDLST_COPY	"17" Indicates to copy the ASIDLST used for this dump.
4	(4)	X'14'	0	SDRMT_IDCON_STORAGE	"20"
4	(4)	X'15'	0	SDRMT_IDCON_STORAGE_COPY	"21" Indicates to copy the input LISTD specification
4	(4)	X'18'	0	SDRMT_IDCON_JOBLIST	"24"
4	(4)	X'19'	0	SDRMT_IDCON_JOBLIST_COPY	"25"
4	(4)	X'1C'	0	SDRMT_IDCON_DSPLIST	"28"
4	(4)	X'1D'	0	SDRMT_IDCON_DSPLIST_COPY	"29"
4	(4)	X'20'	0	SDRMT_IDCON_SUBPLST	"32"
4	(4)	X'21'	0	SDRMT_IDCON_SUBPLST_COPY	"33"
4	(4)	X'24'	0	SDRMT_IDCON_KEYLIST	"36"
4	(4)	X'25'	0	SDRMT_IDCON_KEYLIST_COPY	"37"
4	(4)	X'28'	0	SDRMT_IDCON_LIST64	"40"
4	(4)	X'29'	0	SDRMT_IDCON_LIST64_COPY	"41" Indicates to copy the input LIST64 specification
4	(4)	X'4'	0	SDRMT_LEN	"*-SDRMT"

Table 643. Structure SDRMT_MODEL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SDRMT_MODEL	
0	(0)	CHARACTER	4	SDRMT_MODEL_HEADER	
0	(0)	SIGNED	2	SDRMT_MODEL_ID	Contains the ID of the entry
2	(2)	SIGNED	2	SDRMT_MODEL_LENGTH	Total length of area including this length field and the ID field
4	(4)	CHARACTER	1	SDRMT_MODEL_ENTRY(0)	Start of data for the entry
4	(4)	X'4'	0	SDRMT_MODEL_LEN	"*-SDRMT_MODEL"

Table 644. Structure SDRMT_SYSLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SDRMT_SYSLIST	
0	(0)	CHARACTER	4	SDRMT_SYSLIST_HEADER	

Table 644. Structure SDRMT_SYSLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	SIGNED	2	SDRMT_SYSLIST_ID	Use SDRMT_IDCON_SYSLIST to initialize
2	(2)	SIGNED	2	SDRMT_SYSLIST_LENGTH	Total length of area including this length field and the ID field
4	(4)	CHARACTER	16	SDRMT_SYSLIST_ENTRY	This represents an array of sysname/jobname or sysname/ASID pairs
4	(4)	CHARACTER	8	SDRMT_SYSLIST_SYSNAME	The system name
12	(C)	CHARACTER	8	SDRMT_SYSLIST_JOBNAME_ASID	Area that contains either all 0s (no jobname/ASID), JOBNAME/ID, or ZEROES&ASID
12	(C)	CHARACTER	8	SDRMT_SYSLIST_JOBNAME	Fill this in, left-justified, padded with blanks, if specifying a jobname. The entire field should be 0s if neither jobname nor ASID is wanted.
12	(C)	CHARACTER	6	SDRMT_SYSLIST_ZEROES	Make sure this is zeroes if specifying an ASID.
18	(12)	SIGNED	2	SDRMT_SYSLIST_ASID	Fill this in, zeroing the previous field too, if specifying an ASID.
18	(12)	X'14'	0	SDRMT_SYSLIST_LEN	"*-SDRMT_SYSLIST"

Table 645. Structure SDRMT_GRPLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SDRMT_GRPLIST	
0	(0)	CHARACTER	4	SDRMT_GRPLIST_HEADER	
0	(0)	SIGNED	2	SDRMT_GRPLIST_ID	Use SDRMT_IDCON_GRPLIST to initialize
2	(2)	SIGNED	2	SDRMT_GRPLIST_LENGTH	Total length of area including this length field and the ID field
4	(4)	CHARACTER	24	SDRMT_GRPLIST_ENTRY	This represents an array of group/member pairs. If all members of the group are wanted, use a member name of "*".
4	(4)	CHARACTER	8	SDRMT_GRPLIST_GRPNAME	The group name
12	(C)	CHARACTER	16	SDRMT_GRPLIST_MEMNAME	The member name
12	(C)	X'1C'	0	SDRMT_GRPLIST_LEN	"*-SDRMT_GRPLIST"

Table 646. Structure SDRMT_SDATA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SDRMT_SDATA	This field should be set if the caller has indicated SDATA options for the dump.
0	(0)	CHARACTER	4	SDRMT_SDATA_HEADER	
0	(0)	SIGNED	2	SDRMT_SDATA_ID	Use SDRMT_IDCON_SDATA to initialize

IHASDRMT mapping

Table 646. Structure SDRMT_SDATA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2	(2)	SIGNED	2	SDRMT_SDATA_LENGTH	Total length of area including this length field and the ID field
4	(4)	CHARACTER	8	SDRMT_SDATA_OPTIONS	These are mapped in the same order as they appear in the SDUMP parameter list
4	(4)	BITSTRING	1	SDRMT_SDATA_BYTE0	This field should be set if the caller has indicated SDATA options for the dump.
Bit definitions:					
		1...		SDRMT_SDATA_ALLPSA	"X'80'" Corresponds to SDUMPX SDATA option ALLPSA
		.1..		SDRMT_SDATA_PSA	"X'40'" Corresponds to SDUMPX SDATA option PSA
		..1.		SDRMT_SDATA_NUC	"X'20'" Corresponds to SDUMPX SDATA option NUC
		...1		SDRMT_SDATA_SQA	"X'10'" Corresponds to SDUMPX SDATA option SQA
		.... 1...		SDRMT_SDATA_LSQA	"X'08'" Corresponds to SDUMPX SDATA option LSQA
		.... .1..		SDRMT_SDATA_RGN	"X'04'" Corresponds to SDUMPX SDATA option RGN
		.... ..1.		SDRMT_SDATA_LPA	"X'02'" Corresponds to SDUMPX SDATA option LPA
		.... ...1		SDRMT_SDATA_TRT	"X'01'" Corresponds to SDUMPX SDATA option TRT
5	(5)	BITSTRING	1	SDRMT_SDATA_BYTE1	This field should be set if the caller has indicated SDATA options for the dump.
Bit definitions:					
		1...		SDRMT_SDATA_CSA	"X'80'" Corresponds to SDUMPX SDATA option CSA
		.1..		SDRMT_SDATA_SWA	"X'40'" Corresponds to SDUMPX SDATA option SWA
		..1.		SDRMT_SDATA_SUM	"X'20'" Corresponds to SDUMPX SDATA option SUM
		.... 1...		SDRMT_SDATA_NOALLPSA	"X'08'" Corresponds to SDUMPX SDATA option NOALLPSA
		.... .1..		SDRMT_SDATA_NOSQA	"X'04'" Corresponds to SDUMPX SDATA option NOSQA
		.... ..1.		SDRMT_SDATA_ALLNUC	"X'02'" Corresponds to SDUMPX SDATA option ALLNUC
		.... ...1		SDRMT_SDATA_DEFS	"X'01'" Corresponds to SDUMPX SDATA option DEFS
6	(6)	BITSTRING	1	SDRMT_SDATA_BYTE2	This field should be set if the caller has indicated SDATA options for the dump.
Bit definitions:					
		1...		SDRMT_SDATA_GRSQ	"X'80'" Corresponds to SDUMPX SDATA option GRSQ
		...1		SDRMT_SDATA_COUPLE	"X'10'" Corresponds to SDUMPX SDATA option COUPLE

Table 646. Structure SDRMT_SDATA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		SDRMT_SDATA_XESDATA	"X'08'" Corresponds to SDUMPX SDATA option XESDATA
		.... ..1.		SDRMT_SDATA_WLM	"X'02'" Corresponds to SDUMPX SDATA option WLM
7	(7)	BITSTRING	1	SDRMT_SDATA_BYTE3	Sdata Byte 3
Bit definitions:					
		..1.		SDRMT_SDATA_SERVERS	"X'20'" Corresponds to SDUMPX SDATA option SERVERS
8	(8)	BITSTRING	1	SDRMT_SDATA_BYTE4	Sdata Byte 4
Bit definitions:					
		1...		SDRMT_SDATA_NODEFS	"X'80'" Corresponds to SDUMPX SDATA option NODEFS
		.1..		SDRMT_SDATA_IO	"X'40'" Corresponds to SDUMPX SDATA option IO
		..1.		SDRMT_SDATA_HCAS	"X'20'" Corresponds to SDUMPX SDATA option HCAS
		...1		SDRMT_SDATA_HCNO	"X'10'" Corresponds to SDUMPX SDATA option HCNO
		.... 1...		SDRMT_SDATA_HCSY	"X'08'" Corresponds to SDUMPX SDATA option HCSY
9	(9)	BITSTRING	1	SDRMT_SDATA_BYTE5	Sdata Byte 5 - Reserved, must be 0
10	(A)	CHARACTER	2	SDRMT_SDATA_RSVD	Reserved, must be 0
10	(A)	X'C'	0	SDRMT_SDATA_LEN	"*-SDRMT_SDATA"

Table 647. Structure SDRMT_ASIDLST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SDRMT_ASIDLST	
0	(0)	CHARACTER	4	SDRMT_ASIDLST_HEADER	
0	(0)	SIGNED	2	SDRMT_ASIDLST_ID	Use SDRMT_IDCON_ASIDLST to initialize
2	(2)	SIGNED	2	SDRMT_ASIDLST_LENGTH	Total length of area including this length field and the ID field
4	(4)	CHARACTER	4	SDRMT_ASIDLST_ENTRY	This represents an array of ASIDs
4	(4)	SIGNED	4	SDRMT_ASIDLST_ASID	The ASID
4	(4)	X'8'	0	SDRMT_ASIDLST_LEN	"*-SDRMT_ASIDLST"

Table 648. Structure SDRMT_STORAGE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SDRMT_STORAGE	
0	(0)	CHARACTER	4	SDRMT_STORAGE_HEADER	
0	(0)	SIGNED	2	SDRMT_STORAGE_ID	Use SDRMT_IDCON_STORAGE to initialize
2	(2)	SIGNED	2	SDRMT_STORAGE_LENGTH	Total length of area including this length field and the ID field

IHASDRMT mapping

Table 648. Structure SDRMT_STORAGE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	CHARACTER	16	SDRMT_STORAGE_ENTRY	This represents an array of begin/end address pairs
4	(4)	CHARACTER	8	SDRMT_STORAGE_STOKEN	STOKEN of storage
12	(C)	ADDRESS	4	SDRMT_STORAGE_BEGIN@	Beginning address of range
16	(10)	ADDRESS	4	SDRMT_STORAGE_END@	Ending address of range
16	(10)	X'14'	0	SDRMT_STORAGE_LEN	"*-SDRMT_STORAGE"

Table 649. Structure SDRMT_LIST64

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SDRMT_LIST64	
0	(0)	CHARACTER	4	SDRMT_LIST64_HEADER	
0	(0)	SIGNED	2	SDRMT_LIST64_ID	Use SDRMT_Idcon_List64 to initialize
2	(2)	SIGNED	2	SDRMT_LIST64_LENGTH	Total length of area including this length field and the ID field
4	(4)	CHARACTER	24	SDRMT_LIST64_ENTRY	This represents an array of begin/end address pairs
4	(4)	CHARACTER	8	SDRMT_LIST64_STOKEN	STOKEN of storage
12	(C)	CHARACTER	8	SDRMT_LIST64_BEGIN64@	Beginning address of range
20	(14)	CHARACTER	8	SDRMT_LIST64_END64@	Ending address of range
20	(14)	X'1C'	0	SDRMT_LIST64_LEN	"*-SDRMT_LIST64"

Table 650. Structure SDRMT_JOBLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SDRMT_JOBLIST	
0	(0)	CHARACTER	4	SDRMT_JOBLIST_HEADER	
0	(0)	SIGNED	2	SDRMT_JOBLIST_ID	Use SDRMT_IDCON_JOBLIST to initialize
2	(2)	SIGNED	2	SDRMT_JOBLIST_LENGTH	Total length of area including this length field and the ID field
4	(4)	CHARACTER	8	SDRMT_JOBLIST_ENTRY	This represents an array of job names
4	(4)	CHARACTER	8	SDRMT_JOBLIST_NAME	The jobname. Left-justified, padded with blanks as needed.
4	(4)	X'C'	0	SDRMT_JOBLIST_LEN	"*-SDRMT_JOBLIST"

Table 651. Structure SDRMT_DSPLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SDRMT_DSPLIST	
0	(0)	CHARACTER	4	SDRMT_DSPLIST_HEADER	
0	(0)	SIGNED	2	SDRMT_DSPLIST_ID	Use SDRMT_IDCON_DSPLIST to initialize
2	(2)	SIGNED	2	SDRMT_DSPLIST_LENGTH	Total length of area including this length field and the ID field

Table 651. Structure SDRMT_DSPLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	CHARACTER	16	SDRMT_DSPLIST_ENTRY	This represents an array of job names
4	(4)	CHARACTER	8	SDRMT_DSPLIST_OWNER	The owner of the data space: this can be by jobname or by ASID
4	(4)	CHARACTER	8	SDRMT_DSPLIST_OWNER_JOBNAME	Fill this in, left-justified, padded with blanks, if specifying a jobname as the owner.
4	(4)	CHARACTER	6	SDRMT_DSPLIST_OWNER_ZEROES	Make sure this is zeroes if specifying an ASID as the owner.
10	(A)	SIGNED	2	SDRMT_DSPLIST_OWNER_ASID	Fill this in, zeroing the previous field too, if specifying an ASID as the owner.
12	(C)	CHARACTER	8	SDRMT_DSPLIST_NAME	The data space name
12	(C)	X'14'	0	SDRMT_DSPLIST_LEN	"*-SDRMT_DSPLIST"

Table 652. Structure SDRMT_SUBPLST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SDRMT_SUBPLST	
0	(0)	CHARACTER	4	SDRMT_SUBPLST_HEADER	
0	(0)	SIGNED	2	SDRMT_SUBPLST_ID	Use SDRMT_IDCON_SUBPLST to initialize
2	(2)	SIGNED	2	SDRMT_SUBPLST_LENGTH	Total length of area including this length field and the ID field
4	(4)	CHARACTER	4	SDRMT_SUBPLST_ENTRY	This represents an array of ASID/Subpool pairs
4	(4)	SIGNED	2	SDRMT_SUBPLST_ASID	The ASID to which the subpool applies
6	(6)	SIGNED	2	SDRMT_SUBPLST_SUBPOOL	The subpool
6	(6)	X'8'	0	SDRMT_SUBPLST_LEN	"*-SDRMT_SUBPLST"

Table 653. Structure SDRMT_KEYLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SDRMT_KEYLIST	
0	(0)	CHARACTER	4	SDRMT_KEYLIST_HEADER	
0	(0)	SIGNED	2	SDRMT_KEYLIST_ID	Use SDRMT_IDCON_KEYLIST to initialize
2	(2)	SIGNED	2	SDRMT_KEYLIST_LENGTH	Total length of area including this length field and the ID field
4	(4)	CHARACTER	4	SDRMT_KEYLIST_ENTRY	This represents an array of KEYS which are applied to the provided subpools
4	(4)	SIGNED	4	SDRMT_KEYLIST_KEY	The key (must be X'00'-X'F0', not 0-15)
4	(4)	X'8'	0	SDRMT_KEYLIST_LEN	"*-SDRMT_KEYLIST"

IHASDRMT mapping

Table 654. Structure SDRMT_COPY

Offset					
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SDRMT_COPY	
0	(0)	CHARACTER	4	SDRMT_COPY_HEADER	
0	(0)	SIGNED	2	SDRMT_COPY_ID	Use SDRMT_xxxxx_COPY to initialize
2	(2)	SIGNED	2	SDRMT_COPY_LENGTH	Total length of area including this length field and the ID field
2	(2)	X'4'	0	SDRMT_COPY_LEN	"*-SDRMT_COPY"

Table 655. Cross Reference for IHASDRMT

Name	Offset	Hex	Tag
SDRMT	0		
SDRMT_ASIDLST	0		
SDRMT_ASIDLST_ASID	4		
SDRMT_ASIDLST_ENTRY	4		
SDRMT_ASIDLST_HEADER	0		
SDRMT_ASIDLST_ID	0		
SDRMT_ASIDLST_LEN	4		8
SDRMT_ASIDLST_LENGTH	2		
SDRMT_COPY	0		
SDRMT_COPY_HEADER	0		
SDRMT_COPY_ID	0		
SDRMT_COPY_LEN	2		4
SDRMT_COPY_LENGTH	2		
SDRMT_DATA	4		
SDRMT_DSPLIST	0		
SDRMT_DSPLIST_ENTRY	4		
SDRMT_DSPLIST_HEADER	0		
SDRMT_DSPLIST_ID	0		
SDRMT_DSPLIST_LEN	C		14
SDRMT_DSPLIST_LENGTH	2		
SDRMT_DSPLIST_NAME	C		
SDRMT_DSPLIST_OWNER	4		
SDRMT_DSPLIST_OWNER_ASID	A		
SDRMT_DSPLIST_OWNER_JOBNAME	4		
SDRMT_DSPLIST_OWNER_ZEROES	4		
SDRMT_GRPLIST	0		
SDRMT_GRPLIST_ENTRY	4		
SDRMT_GRPLIST_GRPNAME	4		
SDRMT_GRPLIST_HEADER	0		
SDRMT_GRPLIST_ID	0		
SDRMT_GRPLIST_LEN	C		1C
SDRMT_GRPLIST_LENGTH	2		
SDRMT_GRPLIST_MEMNAME	C		
SDRMT_IDCON_ASIDLST	4		10
SDRMT_IDCON_ASIDLST_COPY	4		11
SDRMT_IDCON_DSPLIST	4		1C
SDRMT_IDCON_DSPLIST_COPY	4		1D

Table 655. Cross Reference for IHASDRMT (continued)

Name	Offset	Hex Tag
SDRMT_IDCON_GRPLIST	4	8
SDRMT_IDCON_JOBLIST	4	18
SDRMT_IDCON_JOBLIST_COPY	4	19
SDRMT_IDCON_KEYLIST	4	24
SDRMT_IDCON_KEYLIST_COPY	4	25
SDRMT_IDCON_LIST64	4	28
SDRMT_IDCON_LIST64_COPY	4	29
SDRMT_IDCON_SDATA	4	C
SDRMT_IDCON_SDATA_COPY	4	D
SDRMT_IDCON_STORAGE	4	14
SDRMT_IDCON_STORAGE_COPY	4	15
SDRMT_IDCON_SUBPLST	4	20
SDRMT_IDCON_SUBPLST_COPY	4	21
SDRMT_IDCON_SYSLIST	4	4
SDRMT_JOBLIST	0	
SDRMT_JOBLIST_ENTRY	4	
SDRMT_JOBLIST_HEADER	0	
SDRMT_JOBLIST_ID	0	
SDRMT_JOBLIST_LEN	4	C
SDRMT_JOBLIST_LENGTH	2	
SDRMT_JOBLIST_NAME	4	
SDRMT_KEYLIST	0	
SDRMT_KEYLIST_ENTRY	4	
SDRMT_KEYLIST_HEADER	0	
SDRMT_KEYLIST_ID	0	
SDRMT_KEYLIST_KEY	4	
SDRMT_KEYLIST_LEN	4	8
SDRMT_KEYLIST_LENGTH	2	
SDRMT_LEN	4	4
SDRMT_LENGTH	0	
SDRMT_LIST64	0	
SDRMT_LIST64_BEGIN64@	C	
SDRMT_LIST64_END64@	14	
SDRMT_LIST64_ENTRY	4	
SDRMT_LIST64_HEADER	0	
SDRMT_LIST64_ID	0	
SDRMT_LIST64_LEN	14	1C
SDRMT_LIST64_LENGTH	2	
SDRMT_LIST64_STOKEN	4	
SDRMT_MODEL	0	
SDRMT_MODEL_ENTRY	4	
SDRMT_MODEL_HEADER	0	
SDRMT_MODEL_ID	0	
SDRMT_MODEL_LEN	4	4
SDRMT_MODEL_LENGTH	2	
SDRMT_SDATA	0	
SDRMT_SDATA_ALLNUC	5	2
SDRMT_SDATA_ALLPSA	4	80
SDRMT_SDATA_BYTE0	4	

IHASDRMT mapping

Table 655. Cross Reference for IHASDRMT (continued)

Name	Offset	Hex Tag
SDRMT_SDATA_BYTE1	5	
SDRMT_SDATA_BYTE2	6	
SDRMT_SDATA_BYTE3	7	
SDRMT_SDATA_BYTE4	8	
SDRMT_SDATA_BYTE5	9	
SDRMT_SDATA_COUPLE	6	10
SDRMT_SDATA_CSA	5	80
SDRMT_SDATA_DEFS	5	1
SDRMT_SDATA_GRSQ	6	80
SDRMT_SDATA_HCAS	8	20
SDRMT_SDATA_HCN0	8	10
SDRMT_SDATA_HCSY	8	8
SDRMT_SDATA_HEADER	0	
SDRMT_SDATA_ID	0	
SDRMT_SDATA_IO	8	40
SDRMT_SDATA_LEN	A	C
SDRMT_SDATA_LENGTH	2	
SDRMT_SDATA_LPA	4	2
SDRMT_SDATA_LSQA	4	8
SDRMT_SDATA_NOALLPSA	5	8
SDRMT_SDATA_NODEFS	8	80
SDRMT_SDATA_NOSQA	5	4
SDRMT_SDATA_NUC	4	20
SDRMT_SDATA_OPTIONS	4	
SDRMT_SDATA_PSA	4	40
SDRMT_SDATA_RGN	4	4
SDRMT_SDATA_RSVD	A	
SDRMT_SDATA_SERVERS	7	20
SDRMT_SDATA_SQA	4	10
SDRMT_SDATA_SUM	5	20
SDRMT_SDATA_SWA	5	40
SDRMT_SDATA_TRT	4	1
SDRMT_SDATA_WLM	6	2
SDRMT_SDATA_XESDATA	6	8
SDRMT_STORAGE	0	
SDRMT_STORAGE_BEGIN@	C	
SDRMT_STORAGE_END@	10	
SDRMT_STORAGE_ENTRY	4	
SDRMT_STORAGE_HEADER	0	
SDRMT_STORAGE_ID	0	
SDRMT_STORAGE_LEN	10	14
SDRMT_STORAGE_LENGTH	2	
SDRMT_STORAGE_STOKEN	4	
SDRMT_SUBPLST	0	
SDRMT_SUBPLST_ASID	4	
SDRMT_SUBPLST_ENTRY	4	
SDRMT_SUBPLST_HEADER	0	
SDRMT_SUBPLST_ID	0	
SDRMT_SUBPLST_LEN	6	8

Table 655. Cross Reference for IHASDRMT (continued)

Name	Offset	Hex Tag
SDRMT_SUBPLST_LENGTH	2	
SDRMT_SUBPLST_SUBPOOL	6	
SDRMT_SYSLIST	0	
SDRMT_SYSLIST_ASID	12	
SDRMT_SYSLIST_ENTRY	4	
SDRMT_SYSLIST_HEADER	0	
SDRMT_SYSLIST_ID	0	
SDRMT_SYSLIST_JOBNAME	C	
SDRMT_SYSLIST_JOBNAME_ASID	C	
SDRMT_SYSLIST_LEN	12	14
SDRMT_SYSLIST_LENGTH	2	
SDRMT_SYSLIST_SYSNAME	4	
SDRMT_SYSLIST_ZEROES	C	

IHASDRMT mapping

Chapter 162. IHASDSTR Information

IHASDSTR Programming Interface Information

IHASDSTR is a programming interface.

IHASDSTR Heading Information

Common Name: SDUMPX STRLIST Parameter List Mappings
Macro ID: IHASDSTR
DSECT Name: SDSTR_HEADER_MAP - STRLIST Header Mapping SDSTR_LENGTH_MAP - STRLIST Length Mapping SDSTR_WORK_AREAS - IHABLDP Work Area Mapping SDSTR_STRUCTURE - STRLIST Structure Entry Mapping SDSTR_RANGE - STRLIST Range/Option Entry Mapping
Owning Component: SVC Dump (SCDMP)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: User Defined
Key: User Defined
Residency: User Defined
Size: Variable
Created by: User
Pointed to by: User
Serialization: None required
Function: Maps the STRLIST parameter list entries that will be constructed by the IHABLDP macro and will be provided as input to the STRLIST parameter on the SDUMPX macro.

IHASDSTR mapping

Table 656. Structure

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

IHASDSTR mapping

Table 656. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
%END;					
START OF SPECIFICATIONS					
01 SECURITY:					
01 PROPRIETARY STATEMENT=					
PROPRIETARY_STATEMENT					
Proprietary Statement =					
LICENSED MATERIALS - PROPERTY OF IBM					
THIS MACRO IS "RESTRICTED MATERIALS OF IBM"					
5645-001 (C) COPYRIGHT IBM CORP 1996					
SEE COPYRIGHT INSTRUCTIONS					
Status = HBB6601					
END_OF_PROPRIETARY_STATEMENT					
01 DESCRIPTIVE NAME: SDUMPX STRLIST Parameter List Mappings					
02 ACRONYM: N/A					
01 MACRO NAME: IHASDSTR					
01 DSECT NAME:					
SDSTR_HEADER_MAP - STRLIST Header Mapping					
SDSTR_LENGTH_MAP - STRLIST Length Mapping					
SDSTR_WORK_AREAS - IHABLDP Work Area Mapping					
SDSTR_STRUCTURE - STRLIST Structure Entry Mapping					
SDSTR_RANGE - STRLIST Range/Option Entry Mapping					
01 COMPONENT: SVC Dump (SCDMP)					
01 EXTERNAL CLASSIFICATION: GUPI					
01 END OF EXTERNAL CLASSIFICATION:					
01 EYE-CATCHER: NONE					
01 STORAGE ATTRIBUTES:					
02 SUBPOOL: User Defined					
02 KEY: User Defined					
02 RESIDENCY: User Defined					
01 SIZE: Variable					
01 CREATED BY: User					
01 POINTED TO BY: User					
01 SERIALIZATION:					
None required					
01 FUNCTION:					
02 Maps the STRLIST parameter list entries that will be constructed					
by the IHABLDP macro and will be provided as input to the					
STRLIST parameter on the SDUMPX macro.					
01 The following is an example of what a STRLIST parameter list					
would look like:					
<pre>STRLIST Header/Length..... ..... .STRLIST Structure Entry 1.. ..... .STRLIST Range or Option.... .....Entry..... </pre>					

Table 656. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.....-.....			-- There will be one or more range or option entries.
	-.....			
	-.....			
	-.....			
		.STRLIST Structure Entry 2..			
		.STRLIST Range or Option... .....Entry.....			
		.....-.....			--There will be one or more range or option entries.
	-.....			
	-.....			
	-.....			
		.STRLIST Structure Entry N..			-- Will continue for N amount of structures
		.STRLIST Range or Option... .....Entry.....			
	-.....			
	-.....			
	-.....			
	-.....			
		.....IHABLDP's Work Area.....			

01 RETURN CODES:
 The following return codes will be issued by IHABLDP:
 0 - Successful Completion
 8 - Function Failed

01 REASON CODES:
 The following reason codes will be issued by IHABLDP:
 0 - No Reason Code
 4 - Insufficient space to add a requested element to the dump parameter list.

IHASDSTR mapping

Table 656. Structure (continued)

Offset	Offset	Len	Name(Dim)	Description
Dec	Hex	Type		
8 - Range entry was not added to the dump parameter list because the starting range value was greater than the the ending range value				
01 METHOD OF ACCESS:				
02 ASM:				
IHASDSTR				
02 PL/AS:				
%DCL SDSTR_HDR_ATTR CHAR				
%DCL SDSTR_LEN_ATTR CHAR				
%DCL SDSTR_WRK_ATTR CHAR				
%DCL SDSTR_STR_ATTR CHAR				
%DCL SDSTR_RNG_ATTR CHAR				
%SDSTR_HDR_ATTR = 'based/defined/via attribtues'				
%SDSTR_LEN_ATTR = 'based/defined/via attribtues'				
%SDSTR_WRK_ATTR = 'based/defined/via attribtues'				
%SDSTR_STR_ATTR = 'based/defined/via attribtues'				
%SDSTR_RNG_ATTR = 'based/defined/via attribtues'				
%INCLUDE SYSLIB(IHASDSTR)				
Where:				
SDSTR_HDR_ATTR is associated with SDSTR_HEADER_MAP				
SDSTR_LEN_ATTR is associated with SDSTR_LENGTH_MAP				
SDSTR_WRK_ATTR is associated with SDSTR_WORK_AREA				
SDSTR_STR_ATTR is associated with SDSTR_STRUCTURE				
SDSTR_RNG_ATTR is associated with SDSTR_RANGE				
If any of the above variables is not set, the associated mapping will declared as BASED.				
01 DELETED BY: User				
01 FREQUENCY: N/A				
01 DEPENDENCIES: None				
01 DISTRIBUTION LIBRARY: AMACLIB				
01 CHANGE ACTIVITY:				
Flag LineItem FMID Date ID Comment				
\$L0=SYSLKD HBB5510 910619 PD00LA: SES Dumping Support				
\$P1=PIG0308 HBB5510 910923 PD00LA: Assembler version of IHABLDP does not support RSECTS				
\$L1=SYSLKD HBB5510 920213 PD00LA: STRTOKEN Support				
\$D1=DIGxxxx HBB5510 921110 PD00LA: Rename fields				
\$P1=PIG0893 HBB5510 921116 PDHT: Correct name change				
\$P2=PIG3045 HBB5510 930931 PDHT: Make range values fixed(32)				
\$01=OW01117 HBB5510 931216 PDHT: Update prolog				
\$D2=DR20001 HBB6601 950907 PD00KV: Split from SC1CM				
\$02=OW24532 HBB5520 960701 PDHT: Event monitoring controls and event queues support				
=PUX0504 HBB6603 960926 PDKV: Fix prolog. FUNCTION syntax				
END OF SPECIFICATIONS				
%IF SDSTR_SKIP_COMMENTS -= ' ' %THEN %DO;				
0	(0)	X'0'	0 SDSTR_HEADER_MAP	"0" STRLIST Header for IHABLDP
0	(0)	X'0'	0 SDSTR_WORK_VAR_PTR	"0" Pointer to IHABLDP work areas
0	(0)	X'4'	0 SDSTR_VERSION	"4" Version Number
0	(0)	X'8'	0 SDSTR_HEADER_LENGTH	"8" Length of STRLIST header
STRLIST Length mapping - 8 bytes				
0	(0)	X'0'	0 SDSTR_LENGTH_MAP	"0" STRLIST Header for storing the length
0	(0)	X'0'	0 SDSTR_LENGTH	"0" Total length of the STRLIST parameter list

Table 656. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
IHABLDLP work areas - 16 bytes					
0	(0)	X'0'	0	SDSTR_WORK_AREA	"0" IHABLDLP Work areas
0	(0)	X'0'	0	SDSTR_NEXT_SPACE	"0" Next available space pointer
0	(0)	X'4'	0	SDSTR_CUR_STR_PTR	"4" Current structure entry pointer
0	(0)	X'10'	0	SDSTR_WORK_LENGTH	"16" Length of IHABLDLP work areas
STRLIST structure entry - 48 bytes					
0	(0)	X'0'	0	SDSTR_STRUCTURE	"0" STRLIST structure entry
0	(0)	X'0'	0	SDSTR_STRUCTURE_NAME	"0" Structure name
0	(0)	X'10'	0	SDSTR_CONTOKEN	"16" Provide a CONTOKEN to include user registry information that relates to that user. This should only be used for a cache structure
0	(0)	X'10'	0	SDSTR_CONNAME	"16" Provide a CONNAME to include user registry information that relates to that user. This should only be used for a cache structure EQU 32 Reserved for IBM use EQU 36 Reserved for IBM use EQU 38 Reserved for IBM use EQU 40 Reserved for IBM use EQU 42 Reserved for IBM use EQU 43 Reserved
0	(0)	X'2C'	0	SDSTR_RANGE_CNTR	"44" Counter of how many range and option entries follow this structure entry
0	(0)	X'2E'	0	SDSTR_STRUCTURE_FLAGS	"46" Structure level flag byte
		1... ..		SDSTR_ACCTIME_NOLIMIT	"X'80'" Indicates that the time limit specified on the IXLCONN macro will be ignored to insure that the entry data is dumped serialized EQU X'40' Reserved for IBM use EQU X'20' Reserved for IBM use
		...1 ..		SDSTR_CONNAME_ENTRY	"X'10'" Indicates that the value in the CONTOKEN/CONNAME field is a CONNAME EQU X'08' Reserved EQU X'04' Reserved EQU X'02' Reserved EQU X'01' Reserved EQU 33 Reserved
0	(0)	X'30'	0	SDSTR_STRUCTURE_LENGTH	"48" Length of STRLIST structure entry
STRLIST range and option entry - 12 bytes					
0	(0)	X'0'	0	SDSTR_RANGE	"0" STRLIST structure range and option entry
0	(0)	X'0'	0	SDSTR_RANGE_FLAG1	"0" Range level flag byte 1
		1... ..		SDSTR_ADJUNCT_CAPTURE	"X'80'" Indicates that the adjunct data will be captured with control data

IHASDSTR mapping

Table 656. Structure (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
		.1..	....		SDSTR_SUMMARY	"X'40'" Indicates summary of the range be dumped. Control elements will be excluded from the dump EQU X'20' Reserved EQU X'10' Reserved EQU X'08' Reserved EQU X'04' Reserved EQU X'02' Reserved EQU X'01' Reserved
0	(0)	X'1'		0	SDSTR_RANGE_FLAG2	"1" Range level flag byte 2
		1...	....		SDSTR_EDATA_SERIALIZE	"X'80'" Indicates that entry data for each element in the range should be included in the dump and be dumped serialized
		.1..	....		SDSTR_EDATA_UNSERIALIZE	"X'40'" Indicates that entry data for each element in the range should be included in the dump and be dumped unserialized
		..1.	....		SDSTR_ADJUNCT_DIRECTIO	"X'20'" Indicates that the adjunct data should be retrieved with the entry data which is not captured EQU X'10' Reserved EQU X'08' Reserved EQU X'04' Reserved EQU X'02' Reserved EQU X'01' Reserved
0	(0)	X'2'		0	SDSTR_RANGE_FLAG3	"2" Range level flag byte 3
		1...	....		SDSTR_OBJECT_COCLASS	"X'80'" Indicates that the range represents a range of cast-out classes
		.1..	....		SDSTR_OBJECT_STGCLASS	"X'40'" Indicates that the range represents a range of storage classes
		..1.	....		SDSTR_OBJECT_LISTNUM	"X'20'" Indicates that the range represents a range of list numbers
		...1	....		SDSTR_DUMP_ALL	"X'10'" Indicates that all elements of a requested object will be dumped. If bit on, the fields SDSTR_START_VALUE and SDSTR_END_VALUE will be ignored
		....	1...		SDSTR_LOCKENTRIES	"X'08'" Indicates that lock table entries should be included in the dump. This is only valid for list structures.
		....	.1..		SDSTR_USERCNTLS	"X'04'" Indicates that the user attached controls should be included in the dump
		....	..1.		SDSTR_EVENTQS	"X'02'" Indicates that the user event queues should be included in the dump
		....	...1		SDSTR_OBJECT_EMCONTROLS	"X'01'" Indicates that the range represents a range of event monitoring controls EQU 3 Reserved
0	(0)	X'4'		0	SDSTR_START_VALUE	"4" Starting value for range
0	(0)	X'8'		0	SDSTR_END_VALUE	"8" Ending value for range

Table 656. Structure (continued)

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
0	(0) X'C'		0	SDSTR_RANGE_LENGTH	"12" Length of STRLIST structure range and option entry
Constants					
0	(0) X'1'		0	INIT_VERSION	"1" Initial Version number
Return codes for IHABLDP					
0	(0) X'0'		0	SUCCESS	"0" Successful completion
0	(0) X'8'		0	FAIL	"8" IHABLDP failed
Reason codes for IHABLDP					
0	(0) X'0'		0	NO_REASON	"0" No reason code
0	(0) X'4'		0	INSUFFICIENT_SPACE	"4" Insufficient space in the dump parameter list to add the requested entry
0	(0) X'8'		0	INVALID_RANGE	"8" Range entry was not added to the dump parameter list because the starting range value was greater than the ending range value.

Table 657. Cross Reference for IHASDSTR

Name	Offset	Hex Tag
FAIL	0	8
INIT_VERSION	0	1
INSUFFICIENT_SPACE	0	4
INVALID_RANGE	0	8
NO_REASON	0	0
SDSTR_ACCTIME_NOLIMIT	0	80
SDSTR_ADJUNCT_CAPTURE	0	80
SDSTR_ADJUNCT_DIRECTIO	0	20
SDSTR_CONNAME	0	10
SDSTR_CONNAME_ENTRY	0	10
SDSTR_CONTOKEN	0	10
SDSTR_CUR_STR_PTR	0	4
SDSTR_DUMP_ALL	0	10
SDSTR_EDATA_SERIALIZE	0	80
SDSTR_EDATA_UNSERIALIZE	0	40
SDSTR_END_VALUE	0	8
SDSTR_EVENTQS	0	2
SDSTR_HEADER_LENGTH	0	8
SDSTR_HEADER_MAP	0	0
SDSTR_LENGTH	0	0
SDSTR_LENGTH_MAP	0	0
SDSTR_LOCKENTRIES	0	8
SDSTR_NEXT_SPACE	0	0
SDSTR_OBJECT_COCLASS	0	80
SDSTR_OBJECT_EMCONTROLS	0	1
SDSTR_OBJECT_LISTNUM	0	20
SDSTR_OBJECT_STGCLASS	0	40

IHASDSTR mapping

Table 657. Cross Reference for IHASDSTR (continued)

Name	Offset	Hex Tag
SDSTR_RANGE	0	0
SDSTR_RANGE_CNTR	0	2C
SDSTR_RANGE_FLAG1	0	0
SDSTR_RANGE_FLAG2	0	1
SDSTR_RANGE_FLAG3	0	2
SDSTR_RANGE_LENGTH	0	C
SDSTR_START_VALUE	0	4
SDSTR_STRUCTURE	0	0
SDSTR_STRUCTURE_FLAGS	0	2E
SDSTR_STRUCTURE_LENGTH	0	30
SDSTR_STRUCTURE_NAME	0	0
SDSTR_SUMMARY	0	40
SDSTR_USERCNTLS	0	4
SDSTR_VERSION	0	4
SDSTR_WORK_AREA	0	0
SDSTR_WORK_LENGTH	0	10
SDSTR_WORK_VAR_PTR	0	0
SUCCESS	0	0

Chapter 163. IHASLMSG Information

IHASLMSG Heading Information

Common Name: WTO slip interface mapping
Macro ID: IHASLMSG
DSECT Name: VTMSG
Owning Component: SLIP (SCSLP)
Eye-Catcher ID: None
Storage Attributes: Virtual Storage: Yes
Subpool: N/A (See Residency)
Key: 0
Residency: Private or common area storage
Size: See compiled listing
Created by: IEAVBWT0 or IEAVMWT0
Pointed to by: On entry to the SLIP action processor:
GPR 2 will point to SLMsg and GPR 3 will point to
SLMsgText for a single or major line. GPR 4 will
point to SLMsg and GPR 5 will point to SLMsgText for
a minor line.
Serialization: None
Function: Represents a parameter to SLIP

IHASLMSG mapping

Table 658. Structure SLMMSG

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	*	SLMSG	
0	(0)	CHARACTER	8	SLMSGRELATEDFIELDS	
0	(0)	UNSIGNED	2	SLMSGTEXTLENGTH	Length of the text
2	(2)	BITSTRING	2	SLMSGFLAGS	Related flags
4	(4)	SIGNED	4	*	Unused
8	(8)	CHARACTER	*	SLMSGTEXT	Message text

IHASLMSG mapping

Chapter 164. IHASSRX Information

IHASSRX Heading Information

Common Name: Suspended SRB Extension
 Macro ID: IHASSRX
 DSECT Name: SSRX
 Owing Component: Supervisor Control (SC1C5)
 Eye-Catcher ID: SSRX
 Offset: 0
 Length: 4
 Storage Attributes: Key: 0
 Residency: Above 2G, fixed common
 Size: SSRX -- X'0700' bytes
 Created by: IEAVESPM
 Pointed to by: SsrbSsrAddr
 Serialization: Owner-serialized.
 Function: In conjunction with an XSB and an SSRB, the SSRX is used to save status for any type SRB.
 The data formerly in the SSRB is divided into two pieces:
 - The SSRB resides below 2G.
 - The SSRX resides above 2G.

IHASSRX mapping

Table 659. Structure SSRX

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	1792	SSRX	
0	(0)	CHARACTER	4	SSRXSSRX	Acronym in EBCDIC.
4	(4)	ADDRESS	4	SSRXSSRBADDR	Address of the associated SSRB.
8	(8)	CHARACTER	32	SSRXFPRS	FLOATING POINT REG SAVE AREA
8	(8)	CHARACTER	8	SSRXFPR0	FLOATING POINT REG 0
16	(10)	CHARACTER	8	SSRXFPR2	FLOATING POINT REG 2
24	(18)	CHARACTER	8	SSRXFPR4	FLOATING POINT REG 4
32	(20)	CHARACTER	8	SSRXFPR6	FLOATING POINT REG 6
40	(28)	ADDRESS	4	SSRXTRAN	PAGE FAULT ADDR(FLIH)
44	(2C)	BITSTRING	2	SSRXSAFN	SAVED AFFINITY
46	(2E)	CHARACTER	2	SSRXR02E	RESERVED.
48	(30)	ADDRESS	4	SSRXORMT	OLD SRB RMTR VALUE
		1...		SSRXSSTD	SRB SUSPEND WITH TOKEN and Pause DISABLE summary BIT
		.1..		SSRXSSTA	SRB SUSPEND WITH TOKEN and Pause DISABLED BECAUSE SRB WAS ABENDED DURING PURGEDQ PROCESSING.
		..1.		SSRXSSTE	SRB SUSPEND WITH TOKEN and Pause DISABLED BECAUSE THIS SRB IS A SUSPEND EXIT.
52	(34)	ADDRESS	4	SSRXLSA1	SAVEAREA FOR LCCACLSD.

IHASSRX mapping

Table 659. Structure SSRX (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
56	(38)	ADDRESS		4	SSRXLSDP	VIRTUAL ADDRESS OF THE CURRENT LSED. IF SSRXLSDP IS 0 1. THE SRB DID NOT USE THE LINKAGE STACK, 2. SSRXLSA1 IS UNPREDICTABLE, AND 3. THE SSRX WILL BE DISPATCHED WITH AN EMPTY LINKAGE STACK.
60	(3C)	ADDRESS		4	SSRXALOV	DISPATCHABLE UNIT ACCESS LIST VIRTUAL ADDRESS.
64	(40)	CHARACTER		64	SSRXARS	ACCESS REGISTER SAVEAREA.
128	(80)	CHARACTER		64	SSRXDUCT	DUCT SAVEAREA.
192	(C0)	CHARACTER		72	SSRXAREATOCLEAR	Area which must be cleared before the SSRX is reused.
192	(C0)	ADDRESS		4	SSRXLAA	Address of LE area
196	(C4)	CHARACTER		1	SSRXR0C4	Reserved.
197	(C5)	BITSTRING		1	SSRXESSFL	Extended saving flags
197	(C5)	BITSTRING		1	SSRXFPFL	FP Flags
		1...			SSRXBFP	Extended FP saving
		.1..			*	unused
		..1.			SSRXVSS	VRs are being saved
		..1.			SSRXZ1	
198	(C6)	CHARACTER		2	SSRXOPASID	Original Purge ASID. Similar to SSRXORMT.
200	(C8)	ADDRESS		4	SSRXOPTCB	Original Purge TCB. Similar to SSRXORMT.
204	(CC)	ADDRESS		4	SSRXSUPFRR	Address of the Supervisor FRR Wrapper routine that is set for SYNCH(YES) SSRBs.
208	(D0)	CHARACTER		4	SSRXR0D0	Reserved.
212	(D4)	CHARACTER		28	SSRXSUSPINFO	This area is used to save information about the suspended workunit.
212	(D4)	UNSIGNED		1	SSRXSUSPWUTYPE	Type (same as WEBTYPE) of workunit suspended waiting for this SRB to complete.
213	(D5)	CHARACTER		3	SSRXR0D5	Reserved.
216	(D8)	CHARACTER		16	SSRXSUSPTOKEN	TOKEN of the TCB to resume when this SRB completes. ONLY valid when SSRXSuspWuType represents a "TCB".
216	(D8)	CHARACTER		8	SSRXSUSPSTOKEN	STOKEN portion of TOKEN of the TCB to resume when this SRB completes. Valid for all SSRXSuspWuType types.
224	(E0)	CHARACTER		8	SSRXSUSPSPTOKEN	SPTOKEN of the SRB to resume when this SRB completes. ONLY valid when SSRXSuspWuType represents an "SSRB".
224	(E0)	CHARACTER		4	*	First part of SpTOKEN
228	(E4)	ADDRESS		4	SSRXSUSPTOKENTCB@	TCB address

Table 659. Structure SSRX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
232	(E8)	ADDRESS	4	SSRXSUSPRBADDR	Address of the RB that was suspended when the SYNCH(YES) caller was suspended. ONLY valid when SSRXSuspWuType represents a "TCB".
236	(EC)	CHARACTER	4	SSRXSUSPRBRESUMETOKEN	RB Token for which to resume the suspended task. ONLY valid when SSRXSuspWuType represents a "TCB".
240	(F0)	CHARACTER	24	SSRXSYNCHINFO	This area is used to save the completion information about this SRB for the workunit that is to be resumed. This area is used for the backend processing of IEAMSCHD SYNCH(YES) processing by IEAVSCHED to indicate to its caller the completion info of this SRB.
240	(F0)	SIGNED	4	SSRXSYNCHCOMP	Indicates the completion type for this SRB.
244	(F4)	ADDRESS	4	SSRXSYNCHCOMPADDR	Address of the storage to update with the completion type.
248	(F8)	SIGNED	4	SSRXSYNCHCODE	Indicates the code associated with the completion type for this SRB.
252	(FC)	ADDRESS	4	SSRXSYNCHCODEADDR	Address of the storage to update with the associated code.
256	(100)	SIGNED	4	SSRXSYNCHRSN	Indicates the reason associated with the completion type for this SRB.
260	(104)	ADDRESS	4	SSRXSYNCHRSNADDR	Address of the storage to update with the associated reason.
264	(108)	CHARACTER	8	SSRXSUSPT6RBOPSW	RBOPSW from T6 SVC so that we can resume in IEAVSCHED and then later get back to the T6 SVC issuer.
272	(110)	BITSTRING	4	SSRXSUSPT6FLAGS	Flags serialized by CS. We need to know when it's safe to free the SSRB. The "last guy out wins" is the rule, from among IEAVSYNR and IEAVSCHED. Each sets his bit, and in doing so checks the other guy's bit. If both bits are on when your bit gets set, it's your responsibility to clean up.
272	(110)	BITSTRING 1...	2	SSRXSUSPT6FLAGSBYTES0_1 *	Do not use this bit. It causes a compiler problem if either of the next two bits is bit 0 in this word.
		.1..		SSRXSUSPT6IEAVSCHDRAN	
		..1.		SSRXSUSPT6IEAVSYNRRAN	
		...1		SSRXSUSPT6INEFFECT	
274	(112)	SIGNED	2	SSRXSUSPT6HOMEASID	Home ASID

IHASSRX mapping

Table 659. Structure SSRX (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
276	(114)	ADDRESS		4	SSRXSUSPT6TASKWEB@	Address of suspended task's WEB XSBOPSW16 from T6 SVC so that we can resume in IEAVSCHED and then later get back to the T6 SVC issuer.
280	(118)	CHARACTER		16	SSRXSUSPT6XSBOPSW16	
296	(128)	CHARACTER		100	SSRXAFPR	FPRs 1,3,5,7-15,FPCR
296	(128)	CHARACTER		96	*	FPRs 1,3,5,7-15
392	(188)	CHARACTER		4	SSRXFPCR	FPCR
396	(18C)	ADDRESS		4	SSRXESSA	
396	(18C)	CHARACTER		4	SSRXZ2	
400	(190)	CHARACTER		64	SSRXG64H	High Halves of GPRs
464	(1D0)	CHARACTER		8	SSRXTRNE	ESAME page fault address
472	(1D8)	CHARACTER		8	SSRXBEA	Breaking Event Address
480	(1E0)	CHARACTER		8	SSRX_HIS_AREA	Data used by HIS
480	(1E0)	ADDRESS		4	SSRX_HIS_WEB@	Address of the WEB which corresponds to the SSRB.
484	(1E4)	UNSIGNED		2	SSRX_HIS_HOMEASID	Home ASID where the SRB was scheduled to run
		1... ..			SSRX_HIS_IS_SRB	This bit is on when the HIS data is for an SRB
486	(1E6)	UNSIGNED		2	SSRX_HIS_PARTIAL_WEB@	Bytes 2 and 3 of SSRX_HIS_WEB@.
488	(1E8)	BITSTRING		8	SSRXSRBIDSEQ#	This sequence number, which comes from SvtSrbIdSeq#, is compared along with SRBWEB to an SrbIdToken in order to fully identify a preemptable SRB
496	(1F0)	BITSTRING		4	SSRXFLAGSCC	When WebSrbTerm is on, this field contains the flags and completion code from a CALLRTM TYPE=SRBTERM
500	(1F4)	BITSTRING		4	SSRXSRBTERMREASON	When WebSrbTerm is on, this field contains the reason code from a CALLRTM TYPE=SRBTERM. Note that the reason code is only valid when the x'04' bit is on in the first byte of SSRXFlagsCC
504	(1F8)	CHARACTER		4	SSRXR1F8	Reserved.
508	(1FC)	UNSIGNED		4	SSRX_SRBPARM	Original SRBPARM Value
512	(200)	CHARACTER		1280	SSRXFRRS	FRR STACK SAVEAREA.
1792	(700)	CHARACTER		0	*	End of mapping

Table 660. Constants for IHASSRX

Len	Type	Value	Name	Description
4	DECIMAL	1792	SSRXLEN	
4	CHARACTER	SSRX	SSRXIDCHARS	

Table 661. Cross Reference for IHASSRX

Name	Offset	Hex Tag
SSRX	0	
SSRX_HIS_AREA	1E0	

Table 661. Cross Reference for IHASSRX (continued)

Name	Offset	Hex Tag
SSRX_HIS_HOMEASID	1E4	
SSRX_HIS_IS_SRB	1E4	80
SSRX_HIS_PARTIAL_WEB@	1E6	
SSRX_HIS_WEB@	1E0	
SSRX_SRBPARM	1FC	
SSRXAFPR	128	
SSRXALOV	3C	
SSRXAREATOCLEAR	C0	
SSRXARS	40	
SSRXBEA	1D8	
SSRXBFP	C5	80
SSRXDUCT	80	
SSRXESSA	18C	
SSRXESSFL	C5	
SSRXFLAGSCC	1F0	
SSRXFPCR	188	
SSRXFPFL	C5	
SSRXFPRS	8	
SSRXFPR0	8	
SSRXFPR2	10	
SSRXFPR4	18	
SSRXFPR6	20	
SSRXFRRS	200	
SSRXG64H	190	
SSRXLAA	C0	
SSRXLSA1	34	
SSRXLSDP	38	
SSRXOPASID	C6	
SSRXOPTCB	C8	
SSRXORMT	30	
SSRXR0C4	C4	
SSRXR0D0	D0	
SSRXR0D5	D5	
SSRXR02E	2E	
SSRXR1F8	1F8	
SSRXSAFN	2C	
SSRXSRBIDSEQ#	1E8	
SSRXSRBTERMREASON	1F4	
SSRXSRBADDR	4	
SSRXSSRX	0	
SSRXSSTA	30	40
SSRXSSTD	30	80
SSRXSSTE	30	20
SSRXSUPFRR	CC	
SSRXSUSPINFO	D4	
SSRXSUSPRBADDR	E8	
SSRXSUSPRBRESUMETOKEN	EC	
SSRXSUSPPTOKEN	E0	
SSRXSUSPSTOKEN	D8	

IHASSRX mapping

Table 661. Cross Reference for IHASSRX (continued)

Name	Offset	Hex Tag
SSRXSUSPTOKEN	D8	
SSRXSUSPTOKENTCB@	E4	
SSRXSUSPT6FLAGS	110	
SSRXSUSPT6FLAGSBYTES0_1	110	
SSRXSUSPT6HOMEASID	112	
SSRXSUSPT6IEAVSCHDRAN	110	40
SSRXSUSPT6IEAVSYNRRAN	110	20
SSRXSUSPT6INEFFECT	110	10
SSRXSUSPT6RBOPSW	108	
SSRXSUSPT6TASKWEB@	114	
SSRXSUSPT6XSBOPSW16	118	
SSRXSUSPWUTYPE	D4	
SSRXSYNCHCODE	F8	
SSRXSYNCHCODEADDR	FC	
SSRXSYNCHCOMP	F0	
SSRXSYNCHCOMPADDR	F4	
SSRXSYNCHINFO	F0	
SSRXSYNCHRSN	100	
SSRXSYNCHRSNADDR	104	
SSRXTRAN	28	
SSRXTRNE	1D0	
SSRXVSS	C5	20
SSRXZ1	C5	20
SSRXZ2	18C	

Chapter 165. IHASVTX Information

IHASVTX Programming Interface Information

ONLY the following fields are part of the programming interface information:

- SvtxRealSpaceALET
 - SvtxRealSpaceEAX
-

IHASVTX Heading Information

Common Name: Extended SVT
Macro ID: IHASVTX
DSECT Name: SVTX
Owning Component: Supervisor Control (SC1C5)
Eye-Catcher ID: SVTX
Offset: 0
Length: 4
Storage Attributes: Subpool: Extended Nucleus
Key: 0
Residency: Above 16M line
Size: Offset of SVTXEND minus offset of SVTX
Created by: IEAVSVTX
Pointed to by: PSASVTX
Serialization: See individual field descriptions.
Function: Contains service routine addresses and control blocks used by Supervisor Control. Resides above 16M.

IHASVTX mapping

Table 662. Structure SVTX

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SVTX	
0	(0)	BITSTRING	4	SVTXSVTX	Acronym in EBCDIC- "SVTX".
4	(4)	ADDRESS	4	SVTXWUQP	Address of IEAVWUQP SERIALIZATION: None
8	(8)	ADDRESS	4	SVTXWEEL	Address of the last element on the WEB Extent Element Pool. SERIALIZATION: Disablement during NIP and Global Recovery Protocol thereafter.
12	(C)	ADDRESS	4	SVTXWPM	Address of Web Pool Manager. SERIALIZATION: None.
16	(10)	ADDRESS	4	SVTXWBCH	Address of Web Chap Service Routine. SERIALIZATION: None.
20	(14)	ADDRESS	4	SVTXWUQ1	Address of WUQADD Service Routine entry point IEAVWUQ1. SERIALIZATION: None.
24	(18)	ADDRESS	4	SVTXWUQ2	Address of WUQADD Service Routine entry point IEAVWUQ2. SERIALIZATION: None.

IHASVTX mapping

Table 662. Structure SVTX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
28	(1C)	ADDRESS	4	SVTXWUQ3	Address of WUQADD Service Routine entry point IEAVWUQ3. SERIALIZATION: None.
32	(20)	ADDRESS	4	SVTXWUQ4	Address of WUQADD Service Routine entry point IEAVWUQ4. SERIALIZATION: None.
36	(24)	ADDRESS	4	SVTXWUQD	Address of WUQDEL Service Routine. SERIALIZATION: None.
40	(28)	ADDRESS	4	SVTXESPN	Address of SPINLOOP Service Routine. SERIALIZATION: None.
44	(2C)	ADDRESS	4	SVTXWEBS	Address of WEBSWTCH Service Routine. SERIALIZATION: None.
48	(30)	DBL WORD	8	SVTXFWP(0)	Free WEB pool header and synchronous count. SERIALIZATION: CDS OWNERSHIP: Supervisor Control
48	(30)	ADDRESS	4	SVTXFWPP	Address of first available WEB in the free pool. SERIALIZATION: CDS on SVTXFWP for free pool adds, CS on SVTXFWPP for free pool deletes. OWNERSHIP: Supervisor Control
52	(34)	ADDRESS	4	SVTXFWPC	Synchronous count field for CDS of SVTXFWP. WUQ Global Rec. SERIALIZATION: CDS on SVTXFWP for free pool adds. This field is only updated for free pool deletes, not updated for free pool adds. OWNERSHIP: Supervisor Control
56	(38)	ADDRESS	4	SVXTESQ	Address of IEAVTESQ. SERIALIZATION: none OWNERSHIP: RTM
60	(3C)	SIGNED	2	SVTXXMPOSTNOLLOCKTRIGGER	The number of suspended SRBs in the target space before XMPOST to that space gets scheduled without the local lock so that it can look for ECB already posted
62	(3E)	SIGNED	2	SVTXWIAD	WLM Interrupted ID. SERIALIZATION: None OWNERSHIP: Supervisor Control
64	(40)	BITSTRING	8	SVTXEGR_TIMESTAMP	Timestamp of the last time IEAVEGR ran. SERIALIZATION: Global Recovery Protocol. OWNERSHIP: Supervisor Control
72	(48)	ADDRESS	4	SVTXCWTM	Address of IEAVCWTM. SERIALIZATION: None. OWNERSHIP: Supervisor Control
76	(4C)	ADDRESS	4	SVTXR2P	Address of IEAVR2P. SERIALIZATION: None. OWNERSHIP: RTM

Table 662. Structure SVTX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
80	(50)	DBL WORD	8	SVTXFCP(0)	Free CNTX pool header and synchronous count. SERIALIZATION: CDS OWNERSHIP: Context Services
80	(50)	ADDRESS	4	SVTXFCPP	Address of first available CNTX in the free pool. SERIALIZATION: CDS on SVTXFCP for free pool adds, CS on SVTXFCPP for free pool deletes. OWNERSHIP: Context Services
84	(54)	ADDRESS	4	SVTXFCPC	Synchronous count field for CDS of SVTXFCP. SERIALIZATION: CDS on SVTXFCP for free pool adds. This field is only updated for free pool deletes, not updated for free pool adds. OWNERSHIP: Context Services
88	(58)	DBL WORD	8	SVTXFCIP(0)	Free CIE pool header and synchronous count. SERIALIZATION: CDS OWNERSHIP: Context Services
88	(58)	ADDRESS	4	SVTXFCIPP	Address of first available CIE in the free pool. SERIALIZATION: CDS on SVTXFCIP for free pool adds, CS on SVTXFCIPP for free pool deletes. OWNERSHIP: Context Services
92	(5C)	ADDRESS	4	SVTXFCIPC	Synchronous count field for CDS of SVTXFCIP. SERIALIZATION: CDS on SVTXFCIP for free pool adds. This field is only updated for free pool deletes, not updated for free pool adds. OWNERSHIP: Context Services
96	(60)	ADDRESS	4	SVTXCEEQ	Address of first extent of CNTXes SERIALIZATION: CS OWNERSHIP: Context Services
100	(64)	ADDRESS	4	SVTXDPSN	Next DU-AL Pool sequence number SERIALIZATION: CS OWNERSHIP: Supervisor Control
104	(68)	SIGNED	4	SVTXCADALET	System Common Area Data space ALET. SERIALIZATION: None, initialized during NIP.
108	(6C)	ADDRESS	4	SVTXCADFSPTR	System Common Area Data space free space pointer. SERIALIZATION: CS
112	(70)	SIGNED	4	SVTXSRBSDATD	Size of IEAVSRBS dynamic area CPOOL cell. SERIALIZATION: None, constant. OWNERSHIP: Supervisor Control
116	(74)	SIGNED	4	SVTXSRBSCPID	CPOOL ID of IEAVSRBS dynamic area CPOOL. SERIALIZATION: None, initialized during NIP. OWNERSHIP: Supervisor Control

IHASVTX mapping

Table 662. Structure SVTX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
120	(78)	CHARACTER	1	(0)	Fields used to maintain the pool of mini linkage stack sections, including an LSSD. OWNERSHIP: Supervisor Control
120	(78)	DBL WORD	8	SVTXMLSPool(0)	Doubleword for SvtxMLSsynch and SvtxMLSptr. SERIALIZATION: CDS
120	(78)	SIGNED	4	SVTXMLSSYNCH	Synchronization counter used in conjunction with SvtxMLSptr.
124	(7C)	ADDRESS	4	SVTXMLSPTR	Pointer to the next LSSD/LSS in the pool of mini linkage stack sections.
128	(80)	SIGNED	4	SVTXMLSCOUNT	Number of mini linkage stack sections available in the pool. Used for pool compression only. SERIALIZATION: CS
132	(84)	SIGNED	2	SVTXMLSMAX	Number of mini linkage stack sections in the pool which triggers pool contraction. SERIALIZATION: None, constant.
134	(86)	SIGNED	2	SVTXMLSMIN	Number of mini linkage stack sections which remain in the pool after pool contraction. SERIALIZATION: None, constant.
136	(88)	CHARACTER	1	(0)	Fields used to maintain the pool of full size linkage stack sections, including an LSSD. OWNERSHIP: Supervisor Control
136	(88)	DBL WORD	8	SVTXFLSPool(0)	Doubleword for SvtxFLSsynch and SvtxFLSptr. SERIALIZATION: CDS
136	(88)	SIGNED	4	SVTXFLSSYNCH	Synchronization counter used in conjunction with SvtxFLSptr.
140	(8C)	ADDRESS	4	SVTXFLSPTR	Pointer to the next LSS in in the pool of full linkage stack sections.
144	(90)	SIGNED	4	SVTXFLSCOUNT	Number of full linkage stack sections available in the pool. Used for pool compression only. SERIALIZATION: CS
148	(94)	SIGNED	2	SVTXFLSMAX	Number of full linkage stack sections in the pool which triggers pool contraction. SERIALIZATION: None, constant.
150	(96)	SIGNED	2	SVTXFLSMIN	Number of full linkage stack sections which remain in the pool after pool contraction. SERIALIZATION: None, constant.
152	(98)	CHARACTER	1	(0)	Fields used to maintain the pool of SSRBs and XSBs used for SUSPEND with token. OWNERSHIP: Supervisor Control
152	(98)	BITSTRING	8	SVTXR098(0)	reserved
152	(98)	DBL WORD	8	SVTXTOKENPOOL_MOVED	moved SVTXTOKENPOOL
160	(A0)	SIGNED	4	SVTXSRBPMPOOLID	CPOOL ID for Pause Multiple Element workareas for SRBs Ownership: Supervisor control

Table 662. Structure SVTX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
164	(A4)	SIGNED	4	SVTXPMEADDRESSSTABLE@	Pointer to the table used to track the SRB CPOOL PMEs
168	(A8)	ADDRESS	4	SVTXSPMA	Address of IEAVSPMA. SERIALIZATION: None, constant. OWNERSHIP: Supervisor Control
172	(AC)	SIGNED	4	SVTXESSX	Address of IEAVESSX
176	(B0)	CHARACTER	8	SVTXCADSTOKEN	System Common Area Data space STOKEN. SERIALIZATION: None, initialized during NIP.
184	(B8)	SIGNED	4	SVTXSDEID	CPOOL ID for small Context data elements
188	(BC)	SIGNED	4	SVTXMDEID	CPOOL ID for medium Context data elements
192	(C0)	BITSTRING	16	SVTXR0C0(0)	reserved
192	(C0)	DBL WORD	8	SVTXSSRBPOOL_MOVED	moved SVTXSSRBPOOL
200	(C8)	SIGNED	4	SVTXSSRBCOUNT_MOVED	moved SVTXSSRBCOUNT
204	(CC)	SIGNED	2	SVTXSSRBMAX_MOVED	moved SVTXSSRBMAX
206	(CE)	SIGNED	2	SVTXSSRBMIN_MOVED	moved SVTXSSRBMIN
208	(D0)	SIGNED	4	SVTXREALSPACEALET	ALET for accessing real space. The EAX must be set to the value in SvtxRealSpaceEAX in order to use this ALET.
212	(D4)	SIGNED	2	SVTXREALSPACEEAX	EAX for accessing real space. Use the ESEA instruction to set the EAX while saving the current one. You must make sure that unauthorized code does not get control with this EAX value. You must restore the saved EAX in all circumstances after you are done using the real space. This includes recovery cases.
214	(D6)	BITSTRING	2	SVTXR0D6	Reserved
216	(D8)	ADDRESS	4	SVTXCIEEQ	Address of first extent of CIEs SERIALIZATION: CS OWNERSHIP: Context Services
220	(DC)	SIGNED	4	SVTX_ISN012E_DOMID	DomID for ISN012E
224	(E0)	DBL WORD	8	SVTXLXSTAT(0)	LX Usage Statistics
224	(E0)	SIGNED	2	SVTXLXSYSDEFINED	Count of system LXs that were defined for allocation (this does not include LXs allocated for SFT usage)
226	(E2)	SIGNED	2	SVTXLXSYSINUSE	Count of system LXs currently in use
228	(E4)	SIGNED	2	SVTXLXNSYSDEFINED	Count of non-system LXs that may be defined
230	(E6)	SIGNED	2	SVTXLXNSYSINUSE	Count of non-system LXs that are in use
232	(E8)	CHARACTER	12	SVTXSPDE3(0)	When nonzero, Global Recovery is in progress. SERIALIZATION: Global Recovery Protocol. OWNERSHIP: Supervisor Control
232	(E8)	BITSTRING	8		Was SVTXSPDE3_SEEN

IHASVTX mapping

Table 662. Structure SVTX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
240	(F0)	BITSTRING	4	SVTXSPDE3_CPU	CPU with Global Recovery in Progress SERIALIZATION: Global Recovery Protocol. OWNERSHIP: Supervisor Control
244	(F4)	ADDRESS	4	SVTXSPDE3_SEEN_ADDR	Address to bitmask of CPUs that have seen SVTXSPDE3 was set. Each bit indicates whether the corresponding CPU was seen that SVTXSPDE3 was set. This mask is ECVTMaxMPNumBytesInMask bytes long where the first (CVTMAXMP+1) bits are valid. SERIALIZATION: Global Recovery Protocol. OWNERSHIP: Supervisor Control
248	(F8)	DBL WORD	8	SVTXBLXSTAT(0)	Big LX Usage Statistics
248	(F8)	SIGNED	4	SVTXBLXSYSDEFINED	Count of system Big LXs that were defined for allocation (this does not include Big LXs allocated for SFT usage)
252	(FC)	SIGNED	4	SVTXBLXSYSINUSE	Count of system Big LXs currently in use
256	(100)	SIGNED	4	SVTXBLXNSYSDEFINED	Count of non-system Big LXs that may be defined
260	(104)	SIGNED	4	SVTXBLXNSYSINUSE	Count of non-system Big LXs that are in use
264	(108)	BITSTRING	4	SVTXNSBLX	Number system "Big LXs"
268	(10C)	ADDRESS	4	SVTXSRBPROMOTIONTABLEADDR	Address of table used to record SRB promotion being initiated
272	(110)	BITSTRING	8	SVTX_SPIN_TRACE_START_TRIGGER	Time duration. After spinning this long, cut the spin-start trace record
280	(118)	BITSTRING	8	SVTXEGR_TIMESTAMP_RECONFIG	Copy of SVTXEGR_TIMESTAMP before IEEVCPRA zeroed LCCAT00P SERIALIZATION: ENQ on SYSZVARY.CPU. OWNERSHIP: Supervisor Control
288	(120)	DBL WORD	8	SVTX_FREEWUQH_AREA(0)	Free WWUQ pool header and synchronous count. SERIALIZATION: CDS OWNERSHIP: Supervisor Control
288	(120)	ADDRESS	4	SVTX_FREEWUQH_PTR	Address of first available WUQ in the free pool. SERIALIZATION: CDS on SVTX_FreeWUQH_Area for free pool adds, CS on SVTX_FreeWUQHPtr for free pool deletes. OWNERSHIP: Supervisor Control

Table 662. Structure SVTX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
292	(124)	BITSTRING	4	SVTX_FREEWUQH_COUNT	Synchronous count field for CDS of SVTX_FreeWUQHPtr. WUQ Global Recovery. SERIALIZATION: CDS on SVTX_FreeWUQH_Area for free pool deletes, not updated for free pool adds. OWNERSHIP: Supervisor Control
296	(128)	ADDRESS	4	SVTX_WUQH_WEE_TRAILER	Last WEE in WUQH WEE pool. Used for verifying the queue in global recovery.
300	(12C)	SIGNED	4	SVTXEDSRRETRYCOUNT	Serialized by CS.
304	(130)	BITSTRING	32	SVTXDIAG	IBM use only
336	(150)	ADDRESS	4	SVTXLSCL	IBM use only - Caller must be AMODE 31, key 0, supervisor state, enabled for I/O and external interrupts, holding no locks. - Task mode. - Primary ASC mode. - P=S=H memory mode. - Load this address into GPR 15, - Issue BASR 14,15. - All registers are preserved as routine uses BAKR-PR. - No input registers are needed. - On exit, GPR 15 contains the return code: 0 = Routine successfully completed. 4 = Routine invoked in incorrect environment. 8 = Routine had an unexpected error. - Potential Abend Codes:
AC7 REASON-CODE 00450001: Routine was not executed because it was not in the proper environment.					
340	(154)	ADDRESS	4	SVTXSPGW	Address of IEAVSPGW. SERIALIZATION: None, constant. OWNERSHIP: Supervisor Control
344	(158)	ADDRESS	4	SVTXSPFW	Address of IEAVSPFW. SERIALIZATION: None, constant. OWNERSHIP: Supervisor Control
348	(15C)	ADDRESS	4	SVTXEGRDIAGNOSTICAREAOFFSET	Offset of EGR diagnostic area SERIALIZATION: None, constant. OWNERSHIP: Supervisor Control
352	(160)	CHARACTER	4	SVTXMACHTYPE	The EBCDIC machine type at IPL
356	(164)	CHARACTER	4	SVTXR164	Reserved
360	(168)	SIGNED	2	SVTXEGR_TIMESTAMP_CPUID	CPU id that last invoked global recovery at time in SVTXEGR_Stamp. SERIALIZATION: Global Recovery Protocol. OWNERSHIP: Supervisor Control
362	(16A)	SIGNED	2	SVTXEGR_TIMESTAMP_CPUID_RECONFIG	

IHASVTX mapping

Table 662. Structure SVTX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					CPU id that last invoked global recovery at time in SVTXEGR_Stamp_Reconfig. SERIALIZATION: ENQ on SYSZVARY.CPU. OWNERSHIP: Supervisor Control
364	(16C)	BITSTRING	6	SVTXDIAG2	IBM use only
370	(172)	BITSTRING	1	SVTXR172	Reserved
512	(200)	CHARACTER	1	(0)	Fields used to maintain the pool of SSRBs and XSBs used for the normal SSRB pool. OWNERSHIP: Supervisor Control
512	(200)	DBL WORD	8	SVTXSSRBPOOL(0)	Doubleword for SvtxSSRBSynch and SvtxSSRBPtr. SERIALIZATION: CDS
512	(200)	SIGNED	4	SVTXSSRBSYNCH	Synchronization counter used in conjunction with SvtxSSRBPtr.
516	(204)	ADDRESS	4	SVTXSSRBPTR	Pointer to the next SSRB/XSB in the normal SSRB pool.
520	(208)	SIGNED	4	SVTXSSRBCOUNT	Number of SSRB/XSBs in the normal SSRB pool which are available. Used for pool compression only. SERIALIZATION: CS
524	(20C)	SIGNED	2	SVTXSSRBMAX	Number of SSRB/XSBs in the normal SSRB pool which triggers pool contraction. SERIALIZATION: None, constant.
526	(20E)	SIGNED	2	SVTXSSRBMIN	Number of SSRB/XSBs which remain in the normal SSRB pool after pool contraction. SERIALIZATION: None, constant.
528	(210)	SIGNED	4	SVTXTYPE5PCTG	Type 5 Percentage
532	(214)	BITSTRING	1	SVTXR214	
The cache line at X'300' was created to isolate a hot field so should not be used for other things unless there is reason...					
768	(300)	DBL WORD	8	SVXTOKENPOOL(0)	Doubleword for SvtxTokenSynch and SvtxTokenPtr. SERIALIZATION: CDS
768	(300)	SIGNED	4	SVXTOKENSYNCH	Synchronization counter used in conjunction with SvtxTokenPtr.
772	(304)	ADDRESS	4	SVXTOKENPTR	Pointer to the next SSRB/XSB in the pool used for SUSPEND with token.
776	(308)	SIGNED	4	SVXTOKENCOUNT	Number of SSRB/XSBs in the SUSPEND with token pool which are available. Used for pool compression only. SERIALIZATION: CS
780	(30C)	SIGNED	2	SVXTOKENMAX	Number of SSRB/XSBs in the SUSPEND with token pool which triggers pool contraction. SERIALIZATION: None, constant.

Table 662. Structure SVTX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
782	(30E)	SIGNED	2	SVTXTOKENMIN	Number of SSRB/XSBs which remain in the SUSPEND with token pool after pool contraction. SERIALIZATION: None, constant.
784	(310)	BITSTRING	1	SVTXR310	
The cache line at X'400' was created to isolate a hot field so should not be used for other things unless there is reason...					
1024	(400)	DBL WORD	8	SVTXWORKAREAPool(0)	Doubleword for SvtxWORKAREASynch and SvtxWORKAREAPtr. SERIALIZATION: CDS
1024	(400)	SIGNED	4	SVTXWORKAREASYNCH	Synchronization counter used in conjunction with SvtxWORKAREAPtr.
1028	(404)	ADDRESS	4	SVTXWORKAREAPTR	Pointer to the next SSRB/XSB in the pool used for WORKAREA
1032	(408)	SIGNED	4	SVTXWORKAREACOUNT	Number of SSRB/XSBs in the WORKAREA pool which are available. Used for pool compression only. SERIALIZATION: CS
1036	(40C)	SIGNED	2	SVTXWORKAREAMAX	Number of SSRB/XSBs in the WORKAREA pool which triggers pool contraction. SERIALIZATION: None, constant.
1038	(40E)	SIGNED	2	SVTXWORKAREAMIN	Number of SSRB/XSBs which remain in the WORKAREA pool after pool contraction. SERIALIZATION: None, constant.
1040	(410)	BITSTRING	240	SVTXR410	
1280	(500)	DBL WORD	8	SVTXEND(0)	End of the SVTX.

Table 663. Cross Reference for IHASVTX

Name	Offset	Hex Tag
SVTX	0	
SVTX_FREEWUQH_AREA	120	
SVTX_FREEWUQH_COUNT	124	
SVTX_FREEWUQH_PTR	120	
SVTX_ISN012E_DOMID	DC	
SVTX_SPIN_TRACE_START_TRIGGER	110	
SVTX_WUQH_WEE_TRAILER	128	
SVTXBLXNSYSDEFINED	100	
SVTXBLXNSYSINUSE	104	
SVTXBLXSTAT	F8	
SVTXBLXSYSDEFINED	F8	
SVTXBLXSYSINUSE	FC	
SVTXCADALET	68	
SVTXCADFSPTR	6C	
SVTXCADSTOKEN	B0	
SVTXCEEQ	60	
SVTXCIEEQ	D8	

IHASVTX mapping

Table 663. Cross Reference for IHASVTX (continued)

Name	Offset	Hex Tag
SVTXCWTM	48	
SVTXDIAG	130	
SVTXDIAG2	16C	
SVTXDPSN	64	
SVTXEDSRRETRYCOUNT	12C	
SVTXEGR_TIMESTAMP	40	
SVTXEGR_TIMESTAMP_CPUID	168	
SVTXEGR_TIMESTAMP_CPUID_RECONFIG	16A	
SVTXEGR_TIMESTAMP_RECONFIG	118	
SVTXEGRDIAGNOSTICAREAOFFSET	15C	
SVTXEND	500	
SVTXESPN	28	
SVTXESSX	AC	
SVTXFCIP	58	
SVTXFCIPC	5C	
SVTXFCIPP	58	
SVTXFCP	50	
SVTXFCPC	54	
SVTXFCPP	50	
SVTXFLSCOUNT	90	
SVTXFLSMAX	94	
SVTXFLSMIN	96	
SVTXFLSPPOOL	88	
SVTXFLSPTR	8C	
SVTXFLSSYNCH	88	
SVTXFWP	30	
SVTXFWPC	34	
SVTXFWPP	30	
SVTXLSCL	150	
SVTXLXNSYSDEFINED	E4	
SVTXLXSYSINUSE	E6	
SVTXLXSTAT	E0	
SVTXLXSYSDEFINED	E0	
SVTXLXSYSINUSE	E2	
SVTXMACHTYPE	160	
SVTXMDEID	BC	
SVTXMLSCount	80	
SVTXMLSMAX	84	
SVTXMLSMIN	86	
SVTXMLSPPOOL	78	
SVTXMLSPTR	7C	
SVTXMLSSYNCH	78	
SVTXNSBLX	108	
SVTXPMEADDRESSTABLE@	A4	
SVTXREALSPACEALET	D0	
SVTXREALSPACEEAX	D4	
SVTXR0C0	C0	
SVTXR0D6	D6	
SVTXR098	98	

Table 663. Cross Reference for IHASVTX (continued)

Name	Offset	Hex Tag
SVTXR164	164	
SVTXR172	172	
SVTXR214	214	
SVTXR310	310	
SVTXR410	410	
SVTXSDEID	B8	
SVTXSPDE3	E8	
SVTXSPDE3_CPU	F0	
SVTXSPDE3_SEEN_ADDR	F4	
SVTXSPFW	158	
SVTXSPGW	154	
SVTXSPMA	A8	
SVTXSRBPMEPOOLID	A0	
SVTXSRBPROMOTIONTABLEADDR	10C	
SVTXSRBSCPID	74	
SVTXSRBSDATD	70	
SVTXSSRBCOUNT	208	
SVTXSSRBCOUNT_MOVED	C8	
SVTXSSRBMAX	20C	
SVTXSSRBMAX_MOVED	CC	
SVTXSSRBMIN	20E	
SVTXSSRBMIN_MOVED	CE	
SVTXSSRBPOOL	200	
SVTXSSRBPOOL_MOVED	C0	
SVTXSSRBPTR	204	
SVTXSSRBSYNCH	200	
SVTXSVTX	0	
SVXTESQ	38	
SVXTOKENCOUNT	308	
SVXTOKENMAX	30C	
SVXTOKENMIN	30E	
SVXTOKENPOOL	300	
SVXTOKENPOOL_MOVED	98	
SVXTOKENPTR	304	
SVXTOKENSYNCH	300	
SVXTR2P	4C	
SVXTYPE5PCTG	210	
SVTXWBCH	10	
SVTXWEBS	2C	
SVTXWEEL	8	
SVTXWIAD	3E	
SVTXWORKKAREACOUNT	408	
SVTXWORKKAREAMAX	40C	
SVTXWORKKAREAMIN	40E	
SVTXWORKKAREAPool	400	
SVTXWORKKAREAPTR	404	
SVTXWORKKAREASYNCH	400	
SVTXWPM	C	
SVTXWUQD	24	

IHASVTX mapping

Table 663. Cross Reference for IHASVTX (continued)

Name	Offset	Hex Tag
SVTXWUQP	4	
SVTXWUQ1	14	
SVTXWUQ2	18	
SVTXWUQ3	1C	
SVTXWUQ4	20	
SVTXMPOSTNOLLOCKTRIGGER	3C	

Chapter 166. IHATDB Information

IHATDB Programming Interface Information

IHATDB is a programming interface.

IHATDB Heading Information

Common Name: Transaction Diagnostic Block
Macro ID: IHATDB
DSECT Name: TDB
Owning Component: Supervisor Control (SC1C5)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: Caller-supplied
Key: Caller-supplied
Residency: Caller-supplied
Size: TDB -- X'0100' bytes
Created by: - The machine, and placed into low storage field PsaxPITDB for a program interruption that occurs while the CPU is in the transactional-execution mode. This is the PITDB.
- The user of TBEGIN/TBEGINC, and set by the machine on a transaction abort. This is the user TDB.
Pointed to by: None
Serialization: None required
Function: Maps the Transaction Diagnostic Block.
This is an architected area. For complete information, refer to the Principles of Operation.

IHATDB mapping

Table 664. Structure TDB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	TDB	
0	(0)	BITSTRING	1	TDB_FORMAT	Byte 0: Refer to the equates with names beginning TDB_Format_ for information about each possible value and its meaning
1	(1)	BITSTRING	1	TDB_FLAGS	Byte 1: Flags
Bit definitions:					
		1...		TDB_FLAGS_CTV	"X'80'" Conflict Token Validity
		.1..		TDB_FLAGS_CTI	"X'40'" Constrained-Transaction Indication
2	(2)	CHARACTER	4	TDB_R002	Bytes 2-5: Reserved
6	(6)	SIGNED	2	TDB_TND	Bytes 6-7: Transaction Nesting Depth when the transaction was aborted

IHATDB mapping

Table 664. Structure TDB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
8	(8)	BITSTRING	8	TDB_TAC	Bytes 8-F: Transaction Abort Code. If programmatically examining this code, your program must be able to accept codes not currently defined
16	(10)	ADDRESS	8	TDB_CONFLICTTOKEN	Bytes 10-17: For transactions aborted due to fetch or store conflict (abort codes 9 and 10), this is the logical address at which the conflict was detected. Meaningful only when the CTV bit is on.
24	(18)	ADDRESS	8	TDB_ABORTEDTRANIA	Bytes 18-1F: Normally contains the address of the instruction that would have been executed next had the transaction not been aborted.
32	(20)	BITSTRING	1	TDB_EAD	Byte 20: Exception Access ID in user TDB. Reserved in PITDB
33	(21)	BITSTRING	1	TDB_DXC	Byte 21: Data Exception Code in user TDB. Reserved in PITDB
34	(22)	CHARACTER	2	TDB_R022	Bytes 22-23: Reserved
36	(24)	CHARACTER	4	TDB_PIID	Bytes 24-27: Program Interruption Identification in user TDB. Reserved in PITDB
40	(28)	CHARACTER	8	TDB_TEID	Bytes 28-2F: Translation Exception Identification in user TDB. Reserved in PITDB
48	(30)	CHARACTER	8	TDB_BEA	Bytes 30-37: Breaking Event Address in user TDB. Reserved in PITDB
56	(38)	CHARACTER	56	TDB_R038	Bytes 38-6F: Reserved
112	(70)	CHARACTER	16	TDB_MDDI	Bytes 70-7F: Model-dependent diagnostic info
128	(80)	CHARACTER	128	TDB_GRS	Bytes 80-FF: 64-bit GPRs 0-15
128	(80)	X'0'	0	TDB_FORMAT_UNPREDICTABLE	"0" The remaining fields are unpredictable
128	(80)	X'1'	0	TDB_FORMAT_1	"1" This is a format-1 TDB
128	(80)	X'100'	0	TDB_LEN	"*-TDB"

Table 665. Cross Reference for IHATDB

Name	Offset	Hex Tag
TDB	0	
TDB_ABORTEDTRANIA	18	
TDB_BEA	30	
TDB_CONFLICTTOKEN	10	
TDB_DXC	21	
TDB_EAD	20	
TDB_FLAGS	1	
TDB_FLAGS_CTI	1	40
TDB_FLAGS_CTV	1	80
TDB_FORMAT	0	

Table 665. Cross Reference for IHATDB (continued)

Name	Offset	Hex Tag
TDB_FORMAT_UNPREDICTABLE	80	0
TDB_FORMAT_1	80	1
TDB_GRS	80	
TDB_LEN	80	100
TDB_MDDI	70	
TDB_PIID	24	
TDB_R002	2	
TDB_R022	22	
TDB_R038	38	
TDB_TAC	8	
TDB_TEID	28	
TDB_TND	6	

IHATDB mapping

Chapter 167. IHATDRMT Information

IHATDRMT Programming Interface Information

IHATDRMT is a programming interface.

IHATDRMT Heading Information

Common Name: Transaction dump REMOTE information area
Macro ID: IHATDRMT
DSECT Name: TDRMT TDRMT_MODEL TDRMT_SYSLIST TDRMT_GRPLIST TDRMT_SDATA
TDRMT_SUBPLST TDRMT_COPY
Owning Component: SDUMP (SCDMP)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: Caller-supplied
Key: Caller-supplied
Residency: Caller-supplied
Size: Variable
TDRMT -- X'0004' bytes
TDRMT_MODEL -- X'0004' bytes
TDRMT_SYSLIST -- X'0014' bytes
+ X'0018' bytes for each entry
after the first
TDRMT_GRPLIST -- X'001C' bytes
+ X'0018' bytes for each entry
after the first
TDRMT_SDATA -- X'0008' bytes
TDRMT_SUBPLST -- X'0006' bytes
+ X'0004' bytes for each entry
after the first
TDRMT_COPY -- X'0004' bytes
Created by: Created by Caller and passed as parameter on REMOTE keyword
on IEATDUMP
Pointed to by: IEATDUMP parameter list
Serialization: None required
Function: Maps the data passed by the REMOTE keyword.

IHATDRMT mapping

Table 666. Structure TDRMT

Offset	Offset		Len	Name(Dim)	Description
Dec	Hex	Type			
0	(0)	STRUCTURE	0	TDRMT	
0	(0)	SIGNED	4	TDRMT_LENGTH	Total length for REMOTE info. Data begins at TDRMT_DATA with entries contiguously defined from that point.
4	(4)	CHARACTER	1	TDRMT_DATA(0)	Start of remote data
Constants to identify the DSECT. Note that the constants ending with "_COPY" should use the TDRMT_COPY DSECT.					
4	(4)	X'4'	0	TDRMT_IDCON_SYSLIST	"4"
4	(4)	X'8'	0	TDRMT_IDCON_GRPLIST	"8"

IHATDRMT mapping

Table 666. Structure TDRMT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	X'C'	0	TDRMT_IDCON_SDATA	"12"
4	(4)	X'D'	0	TDRMT_IDCON_SDATA_COPY	"13"
4	(4)	X'20'	0	TDRMT_IDCON_SUBPLST	"32"
4	(4)	X'4'	0	TDRMT_LEN	"*-TDRMT"

Table 667. Structure TDRMT_MODEL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	TDRMT_MODEL	
0	(0)	CHARACTER	4	TDRMT_MODEL_HEADER(0)	
0	(0)	SIGNED	2	TDRMT_MODEL_ID	Contains the ID of the entry
2	(2)	SIGNED	2	TDRMT_MODEL_LENGTH	Total length of area including this length field and the ID field
4	(4)	CHARACTER	1	TDRMT_MODEL_ENTRY(0)	Start of data for the entry
4	(4)	X'4'	0	TDRMT_MODEL_LEN	"*-TDRMT_MODEL"

Table 668. Structure TDRMT_SYSLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	TDRMT_SYSLIST	
0	(0)	CHARACTER	4	TDRMT_SYSLIST_HEADER(0)	
0	(0)	SIGNED	2	TDRMT_SYSLIST_ID	Use TDRMT_IDCON_SYSLIST to initialize
2	(2)	SIGNED	2	TDRMT_SYSLIST_LENGTH	Total length of area including this length field and the ID field
4	(4)	CHARACTER	16	TDRMT_SYSLIST_ENTRY(0)	This represents an array of sysname/jobname or sysname/ASID pairs
4	(4)	CHARACTER	8	TDRMT_SYSLIST_SYSNAME	The system name
12	(C)	CHARACTER	8	TDRMT_SYSLIST_JOBNAME_ASID(0)	Area that contains either all 0s (no jobname/ASID), JOBNAME/ID, or ZEROES&ASID
12	(C)	CHARACTER	8	TDRMT_SYSLIST_JOBNAME(0)	Fill this in, left-justified, padded with blanks, if specifying a jobname. The entire field should be 0s if neither jobname nor ASID is wanted.
12	(C)	CHARACTER	6	TDRMT_SYSLIST_ZEROES	Make sure this is zeroes if specifying an ASID.
18	(12)	SIGNED	2	TDRMT_SYSLIST_ASID	Fill this in, zeroing the previous field too, if specifying an ASID.
18	(12)	X'14'	0	TDRMT_SYSLIST_LEN	"*-TDRMT_SYSLIST"

Table 669. Structure TDRMT_GRPLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	TDRMT_GRPLIST	
0	(0)	CHARACTER	4	TDRMT_GRPLIST_HEADER(0)	
0	(0)	SIGNED	2	TDRMT_GRPLIST_ID	Use TDRMT_IDCON_GRPLIST to initialize
2	(2)	SIGNED	2	TDRMT_GRPLIST_LENGTH	Total length of area including this length field and the ID field
4	(4)	CHARACTER	24	TDRMT_GRPLIST_ENTRY(0)	This represents an array of group/member pairs. If all members of the group are wanted, use a member name of "*".
4	(4)	CHARACTER	8	TDRMT_GRPLIST_GRPNAME	The group name
12	(C)	CHARACTER	16	TDRMT_GRPLIST_MEMNAME	The member name
12	(C)	X'1C'	0	TDRMT_GRPLIST_LEN	"*-TDRMT_GRPLIST"

Table 670. Structure TDRMT_SDATA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	TDRMT_SDATA	This field should be set if the caller has indicated SDATA options for the dump.
0	(0)	CHARACTER	4	TDRMT_SDATA_HEADER(0)	
0	(0)	SIGNED	2	TDRMT_SDATA_ID	Use TDRMT_IDCON_SDATA to initialize
2	(2)	SIGNED	2	TDRMT_SDATA_LENGTH	Total length of area including this length field and the ID field
4	(4)	CHARACTER	4	TDRMT_SDATA_OPTIONS(0)	These are mapped in the same order as they appear in the IEATDUMP parameter list
4	(4)	BITSTRING	1	TDRMT_SDATA_BYTE1(0)	
		1... ..		TDRMT_SDATA_DEFS	"X'80'" Corresponds to SDATA=DEF on IEATDUMP
		.1.. ..		TDRMT_SDATA_ALLNUC	"X'40'" Corresponds to SDATA=ALLNUC on IEATDUMP
		..1.		TDRMT_SDATA_CSA	"X'20'" Corresponds to SDATA=CSA on IEATDUMP
		...1		TDRMT_SDATA_GRSQ	"X'10'" Corresponds to SDATA=GRSQ on IEATDUMP
		.... 1...		TDRMT_SDATA_LPA	"X'08'" Corresponds to SDATA=LPA on IEATDUMP
		.... .1..		TDRMT_SDATA_LSQA	"X'04'" Corresponds to SDATA=LSQA on IEATDUMP
		.... ..1.		TDRMT_SDATA_NUC	"X'02'" Corresponds to SDATA=NUC on IEATDUMP
		.... ...1		TDRMT_SDATA_RGN	"X'01'" Corresponds to SDATA=RGN on IEATDUMP
5	(5)	BITSTRING	1	TDRMT_SDATA_BYTE2(0)	
		1... ..		TDRMT_SDATA_SQA	"X'80'" Corresponds to SDATA=SQA on IEATDUMP
		.1.. ..		TDRMT_SDATA_SUM	"X'40'" Corresponds to SDATA=SUM on IEATDUMP

IHATDRMT mapping

Table 670. Structure TDRMT_SDATA (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
		..1.	....		TDRMT_SDATA_SWA	"X'20'" Corresponds to SDATA=SWA on IEATDUMP
		...1	....		TDRMT_SDATA_TRT	"X'10'" Corresponds to SDATA=TRT on IEATDUMP
		....	1...		TDRMT_SDATA_PSA	"X'08'" Corresponds to SDATA=PSA on IEATDUMP
6	(6)	CHARACTER		2	TDRMT_SDATA_RSVD	Reserved, must be 0
6	(6)	X'8'		0	TDRMT_SDATA_LEN	"*-TDRMT_SDATA"

Table 671. Structure TDRMT_SUBPLST

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
0	(0)	STRUCTURE		0	TDRMT_SUBPLST	
0	(0)	CHARACTER		4	TDRMT_SUBPLST_HEADER(0)	
0	(0)	SIGNED		2	TDRMT_SUBPLST_ID	Use TDRMT_IDCON_SUBPLST to initialize
2	(2)	SIGNED		2	TDRMT_SUBPLST_LENGTH	Total length of area including this length field and the ID field
4	(4)	CHARACTER		2	TDRMT_SUBPLST_ENTRY(0)	This represents an array of Subpools
4	(4)	SIGNED		2	TDRMT_SUBPLST_SUBPOOL	The subpool
4	(4)	X'6'		0	TDRMT_SUBPLST_LEN	"*-TDRMT_SUBPLST"

Table 672. Structure TDRMT_COPY

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
0	(0)	STRUCTURE		0	TDRMT_COPY	
0	(0)	CHARACTER		4	TDRMT_COPY_HEADER(0)	
0	(0)	SIGNED		2	TDRMT_COPY_ID	Use TDRMT_xxxxx_COPY to initialize
2	(2)	SIGNED		2	TDRMT_COPY_LENGTH	Total length of area including this length field and the ID field
2	(2)	X'4'		0	TDRMT_COPY_LEN	"*-TDRMT_COPY"

Table 673. Cross Reference for IHATDRMT

Name	Offset	Hex Tag
TDRMT	0	
TDRMT_COPY	0	
TDRMT_COPY_HEADER	0	
TDRMT_COPY_ID	0	
TDRMT_COPY_LEN	2	4
TDRMT_COPY_LENGTH	2	
TDRMT_DATA	4	
TDRMT_GRPLIST	0	
TDRMT_GRPLIST_ENTRY	4	
TDRMT_GRPLIST_GRPNAME	4	
TDRMT_GRPLIST_HEADER	0	

Table 673. Cross Reference for IHATDRMT (continued)

Name	Offset	Hex Tag
TDRMT_GRPLIST_ID	0	
TDRMT_GRPLIST_LEN	C	1C
TDRMT_GRPLIST_LENGTH	2	
TDRMT_GRPLIST_MEMNAME	C	
TDRMT_IDCON_GRPLIST	4	8
TDRMT_IDCON_SDATA	4	C
TDRMT_IDCON_SDATA_COPY	4	D
TDRMT_IDCON_SUBPLST	4	20
TDRMT_IDCON_SYSLIST	4	4
TDRMT_LEN	4	4
TDRMT_LENGTH	0	
TDRMT_MODEL	0	
TDRMT_MODEL_ENTRY	4	
TDRMT_MODEL_HEADER	0	
TDRMT_MODEL_ID	0	
TDRMT_MODEL_LEN	4	4
TDRMT_MODEL_LENGTH	2	
TDRMT_SDATA	0	
TDRMT_SDATA_ALLNUC	4	40
TDRMT_SDATA_BYTE1	4	
TDRMT_SDATA_BYTE2	5	
TDRMT_SDATA_CSA	4	20
TDRMT_SDATA_DEFS	4	80
TDRMT_SDATA_GRSQ	4	10
TDRMT_SDATA_HEADER	0	
TDRMT_SDATA_ID	0	
TDRMT_SDATA_LEN	6	8
TDRMT_SDATA_LENGTH	2	
TDRMT_SDATA_LPA	4	8
TDRMT_SDATA_LSQA	4	4
TDRMT_SDATA_NUC	4	2
TDRMT_SDATA_OPTIONS	4	
TDRMT_SDATA_PSA	5	8
TDRMT_SDATA_RGN	4	1
TDRMT_SDATA_RSVD	6	
TDRMT_SDATA_SQA	5	80
TDRMT_SDATA_SUM	5	40
TDRMT_SDATA_SWA	5	20
TDRMT_SDATA_TRT	5	10
TDRMT_SUBPLST	0	
TDRMT_SUBPLST_ENTRY	4	
TDRMT_SUBPLST_HEADER	0	
TDRMT_SUBPLST_ID	0	
TDRMT_SUBPLST_LEN	4	6
TDRMT_SUBPLST_LENGTH	2	
TDRMT_SUBPLST_SUBPOOL	4	
TDRMT_SYSLIST	0	
TDRMT_SYSLIST_ASID	12	
TDRMT_SYSLIST_ENTRY	4	

IHATDRMT mapping

Table 673. Cross Reference for IHATDRMT (continued)

Name	Offset	Hex Tag
TDRMT_SYSLIST_HEADER	0	
TDRMT_SYSLIST_ID	0	
TDRMT_SYSLIST_JOBNAME	C	
TDRMT_SYSLIST_JOBNAME_ASID	C	
TDRMT_SYSLIST_LEN	12	14
TDRMT_SYSLIST_LENGTH	2	
TDRMT_SYSLIST_SYSNAME	4	
TDRMT_SYSLIST_ZEROES	C	

Chapter 168. IHATDUMP Information

IHATDUMP Heading Information

Common Name: Transaction Dump parameter list
 Macro ID: IHATDUMP
 DSECT Name: TDUMP
 Owing Component: SVC Dump (SCDMP)
 Eye-Catcher ID: TDMP
 Offset: 0
 Length: 4
 Storage Attributes: Main Storage: One per dump request
 Subpool: Any
 Key: Any
 Residency: Any
 Size: 108 bytes
 Created by: Transaction dump requestor
 Pointed to by: Reg 1 on entry to SVC 33
 Serialization: NONE
 Function: This is the mapping macro for the transaction dump parameter list as produced by the IEATDUMP macro.

IHATDUMP mapping

Table 674. Structure TDUMP

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	TDUMP	?IEATDUMP parameter list
0	(0)	CHARACTER	4	TDMPID	Parameter list name
4	(4)	SIGNED	2	TDMPLEN	Parameter list length
6	(6)	BITSTRING	1	TDMPVERSION	Parameter list version
7	(7)	CHARACTER	1		Reserved
8	(8)	CHARACTER	2	TDMPSDATA(0)	SDATA options
8	(8)	BITSTRING	1	TDMPSDATA1(0)	First byte of SDATA options
		1...		TDMPDEFS	"X'80'" SDATA=DEFS specified
		.1..		TDMPALLNUC	"X'40'" SDATA=ALLNUC
		..1.		TDMPCSA	"X'20'" SDATA=CSA specified
		...1		TDMPGRSQ	"X'10'" SDATA=GRSQ specified
		.... 1...		TDMPPLPA	"X'08'" SDATA=LPA specified
		.... .1..		TDMPLSQA	"X'04'" SDATA=LSQA specified
		.... ..1.		TDMPNUC	"X'02'" SDATA=NUC specified
		.... ...1		TDMPRGN	"X'01'" SDATA=RGN specified
9	(9)	BITSTRING	1	TDMPSDATA2(0)	Second byte of SDATA options
		1...		TDMPDPSQA	"X'80'" SDATA=DPSQA specified
		.1..		TDMPDPSUM	"X'40'" SDATA=DPSUM specified
		..1.		TDMPDPSWA	"X'20'" SDATA=DPSWA specified
		...1		TDMPDPTRT	"X'10'" SDATA=DPTRT specified
		.... 1...		TDMPDPPSA	"X'08'" SDATA=DPPSA specified
10	(A)	BITSTRING	1	TDMPFLAGS1(0)	First byte of flags
		1...		TDMPASYNC	"X'80'" ASYNC=YES specified

IHATDUMP mapping

Table 674. Structure TDUMP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ..1.		TDMPASYNCTARGET	"X'02'" Async dump target
		.... ..1		TDMPREMOTE	"X'01'" Remote dump
11	(B)	CHARACTER	1		Reserved
12	(C)	CHARACTER	8	TDMPDSPSTOKEN	Capture dataspace STOKEN
20	(14)	ADDRESS	4	TDMPDSPORIGIN	Capture dataspace origin
24	(18)	ADDRESS	4	TDMPDSPRECORDS@	Capture dataspace records address
28	(1C)	CHARACTER	8	TDMPDDNAME(0)	DDName
28	(1C)	ADDRESS	4	TDMPDCB@	DCB address
32	(20)	SIGNED	4	TDMPDCBALET	DCB alet
36	(24)	ADDRESS	4	TDMPDSN@	Data set name address
40	(28)	SIGNED	4	TDMPDSNALET	Data set name alet
44	(2C)	ADDRESS	4	TDMPHDR@	Header address
48	(30)	SIGNED	4	TDMPHRALET	Header alet
52	(34)	ADDRESS	4	TDMPIDX@	Dump index data set address
56	(38)	SIGNED	4	TDMPIDXALET	Dump index data set alet
60	(3C)	ADDRESS	4	TDMPSYMREC@	Symptom record address
64	(40)	SIGNED	4	TDMPSYMRECALET	Symptom record alet
68	(44)	ADDRESS	4	TDMPINTOKEN@	Incident token address
72	(48)	SIGNED	4	TDMPINTOKENALET	Incident token alet
76	(4C)	ADDRESS	4	TDMPREMOTE@	Remote area address
80	(50)	SIGNED	4	TDMPREMOTEALET	Remote area alet
84	(54)	ADDRESS	4	TDMPPROBDESC@	Problem description address
88	(58)	SIGNED	4	TDMPPROBDESCALET	Problem description alet
92	(5C)	ADDRESS	4	TDMPLIST@	List address
96	(60)	SIGNED	4	TDMPLISTALET	List alet
100	(64)	ADDRESS	4	TDMPSUBPLST@	Subplst address
104	(68)	SIGNED	4	TDMPSUBPLSTALET	Subplst alet
108	(6C)	ADDRESS	4	TDMPDSPLIST@	Dsplst address
112	(70)	SIGNED	4	TDMPDSPLISTALET	Dsplst alet
116	(74)	ADDRESS	4	TDMP ECB@	Ecb address
120	(78)	SIGNED	4	TDMP ECBALET	Ecb alet
Transaction dump return codes					
120	(78)	X'0'	0	TDMPRC_OK	"0" A complete transaction dump was taken
120	(78)	X'4'	0	TDMPRC_PARTIAL_DUMP	"4" A partial transaction dump was taken
120	(78)	X'8'	0	TDMPRC_NO_DUMP	"8" No transaction dump was taken
120	(78)	X'C'	0	TDMPRC_INTERNAL_ERROR	"12" No transaction dump was taken due to an internal error
120	(78)	X'10'	0	TDMPRC_BADAD00RETURNCODE	"16" IEAVTDMP received an unknown return code from IEAVAD00
Transaction dump reason codes for return code = 0					
120	(78)	X'0'	0	TDMPRSN_OK	"0" A complete transaction dump was taken
Transaction dump reason codes for return code = 4					
120	(78)	X'1'	0	TDMPRSN_DATASETTOOSMALL	"1" The data set was too small to contain the complete dump

Table 674. Structure TDUMP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
120	(78)	X'2'	0	TDMPRSN_CONTENTIONDETECTED	"2" Contention was detected
120	(78)	X'3'	0	TDMPRSN_INVALIDDSNAME	"3" Couldn't build valid DSName for next dump dataset, or DSN too long
120	(78)	X'4'	0	TDMPRSN_ALLOCFAILED	"4" Couldn't allocate the next dump dataset
120	(78)	X'5'	0	TDMPRSN_OPENDCBFAILED	"5" Couldn't open the dump dataset
120	(78)	X'6'	0	TDMPRSN_TOOMANYSECTIONS	"6" Too many dump sections created
120	(78)	X'7'	0	TDMPRSN_RANGETABLEFULL	"7" A range table in SDUMP is full
120	(78)	X'8'	0	TDMPRSN_TDUMPTOOBIG	"8" Automatically allocated TDUMP, without the &DS symbol in the DSN template, exceeds the maximum size of 2 gigabytes
Transaction dump reason codes for return code = 8					
120	(78)	X'1'	0	TDMPRSN_PARMADDRZERO	"1" The address of the transaction dump parameter list was zero
120	(78)	X'2'	0	TDMPRSN_CHNGDUMPNODUMP	"2" The dump was suppressed by CHNGDUMP
120	(78)	X'3'	0	TDMPRSN_SUPPRESSED BYSLIP	"3" The dump was suppressed by SLIP
120	(78)	X'4'	0	TDMPRSN_BADPARMALET	"4" The transaction dump parmlist ALET was not valid
120	(78)	X'5'	0	TDMPRSN_BADPARAMADDR	"5" The transaction dump parmlist was not addressable
120	(78)	X'6'	0	TDMPRSN_BADPARAMVERSION	"6" The transaction dump version was not valid
120	(78)	X'7'	0	TDMPRSN_BADPARMLENGTH	"7" The transaction dump length was not valid for the version specified
120	(78)	X'8'	0	TDMPRSN_NODEST	"8" No dump destination was specified in the transaction dump parmlist
120	(78)	X'9'	0	TDMPRSN_MORETHAN1DEST	"9" More than one dump destination was specified in the transaction dump parmlist
120	(78)	X'A'	0	TDMPRSN_BADDCBALET	"10" The ALET specified for the DCB in the transaction dump parmlist was not valid
120	(78)	X'B'	0	TDMPRSN_BADDCBADDR	"11" The DCB in the transaction dump parmlist was not addressable
120	(78)	X'C'	0	TDMPRSN_BADDSNALET	"12" The ALET specified for the DSN in the transaction dump parmlist was not valid
120	(78)	X'D'	0	TDMPRSN_BADDSNADDR	"13" The DSN in the transaction dump parmlist was not addressable
120	(78)	X'E'	0	TDMPRSN_NOHEADER	"14" No header was specified in the transaction dump parmlist

IHATDUMP mapping

Table 674. Structure TDUMP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
120	(78)	X'F'	0	TDMPRSN_BADHDRALET	"15" The ALET specified for the HDR in the transaction dump parmlist was not valid
120	(78)	X'10'	0	TDMPRSN_BADHDRADDR	"16" The HDR in the transaction dump parmlist was not addressable
120	(78)	X'11'	0	TDMPRSN_HDRTOOBIG	"17" The specified header was longer than 100 characters
120	(78)	X'12'	0	TDMPRSN_BADIDXALET	"18" The ALET specified for the IDX in the transaction dump parmlist was not valid
120	(78)	X'13'	0	TDMPRSN_BADIDXADDR	"19" The IDX in the transaction dump parmlist was not addressable
120	(78)	X'14'	0	TDMPRSN_IDXNOTVALID	"20" The specified dump index data set name was too long or not valid
120	(78)	X'15'	0	TDMPRSN_BADSYMRECALET	"21" The ALET specified for the SYMREC in the transaction dump parmlist was not valid
120	(78)	X'16'	0	TDMPRSN_BADSYMRECADDR	"22" The SYMREC in the transaction dump parmlist was not addressable
120	(78)	X'17'	0	TDMPRSN_SYMRECNOTVALID	"23" The SYMREC in the transaction dump parmlist was not valid
120	(78)	X'18'	0	TDMPRSN_BADINTOKENALET	"24" The ALET specified for the INTOKEN in the transaction dump parmlist was not valid
120	(78)	X'19'	0	TDMPRSN_BADINTOKENADDR	"25" The INTOKEN in the transaction dump parmlist was not addressable
120	(78)	X'1A'	0	TDMPRSN_BADREMOTEALET	"26" The ALET specified for the REMOTE in the transaction dump parmlist was not valid
120	(78)	X'1B'	0	TDMPRSN_BADREMOTEADDR	"27" The REMOTE in the transaction dump parmlist was not addressable
120	(78)	X'1C'	0	TDMPRSN_REMOTENOTVALID	"28" The remote area in the transaction dump parmlist was not valid
120	(78)	X'1D'	0	TDMPRSN_BADLISTALET	"29" The ALET specified for the storage list in the transaction dump parmlist was not valid
120	(78)	X'1E'	0	TDMPRSN_BADLISTADDR	"30" The storage list in the transaction dump parmlist was not addressable
120	(78)	X'1F'	0	TDMPRSN_BADLISTRANGE	"31" A range in the storage list was not valid
120	(78)	X'20'	0	TDMPRSN_CALLERNOTAUTH	"32" The caller requested functions for which he was not authorized
120	(78)	X'21'	0	TDMPRSN_DSNAMEINVALID	"33" The specified data set name was not valid

Table 674. Structure TDUMP (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
120	(78)	X'22'		0	TDMPRSN_DSNAMEOOLONG	"34" The specified data set name was too long
120	(78)	X'23'		0	TDMPRSN_DSNAMEBADSYMBOL	"35" The specified data set name contained bad symbols
120	(78)	X'24'		0	TDMPRSN_DSPSERVFAILED	"36" Unable to create the transaction dump dataspace
120	(78)	X'25'		0	TDMPRSN_ALESERVFAILED	"37" Unable to access the transaction dump dataspace
120	(78)	X'26'		0	TDMPRSN_ALLOCATFAILED	"38" Unable to allocate the transaction dump data set
120	(78)	X'27'		0	TDMPRSN_SUPPRESSEDYDAE	"39" The dump was suppressed by DAE
120	(78)	X'2A'		0	TDMPRSN_BADECB	"42" The ECB was not accessible
120	(78)	X'34'		0	TDMPRSN_IOERROR	"52" An I/O error occurred writing to the data set
120	(78)	X'35'		0	TDMPRSN_OPENFAILED	"53" OPEN failed for the dump data set
120	(78)	X'36'		0	TDMPRSN_INVALIDBLOCKSIZE	"54" Dump data set has invalid block size
120	(78)	X'37'		0	TDMPRSN_BADDSP_RECORDS@	"55" The DSP_RECORDS@ field was not accessible
120	(78)	X'38'		0	TDMPRSN_DCBNOTSUPP	"56" The DCB option is not supported
120	(78)	X'39'		0	TDMPRSN_ASYNCYESNOTSUPP	"57" The ASYNC=YES option is not supported
120	(78)	X'3A'		0	TDMPRSN_DSNOTATEND	"58" DS SYMBOL FOUND IN MIDDLE OF DUMP DNS PATTERN
120	(78)	X'3B'		0	TDMPRSN_TDUMPINPROGRESS	"59" There is another TDUMP in progress
120	(78)	X'3B'		0	TDMPRSN_RC8_REASONCOUNT	"59" Used to define reason related array dimension - should follow last new code
120	(78)	X'0'		0	TDMPRSN_LASTREASONHOLDER	"0" ++Placeholder++
Transaction dump reason codes for return code = 12						
120	(78)	X'1'		0	TDMPRSN_NOSAVEAREA	"1" IEAVAD00 was unable to obtain storage for IEAVTDMP's save and dynamic areas
120	(78)	X'2'		0	TDMPRSN_NORECOVERY	"2" IEAVTDMP was unable to establish a recovery environment
120	(78)	X'3'		0	TDMPRSN_NOSDDATSTOR	"3" IEAVTDMP was unable to obtain storage for the SDDAT, SDDXATBL, and DSPD
120	(78)	X'4'		0	TDMPRSN_NOVSMTABLE	"4" IEAVTDMP was unable to obtain storage for the VSM table
120	(78)	X'5'		0	TDMPRSN_NODSTABLE	"5" IEAVTDMP was unable to obtain storage for the SDUMP data space range table
120	(78)	X'6'		0	TDMPRSN_NOSMWKSTOR	"6" IEAVTDMP was unable to obtain storage for the SMWK
120	(78)	X'7'		0	TDMPRSN_NOESDSTOR	"7" IEAVTDMP was unable to obtain storage for the ESD
120	(78)	X'8'		0	TDMPRSN_NOUSERSTOR	"8" IEAVTDMP was unable to obtain user storage for the CKSTOKEN routine

IHATDUMP mapping

Table 674. Structure TDUMP (continued)

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
120	(78)	X'9'	0	TDMPRSN_NOOBUFSTOR	"9" IEAVTDMP was unable to obtain storage for the output buffer
120	(78)	X'A'	0	TDMPRSN_NODECBSTOR	"10" IEAVTDMP was unable to obtain storage for the DECB
120	(78)	X'B'	0	TDMPRSN_NOA253STOR	"11" IEAVTDMP was unable to obtain storage Area253
120	(78)	X'C'	0	TDMPRSN_NOATBSTOR	"12" IEAVTDMP was unable to get storage above the bar
120	(78)	X'D'	0	TDMPRSN_NOHVSHRTAB	"13" IEAVTDMP did not get HvCommon storage for HvShr Table
120	(78)	X'FF'	0	TDMPRSN_RECOVERYRECEIVEDCONTROL	"255" IEAVTDMP's recovery received control unexpectedly
120	(78)	X'7C'	0	TDUMP_LEN	"*-TDUMP"

Table 675. Cross Reference for IHATDUMP

Name	Offset	Hex Tag
TDMPALLNUC	8	40
TDMPASYNC	A	80
TDMPASYNCTARGET	A	2
TDMPCSA	8	20
TDMPDCB@	1C	
TDMPDCBALET	20	
TDMPDDNAME	1C	
TDMPDEFS	8	80
TDMPDSN@	24	
TDMPDSNALET	28	
TDMPDSPLIST@	6C	
TDMPDSPLISTALET	70	
TDMPDSPORIGIN	14	
TDMPDSPRECORDS@	18	
TDMPDSPSTOKEN	C	
TDMP ECB@	74	
TDMP ECB ALET	78	
TDMPFLAGS1	A	
TDMPGRSQ	8	10
TDMPHDR@	2C	
TDMPHDR ALET	30	
TDMPID	0	
TDMPIDX@	34	
TDMPIDXALET	38	
TDMPINTOKEN@	44	
TDMPINTOKENALET	48	
TDMPLEN	4	
TDMP LIST@	5C	
TDMP LIST ALET	60	
TDMP LPA	8	8
TDMP L SQA	8	4

Table 675. Cross Reference for IHATDUMP (continued)

Name	Offset	Hex Tag
TMPNUC	8	2
TDMPPROBDESC@	54	
TDMPPROBDESCALET	58	
TDMPPSA	9	8
TDMPRC_BADAD00RETURNCODE	78	10
TDMPRC_INTERNAL_ERROR	78	C
TDMPRC_NO_DUMP	78	8
TDMPRC_OK	78	0
TDMPRC_PARTIAL_DUMP	78	4
TDMPREMOTE	A	1
TDMPREMOTE@	4C	
TDMPREMOTEALET	50	
TDMPRGN	8	1
TDMPRSN_ALESERVFAILED	78	25
TDMPRSN_ALLOCATFAILED	78	26
TDMPRSN_ALLOCFAILED	78	4
TDMPRSN_ASYNCYESNOTSUPP	78	39
TDMPRSN_BADDCBADDR	78	B
TDMPRSN_BADDCBALET	78	A
TDMPRSN_BADDSNADDR	78	D
TDMPRSN_BADDSNALET	78	C
TDMPRSN_BADDSP_RECORDS@	78	37
TDMPRSN_BADECB	78	2A
TDMPRSN_BADHDRADDR	78	10
TDMPRSN_BADHDRALET	78	F
TDMPRSN_BADIDXADDR	78	13
TDMPRSN_BADIDXALET	78	12
TDMPRSN_BADINTOKENADDR	78	19
TDMPRSN_BADINTOKENALET	78	18
TDMPRSN_BADLISTADDR	78	1E
TDMPRSN_BADLISTALET	78	1D
TDMPRSN_BADLISTRANGE	78	1F
TDMPRSN_BADPARAMADDR	78	5
TDMPRSN_BADPARMALET	78	4
TDMPRSN_BADPARMLENGTH	78	7
TDMPRSN_BADPARMVERSION	78	6
TDMPRSN_BADREMOTEALET	78	1B
TDMPRSN_BADREMOTEALET	78	1A
TDMPRSN_BADSYMRECADDR	78	16
TDMPRSN_BADSYMRECALET	78	15
TDMPRSN_CALLERNOTAUTH	78	20
TDMPRSN_CHNGDUMPNODUMP	78	2
TDMPRSN_CONTENTIONDETECTED	78	2
TDMPRSN_DATASETTOOSMALL	78	1
TDMPRSN_DCBNOTSUPP	78	38
TDMPRSN_DSNAMEBADSMBOL	78	23
TDMPRSN_DSNAMEINVALID	78	21
TDMPRSN_DSNAMETOOLONG	78	22
TDMPRSN_DSNOTATEND	78	3A

IHATDUMP mapping

Table 675. Cross Reference for IHATDUMP (continued)

Name	Offset	Hex Tag
TDMPRSN_DSPSERVFAILED	78	24
TDMPRSN_HDRTOOBIG	78	11
TDMPRSN_IDXNOTVALID	78	14
TDMPRSN_INVALIDBLOCKSIZE	78	36
TDMPRSN_INVALIDDDNAME	78	3
TDMPRSN_IOERROR	78	34
TDMPRSN_LASTREASONHOLDER	78	0
TDMPRSN_MORETHAN1DEST	78	9
TDMPRSN_NOATBSTOR	78	C
TDMPRSN_NOA253STOR	78	B
TDMPRSN_NODECBSTOR	78	A
TDMPRSN_NODEST	78	8
TDMPRSN_NODSTABLE	78	5
TDMPRSN_NOESDSTOR	78	7
TDMPRSN_NOHEADER	78	E
TDMPRSN_NOHVSHRTAB	78	D
TDMPRSN_NOBUFSTOR	78	9
TDMPRSN_NORECOVERY	78	2
TDMPRSN_NOSAVEAREA	78	1
TDMPRSN_NOSDDATSTOR	78	3
TDMPRSN_NOSMWKSTOR	78	6
TDMPRSN_NOUSERSTOR	78	8
TDMPRSN_NOVSMTABLE	78	4
TDMPRSN_OK	78	0
TDMPRSN_OPENDCBFAILED	78	5
TDMPRSN_OPENFAILED	78	35
TDMPRSN_PARMADDRZERO	78	1
TDMPRSN_RANGETABLEFULL	78	7
TDMPRSN_RC8_REASONCOUNT	78	3B
TDMPRSN_RECOVERYRECEIVEDCONTROL	78	FF
TDMPRSN_REMOTENOTVALID	78	1C
TDMPRSN_SUPPRESSED BYDAE	78	27
TDMPRSN_SUPPRESSED BYSLIP	78	3
TDMPRSN_SYMRECNOTVALID	78	17
TDMPRSN_TDUMPINPROGRESS	78	3B
TDMPRSN_TDUMPTOOBIG	78	8
TDMPRSN_TOOMANYSECTIONS	78	6
TDMPDATA	8	
TDMPDATA1	8	
TDMPDATA2	9	
TDMPQA	9	80
TDMPSUBPLST@	64	
TDMPSUBPLSTALET	68	
TDMPSUM	9	40
TDMPWA	9	20
TDMPSYMREC@	3C	
TDMPSYMRECALET	40	
TDMPTRT	9	10
TDMPVERSION	6	

Table 675. Cross Reference for IHATDUMP (continued)

Name	Offset	Hex Tag
TDUMP	0	
TDUMP_LEN	78	7C

IHATDUMP mapping

Chapter 169. IHAWEB Information

IHAWEB Heading Information

Common Name: Work Element Block
Macro ID: IHAWEB
DSECT Name: WEB
Owning Component: Supervisor Control (SC1C5)
Eye-Catcher ID: WEB
Offset: 0
Length: 4
Storage Attributes: Subpool: 245
Key: 0
Residency: Above 16M line
Size: WEB -- X'0080' bytes
Created by: IEAVWPM
Pointed to by: ASCBCMLW field of the ASCB data area
ASCBLWQ field of the ASCB data area
ASCBSWQ field of the ASCB data area
ASCBSAWQ field of the ASCB data area
ASSBCAPQ field of the ASSB data area
ASSBRCTW field of the ASSB data area
ASSBTAWQ field of the ASSB data area
ASSBWCML field of the ASSB data area
ASSBWSSS field of the ASSB data area
ASSBWS3S field of the ASSB data area
LCCACWEB field of the LCCA data area
LCCAFWPP field of the LCCA data area
LCCANWEB field of the LCCA data area
LCCAPRMW field of the LCCA data area
LCCAPWEB field of the LCCA data area
LCCAWUQM field of the LCCA data area
PWVTPWUQ field of the PWVT data area
RRRAWEB field of the RRRA data area
STCBWEB field of the STCB data area
SRBWEB field of the SRB data area
SVTSWUQ field of the SVT data area
SVTXFWPP field of the SVTX data area
WEBSUSPQ
WEBPOOL
WEBUNEXT
WEBUPREV
WEBWUQP
WEBEnclaveNextWEB
WEBEnclavePrevWEB
WEBClientNextWEB
WEBClientPrevWEB
Serialization: Dependent on the specific field
Function: Each dispatchable workunit is represented by a WEB. The WEB is used to locate work to be dispatched.

IHAWEB mapping

IHAWEB mapping

Table 676. Structure WEB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	WEB	
0	(0)	CHARACTER	4	WEBWEB	Acronym in EBCDIC- "WEB ".
4	(4)	CHARACTER	4	WEBTPEWORD	WEB type word. Serialization: Locking the WEB.
4	(4)	CHARACTER	2	WEBFLAG1	WEB Flag bytes.
4	(4)	BITSTRING	1	WEBMISCFLGS	Miscellaneous flag byte.

Bit definitions:

	1... ..			WEBFLGSUM	"X'80'" Summary bit. This bit must be on when any bits are on in WEBFLAG1.
	.1.. ..			WEBSRBACTIV	"X'40'" (S)SRB has been dispatched. It may have been stopped and not yet reset.
	..1.			WEBCMLABEND	"X'20'" The Dispatcher must ABEND this workunit. It holds the CML lock of a terminating address space.
	...1			WEBSRBRETURNED	"X'10'" This is an SRB-returned WEB which needs to be removed from the WUQ
	.... 1111			WEBMISCFLGSRSD	"X'0F'" Reserved. Checked by IEAVEGR.
5	(5)	BITSTRING	1	WEBNDFLGS	Nondispatchability flags. All of the flags in this byte indicate some form of nondispatchability.

Bit definitions:

	1... ..			WEBLCLND	"X'80'" Suspended waiting for a Local lock.
	.1.. ..			WEBCMLND	"X'40'" Suspended waiting for a CML lock.
	..1.			WEBCMSND	"X'20'" Suspended waiting for a CMS lock.
	...1			WEBSWAP	"X'10'" Workunit is nondispatchable due to swapout processing
	.... 1...			WEBPAUSED	"X'08'" Workunit is paused. Used only for task WEBs.
	.... .111			WEBNDFLGSRSD	"X'07'" Reserved. Checked by IEAVEGR.
6	(6)	BITSTRING	1	WEBFLAG2	

Bit definitions:

	1... ..			WEBIFA	"X'80'" Work unit for IFA
	.1.. ..			WEBONASWUQ	"X'40'" WEB is on IFA SWUQ
	..1.			WEBZIIP100	"X'20'" zIIP at 100%
	...1			WEBSUP	"X'10'" Work unit for SUP
	.... 1...			WEBISFORSRB	"X'08'" This WEB is for some sort of SRB or SSRB.

Table 676. Structure WEB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		WEBGLOBALSRBFIRSTDISPATCH	"X'04'" When on, this WEB represents a global SRB on its 1st dispatch where the global SRB had WEBCMAJOR_Flag WEBCGSRB on.
		.... ..1.		WEBFLAG2RSVD	"X'02'" Checked in IEAVECBV
		.... ...1		WEBFLAG2RSV2	"X'01'" Reserved, do not use
7	(7)	BITSTRING	1	WEBSITE	Workunit type. Serialized by the WEBLOCK. However, may be fetched by disabled routines running under the WEB without the WEBLOCK being held. Routines that fetch WEBSITE without the WEBLOCK being held must be able to tolerate the WEBSITE changing from WEBSITE or WEBSITE to WEBSITE or from any preemptable-class SRB into a nonpreemptable-class SRB due to PurgeDQ processing. A client or enclave SRB is transformed into a preemptable SRB when the respective client or enclave terminates. Note: Obtaining the associated client or enclave WEB Q Lock is an effective way to ensure that WEBSITE or WEBSITE respectively, will not change to WEBSITE. The same holds true for WEBSITE changing to WEBSITE.
8	(8)	CHARACTER	8	WEBLOCKWORD	WEB Lock Doubleword. Serialization: WUQ protocol.
8	(8)	CHARACTER	4	WEBLOCK	WEB Lockword. Serialization: Compare and Swap.
8	(8)	CHARACTER	1	WEBLOCKWORD_BYTE_1	First byte of WEB Lockword. Serialization: Compare and Swap. NOTE: All nonused bits must be zero.

Bit definitions:

		1...		WEBON_FREE_Q	"X'80'" Indicates whether or not this WEB is on the WEB Free Queue. When 1, this WEB is on the WEB Free Queue. Serialization: Compare and Swap.
9	(9)	CHARACTER	1	WEBR009	Reserved. Must be zero.
10	(A)	BITSTRING	2	WEBLOCK_CPUID	Logical CPU ID of the processor which has locked this WEB. When lock is not held, this halfword is zero. Serialization: Compare and Swap.
12	(C)	ADDRESS	4	WEBWUQP	WUQ pointer. Serialization: WUQ protocol.

Bit definitions:

IHAWEB mapping

Table 676. Structure WEB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		WEBOFFQ	"X'80'" Indicates whether or not this WEB is off a WUQ. When 1, this WEB is off a WUQ. Serialization: Compare and Swap.
<p>Note, when adding / changing dispatch priority bits, verify the non-RQM and RQM work unit priority bitmask (in WEBCPRTYB_RQMOFF and WEBCPRTYB_RQMON) and the RQM constants for dispatch priorities are still correct with the updates.</p>					
16	(10)	SIGNED	4	WEBCPRTY	Workunit priority. Serialization: locking the WEB and ensuring it is not on a WUQ. It is F(31) so that a PL/X compare will be signed and show the header priority as negative.
16	(10)	CHARACTER	4	WEBCPRTY_UNION	
16	(10)	CHARACTER	4	WEBCPRTYC	Workunit priority (char)
16	(10)	CHARACTER	2	WEBCMAJOR_BYTES	Major priority halfword.
16	(10)	BITSTRING	1	WEBCMAJFLG	Major priority flags.
Bit definitions:					
		1...		WEBCHDR	"X'80'" WUQ Header priority (-1).
		.1..		WEBCGSRB	"X'40'" Global SRB priority.
		..1.		WEBCMAJFLGRSVD	"X'20'" Reserved. Checked by IEAVEGR.
		...1		WEBCMAST	"X'10'" Master address space priority.
		.... 11..		WEBCMAJFLGRSVD2	"X'0C'" Reserved. Checked by IEAVEGR.
		.... ..1.		WEBCLOGICALSWAPINPROMOTION	"X'02'" SRM thought RCT might be starved for CPU during logical swap in. Promotion lasts only until next dispatch.
		.... ...1		WEBCMAJFLGRSVD3	"X'01'" Reserved. Checked by IEAVEGR.
17	(11)	BITSTRING	1	WEBCMAJOR	ASCB (Major) priority.
18	(12)	CHARACTER	2	WEBCMINOR_BYTES	Minor priority halfword.
18	(12)	BITSTRING	1	WEBCMINFLG	Minor Priority flags.
Bit definitions:					
		1...		WEBCLSRB	"X'80'" Default local SRB Priority. Note this bit is also set for a global SRB.
		.1..		WEBCLOCK	"X'40'" Locally locked priority.
		..1.		WEBCMINFLGRSVD	"X'20'" Reserved. Checked by IEAVEGR.
		...1		WEBCMLP	"X'10'" CML lock promotion priority.
		.... 1...		WEBCEXIT	"X'08'" Async exit priority.
		.... .1..		WEBCRCT	"X'04'" RCT priority.

Table 676. Structure WEB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
	....	..1.		WEBCMINOR_NONRQM_WEBCMINOR	"X'02'" When RQM is active, all WEBS that received a minor dispatch priority outside the system through TCB CHAP or on IEAMSCHD are ineligible for RQM. These units of work have a higher priority than the 'rest' of the RQMed work and possibly relative to other minor dispatch priorities. The system cannot know the intentions of external minor dispatch priorities being assigned, so the system always runs the non-RQM work at a higher priority than the RQMed work by turning this WEBCMINOR priority flag bit on. This bit is off when RQM is inactive.
	....	...1		WEBCMINOR_MINORTSORNOTS	"X'01'" Workunit was interrupted in during a minor task time slice in HD=YES or for a non-time slice reason in any HD state.
19	(13)	BITSTRING	1	WEBCMINOR	TCB (Minor) priority.
20	(14)	ADDRESS	4	WEBHASCB	Home ASCB address. Serialization: only set during WEB initialization. Can only be referenced when running under the WEB or with the WEB locked.
20	(14)	ADDRESS	4	WEBPOOL	WEB Free Pool pointer. Serialization: locking the WEB (except during WEB initialization.)
24	(18)	ADDRESS	4	WEBUPTR	Work unit address TCB or (S)SRB address. Serialization: only set during initialization. Can only be referenced when running under the WEB or with the WEB locked.
24	(18)	SIGNED	2	WEBUHIGH	High order byte of WEBUPTR. Must be zero for WUQ header WEBS.
26	(1A)	SIGNED	2	WEBLOGICAL_CPUID	Logical CPU id of CPU for which this WEB is the WUQ header. Only valid if WEBTYPE=WEBTWUQH. Serialization: Only set during initialization.
28	(1C)	ADDRESS	4	WEBUNEXT	Address space queue forward pointer. Header: ASCBSAWQ or ASSBTAWQ. Serialization: ASCBWQLK.
32	(20)	ADDRESS	4	WEBUPREV	Address space queue backward pointer. Header: ASCBSAWQ or ASSBTAWQ. Serialization: ASCBWQLK.

Bit definitions:

IHAWEB mapping

Table 676. Structure WEB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1... ..		WEBOFF_AWQ	"X'80'" Indicates to global recovery that this WEB does not belong on an address space related queue.
36	(24)	ADDRESS	4	WEBSUSPQ	Suspend queue pointer. The address of the next WEB on a lock suspend queue. Serialization: functional - Either executing under the workunit or local lock is held.
36	(24)	BITSTRING	1	WEBSUSPQ_BYTE_1	First byte of suspend queue pointer. Used to manipulate high order bit of suspend queue forward link.
Bit definitions:					
		1... ..		WEBSUSPQ_HIGH_BIT	"X'80'" Used to manipulate high order bit of suspend queue forward link.
37	(25)	CHARACTER	3		
40	(28)	ADDRESS	4	WEBLSQP	Address of CMS lock (valid only when WEBCMSND is set) OR address of ASCB whose CML lock is being requested (valid only when WEBCMLND is set.) Serialization: Locking the WEB.
44	(2C)	ADDRESS	4	WEBCAPQ	Capped WEB forward pointer. The address of the next WEB on the home address space cap queue. Serialization: Dispatcher active and compare and swap to enqueue. Global intersect to dequeue. Global Recovery, which is serialized by a SIGP to all processors, may also dequeue.
Bit definitions:					
		1... ..		WEBONCAPQ	"X'80'" When this bit is on, the WEB is on a cap queue. Serialization: For SRBs, global intersect. For tasks, the WEB lock.
48	(30)	SIGNED	4	WEBMISCWORD	Word containing MISCFLAGS
48	(30)	CHARACTER	1	WEBR030	Reserved
49	(31)	BITSTRING	1	WEBMISCFLAGS	Miscellaneous indicators byte. Serialization is the WEB lock.
Bit definitions:					
		1... ..		WEBENCRDYCOUNT	"X'80'" Indicates that the current work unit is included in the home address space's enclave ready count (ASCBTCBE).

Table 676. Structure WEB (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
		.1..	....		WEBENCLLSUSQCOUNT	"X'40'" Indicates that the current work unit is included in the home address space's enclave local lock suspend queue count (ASCBLSEQE)
		..1.	....		WEBSYNCH	"X'20'" Indicates that there is some other process suspended waiting for the SRB to complete, and that the SSRB that for this workunit is being used as a workarea for IEAVSCHD.
		...1	....		WEBRESUMETASKONSUSPEND	"X'10'" Only on when WEBSynch is on too. Indicates that the suspended process waiting for this SRB must be resumed if the SRB is suspended.
Note, the WEBQUEUEDAHEA values are only used when the RQM is off.						
		....	.1..		WEBQUEUEDAHEA4	"X'04'" A WEB of higher priority for this address space has been added in from of this one
		....	..1.		WEBQUEUEDAHEA2	"X'02'" A WEB of higher priority for this address space has been added in from of this one
		....	...1		WEBQUEUEDAHEAD	"X'01'" A WEB of higher priority for this address space has been added in from of this one
50	(32)	SIGNED		2	WEBPRIORITYID	AscbASID or EncbPseudoID for the appropriate ASCB/ENCB
Bit definitions:						
		1...	....		WEBPRIORITYIDISFORENCLAVE	"X'80'" If on, EncbPseudoID
52	(34)	CHARACTER		12	WEBUNION	
52	(34)	CHARACTER		12	WEBACCOUNTINGBLOCKINFO	These are the names used in the IPCS model. They are "common" to the other names in the union.
52	(34)	ADDRESS		4	WEBACCTBLKADDR	Address of the accounting block
56	(38)	ADDRESS		4	WEBACCTBLKNEXTWEB	Address of the next WEB on this chain
60	(3C)	ADDRESS		4	WEBACCTBLKPREVWEB	Address of the prev WEB on this chain
52	(34)	CHARACTER		12	WEBENCLAVEINFO	
52	(34)	ADDRESS		4	WEBENCLAVEADDR	Address of this workunit's ENCB, or 0. This value can only be used as an enclave address if the WEBTYPE is WEBTESRB or WEBTETCB. Serialization: WEB lock.

IHAWEB mapping

Table 676. Structure WEB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
56	(38)	ADDRESS	4	WEBENCLAVENEXTWEB	Enclave queue pointer. The address of the next WEB associated with this enclave, or zero. This value can only be used if the WEBTYPE is WEBTESRB. Serialization: Enclave WEBQ lock.
60	(3C)	ADDRESS	4	WEBENCLAVEPREVWEB	Enclave queue pointer. The address of the previous WEB associated with this enclave, or zero. This value can only be used if the WEBTYPE is WEBTESRB. Serialization: Enclave WEBQ lock.

Bit definitions:

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1... ..		WEBOFF_EWQ	"X'80'" Indicates to global recovery that this WEB does not belong on an enclave related queue. Serialization: Enclave WEBQ lock.
52	(34)	CHARACTER	12	WEBCLIENTINFO	
52	(34)	ADDRESS	4	WEBCLIENTASCBADDR	Address of the ASCB from which this workunit's priority is derived and which is charged for the CPU time consumed. This can only be used if the WEBTYPE is WEBTCSR. Serialization: ASCB WEBQ lock.
56	(38)	ADDRESS	4	WEBCLIENTNEXTWEB	Client queue pointer. The address of the next Client WEB associated with the ASCB whose address is in WebClientAscbAddr or zero. This can only be used if the WEBTYPE is WEBTCSR. Serialization: ASCB WEBQ lock.
60	(3C)	ADDRESS	4	WEBCLIENTPREVWEB	Client queue pointer. The address of the prev Client WEB associated with the ASCB whose address is in WebClientAscbAddr or zero. This can only be used if the WEBTYPE is WEBTCSR. Serialization: ASCB WEBQ lock.

Bit definitions:

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1... ..		WEBOFF_CWQ	"X'80'" Indicates to global recovery that this WEB does not belong on a client ASCB related queue.
64	(40)	ADDRESS	4	WEBNATIVECONTEXTPTR	Address of this work unit's Native Context. Serialization:
68	(44)	ADDRESS	4	WEBPRIVATECONTEXTPTR	Address of this work unit's Private Context. Serialization:
72	(48)	ADDRESS	4	WEB_CP_AFFINITY_NODE	Node to use for CP queuing

Bit definitions:

Table 676. Structure WEB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		WEB_ENTITLE_NOMINEE	"X'80'" Entitle nominee
76	(4C)	ADDRESS	4	WEB_IFA_AFFINITY_NODE	Node to use for IFA queuing
80	(50)	ADDRESS	4	WEBCURRENT_WUQ	WUQ address, when queued
84	(54)	SIGNED	2	WEBDIAG1	
86	(56)	SIGNED	2	WEBPROMOTION_TEMPASID	ASID to use with temporary promotion
88	(58)	SIGNED	4	WEBCSWORD1	Used to perform CS when updating WebC1Flags
88	(58)	CHARACTER	2	WEBDIAG3	Diagnostic
90	(5A)	BITSTRING	1	WEBCLFLAGS	These flags are cleared when a WEB is allocated and are serialized by CS because some modules which set/reset them lock the WEB and others are running under the unit of work
Bit definitions:					
		1...		WEBSRBTERM	"X'80'" This preemptable SRB was the target of a CALLRTM TYPE=SRBTERM and is to be terminated at the next opportunity
		.1..		WEBSRBTERMINPROGRESS	"X'40'" WebSrbTerm has been honored and termination of this preemptable SRB has been initiated. This bit is turned off by RTM when it processes an abending SRB
		..1.		WEBFRRINCONTROL	"X'20'" Turned on by RTM1 while an FRR is in control for an SRB, used to protect FRRs from SRBTERMs. The name does not have 'SRB' in it in case we ever want to also use this indicator for tasks
91	(5B)	BITSTRING	1	WEB_RQM_WEBCMAJOR_DP_SEQNUM	The subdivided RQM WEBCMAJOR dispatch priority sequence number. When RQM is active, all WEBs have this sequence number set.
92	(5C)	BITSTRING	1	WEB_NONRQM_WEBCMINOR_DP	The non-RQMed minor dispatch priority set from a TCB / WEB CHAP, an SRB scheduled with a minor dispatch priority, or some other reason besides RQM.
93	(5D)	BITSTRING	1	WEB_SHORTMINHDYESLOCKPROMOTE	In HD=YES, number of short minors remaining which lock promote can occur for. This field is only meaningful when WebPromotion_HDYesLockPromote is on
94	(5E)	CHARACTER	2	WEBTSC	WEB's timeslice counts
94	(5E)	BITSTRING	1	WEBCTSM	Current timeslice multiplier

IHAWEB mapping

Table 676. Structure WEB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
95	(5F)	BITSTRING	1	WEBCTSC	Current timeslice count
Bit definitions:					
		1... ..		WEBFDSP	"X'80'" Indicates first dispatch, this bit is on from dispatch until first minor Reserved
96	(60)	CHARACTER	2	WEBR060	Reserved
98	(62)	BITSTRING	1	WEBHELP_WEIGHT	Weight to use for this element during needs help processing
99	(63)	BITSTRING	1	WEBPROMOTION_SRBSPRIORITY	When WebPromotion_SRBsActive or WebPromotion_Lock are/is 1, the major priority to be used for this WEB. Serialization: WEB lock
100	(64)	ADDRESS	4	WEB_SUP_AFFINITY_NODE	Node to use for SUP queuing
104	(68)	BITSTRING	4	WEBPROMOTION_CONTROL	When non-0 the highest of the active promotion priorities will be used when queuing the WEB to the WUQ if it is higher then the major priority that would normally be used
104	(68)	BITSTRING	1	WEBPROMOTION_FLAGS	WEB promotion flags in addition to those in WebPromotion_Misc. Serialization: Locking the WEB.
Bit definitions:					
		1111 1...		WEBPROMOTIONRSVD1	"X'F8'" Reserved, checked in IEAVECBV
		.... .1..		WEBPROMOTION_HDYESLOCKPROMOTE	"X'04'" 1 when a WEB was promoted in HD=YES for holding a local lock, 0 otherwise. When this bit is on, it overrides types of promotion because this bit results in the work unit getting the highest possible promotion priority (FFx).
		.... ..1.		WEBPROMOTION_LOCK	"X'02'" 1 when this workunit holds a local lock and an SRB which requested the lock had been given too many SRBs promotion. NOTE: This flag is not used when a promoted SRB suspends for a CMS lock. in that situation, the promoted priority is used by standard CMS Promotion processing.
		.... ...1		WEBPROMOTION_SRBSACTIVE	"X'01'" 1 when this WEB has been promoted to alleviate a flood of SRBs (too many SRBs).
105	(69)	CHARACTER	3	WEBPROMOTION_SLICECOUNT	Priority override minor timeslice counts.
105	(69)	BITSTRING	1	WEBPROMOTION_TEMPCount	Count of timeslices for temporary promotion to be active
106	(6A)	BITSTRING	1	WEBPROMOTION_MISC	Miscellaneous

Table 676. Structure WEB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
Bit definitions:					
	1111	11..		WEBPROMOTION_MISC_RSVD	"X'FC'" Reserved, checked for 0 by IEAVECBV
	....	...1		WEBPROMOTION_DEFERSWITCHFROM	"X'02'" 1 when deferred switch from zAAP in effect, 0 otherwise. Mutually exclusive with TrickleActive so not a problem to reset without CS
	....	...1		WEBPROMOTION_TRICKLEACTIVE	"X'01'" 1 when trickle promotion is active, 0 otherwise. Mutually exclusive with DeferSwitchFrom so not a problem to reset without CS
107	(6B)	BITSTRING	1	WEBPROMOTIONRSVD2	Reserved, checked in IEAVECBV
108	(6C)	SIGNED	4	WEB_REMAINING_TRICKLE_TIME	Remaining time for trickle or deferred switch from zAAP
112	(70)	CHARACTER	8	WEB_TOD	A TOD associated with the WEB
112	(70)	CHARACTER	8	WEB_TOD_LASTTIMEWUQADDED	When not suspended, the last time this WEB was WUQ added. Serialization: WEB lock.
112	(70)	SIGNED	4	WEB_TOD_LASTTIMEWUQADDEDH	
116	(74)	SIGNED	4	WEB_TOD_LASTTIMEWUQADDEDL	
112	(70)	CHARACTER	8	WEB_TOD_SUSPENDED_FOR_LOCK	The TOD when a WEB was suspended for a local/CML/CMS lock. Serialization: WEB lock.
112	(70)	CHARACTER	7		
119	(77)	CHARACTER	1	WEB_TOD_SUSPENDED_FOR_LOCK_LOW_BYTE	
Bit definitions:					
	....	...1		WEB_OTHER_WEB_ALREADY_SUSPENDED	"X'01'" Indicator whether a different WEB was already suspended for the same lock.
120	(78)	CHARACTER	8	WEBR078	Reserved
128	(80)	CHARACTER	1	WEBEND(0)	End of WEB.
RQM Dispatch Priority Mask Constants.					
128	(80)	BITSTRING	0	WEBCMINOR_MASK_RQM_DPS_HW	"X'03FF'" Mask of WEBCMINOR half word dispatch priorities managed by RQM when RQM is active. The following WEBCMINOR fields are managed by RQM when it is active: WEBCMinor_NonRQM_WEBCMINOR, WebCMinor_MinorTSOrNoTS, WEBCMINOR
128	(80)	BITSTRING	0	WEBCMINOR_MASK_NONRQM_DPS_HW	"X'FC00'" Mask of WEBCMINOR half word dispatch priorities not managed by RQM when RQM is active.
128	(80)	X'3FF'	0	WEBCMINOR_CONST_RQM_DPS_HW	"1023" Constant analog for assembler

IHAWEB mapping

Table 676. Structure WEB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
128	(80)	X'FFFC00'	0	WEBCMINOR_CONST_NONRQM_DPS_HW	"-1024" Constant analog for assembler
128	(80)	X'4'	0	WEBTSRB	"4" WEB represents an SRB.
128	(80)	X'8'	0	WEBMSRB	"8" WEB represents a managed SRB (Global or Local created by IEAMSCHD). If also FULLXM, type FSRB is used instead of MSRB.
128	(80)	X'C'	0	WEBSSRB	"12" WEB represents an SSRB.
128	(80)	X'10'	0	WEBESRB	"16" WEB represents an Enclave SRB. The WEB's priority is derived from the Enclave. All enclave SRBs are preemptable-class.
128	(80)	X'14'	0	WEBPSRB	"20" WEB represents a Preemptable SRB. All Preemptable SRBs are of the preemptable-class.
128	(80)	X'18'	0	WEBFSRB	"24" WEB represents an SRB scheduled with the FULLXM keyword. If also Preemptable, enclaved, or client, that type is used instead of FSRB.
128	(80)	X'1C'	0	WEBTCB	"28" WEB represents a TCB.
128	(80)	X'20'	0	WEBEXIT	"32" WEB represents an Async Exit.
128	(80)	X'24'	0	WEBTCMLP	"36" WEB represents a CML Promotion.
128	(80)	X'28'	0	WEBWUQH	"40" WEB represents a WUQ header.
128	(80)	X'2C'	0	WEBTFREE	"44" WEB is free.
128	(80)	X'30'	0	WEBRSRB	"48" WEB represents a previously executing SRB which has been suspended by SUSPEND with token or by PAUSE or TRANSFER.
128	(80)	X'34'	0	WEBCSR	"52" WEB represents a client SRB. The workunit's priority is derived from an address space different from its home address space. All Client SRBs are preemptable-class.
128	(80)	X'38'	0	WEBTETCB	"56" WEB represents an enclave TCB. The WEB's priority is derived from the enclave.
128	(80)	X'3C'	0	WEBTCMSP	"60" WEB represents a CMS Promotion.
128	(80)	X'0'	0	WEBERROR	"0" WEB is in error
128	(80)	X'80'	0	WEBENCRDYCOUNTBITCONST	"128" Bit constant for bit position WEBEncRdyCount. Used by assembler macro generated in PL/X code.
128	(80)	X'40'	0	WEBENCLLSUSQCOUNTBITCONST	"64" Bit constant for bit position WEBEncLLSusQCount. Used by assembler macro generated in PL/X code.

Table 676. Structure WEB (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
128	(80)	X'80'		0	WEBLCLNDBITCONST	"128" Bit constant for bit position WEBLCLND. Used by assembler macro generated in PL/X code.
128	(80)	X'40'		0	WEBCLNDBITCONST	"64" Bit constant for bit position WEBCLND. Used by assembler macro generated in PL/X code.
128	(80)	X'C5C240'		0	WEBWEBCHARS	"C'WEB '" Acronym
128	(80)	X'E6C5C2'		0	ERRORWEBWEBCHARS	"C'EWEB'" Acronym
128	(80)	X'80'		0	WEB_LEN	"*-WEB"

Table 677. Cross Reference for IHAWEB

Name	Offset	Hex	Tag
ERRORWEBWEBCHARS	80	E6C5C2	
WEB	0		
WEB_CP_AFFINITY_NODE	48		
WEB_ENTITLE_NOMINEE	48	80	
WEB_IFA_AFFINITY_NODE	4C		
WEB_LEN	80	80	
WEB_NONRQM_WEBCMINOR_DP	5C		
WEB_OTHER_WEB_ALREADY_SUSPENDED	77	1	
WEB_REMAINING_TRICKLE_TIME	6C		
WEB_RQM_WEBCMAJOR_DP_SEQNUM	5B		
WEB_SHORTMINHDYESLOCKPROMOTE	5D		
WEB_SUP_AFFINITY_NODE	64		
WEB_TOD	70		
WEB_TOD_LASTTIMEWUQADDED	70		
WEB_TOD_LASTTIMEWUQADDEDH	70		
WEB_TOD_LASTTIMEWUQADDEDL	74		
WEB_TOD_SUSPENDED_FOR_LOCK	70		
WEB_TOD_SUSPENDED_FOR_LOCK_LOW_BYTE	77		
WEBACCOUNTINGBLOCKINFO	34		
WEBACCTBLKADDR	34		
WEBACCTBLKNEXTWEB	38		
WEBACCTBLKPREVWEB	3C		
WEBCAPQ	2C		
WEBCMLP	12	10	
WEBCEXIT	12	8	
WEBCGSRB	10	40	
WEBCHDR	10	80	
WEBCLFLAGS	5A		
WEBCLIENTASCBADDR	34		
WEBCLIENTINFO	34		
WEBCLIENTNEXTWEB	38		
WEBCLIENTPREVWEB	3C		
WEBCLLOCK	12	40	
WEBLOGICALSWAPINPROMOTION	10	2	
WEBCLSRB	12	80	

IHAWEB mapping

Table 677. Cross Reference for IHAWEB (continued)

Name	Offset	Hex Tag
WEBCMAJFLG	10	
WEBCMAJFLGRSVD	10	20
WEBCMAJFLGRSVD2	10	C
WEBCMAJFLGRSVD3	10	1
WEBCMAJOR	11	
WEBCMAJOR_BYTES	10	
WEBCMAST	10	10
WEBCMINFLG	12	
WEBCMINFLGRSVD	12	20
WEBCMINOR	13	
WEBCMINOR_BYTES	12	
WEBCMINOR_CONST_NONRQM_DPS_HW	80	FFFC00
WEBCMINOR_CONST_RQM_DPS_HW	80	3FF
WEBCMINOR_MASK_NONRQM_DPS_HW	80	FC00
WEBCMINOR_MASK_RQM_DPS_HW	80	3FF
WEBCMINOR_MINORTSORNOTS	12	1
WEBCMINOR_NONRQM_WEBCMINOR	12	2
WEBCMLABEND	4	20
WEBCMLND	5	40
WEBCMLNDBITCONST	80	40
WEBCMSND	5	20
WEBCPRTY	10	
WEBCPRTY_UNION	10	
WEBCPRTYC	10	
WEBCRCT	12	4
WEBCSWORD1	58	
WEBCTSC	5F	
WEBCTSM	5E	
WEBCURRENT_WUQ	50	
WEBDIAG1	54	
WEBDIAG3	58	
WEBENCLAVEADDR	34	
WEBENCLAVEINFO	34	
WEBENCLAVENEXTWEB	38	
WEBENCLAVEPREVWEB	3C	
WEBENCLLSUSQCOUNT	31	40
WEBENCLLSUSQCOUNTBITCONST	80	40
WEBENCRDYCOUNT	31	80
WEBENCRDYCOUNTBITCONST	80	80
WEBEND	80	
WEBFDSP	5F	80
WEBFLAG1	4	
WEBFLAG2	6	
WEBFLAG2RSVD	6	2
WEBFLAG2RSV2	6	1
WEBFLGSUM	4	80
WEBFRRINCONTROL	5A	20
WEBGLOBALSRBFIRSTDISPATCH	6	4
WEBHASCB	14	

Table 677. Cross Reference for IHAWEB (continued)

Name	Offset	Hex Tag
WEBHELP_WEIGHT	62	
WEBIFA	6	80
WEBISFORSRB	6	8
WEBLCLND	5	80
WEBLCLNDBITCONST	80	80
WEBLOCK	8	
WEBLOCK_CPUID	A	
WEBLOCKDWORD	8	
WEBLOCKWORD_BYTE_1	8	
WEBLOGICAL_CPUID	1A	
WEBSQP	28	
WEBMISCFLAGS	31	
WEBMISCFLGS	4	
WEBMISCFLGSRSD	4	F
WEBMISCWORD	30	
WEBNATIVECONTEXTPTR	40	
WEBNDFLGS	5	
WEBNDFLGSRSD	5	7
WEBOFF_AWQ	20	80
WEBOFF_CWQ	3C	80
WEBOFF_EWQ	3C	80
WEBOFFQ	C	80
WEBON_FREE_Q	8	80
WEBONASWUQ	6	40
WEBONCAPQ	2C	80
WEBPAUSED	5	8
WEBPOOL	14	
WEBPRIORITYID	32	
WEBPRIORITYIDISFORENCLAVE	32	80
WEBPRIVATECONTEXTPTR	44	
WEBPROMOTION_CONTROL	68	
WEBPROMOTION_DEFERSWITCHFROM	6A	2
WEBPROMOTION_FLAGS	68	
WEBPROMOTION_HDYESLOCKPROMOTE	68	4
WEBPROMOTION_LOCK	68	2
WEBPROMOTION_MISC	6A	
WEBPROMOTION_MISC_RSVD	6A	FC
WEBPROMOTION_SLICECOUNT	69	
WEBPROMOTION_SRBSACTIVE	68	1
WEBPROMOTION_SRBSPRIORITY	63	
WEBPROMOTION_TEMPASID	56	
WEBPROMOTION_TEMPCOUNT	69	
WEBPROMOTION_TRICKLEACTIVE	6A	1
WEBPROMOTIONRSVD1	68	F8
WEBPROMOTIONRSVD2	6B	
WEBQUEUEAHEAD	31	1
WEBQUEUEAHEAD2	31	2
WEBQUEUEAHEAD4	31	4
WEBRESUMETASKONSUSPEND	31	10

IHAWEB mapping

Table 677. Cross Reference for IHAWEB (continued)

Name	Offset	Hex Tag
WEBR009	9	
WEBR030	30	
WEBR060	60	
WEBR078	78	
WEBSRBACTIV	4	40
WEBSRBRETURNED	4	10
WEBSRBTERM	5A	80
WEBSRBTERMINPROGRESS	5A	40
WEBSUP	6	10
WEBSUSPQ	24	
WEBSUSPQ_BYTE_1	24	
WEBSUSPQ_HIGH_BIT	24	80
WEBSWAP	5	10
WEBSYNCH	31	20
WEBTCMLP	80	24
WEBTCMSP	80	3C
WEBTCSRB	80	34
WEBTERROR	80	0
WEBTESRB	80	10
WEBTETCB	80	38
WEBTEXTIT	80	20
WEBTFREE	80	2C
WEBTFSRB	80	18
WEBTMSRB	80	8
WEBTPSRB	80	14
WEBTRSRB	80	30
WEBTSC	5E	
WEBTSRB	80	4
WEBTSSRB	80	C
WEBTTCB	80	1C
WEBTWUQH	80	28
WEBTYPE	7	
WEBTYPEWORD	4	
WEBUHIGH	18	
WEBUNEXT	1C	
WEBUNION	34	
WEBUPREV	20	
WEBUPTR	18	
WEBWEB	0	
WEBWEBCHARS	80	C5C240
WEBWUQP	C	
WEBZIIP100	6	20

Chapter 170. IHAWEE Information

IHAWEE Heading Information

Common Name: WEB Extent Element
 Macro ID: IHAWEE
 DSECT Name: WEE
 Owing Component: Supervisor Control (SC1C5)
 Eye-Catcher ID: WEE
 Offset: 0
 Length: 4
 Storage Attributes: Subpool: 245, fixed ESQA
 Key: 0
 Residency: Above 16M line
 Size: WEEWEBSIZE bytes
 Created by: IEAVWPM
 Pointed to by: SVTWEEF field of the SVT data area
 SVTXWEEL field of the SVTX data area
 SVT_WUQH_WEE_Header field of the SVTX data area
 SVTX_WUQH_WEE_Trailer field of the SVTX data area
 WEENEXT
 WEEPREV
 Serialization: Global Recovery Protocol
 Function: The WEE is a new control block which is used to keep track
 of storage allocated for WEBS.

IHAWEE mapping

Table 678. Structure WEE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	WEE	
0	(0)	CHARACTER	4	WEEWEE	Acronym in EBCDIC- "WEE ".
4	(4)	SIGNED	4	WEECOUNT	Number of WEBS in the Extent.
8	(8)	ADDRESS	4	WEENEXT	Address of the next WEE on the WEB Extent Element Queue.
12	(C)	ADDRESS	4	WEEPREV	Address of the previous WEE on the WEB Extent Element Queue.
16	(10)	SIGNED	2	WEEWEBSIZE	The size of WEBS in this WEE
18	(12)	BITSTRING	110	WEER012	Reserved.
128	(80)	DBL WORD	8	WEEEND(0)	- End of WEE. Is at least 128 bytes 128 bytes long
128	(80)	DBL WORD	8	WEEWEBS(0)	The WEBS in this Extent.
128	(80)	DBL WORD	8	WEEWUQHWEBS(0)	The WEBS in this extent, if it is for a WUQ

Table 679. Cross Reference for IHAWEE

Name	Offset	Hex Tag
WEE	0	
WEECOUNT	4	
WEEEND	80	

IHAWEE mapping

Table 679. Cross Reference for IHAWEE (continued)

Name	Offset	Hex Tag
WEENEXT	8	
WEEPREV	C	
WEER012	12	
WEEWEBS	80	
WEEWEBSIZE	10	
WEEWEE	0	
WEEWUQHWEBS	80	

Chapter 171. IHAWUQ Information

IHAWUQ Heading Information

Common Name: Work Unit Queue Header
 Macro ID: IHAWUQ
 DSECT Name: WUQ
 Owning Component: Supervisor Control (SC1C5)
 Eye-Catcher ID: WEB
 Offset: 0
 Length: 4
 Storage Attributes: Subpool: 245
 Key: 0
 Residency: Above 16M line
 Size: WUQ -- X'0200' bytes
 Created by: IEAVWPM
 Pointed to by: AWUQ_WUQ_Address field of the AWUQ data area
 LCCAWUQM field of the LCCA data area
 PWVTPWUQ field of the PWVT data area
 SVTSWUQ field of the SVT data area
 SVTASWUQ field of the SVT data area
 WEBWUQP
 Serialization: Dependent on the specific field
 Function: Each work queue is represented by a WUQ WEB. The WUQ is used to locate work to be dispatched and to contain statistics unique to the work queue.

IHAWUQ mapping

Table 680. Structure WUQ

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	512	WUQ	
0	(0)	CHARACTER	16	WUQHEADER_DATA	
0	(0)	CHARACTER	4	WUQWEB	Acronym in EBCDIC- "WEB ". */
4	(4)	CHARACTER	4	WUQTYPEWORD	WEB type word. Serialization: Locking the WUQ.
4	(4)	CHARACTER	2	WUQFLAG1	WUQ Flag bytes. Not used.
6	(6)	CHARACTER	1	WUQFLAG2	WUQ Flag bytes.
6	(6)	BITSTRING	1	WUQFLAG2RSVD	Reserved bits, checked by IEAVECBV
7	(7)	UNSIGNED	1	WUQTYPE	Work unit queue type. Never changed once a WUQ is created
8	(8)	CHARACTER	8	WUQLOCKDWORD	WUQ Lock Doubleword.
8	(8)	CHARACTER	4	WUQLOCK	Serialization: WUQ protocol. WUQ Lockword. Serialization: Compare and Swap.
8	(8)	BITSTRING	2	WUQLOCKWORD_FLAGS	First two bytes of WUQ Lockword. Serialization: Compare and Swap. NOTE: All nonused bits must be zero.

IHAWUQ mapping

Table 680. Structure WUQ (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1... ..		WUQ_INACTIVE	Indicates whether or not this WUQ is active. When 1, this WUQ is not in use and new work may not be queued to it.
10	(A)	BITSTRING	2	WUQLOCK_CPUID	Serialization: Compare and Swap. Logical CPU ID of the processor which has locked this WUQ. When lock is not held, this halfword is zero. Serialization: Compare and Swap.
12	(C)	ADDRESS	4	WUQWUQP	WUQ pointer. Serialization: WUQ protocol.
16	(10)	SIGNED	4	WUQOFFQ WUQCPRTY	WUQ is not queued Workunit priority. Serialization: locking the WUQ and ensuring it is not on a WUQ. It is F(31) so that a PL/X compare will be signed and show the header priority as negative.
20	(14)	ADDRESS	4	WUQCHDR WUQAWUQ	WUQ Header priority (-1). AWUQ entry address if WUQLOGICAL_CPUID is 0. Serialization: only set during WEB initialization.
24	(18)	CHARACTER	488	WUQDATA	Area cleared when the WUQ is allocated
24	(18)	SIGNED	2	WUQAWUQ_INDEX	Index into the AWUQ if WUQLOGICAL_CPUID is 0. Serialization: Only set during initialization.
26	(1A)	UNSIGNED	2	WUQLOGICAL_CPUID	Logical CPU id of CPU for which this WEB is the WUQ PWUQ header. Serialization: Only set during initialization.
28	(1C)	SIGNED	2	WUQHELP_LIMIT	WUQ queue depth limit. When the number of queued WEBs is greater than this value multiplied by the number of non-waiting CPUs in the WUQ node help will be requested. Serialization: SRM lock.
30	(1E)	UNSIGNED	2	WUQLAST_SIGP	Last CPU in the WUQ node that was signalled out of a wait. Serialization: None.
32	(20)	CHARACTER	4	WUQR020	Reserved, was WUQWP_SIGP_COUNT
36	(24)	CHARACTER	4	WUQR024	Reserved, WUQCPU_Count moved into WUQCPU_Mask_IsA
40	(28)	CHARACTER	8	WUQR028	Reserved
48	(30)	UNSIGNED	4	WUQWTSS	Short wait time for this WUQ. Serialization: SRM lock.
52	(34)	UNSIGNED	4	WUQCPU_ACTIVE_TIME	Last time a processor entered wait or was signalled awake.

Table 680. Structure WUQ (continued)

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
56	(38)	UNSIGNED	8	WUQFOREIGN_CPU_TIME(4)	CPU time by priority bucket for work executed on processor not assigned to this WUQ.
88	(58)	UNSIGNED	2	WUQHELP_FLAGS	Serialization: Compare and swap. Need help flags Ownership: Supervisor Serialization: None
88	(58)	BITSTRING	1	WUQHELP_FLAG1	first set of flags
		1... ..		WUQHELP_NEEDED	This WUQ needs help
89	(59)	BITSTRING	1	WUQHELP_FLAG2	second set of flags
90	(5A)	UNSIGNED	1	WUQ_BOOK_CROSSING_INDEX	The index into the help node array for this affinity node, when book crossing occurred. What this means is that every helper nodes before this index belong to the same book. Every helper nodes including and after this index are in a different book from the current affinity node. The valid values for this field are 0 to 64. The value 0 indicates that there is no book crossing, i.e. all helper nodes are in the same book.
91	(5B)	UNSIGNED	1	WUQ_NEEDHELP_PRIORITY_LEVEL	The priority level at which this node is overloaded with cumulative work. Another meaning of this field is the priority level at which this node should be helped. The priority levels are listed in the AWUQ
92	(5C)	UNSIGNED	1	WUQCLASSPRIORITY	WUQ class priority SWUQ has the highest priority SSWUQ has the next highest priority. ASWUQ has the lowest priority. Refer to equates beginning WUQClassPriority_
93	(5D)	UNSIGNED	1	WUQR05D	Reserved. Was WUQ_NeedHelp_Dispatch_Priority
94	(5E)	UNSIGNED	2	WUQPROCCLASS	Indicates the class of processor of this WUQ. It corresponds to an offset into the WUQ array. Possible values are defined by equates in IHAPSA beginning with PsaProcClass_
94	(5E)	UNSIGNED	2	WUQ_BYLPAR_PROCCLASS	
94	(5E)	UNSIGNED	1	WUQPROCCLASS_BYTE0	
94	(5E)	UNSIGNED	1	WUQ_BYLPAR_PROCCLASS_BYTE0	
95	(5F)	UNSIGNED	1	WUQPROCCLASS_BYTE1	
95	(5F)	UNSIGNED	1	WUQ_BYLPAR_PROCCLASS_BYTE1	

IHAWUQ mapping

Table 680. Structure WUQ (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
96	(60)	ADDRESS	4	WUQSPECIFIC_HELP_LIST	Address of list of affinity nodes that this affinity node may request specific help from. Disablement is required when referencing the list. AWUQ_Help_Nodes defines the format of this list.
100	(64)	ADDRESS	4	WUQGENERIC_HELP_LIST	Address of list of affinity nodes that this affinity node may request specific help from. Disablement is required when referencing the list. AWUQ_Help_Nodes defines the format of this list.
104	(68)	CHARACTER	8	WUQR068	Reserved
112	(70)	UNSIGNED	4	WUQLAST_RECALC_TIME	Last time recalc was done for this node This field contains the TOD time when last need help recalculation was done. Because the recalculation is done many times within a second, this field only needs to be 4 bytes long. The purpose of this field is to prevent multiple CPUs wasting cycles doing recalculation at the same time. However, this does not mean the code is serialized by this field, because hipervisor CPU preemption could cause multiple CPUs to be in the recalculation logic at the same time. Ownership: Supervisor Serialization: Compare and Swap
116	(74)	UNSIGNED	1	WUQRESET_NEEDHELP_COUNTDOWN	This value determines how soon job step timing will reset the need help state. This value is how many times the WUQ does not need help, before the need help state is reset. When this value reaches 0, the need help state is reset.
117	(75)	CHARACTER	11	WUQR075	Reserved
128	(80)	CHARACTER	76	WUQ_MASK	To protect from CPUDMaxNumCPUs growing too large without noticing, should never be referenced
128	(80)	BITSTRING	64	WUQCPU_MASK	Mask of online CPUs assigned to this WUQ Serialization: Dispatcher Lock
128	(80)	STRUCTURE IsA(CPUDMASKWITHATTRIBUTES)	76	WUQCPU_MASK_ISA	Mask of online CPUs assigned to this WUQ, with extra attributes Serialization: Dispatcher Lock

Table 680. Structure WUQ (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
128	(80)	BITSTRING	64	CPUD_MWA_BMASK	The mask defined as a bit. The mask must be defined first, as most parts only care about the mask
128	(80)	CHARACTER	64	CPUD_MWA_CMASK	The mask defined as a char
192	(C0)	CHARACTER	12	CPUD_MWA_ATTRIBUTES	
192	(C0)	CHARACTER	2	CPUD_MWA_FLAGS	
		1...		CPUD_MWA_SCATTERED	When on, CPUD_MWA_BMask has CPUs scattered across multiple 8 byte blocks of the mask. This is an indicator for when the entire mask must be checked. When off, the CPUs are contained within a single CPU block pointed to by BlockOffset
194	(C2)	UNSIGNED	2	CPUD_MWA_BLOCKOFFSETFIRST	When Scattered is off, CPUD_MWA_BlockOffsetFirst equals CPUD_MWA_BlockOffsetLast and all CPUs are within that 64-bit CPU block. If scattered is on, CPUD_MWA_BlockOffsetFirst has the first CPU block offset with a bit on in CPUD_MWA_BMask and CPUD_MWA_BlockOffsetLast contains the last CPU block offset with a bit on in CPUD_MWA_BMask. When scattered is on, all CPUs in CPUD_MWA_BMask are between offset CPUD_MWA_BlockOffsetFirst and CPUD_MWA_BlockOffsetLast inclusive.
196	(C4)	UNSIGNED	2	CPUD_MWA_BLOCKOFFSETLAST	The last 64-bit block with a bit on in CPUD_MWA_BMask. See comments in CPUD_MWA_BlockOffsetFirst regarding the contents of this field when scattered is on and when scattered is off.
198	(C6)	UNSIGNED	2	CPUD_MWA_COUNT	The number of bits that are on in CPUD_MWA_BMask
200	(C8)	CHARACTER	4	*	Reserved
204	(CC)	CHARACTER	52	WUQR0CC	Reserved
256	(100)	UNSIGNED	1	WUQ_RQM_WEBCMajor_DP_SEQNUM(176:255)	

IHAWUQ mapping

Table 680. Structure WUQ (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
336	(150)	UNSIGNED		4	WUQ_RQM_WEBS_REWUQADDED_SDP(8)	<p>When RQM is active, this is WEBCMAJOR dispatch priority sequence number for this affinity node. There is a 1-byte sequence number for every possible WEBCMAJOR DP that could be RQMed (1 per dispatch priority). All WEBS that get added use their WEBCMAJOR dispatch priority to extract the appropriate sequence number from the WUQ_RQM_WEBCMAJOR_DP_SeqNum and plug it into WEB_RQM_WEBCMAJOR_DP_SeqNum. This sequence number is used to create a logical group of RQM affected WEBS on a per WEBCMAJOR dispatch priority that have an equal priority non-RQM dispatch priority (see WEBCPRTY_Mask_nonRQM_DPs_FW). This logical group of WEBS is in priority order. If RQM activities result in some work near the end of the queue getting delayed for too long, the RQM sequence number for the appropriate WEBCMAJOR dispatch priority will be incremented to start a new equal priority non-RQM dispatch group for this WEBCMAJOR dispatch priority. At that point, the system will stop adding WEBS into the old priority group (the ones that had the old priority group will be deleted, dispatched, and pick up the new sequence number on their next WUQ-added) and start to add new WEBS at the appropriate point in the new priority group. If the new priority group isn't found, it gets added at the end of the equal priority non_RQM dispatch priority.</p> <p>Number of RQMed WEBS that were already subdivided and reWUQadded at the same subdivided dispatch priority. Serialization: CS</p>
368	(170)	UNSIGNED		4	WUQ_SUBDIVIDED_ENCLAVES_RQM	

Table 680. Structure WUQ (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
372	(174)	UNSIGNED	4	WUQ_NONRQM_WEBS_WDI_OUTOFORDER	Number of enclaves that were subdivided for Ready QueueManagement (RQM) Serialization: CS
376	(178)	UNSIGNED	4	WUQ_RQM_WEBS_WDI_OUTOFORDER	Number of WEBS IEAVEWDI found that were out of order due to their non-RQM dispatch priority.
380	(17C)	UNSIGNED	4	WUQ_RESUBDIVIDED_ENCLAVES_RQM	Number of WEBS IEAVEWDI found that were out of order due to their RQM dispatch priority.
384	(180)	CHARACTER	16	WUQRELUCTANTSEEKCOUNTS	Number of enclaves that were resubdivided for Ready Queue Management (RQM) that had already been subdivided. WUQ_Subdivided_Enclaves_RQM - WUQ_ReSubdivided_Enclaves_RQM is the number of new enclaves subdivided.
384	(180)	SIGNED	2	WUQRELUCTANTSEEKVL	Counters that represent the number of times a HiperDispatch algorithm sought to run work on an undesirable CPU since the last time this WUQ's state changed (e.g. a CPU assigned to this WUQ exits a wait, enters a wait, or requests help). Each time help is sought, the appropriate count is incremented by 1. When the result is less than or equal to Wuq_kReluctantSeekThreshold the reluctant algorithm NOPs the request. All counters are reset to 0 whenever this WUQ's state changes. Serialization: None (WUQs are never freed and the code tolerates missing counter updates).
386	(182)	SIGNED	2	WUQRELUCTANTSEEKSAMENODE	The number of times HiperDispatch sought help from a Vertical Low since the last WUQ state change.
388	(184)	SIGNED	2	WUQRELUCTANTSEEKSAMEDRAWER	The number of times HiperDispatch sought help from a same node helper since the last WUQ state change.
390	(186)	SIGNED	2	WUQRELUCTANTSEEKDIFFDRAWER	The number of times HiperDispatch sought help from a same drawer helper since the last WUQ state change.

IHAWUQ mapping

Table 680. Structure WUQ (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
392	(188)	SIGNED	2	WUQRELUCTANTSEEKPEGGED	The number of times HiperDispatch sought help from a different drawer helper since the last WUQ state change.
394	(18A)	CHARACTER	6	WUQR18A	The number of times HiperDispatch sought help for being pegged since the last WUQ state change.
400	(190)	CHARACTER	112	WUQR190	Reserved
512	(200)	CHARACTER	0	WUQEND	End of WUQ.

Table 681. Constants for IHAWUQ

Len	Type	Value	Name	Description
4	DECIMAL	1	WUQ_KRELUCTANTSEEKTHRESHOLD	Constant for WUQAllow_Diff_Book_Countdown field. A constant of 4 has been chosen based on IMS performance runs.
1	DECIMAL	4	WUQALLOW_DIFF_BOOK_HELP_COUNTDOWN_VALUE	Enclave SRB RQM constants.
4	DECIMAL	8	WUQ_NUM_DPS_FOR_RQM	How many dispatch priorities RQM should be done across. RQM will use priorities 1 through WUQ_Num_DPs_For_RQM. The algorithm depends on this constant being a 2 ⁿ value.
4	DECIMAL	7	WUQ_DPS_FOR_RQM_MASK	This mask is used to determine the RQM dispatch priority to use. This mask is ANDed with WUQ_Subdivided_Enclaves_RQM and 1 added to the result to get a RQM minor priority of 1 through WUQ_Num_DPs_For_RQM.
1	NUMB HEX	FF	WEBCMAJOR_HIGHEST_DP	The highest dispatch priority WLM can award is X'FF'.
1	NUMB HEX	B0	WEBCMAJOR_LOWEST_DP	The lowest dispatch priority WLM can award is X'BF', we're going to round down to support a WEBCMAJOR down to x'B0' so it is easier to work with when debugging.
Constants for WUQClassPriority field. The lower the value, the higher the priority.				
1	DECIMAL	128	WUQCLASSPRIORITY_CP	WUQ priority for CP
1	DECIMAL	124	WUQCLASSPRIORITY_SUP	WUQ priority for SUP
1	DECIMAL	120	WUQCLASSPRIORITY_ZAAP	WUQ priority for zAAP
4	DECIMAL	1	ECPX_PARKCORE	Park logical core id
4	DECIMAL	2	ECPX_UNPARKCORE	Unpark logical core id
4	DECIMAL	3	ECPX_REMOVECPUFROMNODE	Remove logical CPU id from affinity node

Table 681. Constants for IHAWUQ (continued)

Len	Type	Value	Name	Description
4	DECIMAL	4	ECPX_PARKCPUBLOCKSNOTINVT	Park a CPU whose CPU control block are not anchored in the Vector Tables
4	DECIMAL	5	ECPX_PARKCPU_GOING_OFFLINE	
4	DECIMAL	6	ECPX_UNPARKCPU_STAYING_ONLINE	
4	DECIMAL	6	ECPX_MAX_FUNCTION_CODE	
4	DECIMAL	0	ECPX_REQUESTCOMPLETE	
4	DECIMAL	4	ECPX_PARKPENDING	
4	DECIMAL	8	ECPX_ALREADYPARKED	
4	DECIMAL	12	ECPX_INVALIDREQUEST	
4	DECIMAL	16	ECPX_PROCESSINGERROR	

Table 682. Cross Reference for IHAWUQ

Name	Offset	Hex Tag
CPUD_MWA_ATTRIBUTES	C0	
CPUD_MWA_BLOCKOFFSETFIRST	C2	
CPUD_MWA_BLOCKOFFSETLAST	C4	
CPUD_MWA_BMASK	80	
CPUD_MWA_CMASK	80	
CPUD_MWA_COUNT	C6	
CPUD_MWA_FLAGS	C0	
CPUD_MWA_SCATTERED	C0	80
WUQ	0	
WUQ_BOOK_CROSSING_INDEX	5A	
WUQ_BYLPAR_PROCCLASS	5E	
WUQ_BYLPAR_PROCCLASS_BYTE0	5E	
WUQ_BYLPAR_PROCCLASS_BYTE1	5F	
WUQ_INACTIVE	8	80
WUQ_MASK	80	
WUQ_NEEDHELP_PRIORITY_LEVEL	5B	
WUQ_NONRQM_WEBS_WDI_OUTOFORDER	174	
WUQ_RESUBDIVIDED_ENCLAVES_RQM	17C	
WUQ_RQM_WEBCMajor_DP_SEQNUM	100	
WUQ_RQM_WEBS_REWUQADDED_SDP	150	
WUQ_RQM_WEBS_WDI_OUTOFORDER	178	
WUQ_SUBDIVIDED_ENCLAVES_RQM	170	
WUQAWUQ	14	
WUQAWUQ_INDEX	18	
WUQCHDR	10	80
WUQCLASSPRIORITY	5C	
WUQCPRTY	10	
WUQCPU_ACTIVE_TIME	34	
WUQCPU_MASK	80	
WUQCPU_MASK_ISA	80	
WUQDATA	18	
WUQEND	200	
WUQFLAG1	4	
WUQFLAG2	6	
WUQFLAG2RSVD	6	

IHAWUQ mapping

Table 682. Cross Reference for IHAWUQ (continued)

Name	Offset	Hex Tag
WUQFOREIGN_CPU_TIME	38	
WUQGENERIC_HELP_LIST	64	
WUQHEADER_DATA	0	
WUQHELP_FLAGS	58	
WUQHELP_FLAG1	58	
WUQHELP_FLAG2	59	
WUQHELP_LIMIT	1C	
WUQHELP_NEEDED	58	80
WUQLAST_RECALC_TIME	70	
WUQLAST_SIGP	1E	
WUQLOCK	8	
WUQLOCK_CPUID	A	
WUQLOCKDWORD	8	
WUQLOCKWORD_FLAGS	8	
WUQLOGICAL_CPUID	1A	
WUQOFFQ	C	80
WUQPROCCLASS	5E	
WUQPROCCLASS_BYTE0	5E	
WUQPROCCLASS_BYTE1	5F	
WUQRELUCTANTSEEKCOUNTS	180	
WUQRELUCTANTSEEKDIFFDRAWER	186	
WUQRELUCTANTSEEKPEGGED	188	
WUQRELUCTANTSEEKSAMEDRAWER	184	
WUQRELUCTANTSEEKSAMENODE	182	
WUQRELUCTANTSEEKVL	180	
WUQRESET_NEEDHELP_COUNTDOWN	74	
WUQR0CC	CC	
WUQR020	20	
WUQR024	24	
WUQR028	28	
WUQR05D	5D	
WUQR068	68	
WUQR075	75	
WUQR18A	18A	
WUQR190	190	
WUQSPECIFIC_HELP_LIST	60	
WUQTYPE	7	
WUQTYPEWORD	4	
WUQWEB	0	
WUQWTSS	30	
WUQUWQP	C	

Chapter 172. IHAXCVT Information

IHAXCVT Programming Interface Information

IHAXCVT is a programming interface.

IHAXCVT Heading Information

Common Name: eXtended CVT (potentially above 2G)
Macro ID: IHAXCVT
DSECT Name: XCVT
Owning Component: Supervisor Control (SC1C5)
Eye-Catcher ID: XCVT
Offset: 0
Length: 4
Storage Attributes: Subpool: nucleus
Key: 0
Residency: Above 2G, if supported
Size: XCVT -- X'0038' bytes
Created by: IEAVXCVT
Pointed to by: PSAXCVT
Serialization: Dependent on the specific field
Function: The XCVT is a logical extension of the CVT.
It must be accessed only in AMODE 64

IHAXCVT mapping

Table 683. Structure XCVT

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	XCVT	
0	(0)	CHARACTER	4	XCVTXCVT	Acronym in EBCDIC- "XCVT"
4	(4)	CHARACTER	4	XCVTR004	Reserved
8	(8)	ADDRESS	8	XCVT_IARCP64_GET_ADDR	
16	(10)	ADDRESS	8	XCVT_IARCP64_FREE_ADDR	
24	(18)	ADDRESS	8	XCVT_IARST64_GET_ADDR	
32	(20)	ADDRESS	8	XCVT_IARST64_FREE_ADDR	
40	(28)	CHARACTER	8	XCVTR028	
48	(30)	CHARACTER	8	XCVTR030	
48	(30)	X'38'	0	XCVT_LEN	"*-XCVT"

Table 684. Cross Reference for IHAXCVT

Name	Offset	Hex Tag
XCVT	0	
XCVT_IARCP64_FREE_ADDR	10	
XCVT_IARCP64_GET_ADDR	8	
XCVT_IARST64_FREE_ADDR	20	
XCVT_IARST64_GET_ADDR	18	
XCVT_LEN	30	38

IHAXCVT mapping

Table 684. Cross Reference for IHAXCVT (continued)

Name	Offset	Hex Tag
XCVTR004	4	
XCVTR028	28	
XCVTR030	30	
XCVTXCVT	0	

Chapter 173. IHAXSBO Information

IHAXSBO Heading Information

Common Name: EXTENDED STATUS BLOCK OLD -- PRE Z/OS R6
 Macro ID: IHAXSBO
 DSECT Name: XSBO
 Owning Component: SUPERVISOR CONTROL (SC1C5)
 Eye-Catcher ID: XSB
 Offset: 0
 Length: 4
 Storage Attributes: Subpool: 255 (ELSQA) OR 238 (COMMON)
 Key: 0
 Residency: ABOVE 16 MB LINE
 Size: 128 BYTES
 Created by: IEAVEXPM
 IEAVESVC
 IEAVEMIN
 IEAMSWCB
 IEAVESPM
 Pointed to by: IHSXSB FOR XSBO OF IHSA
 SSRBXSB FOR XSBO OF SSRB
 RBXSB FOR XSBO OF IRB,PRB,SIRB,SVRB
 TCBXSB CURRENT XSBO OF TASK
 Serialization: XSBO OF IHSA - LOCAL LOCK
 XSBO OF SSRB - N/A
 XSBO OF IRB,PRB,SIRB,SVRB - TCBACTIV
 Function: CONTAINS ADDITIONAL INFORMATION REQUIRED FOR DISPATCH OR
 REDISPATCH OF WORK UNIT.

IHAXSBO mapping

Table 685. Structure XSBO

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	200	XSBO	EXTENDED STATUS BLOCK
0	(0)	CHARACTER	0	XSBOBEGIN	BEGINNING OF XSBO.
0	(0)	CHARACTER	4	XSBOXSBO	XSBO ACRONYM = 'XSB'
4	(4)	ADDRESS	4	XSBO LINK	LINK TO NEXT AVAILABLE XSBO IN POOL. SET BY EXIT, IEAVEOR, WHEN PUTTING XSBO IN POOL. CLEARED BY STAGE 3, IEAVEEEE0, WHEN ASSIGNING XSBO TO AN IRB.
4	(4)	BITSTRING	4	XSBOFLGS	XSBO FLAGS.
8	(8)	CHARACTER	8	XSBOXMCRS	XM CONTROL REGS
8	(8)	UNSIGNED	4	XSBOXMCR3	CONTROL REG 3.
8	(8)	UNSIGNED	2	XSBOXM	KEY MASK.
10	(A)	UNSIGNED	2	XSBOXASID	SECONDARY ASID.
12	(C)	UNSIGNED	4	XSBOXMCR4	CONTROL REG 4.
12	(C)	UNSIGNED	2	XSBOXAX	AUTHORIZATION INDEX.
14	(E)	UNSIGNED	2	XSBOXPASID	PRIMARY ASID.
16	(10)	CHARACTER	8	XSBOCMLE	CML LOCK STATUS ELEMENT.

IHAXSBO mapping

Table 685. Structure XSBO (continued)

Offset	Offset					
Dec	Hex	Type	Len	Name(Dim)	Description	
16	(10)	ADDRESS	4	XSBOXLIDR	DATA FOR IDENTIFICATION OF CML REQUESTOR. ASID ASSOCIATED WITH SRB MODE CML LOCK REQUESTOR (IN XSBO OF SSRB).	
20	(14)	ADDRESS	4	XSBOXLAS	ASCB ADDRESS OF CML LOCK REQUESTED/OWNED.	
24	(18)	CHARACTER	8	XSBOSTKE	CURRENT PCLINK STACK INFORMATION	
24	(18)	UNSIGNED	2	XSBOTKN	CURRENT STACK TOKEN.	
26	(1A)	UNSIGNED	2	XSBOASD	CURRENT STACK ADDRESS SPACE DESIGNATOR.	
28	(1C)	ADDRESS	4	XSBOSEL	CURRENT STACK ELEMENT ADDRESS.	
32	(20)	UNSIGNED	4	XSBOSRSN	SUSPEND/RESUME SEQUENCE # OWNERSHIP: SUPERVISOR CONTROL SERIALIZATION: TCBACTIV AND DISABLEMENT	
36	(24)	UNSIGNED	4	XSBOEAXW	EAX VALUE WORD.	
36	(24)	UNSIGNED	2	XSBOEAX	EAX VALUE.	
38	(26)	UNSIGNED	2	*	LOWER HALF OF FULLWORD USED TO HOLD EAX VALUE - PROVIDED SO THAT STCTL CAN BE USED TO STORE CONTROL REGISTER 8 INTO XSBOEAXW. THE CONTENTS OF THIS HALFWORD ARE UNPREDICTABLE.	
40	(28)	ADDRESS	4	XSBOALOV	DISPATCHABLE UNIT ACCESS LIST VIRTUAL ADDRESS.	
44	(2C)	ADDRESS	4	XSBOALD	DISPATCHABLE UNIT ACCESS LIST REAL ADDRESS.	
48	(30)	CHARACTER	64	XSBOARS	ACCESS REGISTER SAVEAREA.	
48	(30)	UNSIGNED	4	XSBOAR0	ACCESS REGISTER 0.	
52	(34)	UNSIGNED	4	XSBOAR1	ACCESS REGISTER 1.	
56	(38)	UNSIGNED	4	XSBOAR2	ACCESS REGISTER 2.	
60	(3C)	UNSIGNED	4	XSBOAR3	ACCESS REGISTER 3.	
64	(40)	UNSIGNED	4	XSBOAR4	ACCESS REGISTER 4.	
68	(44)	UNSIGNED	4	XSBOAR5	ACCESS REGISTER 5.	
72	(48)	UNSIGNED	4	XSBOAR6	ACCESS REGISTER 6.	
76	(4C)	UNSIGNED	4	XSBOAR7	ACCESS REGISTER 7.	
80	(50)	UNSIGNED	4	XSBOAR8	ACCESS REGISTER 8.	
84	(54)	UNSIGNED	4	XSBOAR9	ACCESS REGISTER 9.	
88	(58)	UNSIGNED	4	XSBOARA	ACCESS REGISTER 10.	
92	(5C)	UNSIGNED	4	XSBOARB	ACCESS REGISTER 11.	
96	(60)	UNSIGNED	4	XSBOARC	ACCESS REGISTER 12.	
100	(64)	UNSIGNED	4	XSBOARD	ACCESS REGISTER 13.	
104	(68)	UNSIGNED	4	XSBOARE	ACCESS REGISTER 14.	
108	(6C)	UNSIGNED	4	XSBOARF	ACCESS REGISTER 15.	
112	(70)	BITSTRING	1	XSBOFLAG2	FLAG BYTE.	
		1... ..		XSBOLESUB	LINKAGE STACK UNSTACK SUPPRESSION BIT.	
		.1.. ..		XSBOLESRST	IF ONE, EXIT & EXIT PROLOG WILL NOT ENFORCE THE LINKAGE STACK CHECKPOINT, JUST RESTORE THE LINKAGE STACK. SET IN THE EXITING RB.	
		..1.		XSBOLESSEB	LINKAGE STACK EXTRACT/MODIFY SUPPRESSION BIT. '20'X	

Table 685. Structure XSBO (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
		...1	1111		*	RESERVED.
113	(71)	CHARACTER		3	XSBO071	RESERVED.
116	(74)	ADDRESS		4	XSBO0LSCP	LINKAGE STACK CHECKPOINT ADDRESS.
120	(78)	ADDRESS		4	XSBO0XSBO	POINTER TO THE XSBO.
124	(7C)	CHARACTER		4	XSBO07C	RESERVED.
128	(80)	CHARACTER		64	XSBO0G64H	64-BIT GPR HIGH HALVES
128	(80)	CHARACTER		4	XSBO0G64H0	64-BIT GPR 0 BITS 0-31
132	(84)	CHARACTER		4	XSBO0G64H1	64-BIT GPR 1 BITS 0-31
136	(88)	CHARACTER		4	XSBO0G64H2	64-BIT GPR 2 BITS 0-31
140	(8C)	CHARACTER		4	XSBO0G64H3	64-BIT GPR 3 BITS 0-31
144	(90)	CHARACTER		4	XSBO0G64H4	64-BIT GPR 4 BITS 0-31
148	(94)	CHARACTER		4	XSBO0G64H5	64-BIT GPR 5 BITS 0-31
152	(98)	CHARACTER		4	XSBO0G64H6	64-BIT GPR 6 BITS 0-31
156	(9C)	CHARACTER		4	XSBO0G64H7	64-BIT GPR 7 BITS 0-31
160	(A0)	CHARACTER		4	XSBO0G64H8	64-BIT GPR 8 BITS 0-31
164	(A4)	CHARACTER		4	XSBO0G64H9	64-BIT GPR 9 BITS 0-31
168	(A8)	CHARACTER		4	XSBO0G64HA	64-BIT GPR 10 BITS 0-31
172	(AC)	CHARACTER		4	XSBO0G64HB	64-BIT GPR 11 BITS 0-31
176	(B0)	CHARACTER		4	XSBO0G64HC	64-BIT GPR 12 BITS 0-31
180	(B4)	CHARACTER		4	XSBO0G64HD	64-BIT GPR 13 BITS 0-31
184	(B8)	CHARACTER		4	XSBO0G64HE	64-BIT GPR 14 BITS 0-31
188	(BC)	CHARACTER		4	XSBO0G64HF	64-BIT GPR 15 BITS 0-31
192	(C0)	CHARACTER		8	XSBO0RTNE	ESAME VIRTUAL ADDRESS CAUSING TRANSLATION EXCEPTION IF PROGRAM INTERRUPT X'10', X'11', X'39', X'3A'
200	(C8)	CHARACTER		0	XSBO0END	END OF XSBO.

Table 686. Constants for IHAXSBO

Len	Type	Value	Name	Description
2	DECIMAL	10	XSBO0PCNT	XSBO POOL COUNT.
2	DECIMAL	10	XSBO0XCNT	XSBO POOL EXTENT COUNT.

Table 687. Cross Reference for IHAXSBO

Name	Offset	Hex Tag
XSBO	0	
XSBO0ALD	2C	
XSBO0ALOV	28	
XSBO0ARA	58	
XSBO0ARB	5C	
XSBO0ARC	60	
XSBO0ARD	64	
XSBO0ARE	68	
XSBO0ARF	6C	
XSBO0ARS	30	
XSBO0AR0	30	
XSBO0AR1	34	
XSBO0AR2	38	

IHAXSBO mapping

Table 687. Cross Reference for IHAXSBO (continued)

Name	Offset	Hex Tag
XSB0AR3	3C	
XSB0AR4	40	
XSB0AR5	44	
XSB0AR6	48	
XSB0AR7	4C	
XSB0AR8	50	
XSB0AR9	54	
XSB0ASD	1A	
XSB0AX	C	
XSB0BEGIN	0	
XSB0CMLE	10	
XSB0EAX	24	
XSB0EAXW	24	
XSB0END	C8	
XSB0FLAG2	70	
XSB0FLGS	4	
XSB0G64H	80	
XSB0G64HA	A8	
XSB0G64HB	AC	
XSB0G64HC	B0	
XSB0G64HD	B4	
XSB0G64HE	B8	
XSB0G64HF	BC	
XSB0G64H0	80	
XSB0G64H1	84	
XSB0G64H2	88	
XSB0G64H3	8C	
XSB0G64H4	90	
XSB0G64H5	94	
XSB0G64H6	98	
XSB0G64H7	9C	
XSB0G64H8	A0	
XSB0G64H9	A4	
XSB0KM	8	
XSB0LINK	4	
XSB0LSCP	74	
XSB0LSESB	70	20
XSB0LSRST	70	40
XSB0LSUSB	70	80
XSB0PASID	E	
XSB0RTRNE	C0	
XSB0R07C	7C	
XSB0R071	71	
XSB0SASID	A	
XSB0SEL	1C	
XSB0SRSN	20	
XSB0STKE	18	
XSB0XSBO	78	
XSB0TKN	18	

Table 687. Cross Reference for IHAXSBO (continued)

Name	Offset	Hex Tag
XSBOXLAS	14	
XSBOXLIDR	10	
XSBOXMCRS	8	
XSBOXMCR3	8	
XSBOXMCR4	C	
XSBOXSBO	0	

IHAXSBO mapping

Chapter 174. IHLMGTRC Information

IHLMGTRC Programming Interface Information

IHLMGTRC is a programming interface.

IHLMGTRC Heading Information

Common Name: GTF Event Identifier Constants
Macro ID: IHLMGTRC
DSECT Name: None
Owning Component: Generalized Trace Facility (SC111)
Eye-Catcher ID: None
Storage Attributes: Subpool: N/A
Key: N/A
Size: N/A
FREQUENCY: N/A
Created by: N/A
INITIALIZED BY: N/A
Pointed to by: N/A
Serialization: None
Function: Map event values associated with IBM system and subsystem events. The macro is designed to be used by IBM-supplied format appendages and user-supplied exit modules. This mapping provides documentation of the IDs assigned to IBM system and subsystem events.

IHLMGTRC mapping

Table 688. Structure

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

IHLMGTRC mapping

Table 688. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
Start of Specifications for IHLMGTRC \$MAC(IHLMGTRC) COMP(SC111) PROD(HBB7703): PROPRIETARY STATEMENT= LICENSED MATERIALS - PROPERTY OF IBM THIS MACRO IS "RESTRICTED MATERIALS OF IBM" 5647-A01 (C) COPYRIGHT IBM CORP. 1988, 2006 STATUS= HBB7730 MACRO NAME: IHLMGTRC DESCRIPTIVE NAME: GTF Event Identifier Constants COMPONENT: Generalized Trace Facility (SC111) EXTERNAL CLASSIFICATION: PI END OF EXTERNAL CLASSIFICATION: FUNCTION: Map event values associated with IBM system and subsystem events. The macro is designed to be used by IBM-supplied format appendages and user-supplied exit modules. This mapping provides documentation of the IDs assigned to IBM system and subsystem events. METHOD OF ACCESS: ASM: IHLMGTRC DSECT NAME: None EYE CATCHER: None OFFSET: N/A LENGTH: N/A CREATED BY: N/A INITIALIZED BY: N/A DELETED BY: N/A POINTED TO BY: N/A SERIALIZATION: None STORAGE ATTRIBUTES: SUBPOOL : N/A KEY : N/A SIZE : N/A FREQUENCY: N/A LOCATION : N/A ATTRIBUTES: N/A DISTRIBUTION LIBRARY: AMACLIB ===== Change activity: \$P1= PH31787 HBB4420 901126 PD881V: ADD EVENT IDENTIFIERS. = PWK0273 HBB6608 981001 PDND: ADD EVENT IDS RE: JBB6616 \$P2= PXD0176 HBB7703 981001 PDE1: ADD EVENT IDS for LANRES Also add event ID for NetSpool = PXD0276 HBB7703 990802 PDE1: Fix syntax errors \$L1= RAS HBB7708 030315 PDE1: Add event ID for NFS \$P3= ME04184 HBB7730 050812 PDE1: Add event ID for job management End of Specifications for IHLMGTRC SYMBOLIC ID TABLE FOR THE GTRACE MACRO					
0	(0)	BITSTRING	0	IHLMDMA1	"X'FFF'" 4095
0	(0)	BITSTRING	0	IGGSP169	"X'FFE'" 4094 Y02014
0	(0)	BITSTRING	0	IGGSP451	"X'FFD'" 4093 Y02014
0	(0)	BITSTRING	0	IGGSP251	"X'FFC'" 4092 Y02014
0	(0)	BITSTRING	0	IGGSP145	"X'FFB'" 4091 Y02014
0	(0)	BITSTRING	0	IGGSP239	"X'FFA'" 4090 Y02014
0	(0)	BITSTRING	0	IGGSP235	"X'FF9'" 4089 Y02014
0	(0)	BITSTRING	0	IGGSP119	"X'FF8'" 4088 Y02014
0	(0)	BITSTRING	0	IGGSP215	"X'FF7'" 4087 Y02014

Table 688. Structure (continued)

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
0	(0)	BITSTRING	0	IGGSP112	"X'FF6'" 4086 Y02014
0	(0)	BITSTRING	0	IDAAM01	"X'FF5'" 4085
0	(0)	BITSTRING	0	IGGSP008	"X'FF4'" 4084 Y02014
0	(0)	BITSTRING	0	IGGSP002	"X'FF3'" 4083 Y02014
0	(0)	BITSTRING	0	ISTLNEID	"X'FF2'" 4082
0	(0)	BITSTRING	0	ISTCLEID	"X'FF1'" 4081
0	(0)	BITSTRING	0	ISTRPEID	"X'FF0'" 4080
0	(0)	BITSTRING	0	ISTTPEID	"X'FEF'" 4079
0	(0)	BITSTRING	0	ISTVIEID	"X'FE1'" 4065 VTAM INTERNAL TRACE
0	(0)	BITSTRING	0	ISTTHEID	"X'FE2'" 4066 VTAM INTERNAL TRACE
0	(0)	BITSTRING	0	ISTTREID	"X'FE3'" 4067 VTAM INTERNAL TRACE
0	(0)	BITSTRING	0	ISTTDEID	"X'FE4'" 4068 VTAM INTERNAL TRACE
0	(0)	BITSTRING	0	IMDGPD50	"X'FE0'" 4064
0	(0)	BITSTRING	0	IMDGPD49	"X'FDF'" 4063
0	(0)	BITSTRING	0	IMDGPD48	"X'FDE'" 4062
0	(0)	BITSTRING	0	IMDGPD47	"X'FDD'" 4061
0	(0)	BITSTRING	0	IMDGPD46	"X'FDC'" 4060
0	(0)	BITSTRING	0	IMDGPD45	"X'FDB'" 4059
0	(0)	BITSTRING	0	IMDGPD44	"X'FDA'" 4058
0	(0)	BITSTRING	0	IMDGPD43	"X'FD9'" 4057
0	(0)	BITSTRING	0	IMDGPD42	"X'FD8'" 4056
0	(0)	BITSTRING	0	IMDGPD41	"X'FD7'" 4055
0	(0)	BITSTRING	0	IMDGPD40	"X'FD6'" 4054
0	(0)	BITSTRING	0	IMDGPD39	"X'FD5'" 4053
0	(0)	BITSTRING	0	IMDGPD38	"X'FD4'" 4052
0	(0)	BITSTRING	0	IMDGPD37	"X'FD3'" 4051
0	(0)	BITSTRING	0	IMDGPD36	"X'FD2'" 4050
0	(0)	BITSTRING	0	IMDGPD35	"X'FD1'" 4049
0	(0)	BITSTRING	0	IMDGPD34	"X'FD0'" 4048
0	(0)	BITSTRING	0	IMDGPD33	"X'FCF'" 4047
0	(0)	BITSTRING	0	IMDGPD32	"X'FCE'" 4046
0	(0)	BITSTRING	0	IMDGPD31	"X'FCD'" 4045
0	(0)	BITSTRING	0	IMDGPD30	"X'FCC'" 4044
0	(0)	BITSTRING	0	IMDGPD29	"X'FCB'" 4043
0	(0)	BITSTRING	0	IMDGPD28	"X'FCA'" 4042
0	(0)	BITSTRING	0	IMDGPD27	"X'FC9'" 4041
0	(0)	BITSTRING	0	IMDGPD26	"X'FC8'" 4040
0	(0)	BITSTRING	0	IMDGPD25	"X'FC7'" 4039
0	(0)	BITSTRING	0	IMDGPD24	"X'FC6'" 4038
0	(0)	BITSTRING	0	IMDGPD23	"X'FC5'" 4037
0	(0)	BITSTRING	0	IMDGPD22	"X'FC4'" 4036
0	(0)	BITSTRING	0	IMDGPD21	"X'FC3'" 4035
0	(0)	BITSTRING	0	IMDGPD20	"X'FC2'" 4034
0	(0)	BITSTRING	0	IMDGPD19	"X'FC1'" 4033
0	(0)	BITSTRING	0	IMDGPD18	"X'FC0'" 4032
0	(0)	BITSTRING	0	IMDGPD17	"X'FBF'" 4031
0	(0)	BITSTRING	0	IMDGPD16	"X'FBE'" 4030
0	(0)	BITSTRING	0	IMDGPD15	"X'FBD'" 4029

IHLMGTRC mapping

Table 688. Structure (continued)

Offset						
Dec	Hex	Type	Len	Name(Dim)	Description	
0	(0)	BITSTRING	0	IMDGPD14	"X'FBC'"	4028
0	(0)	BITSTRING	0	IMDGPD13	"X'FBB'"	4027
0	(0)	BITSTRING	0	IMDGPD12	"X'FBA'"	4026
0	(0)	BITSTRING	0	IMDGPD11	"X'FB9'"	4025
0	(0)	BITSTRING	0	IMDGPD10	"X'FB8'"	4024
0	(0)	BITSTRING	0	IMDGPD09	"X'FB7'"	4023
0	(0)	BITSTRING	0	IMDGPD08	"X'FB6'"	4022
0	(0)	BITSTRING	0	IMDGPD07	"X'FB5'"	4021
0	(0)	BITSTRING	0	IMDGPD06	"X'FB4'"	4020
0	(0)	BITSTRING	0	IMDGPD05	"X'FB3'"	4019
0	(0)	BITSTRING	0	IMDGPD04	"X'FB2'"	4018
0	(0)	BITSTRING	0	IMDGPD03	"X'FB1'"	4017
0	(0)	BITSTRING	0	IMDGPD02	"X'FB0'"	4016
0	(0)	BITSTRING	0	IMDGPD01	"X'FAF'"	4015
0	(0)	BITSTRING	0	IMDGPD00	"X'FAC'"	4012 NetSpool
0	(0)	BITSTRING	0	IMDNFS01	"X'FAB'"	4011 NFS
0	(0)	BITSTRING	0	IMDTCAM9	"X'FA9'"	4009 TCAM
0	(0)	BITSTRING	0	IMDTCAM8	"X'FA8'"	4008 TCAM
0	(0)	BITSTRING	0	IMDTCAM7	"X'FA7'"	4007 TCAM
0	(0)	BITSTRING	0	IMDTCAM6	"X'FA6'"	4006 TCAM
0	(0)	BITSTRING	0	IMDTCAM5	"X'FA5'"	4005 TCAM
0	(0)	BITSTRING	0	IMDTCAM4	"X'FA4'"	4004 TCAM
0	(0)	BITSTRING	0	IMDTCAM3	"X'FA3'"	4003 TCAM
0	(0)	BITSTRING	0	IMDTCAM2	"X'FA2'"	4002 TCAM
0	(0)	BITSTRING	0	IMDTCAM1	"X'FA1'"	4001 TCAM
0	(0)	BITSTRING	0	IMDTCAM0	"X'FA0'"	4000 TCAM
0	(0)	BITSTRING	0	IMDCICS	"X'F6C'"	3948 CICS
0	(0)	BITSTRING	0	IMDVSM	"X'F65'"	3941 VIRTUAL STORAGE MANAGER
0	(0)	BITSTRING	0	IMDDB2VT	"X'F5F'"	3935 DB2/VSAM TRANSPARENCY
0	(0)	BITSTRING	0	IMDFSITD	"X'F5D'"	3933 FSI TRACE
0	(0)	BITSTRING	0	IMDFSITC	"X'F5C'"	3932 FSI TRACE
0	(0)	BITSTRING	0	IMDFSITB	"X'F5B'"	3931 FSI TRACE
0	(0)	BITSTRING	0	IMDFSITA	"X'F5A'"	3930 FSI TRACE
0	(0)	BITSTRING	0	IMDFSIT9	"X'F59'"	3929 FSI TRACE
0	(0)	BITSTRING	0	IMDFSIT8	"X'F58'"	3928 FSI TRACE
0	(0)	BITSTRING	0	IMDFSIT7	"X'F57'"	3927 FSI TRACE
0	(0)	BITSTRING	0	IMDFSIT6	"X'F56'"	3926 FSI TRACE
0	(0)	BITSTRING	0	IMDFSIT5	"X'F55'"	3925 FSI TRACE
0	(0)	BITSTRING	0	IMDFSIT4	"X'F54'"	3924 FSI TRACE
0	(0)	BITSTRING	0	IMDOSIC	"X'F53'"	3923 OPEN SYSTEMS INTERCONN
0	(0)	BITSTRING	0	IMDLANRW	"X'F3F'"	LANRES
0	(0)	BITSTRING	0	IMDLANRV	"X'F3E'"	LANRES
0	(0)	BITSTRING	0	IMDLANRU	"X'F3D'"	LANRES
0	(0)	BITSTRING	0	IMDLANRT	"X'F3C'"	LANRES
0	(0)	BITSTRING	0	IMDLANRS	"X'F3B'"	LANRES
0	(0)	BITSTRING	0	IMDLANRR	"X'F3A'"	LANRES
0	(0)	BITSTRING	0	IMDLANRQ	"X'F39'"	LANRES
0	(0)	BITSTRING	0	IMDLANRP	"X'F38'"	LANRES
0	(0)	BITSTRING	0	IMDLANRO	"X'F37'"	LANRES

Table 688. Structure (continued)

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
0	(0)	BITSTRING	0	IMDLANRN	"X'F36'" LANRES
0	(0)	BITSTRING	0	IMDLANRM	"X'F35'" LANRES
0	(0)	BITSTRING	0	IMDLANRL	"X'F34'" LANRES
0	(0)	BITSTRING	0	IMDLANRK	"X'F33'" LANRES
0	(0)	BITSTRING	0	IMDLANRJ	"X'F32'" LANRES
0	(0)	BITSTRING	0	IMDLANRI	"X'F31'" LANRES
0	(0)	BITSTRING	0	IMDLANRH	"X'F30'" LANRES
0	(0)	BITSTRING	0	IMDLANRG	"X'F2F'" LANRES
0	(0)	BITSTRING	0	IMDLANRF	"X'F2E'" LANRES
0	(0)	BITSTRING	0	IMDLANRE	"X'F2D'" LANRES
0	(0)	BITSTRING	0	IMDLANRD	"X'F2C'" LANRES
0	(0)	BITSTRING	0	IMDLANRC	"X'F2B'" LANRES
0	(0)	BITSTRING	0	IMDLANRB	"X'F2A'" LANRES
0	(0)	BITSTRING	0	IMDLANRA	"X'F29'" LANRES
0	(0)	BITSTRING	0	IMDLANR9	"X'F28'" LANRES
0	(0)	BITSTRING	0	IMDLANR8	"X'F27'" LANRES
0	(0)	BITSTRING	0	IMDLANR7	"X'F26'" LANRES
0	(0)	BITSTRING	0	IMDLANR6	"X'F25'" LANRES
0	(0)	BITSTRING	0	IMDLANR5	"X'F24'" LANRES
0	(0)	BITSTRING	0	IMDLANR4	"X'F23'" LANRES
0	(0)	BITSTRING	0	IMDLANR3	"X'F22'" LANRES
0	(0)	BITSTRING	0	IMDLANR2	"X'F21'" LANRES
0	(0)	BITSTRING	0	IMDLANR1	"X'F20'" LANRES
0	(0)	BITSTRING	0	IEFDB400A	"X'F1F'" DYNALLOC
0	(0)	BITSTRING	0	IEFDB400B	"X'F1E'" DYNALLOC
0	(0)	BITSTRING	0	IEFDB400C	"X'F1D'" DYNALLOC

Table 689. Cross Reference for IHLMGTRC

Name	Offset	Hex Tag
IDAAM01	0	FF5
IEFDB400A	0	F1F
IEFDB400B	0	F1E
IEFDB400C	0	F1D
IGGSP002	0	FF3
IGGSP008	0	FF4
IGGSP112	0	FF6
IGGSP119	0	FF8
IGGSP145	0	FFB
IGGSP169	0	FFE
IGGSP215	0	FF7
IGGSP235	0	FF9
IGGSP239	0	FFA
IGGSP251	0	FFC
IGGSP451	0	FFD
IHLMDMA1	0	FFF
IMDCICS	0	F6C
IMDDB2VT	0	F5F
IMDFSITA	0	F5A
IMDFSITB	0	F5B

IHLMGTRC mapping

Table 689. Cross Reference for IHLMGTRC (continued)

Name	Offset	Hex Tag
IMDFSITC	0	F5C
IMDFSITD	0	F5D
IMDFSIT4	0	F54
IMDFSIT5	0	F55
IMDFSIT6	0	F56
IMDFSIT7	0	F57
IMDFSIT8	0	F58
IMDFSIT9	0	F59
IMDGP00	0	FAC
IMDGP01	0	FAF
IMDGP02	0	FB0
IMDGP03	0	FB1
IMDGP04	0	FB2
IMDGP05	0	FB3
IMDGP06	0	FB4
IMDGP07	0	FB5
IMDGP08	0	FB6
IMDGP09	0	FB7
IMDGP10	0	FB8
IMDGP11	0	FB9
IMDGP12	0	FBA
IMDGP13	0	FBB
IMDGP14	0	FBC
IMDGP15	0	FBD
IMDGP16	0	FBE
IMDGP17	0	FBF
IMDGP18	0	FC0
IMDGP19	0	FC1
IMDGP20	0	FC2
IMDGP21	0	FC3
IMDGP22	0	FC4
IMDGP23	0	FC5
IMDGP24	0	FC6
IMDGP25	0	FC7
IMDGP26	0	FC8
IMDGP27	0	FC9
IMDGP28	0	FCA
IMDGP29	0	FCB
IMDGP30	0	FCC
IMDGP31	0	FCD
IMDGP32	0	FCE
IMDGP33	0	FCF
IMDGP34	0	FD0
IMDGP35	0	FD1
IMDGP36	0	FD2
IMDGP37	0	FD3
IMDGP38	0	FD4
IMDGP39	0	FD5
IMDGP40	0	FD6

Table 689. Cross Reference for IHLMGTRC (continued)

Name	Offset	Hex Tag
IMDGP41	0	FD7
IMDGP42	0	FD8
IMDGP43	0	FD9
IMDGP44	0	FDA
IMDGP45	0	FDB
IMDGP46	0	FDC
IMDGP47	0	FDD
IMDGP48	0	FDE
IMDGP49	0	FD7
IMDGP50	0	FE0
IMDLANRA	0	F29
IMDLANRB	0	F2A
IMDLANRC	0	F2B
IMDLANRD	0	F2C
IMDLANRE	0	F2D
IMDLANRF	0	F2E
IMDLANRG	0	F2F
IMDLANRH	0	F30
IMDLANRI	0	F31
IMDLANRJ	0	F32
IMDLANRK	0	F33
IMDLANRL	0	F34
IMDLANRM	0	F35
IMDLANRN	0	F36
IMDLANRO	0	F37
IMDLANRP	0	F38
IMDLANRQ	0	F39
IMDLANRR	0	F3A
IMDLANRS	0	F3B
IMDLANRT	0	F3C
IMDLANRU	0	F3D
IMDLANRV	0	F3E
IMDLANRW	0	F3F
IMDLANR1	0	F20
IMDLANR2	0	F21
IMDLANR3	0	F22
IMDLANR4	0	F23
IMDLANR5	0	F24
IMDLANR6	0	F25
IMDLANR7	0	F26
IMDLANR8	0	F27
IMDLANR9	0	F28
IMDNFS01	0	FAB
IMDOSIC	0	F53
IMDTCAM0	0	FA0
IMDTCAM1	0	FA1
IMDTCAM2	0	FA2
IMDTCAM3	0	FA3
IMDTCAM4	0	FA4

IHLMGTRC mapping

Table 689. Cross Reference for IHLMGTRC (continued)

Name	Offset	Hex Tag
IMDTCAM5	0	FA5
IMDTCAM6	0	FA6
IMDTCAM7	0	FA7
IMDTCAM8	0	FA8
IMDTCAM9	0	FA9
IMDVSM	0	F65
ISTCLEID	0	FF1
ISTLNEID	0	FF2
ISTRPEID	0	FF0
ISTTDEID	0	FE4
ISTTHEID	0	FE2
ISTTPEID	0	FEF
ISTTREID	0	FE3
ISTVIEID	0	FE1

Chapter 175. IHSA Information

IHSA Heading Information

Common Name: INTERRUPT HANDLER SAVE AREA
 Macro ID: IHAIHSA
 DSECT Name: IHSA
 Owing Component: SUPERVISOR CONTROL (SC1C5)
 Eye-Catcher ID: NONE
 Storage Attributes: Subpool: 255
 Key: 0
 Residency: Below 16M
 Size: Offset of IHSAEND minus the offset of IHSA
 Created by: IEAVEMIN
 Pointed to by: ASXBIHSA
 Serialization: THE LOCAL LOCK
 Function: Provides a save area for the status of an interrupted task holding the local or CML lock. Fields beyond IHSAFRRS are at a different offset in z/OS 1.6 than prior to that release.

IHSA mapping

Table 690. Structure IHSA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	1672	IHSA	
0	(0)	CHARACTER	8	IHSACPUT	VALUE OF CPU TIMER
8	(8)	SIGNED	4	IHSANTCB	VALUE OF PSATNEW
12	(C)	SIGNED	4	IHSAOTCB	VALUE OF PSATOLD
16	(10)	CHARACTER	8	IHSACPSW	VALUE OF CURRENT PSW
24	(18)	CHARACTER	32	IHSAFPRS	FLOATING POINT REG SAVE AREA
24	(18)	CHARACTER	8	IHSAFPR0	FLOATING POINT REG 0
32	(20)	CHARACTER	8	IHSAFPR2	FLOATING POINT REG 2
40	(28)	CHARACTER	8	IHSAFPR4	FLOATING POINT REG 4
48	(30)	CHARACTER	8	IHSAFPR6	FLOATING POINT REG 6
56	(38)	CHARACTER	64	IHSAGPRS	GENERAL REGISTER SAVE AREA
120	(78)	CHARACTER	8	IHSAR078	RESERVED
128	(80)	ADDRESS	4	IHSAXSB	ADDRESS OF EXTENDED STATUS BLOCK (XSB)
132	(84)	BITSTRING	1	IHSAFLGS	IHSA FLAGS
		1... ..		IHSANSS	ONE OR MORE FRRS ESTABLISHED WITH EUT=YES
133	(85)	CHARACTER	3	IHSAR085	RESERVED
136	(88)	CHARACTER	64	IHSAARS	ACCESS REGISTER SAVE AREA.
136	(88)	UNSIGNED	4	IHSAAR0	ACCESS REGISTER 0 SAVE AREA.
140	(8C)	UNSIGNED	4	IHSAAR1	ACCESS REGISTER 1 SAVE AREA.
144	(90)	UNSIGNED	4	IHSAAR2	ACCESS REGISTER 2 SAVE AREA.
148	(94)	UNSIGNED	4	IHSAAR3	ACCESS REGISTER 3 SAVE AREA.
152	(98)	UNSIGNED	4	IHSAAR4	ACCESS REGISTER 4 SAVE AREA.
156	(9C)	UNSIGNED	4	IHSAAR5	ACCESS REGISTER 5 SAVE AREA.

IHSA mapping

Table 690. Structure IHSA (continued)

Offset				Len	Name(Dim)	Description
Dec	Hex	Type				
160	(A0)	UNSIGNED		4	IHSAAR6	ACCESS REGISTER 6 SAVE AREA.
164	(A4)	UNSIGNED		4	IHSAAR7	ACCESS REGISTER 7 SAVE AREA.
168	(A8)	UNSIGNED		4	IHSAAR8	ACCESS REGISTER 8 SAVE AREA.
172	(AC)	UNSIGNED		4	IHSAAR9	ACCESS REGISTER 9 SAVE AREA.
176	(B0)	UNSIGNED		4	IHSAAR10	ACCESS REGISTER 10 SAVE AREA.
180	(B4)	UNSIGNED		4	IHSAAR11	ACCESS REGISTER 11 SAVE AREA.
184	(B8)	UNSIGNED		4	IHSAAR12	ACCESS REGISTER 12 SAVE AREA.
188	(BC)	UNSIGNED		4	IHSAAR13	ACCESS REGISTER 13 SAVE AREA.
192	(C0)	UNSIGNED		4	IHSAAR14	ACCESS REGISTER 14 SAVE AREA.
196	(C4)	UNSIGNED		4	IHSAAR15	ACCESS REGISTER 15 SAVE AREA.
200	(C8)	ADDRESS		4	IHSALSDP	LINKAGE STACK ENTRY DESCRIPTOR (LSED) POINTER.
204	(CC)	CHARACTER		1280	IHSAFRRS	FRR STACK SAVEAREA
1484	(5CC)	CHARACTER		4	IHSAR5CC	RESERVED
1488	(5D0)	CHARACTER		100	IHSAAFPR	FPRS 1,3,5,7-15,FPCR
1488	(5D0)	CHARACTER		96	*	FPRS 1,3,5,7-15
1584	(630)	CHARACTER		4	IHSAFPCCR	FPCR
1588	(634)	ADDRESS		4	IHSAESSA@	Address of IHSA's ESSA
1592	(638)	CHARACTER		64	IHSAG64H	HIGH ORDER HALVES OF 64-BIT GPRS
1656	(678)	CHARACTER		16	IHSACPSW16	VALUE OF CURRENT PSW
1672	(688)	CHARACTER		0	IHSAEND	DOUBLE WORD ALIGN

Table 691. Cross Reference for IHSA

Name	Offset	Hex Tag
IHSA	0	
IHSAAFPR	5D0	
IHSAARS	88	
IHSAAR0	88	
IHSAAR1	8C	
IHSAAR10	B0	
IHSAAR11	B4	
IHSAAR12	B8	
IHSAAR13	BC	
IHSAAR14	C0	
IHSAAR15	C4	
IHSAAR2	90	
IHSAAR3	94	
IHSAAR4	98	
IHSAAR5	9C	
IHSAAR6	A0	
IHSAAR7	A4	
IHSAAR8	A8	
IHSAAR9	AC	
IHSACPSW	10	
IHSACPSW16	678	
IHSACPUT	0	
IHSAEND	688	
IHSAESSA@	634	
IHSAFLGS	84	

Table 691. Cross Reference for IHSA (continued)

Name	Offset	Hex Tag
IHSAPCR	630	
IHSAPRS	18	
IHSAPR0	18	
IHSAPR2	20	
IHSAPR4	28	
IHSAPR6	30	
IHSAPRS	CC	
IHSAGPRS	38	
IHSAG64H	638	
IHSALSDP	C8	
IHSANSS	84	80
IHSANTCB	8	
IHSAOTCB	C	
IHSAR078	78	
IHSAR085	85	
IHSAR5CC	5CC	
IHSAXSB	80	

IHSA mapping

Chapter 176. IIT Information

IIT Heading Information

Common Name: IPL Information Table (IIT)
 Macro ID: IOSDIIT
 DSECT Name: IIT, IITMLTNL, ITDDDTNL, ITTERPNL
 Owning Component: I/O Supervisor (SC1C3)
 Eye-Catcher ID: IIT
 Offset: 0
 Length: 4
 Storage Attributes: Subpool: During MVSCP execution: Subpool 2.
 During IPL: IPL work space
 Key: During MVSCP execution user's key.
 During IPL: IPL work space
 Size: Variable length
 Created by: IPL Information Table (IIT) Build Routine
 Pointed to by: IVTIITP field of the IVT (during IPL)
 Serialization: None
 Function: The IPL Information Table contains the MLT Name List, DDT Name List, and Resident ERP Name List.

IIT mapping

Table 692. Structure IIT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	72	IIT	IPL Information Table (IIT)
0	(0)	CHARACTER	4	IITID	IIT identifier ('IIT ')
4	(4)	CHARACTER	8	IITDATE	Date of MVSCP execution
12	(C)	CHARACTER	5	IITTIME	Time of MVSCP execution
17	(11)	CHARACTER	3	*	Reserved, must be zero
20	(14)	ADDRESS	4	IITMLTLP	Pointer to the Module Lists Table (MLT) Name List
24	(18)	SIGNED	4	IITMLTCT	Number of MLT names in list
28	(1C)	ADDRESS	4	IITDDTLP	Pointer to the Device Descriptor Table (DDT) Name List
32	(20)	SIGNED	4	IITDDTCT	Number of DDT names in list
36	(24)	ADDRESS	4	IITERPLP	Pointer to the Resident ERP Name List
40	(28)	SIGNED	4	IITERPCT	Number of Resident ERP names in list
44	(2C)	CHARACTER	10	IITVERS	MVSCP version
54	(36)	CHARACTER	1	IITCMPT	Compatibility byte (used to detect if the level of MVS is compatible with the I/O configuration data built by the MVSCP)
55	(37)	CHARACTER	1	*	Reserved, must be zero
56	(38)	CHARACTER	16	*	Reserved, must be zero

IIT mapping

Table 693. Structure IITMLTNL

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
0	(0)	STRUCTURE		12	IITMLTNL(*)	MLT Name List
0	(0)	CHARACTER		8	IITMLTNM	MLT name
8	(8)	BITSTRING	1... ..	1	IITMLTFL	Flags
					IITMLTOP	MLT contains module names associated with a product that provides optional support for a device
			.111 1111		*	Reserved, must be zero
9	(9)	CHARACTER		3	*	Reserved, must be zero

Table 694. Structure IITDDTNL

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
0	(0)	STRUCTURE		12	IITDDTNL(*)	DDT Name List
0	(0)	CHARACTER		8	IITDDTNM	DDT name
8	(8)	ADDRESS		4	IITDDTP	DDT address (set by IEAIPL03)

Table 695. Structure IITERPNL

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
0	(0)	STRUCTURE		12	IITERPNL(*)	Resident ERP Name List
0	(0)	CHARACTER		8	IITERPNM	Resident ERP entry point name
8	(8)	SIGNED		4	IITERPIN	Resident ERP Table index

Table 696. Constants for IIT

Len	Type	Value	Name	Description
The following constant is used to place an identifier in the IIT (field IITID).				
4	CHARACTER	IIT	IITCBID	IIT identifier

Table 697. Cross Reference for IIT

Name	Offset	Hex Tag
IIT	0	
IITCMPT	36	
IITDATE	4	
IITDDTCT	20	
IITDDTLP	1C	
IITDDTNL	0	
IITDDTNM	0	
IITDDTP	8	
IITERPCT	28	
IITERPIN	8	
IITERPLP	24	
IITERPNL	0	
IITERPNM	0	
IITID	0	

Table 697. Cross Reference for IIT (continued)

Name	Offset	Hex Tag
IITMLTCT	18	
IITMLTFL	8	
IITMLTLP	14	
IITMLTNL	0	
IITMLTNM	0	
IITMLTOP	8	80
IITTIME	C	
IITVERS	2C	

IIT mapping

Chapter 177. IKJTAIE Information

IKJTAIE Programming Interface Information

IKJTAIE is a programming interface.

IKJTAIE Heading Information

Common Name: TSO Terminal Attention Interrupt Element
 Macro ID: IKJTAIE
 DSECT Name: TAIE
 Owing Component: Region Control Task (SC1CU)
 Eye-Catcher ID: NONE
 Storage Attributes: Subpool: User
 Key: User
 Residency: below 16M
 Size: 48 bytes
 Created by: IEAVAR05
 Pointed to by: TAXETAIE field of the TAXE data area.
 Serialization: None
 Function: This is the interface containing data for the user's attention exit.

IKJTAIE mapping

Table 698. Structure TAIE

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
0	(0)	STRUCTURE		0	TAIE	
0	(0)	CHARACTER		2	TAIEMSGL	. MESSAGE LENGTH
2	(2)	CHARACTER		1	TAIETGET	. RET CODE FROM TGET ISSUED BY ATTN PROL LOG TO BE CHECKED BY USER ATTN RTN
3	(3)	CHARACTER		1	TAIEATTN	. TO BE USED BY THE TMP
4	(4)	SIGNED		4	TAIEIAD	. RIGHT HALF OF INTERRUPT PSW
4	(4)	BITSTRING		3		BYTES 0-2
7	(7)	BITSTRING		1	TAIEIAD3	BYTE 3 OF TAIEIAD
		.... ...1			TAIEIA64	"X'01'" WHEN ON, AMODE 64
8	(8)	CHARACTER		64	TAIERSAV	. REGS. STORED HERE WHEN AN INTERRUPT TO MAINLINE OR ATTN. EXIT OCCURS
8	(8)	X'48'		0	TAIELNGT	"*-TAIE" LENGTH OF TAIE

Table 699. Cross Reference for IKJTAIE

Name	Offset	Hex Tag
TAIE	0	
TAIEATTN	3	
TAIEIAD	4	
TAIEIAD3	7	
TAIEIA64	7	1

IKJTAIE mapping

Table 699. Cross Reference for IKJTAIE (continued)

Name	Offset	Hex Tag
TAIELNGT	8	48
TAIEMSGL	0	
TAIERSAV	8	
TAIETGET	2	

Chapter 178. IMCB Information

IMCB Heading Information

Common Name: SYSTEM RESOURCES MANAGER USER I/O MEASUREMENT CONTROL BLOCK
 Macro ID: IRAIMCB
 DSECT Name: IMCB
 Owing Component: SYSTEMS RESOURCE MANAGER (SC1CX)
 Eye-Catcher ID: IMCB
 Offset: 0
 Length: 4
 Storage Attributes: Subpool: 245
 Key: 0
 Residency: ABOVE 16M LINE
 Size: 240 BYTES, INCLUDING USER LCH USAGE TABLE ENTRIES
 Created by: IRARMIO
 Pointed to by: N/A
 Serialization: SRM LOCK
 Function: THE IMCB CONTAINS THE I/O MEASUREMENT
 STATISTICS THAT THE SYSTEM RESOURCES MANAGERS MAINTAINS
 FOR USE IN I/O LOAD BALANCING

IMCB mapping

Table 700. Structure IMCB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	*	IMCB	
0	(0)	CHARACTER	4	IMCBNAME	ACRONYM 'IMCB'
4	(4)	ADDRESS	4	IMCBFRST	ADDR OF FIRST ENTRY IN IMCB LPB TABLE
8	(8)	ADDRESS	4	IMCBLAST	ADDR OF LAST ENTRY IN IMCB LPB TABLE
12	(C)	BITSTRING	1	IMCBFLGS	IMCB FLAGS
		1... ..		IMCBINIT	IMCB LPB TABLE INITIALIZED
		.1.. ..		IMCBSLPU	SIGNIFICANT USER OF ONE OR MORE OUT-OF-BALANCE LPB'S
		..1.		IMCBOVLP	USER ACTIVE ON OVERUTIL LPB
		...1		IMCBUNLP	USER ACTIVE ON UNDERUTIL LPB
		.... 1111		IMCBRSV2	RESERVED
13	(D)	CHARACTER	3	IMCBRSV	RESERVED
16	(10)	CHARACTER	8	IMCBNTRY(*)	ARRAY OF ENTRIES FOR LPB'S

Table 701. Structure IMBENTY

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	8	IMBENTY	
0	(0)	UNSIGNED	4	IMBCONN	CONNECT TIME BASE IN 128 MICRO SECONDS
4	(4)	SIGNED	2	IMBCONN	PERCENT CONNECT TIME IN PERCENT TIMES 100

IMCB mapping

Table 701. Structure IMBENTY (continued)

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
6	(6)	SIGNED	2	IMBLPBO	OFFSET TO LOGICAL PATH BLOCK

Table 702. Cross Reference for IMCB

Name	Offset	Hex	Tag
IMBCONN	0		
IMBCONN	4		
IMBENTY	0		
IMBLPBO	6		
IMCB	0		
IMCBFLGS	C		
IMCBFRST	4		
IMCBINIT	C		80
IMCBLAST	8		
IMCBNAME	0		
IMCBNTRY	10		
IMCBOVLP	C		20
IMCBRSV	D		
IMCBRSV2	C		0F
IMCBSLPU	C		40
IMCBUNLP	C		10

Chapter 179. IMDMEDIT Information

IMDMEDIT Programming Interface Information

IMDMEDIT is a programming interface.

IMDMEDIT Heading Information

Common Name: GTF Event Identifier Constants
Macro ID: IMDMEDIT
DSECT Name: None
Owning Component: Generalized Trace Facility (SC118)
Eye-Catcher ID: None
Storage Attributes: Subpool: N/A
Key: N/A
Size: N/A
FREQUENCY: N/A
Created by: N/A
INITIALIZED BY: N/A
Pointed to by: N/A
Serialization: None
Function: Map the Event Identifier (EID) values associated with IBM system and subsystem events. The macro is designed to be used by IBM-supplied format appendages and user-supplied exit modules.
This mapping provides documentation of the EIDs assigned to IBM system and subsystem events.

IMDMEDIT mapping

Table 703. Structure

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		
0	(0)	X'0'	0	IMDMSSM	"0" OS SSM FOR COMPATIBILITY
0	(0)	X'0'	0	IMDMSSM1	"0" SSM INTERRUPT
0	(0)	X'0'	0	IMDMPIPG	"0" PAGE FAULT PROGRAM INTERRUPT
		.... ..1		IMDMDSP1	"X'0001'" DISPATCHER
0	(0)	X'1'	0	IEADISP1	"IMDMDSP1" DISPATCHER
		.... ..1.		IMDMDSP2	"X'0002'" DISPATCHER
0	(0)	X'2'	0	IEADISP2	"IMDMDSP2" DISPATCHER
		.... ..11		IMDMDSP	"X'0003'" DISPATCHER
		.... ..11		IMDMDSP3	"X'0003'" DISPATCHER
0	(0)	X'3'	0	IEADISP3	"IMDMDSP3" DISPATCHER
0	(0)	BITSTRING	0	IMDMDSP4	"X'1004'" SVC EXIT PROLOG DISPATCH
0	(0)	X'1004'	0	IEADISP4	"IMDMDSP4" EXIT PROLOG DISPATCH
0	(0)	BITSTRING	0	IMDM SVC	"X'1000'" SVC INTERRUPT
0	(0)	X'1000'	0	IEASVCH	"IMDM SVC" SVC INTERRUPT
0	(0)	BITSTRING	0	IMDM PCI	"X'2100'" PCI I/O INTERRUPT
0	(0)	X'2100'	0	IECP CI	"IMDM PCI" PCI I/O INTERRUPT

IMDMEDIT mapping

Table 703. Structure (continued)

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
0	(0)	BITSTRING	0	IMDMPCIX	"X'2101'" PCI I/O INTERRUPT SUMMARY RCD
0	(0)	X'2101'	0	IEPCPIX	"IMDMPCIX" PCI I/O INTERRUPT SUMMARY RCD
0	(0)	BITSTRING	0	IMDMSRM	"X'4001'" SRM
0	(0)	X'4001'	0	IRASRM	"IMDMSRM" SRM
0	(0)	BITSTRING	0	IMDMSTAE	"X'4002'" RTM
0	(0)	X'4002'	0	IEASTAE	"IMDMSTAE" RTM
0	(0)	BITSTRING	0	IMDMFRR	"X'4003'" RTM
0	(0)	X'4003'	0	IEAFRR	"IMDMFRR" RTM
0	(0)	BITSTRING	0	IMDMSLSD	"X'4004'" RTM/SLIP STANDARD RECORD
0	(0)	X'4004'	0	IEAVSLSD	"IMDMSLSD" RTM/SLIP STANDARD RECORD
0	(0)	BITSTRING	0	IMDMSLSU	"X'4005'" RTM/SLIP STANDARD+USER RECORD
0	(0)	X'4005'	0	IEAVLSLU	"IMDMSLSU" RTM/SLIP STANDARD+USER RECORD
0	(0)	BITSTRING	0	IMDMSLUR	"X'4006'" RTM/SLIP USER RECORD
0	(0)	X'4006'	0	IEAVSLUR	"IMDMSLUR" RTM/SLIP USER RECORD
0	(0)	BITSTRING	0	IMDMSIO	"X'5100'" SIO OPERATION
0	(0)	X'5100'	0	IECSIO	"IMDMSIO" SIO OPERATION
0	(0)	BITSTRING	0	IMDMEOS	"X'5101'" IOS
0	(0)	X'5101'	0	IECEOS	"IMDMEOS" IOS
0	(0)	BITSTRING	0	IMDMCSCH	"X'5102'" CLEAR SUBCHANNEL GTF RECORD
0	(0)	X'5102'	0	IECCSCH	"IMDMCSCH" CLEAR SUBCHANNEL GTF RECORD
0	(0)	BITSTRING	0	IMDMHSCH	"X'5103'" HALT SUBCHANNEL GTF RECORD
0	(0)	X'5103'	0	IECHSCH	"IMDMHSCH" HALT SUBCHANNEL GTF RECORD
0	(0)	BITSTRING	0	IMDMMSCH	"X'5104'" MODIFY SUBCHANNEL GTF RECORD
0	(0)	X'5104'	0	IECMSCH	"IMDMMSCH" MODIFY SUBCHANNEL GTF RECORD
0	(0)	BITSTRING	0	IMDMSSCH	"X'5105'" START SUBCHANNEL GTF RECORD
0	(0)	X'5105'	0	IECSSCH	"IMDMSSCH" START SUBCHANNEL GTF RECORD
0	(0)	BITSTRING	0	IMDMRSCH	"X'5106'" RESUME SUBCHANNEL GTF RECORD
0	(0)	X'5106'	0	IECRSCH	"IMDMRSCH" RESUME SUBCHANNEL GTF RECORD
0	(0)	BITSTRING	0	IMDMEOSX	"X'5107'" EOS SUMMARY RECORD
0	(0)	X'5107'	0	IECEOSX	"IMDMEOSX" EOS SUMMARY RECORD
0	(0)	BITSTRING	0	IMDMXSCH	"X'5108'" CANCEL SUBCHANNEL GTF RECORD
0	(0)	X'5108'	0	IECXSCH	"IMDMXSCH" CANCEL SUBCHANNEL GTF RECORD
0	(0)	BITSTRING	0	IMDMINTG	"X'5109'" Interrogate GTF Record
0	(0)	X'5109'	0	IECINTG	"IMDMINTG" Interrogate GTF Record
0	(0)	BITSTRING	0	IMDMI02	"X'5200'" I/O INTERRUPT

Table 703. Structure (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
0	(0)	X'5200'		0	IECIO2	"IMDMI02" I/O INTERRUPT
0	(0)	BITSTRING		0	IMDMI01	"X'5201'" I/O Inter w/concurrent sense
0	(0)	X'5201'		0	IECIO1	"IMDMI01" I/O Inter w/concurrent sense
0	(0)	BITSTRING		0	IMDMI01X	"X'5202'" I/O INTERRUPT SUMMARY RECORD
0	(0)	X'5202'		0	IECIO1X	"IMDMI01X" I/O INTERRUPT SUMMARY RECORD
0	(0)	BITSTRING		0	IMDMCS1X	"X'5203'" CS INTERRUPT SUMMARY RECORD
0	(0)	X'5203'		0	IECCS1X	"IMDMCS1X" CS INTERRUPT SUMMARY RECORD
0	(0)	BITSTRING		0	IMDMPI	"X'6101'" PROGRAM INTERRUPT
0	(0)	X'6101'		0	IEAPINT	"IMDMPI" PROGRAM INTERRUPT
0	(0)	BITSTRING		0	IMDMTINT	"X'6200'" PFLIH
0	(0)	X'6200'		0	IEATINT	"IMDMTINT" PFLIH
0	(0)	BITSTRING		0	IMDMEXT	"X'6201'" EXTERNAL INTERRUPT
0	(0)	X'6201'		0	IEAEINT	"IMDMEXT" EXTERNAL INTERRUPT
0	(0)	BITSTRING		0	IMDMTP1	"X'8100'" TPIOS
0	(0)	X'8100'		0	ISPPTIO1	"IMDMTP1" TPIOS
0	(0)	BITSTRING		0	IMDMTP2	"X'8200'" TPIOS
0	(0)	X'8200'		0	ISPPTIO2	"IMDMTP2" TPIOS
0	(0)	BITSTRING		0	IMDE5E2	"X'E5E2'" Netview
0	(0)	BITSTRING		0	IMDE5E4	"X'E5E4'" TCP/IP for MVS
0	(0)	BITSTRING		0	IMDE5E5	"X'E5E5'" VTAM SAW and PD PIU
0	(0)	BITSTRING		0	IMDE5E6	"X'E5E6'" Netview
0	(0)	BITSTRING		0	IMDE5E7	"X'E5E7'" Netview
0	(0)	BITSTRING		0	IMDE5E8	"X'E5E8'" Netview
0	(0)	BITSTRING		0	IMDE5E9	"X'E5E9'" MQ Series
0	(0)	BITSTRING		0	IMDE5EA	"X'E5EA'" MQ Series
0	(0)	BITSTRING		0	IMDE5EB	"X'E5EB'" MQ Series
0	(0)	BITSTRING		0	IMDE5EC	"X'E5EC'" MQ Series
0	(0)	BITSTRING		0	IMDE5ED	"X'E5ED'" MQ Series
0	(0)	BITSTRING		0	IMDE5EE	"X'E5EE'" MQ Series
0	(0)	BITSTRING		0	IMDE5EF	"X'E5EF'" Netview PPI
0	(0)	BITSTRING		0	IMDE5F0	"X'E5F0'" Host Command Facilities
0	(0)	BITSTRING		0	IMDE5F1	"X'E5F1'" VM Group Control Subsystem
0	(0)	BITSTRING		0	IMDE5F4	"X'E5F4'" Netview Session Monitor
0	(0)	BITSTRING		0	IMDE5F5	"X'E5F5'" Netview Session Monitor
0	(0)	BITSTRING		0	IMDE5F6	"X'E5F6'" Netview
0	(0)	BITSTRING		0	IMDE5FA	"X'E5FA'" ALCS
0	(0)	BITSTRING		0	IMDE5FB	"X'E5FB'" ALCS
0	(0)	BITSTRING		0	IEFDB400EC	"X'EF1D'" DYNALLOC
0	(0)	BITSTRING		0	IEFDB400EB	"X'EF1E'" DYNALLOC
0	(0)	BITSTRING		0	IEFDB400EA	"X'EF1F'" DYNALLOC
0	(0)	BITSTRING		0	IMDLANR1	"X'EF20'" LANRES
0	(0)	BITSTRING		0	IMDLANR2	"X'EF21'" LANRES
0	(0)	BITSTRING		0	IMDLANR3	"X'EF22'" LANRES

IMDMEDIT mapping

Table 703. Structure (continued)

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
0	(0)	BITSTRING	0	IMDLANR4	"X'EF23'" LANRES
0	(0)	BITSTRING	0	IMDLANR5	"X'EF24'" LANRES
0	(0)	BITSTRING	0	IMDLANR6	"X'EF25'" LANRES
0	(0)	BITSTRING	0	IMDLANR7	"X'EF26'" LANRES
0	(0)	BITSTRING	0	IMDLANR8	"X'EF27'" LANRES
0	(0)	BITSTRING	0	IMDLANR9	"X'EF28'" LANRES
0	(0)	BITSTRING	0	IMDLANRA	"X'EF29'" LANRES
0	(0)	BITSTRING	0	IMDLANRB	"X'EF2A'" LANRES
0	(0)	BITSTRING	0	IMDLANRC	"X'EF2B'" LANRES
0	(0)	BITSTRING	0	IMDLANRD	"X'EF2C'" LANRES
0	(0)	BITSTRING	0	IMDLANRE	"X'EF2D'" LANRES
0	(0)	BITSTRING	0	IMDLANRF	"X'EF2E'" LANRES
0	(0)	BITSTRING	0	IMDLANRG	"X'EF2F'" LANRES
0	(0)	BITSTRING	0	IMDLANRH	"X'EF30'" LANRES
0	(0)	BITSTRING	0	IMDLANRI	"X'EF31'" LANRES
0	(0)	BITSTRING	0	IMDLANRJ	"X'EF32'" LANRES
0	(0)	BITSTRING	0	IMDLANRK	"X'EF33'" LANRES
0	(0)	BITSTRING	0	IMDLANRL	"X'EF34'" LANRES
0	(0)	BITSTRING	0	IMDLANRM	"X'EF35'" LANRES
0	(0)	BITSTRING	0	IMDLANRN	"X'EF36'" LANRES
0	(0)	BITSTRING	0	IMDLANRO	"X'EF37'" LANRES
0	(0)	BITSTRING	0	IMDLANRP	"X'EF38'" LANRES
0	(0)	BITSTRING	0	IMDLANRQ	"X'EF39'" LANRES
0	(0)	BITSTRING	0	IMDLANRR	"X'EF3A'" LANRES
0	(0)	BITSTRING	0	IMDLANRS	"X'EF3B'" LANRES
0	(0)	BITSTRING	0	IMDLANRT	"X'EF3C'" LANRES
0	(0)	BITSTRING	0	IMDLANRU	"X'EF3D'" LANRES
0	(0)	BITSTRING	0	IMDLANRV	"X'EF3E'" LANRES
0	(0)	BITSTRING	0	IMDLANRW	"X'EF3F'" LANRES
0	(0)	BITSTRING	0	IMDEF42	"X'EF42'" IBM Client Input Output Sockets
0	(0)	BITSTRING	0	IMDEF43	"X'EF43'" MVS System Logger
0	(0)	BITSTRING	0	IMDEF44	"X'EF44'" RACF
0	(0)	BITSTRING	0	IMDEF45	"X'EF45'" RACF
0	(0)	BITSTRING	0	IMDEF47	"X'EF47'" Open Systems Interconnection File Service
0	(0)	BITSTRING	0	IMDEF48	"X'EF48'" MVS IOS
0	(0)	BITSTRING	0	IMDEF49	"X'EF49'" Bulk Data Transfer
0	(0)	BITSTRING	0	IMDEF52	"X'EF52'" Netview Distribution Manager
0	(0)	BITSTRING	0	IMDOSIC	"X'EF53'" Open Systems Interconnection Communications Subsystem
0	(0)	BITSTRING	0	IMDFSIT4	"X'EF54'" FSI TRACE
0	(0)	BITSTRING	0	IMDFSIT5	"X'EF55'" FSI TRACE
0	(0)	BITSTRING	0	IMDFSIT6	"X'EF56'" FSI TRACE
0	(0)	BITSTRING	0	IMDFSIT7	"X'EF57'" FSI TRACE
0	(0)	BITSTRING	0	IMDFSIT8	"X'EF58'" FSI TRACE
0	(0)	BITSTRING	0	IMDFSIT9	"X'EF59'" FSI TRACE
0	(0)	BITSTRING	0	IMDFSITA	"X'EF5A'" FSI TRACE
0	(0)	BITSTRING	0	IMDFSITB	"X'EF5B'" FSI TRACE
0	(0)	BITSTRING	0	IMDFSITC	"X'EF5C'" FSI TRACE

Table 703. Structure (continued)

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
0	(0)	BITSTRING	0	IMDFSITD	"X'EF5D'" FSI TRACE
0	(0)	BITSTRING	0	IMDDB2VT	"X'EF5F'" DB2/VSAM TRANSPARENCY
0	(0)	BITSTRING	0	IMDEF60	"X'EF60'" JES 3
0	(0)	BITSTRING	0	IMDEF62	"X'EF62'" Dynamic Output SVC installation exit
0	(0)	BITSTRING	0	IMDEF63	"X'EF63'" Converter/Interpreter installation exit
0	(0)	BITSTRING	0	IMDVSM	"X'EF65'" VIRTUAL STORAGE MANAGER
0	(0)	BITSTRING	0	IMDCICS	"X'EF6C'" CICS
0	(0)	BITSTRING	0	IMDEF6D	"X'EF6D'" Netware
0	(0)	BITSTRING	0	IMDEF6E	"X'EF6E'" Netware
0	(0)	BITSTRING	0	IMDEF6F	"X'EF6F'" Netware
0	(0)	BITSTRING	0	IMDEF70	"X'EF70'" Netware
0	(0)	BITSTRING	0	IMDEF71	"X'EF71'" Netware
0	(0)	BITSTRING	0	IMDEF72	"X'EF72'" Netware
0	(0)	BITSTRING	0	IMDEF73	"X'EF73'" Netware
0	(0)	BITSTRING	0	IMDEF74	"X'EF74'" Netware
0	(0)	BITSTRING	0	IMDEF75	"X'EF75'" Netware
0	(0)	BITSTRING	0	IMDEF76	"X'EF76'" Netware
0	(0)	BITSTRING	0	IMDEF77	"X'EF77'" Netware
0	(0)	BITSTRING	0	IMDEF78	"X'EF78'" Netware
0	(0)	BITSTRING	0	IMDEF79	"X'EF79'" Netware
0	(0)	BITSTRING	0	IMDEF7A	"X'EF7A'" Netware
0	(0)	BITSTRING	0	IMDEF7B	"X'EF7B'" Netware
0	(0)	BITSTRING	0	IMDEF7C	"X'EF7C'" Netware
0	(0)	BITSTRING	0	IMDEF7D	"X'EF7D'" Netware
0	(0)	BITSTRING	0	IMDEF7E	"X'EF7E'" Netware
0	(0)	BITSTRING	0	IMDEF7F	"X'EF7F'" Netware
0	(0)	BITSTRING	0	IMDEF80	"X'EF80'" Netware
0	(0)	BITSTRING	0	IMDEF81	"X'EF81'" Netware
0	(0)	BITSTRING	0	IMDEF82	"X'EF82'" Netware
0	(0)	BITSTRING	0	IMDEF83	"X'EF83'" Netware
0	(0)	BITSTRING	0	IMDEF84	"X'EF84'" Netware
0	(0)	BITSTRING	0	IMDEF85	"X'EF85'" Netware
0	(0)	BITSTRING	0	IMDEF86	"X'EF86'" Netware
0	(0)	BITSTRING	0	IMDEF87	"X'EF87'" Netware
0	(0)	BITSTRING	0	IMDEF88	"X'EF88'" Netware
0	(0)	BITSTRING	0	IMDEF89	"X'EF89'" Netware
0	(0)	BITSTRING	0	IMDEF8A	"X'EF8A'" Netware
0	(0)	BITSTRING	0	IMDEF8B	"X'EF8B'" Netware
0	(0)	BITSTRING	0	IMDEF8C	"X'EF8C'" Netware
0	(0)	BITSTRING	0	IMDTCAM0	"X'EFA0'" TCAM
0	(0)	BITSTRING	0	IMDTCAM1	"X'EFA1'" TCAM
0	(0)	BITSTRING	0	IMDTCAM2	"X'EFA2'" TCAM
0	(0)	BITSTRING	0	IMDTCAM3	"X'EFA3'" TCAM
0	(0)	BITSTRING	0	IMDTCAM4	"X'EFA4'" TCAM
0	(0)	BITSTRING	0	IMDTCAM5	"X'EFA5'" TCAM
0	(0)	BITSTRING	0	IMDTCAM6	"X'EFA6'" TCAM
0	(0)	BITSTRING	0	IMDTCAM7	"X'EFA7'" TCAM
0	(0)	BITSTRING	0	IMDTCAM8	"X'EFA8'" TCAM
0	(0)	BITSTRING	0	IMDTCAM9	"X'EFA9'" TCAM

IMDMEDIT mapping

Table 703. Structure (continued)

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
0	(0)	BITSTRING	0	IMDGP00	"X'EFAC'" NetSpool
0	(0)	BITSTRING	0	IMDEFAD	"X'EFAD'" VM Group Control Subsystem
0	(0)	BITSTRING	0	IMDEFAE	"X'EFAE'" VM Group Control Subsystem RSCS
0	(0)	BITSTRING	0	IMDGP01	"X'EFAF'" RESERVED FOR GPD
0	(0)	BITSTRING	0	IMDGP02	"X'EFB0'" RESERVED FOR GPD
0	(0)	BITSTRING	0	IMDGP03	"X'EFB1'" RESERVED FOR GPD
0	(0)	BITSTRING	0	IMDGP04	"X'EFB2'" RESERVED FOR GPD
0	(0)	BITSTRING	0	IMDGP05	"X'EFB3'" RESERVED FOR GPD
0	(0)	BITSTRING	0	IMDGP06	"X'EFB4'" RESERVED FOR GPD
0	(0)	BITSTRING	0	IMDGP07	"X'EFB5'" RESERVED FOR GPD
0	(0)	BITSTRING	0	IMDGP08	"X'EFB6'" RESERVED FOR GPD
0	(0)	BITSTRING	0	IMDGP09	"X'EFB7'" RESERVED FOR GPD
0	(0)	BITSTRING	0	IMDGP10	"X'EFB8'" RESERVED FOR GPD
0	(0)	BITSTRING	0	IMDGP11	"X'EFB9'" RESERVED FOR GPD
0	(0)	BITSTRING	0	IMDGP12	"X'EFBA'" RESERVED FOR GPD
0	(0)	BITSTRING	0	IMDGP13	"X'EFBB'" RESERVED FOR GPD
0	(0)	BITSTRING	0	IMDGP14	"X'EFBC'" RESERVED FOR GPD
0	(0)	BITSTRING	0	IMDGP15	"X'EFBD'" RESERVED FOR GPD
0	(0)	BITSTRING	0	IMDGP16	"X'EFBE'" RESERVED FOR GPD
0	(0)	BITSTRING	0	IMDGP17	"X'EFBF'" RESERVED FOR GPD
0	(0)	BITSTRING	0	IMDGP18	"X'EFC0'" RESERVED FOR GPD
0	(0)	BITSTRING	0	IMDGP19	"X'EFC1'" RESERVED FOR GPD
0	(0)	BITSTRING	0	IMDGP20	"X'EFC2'" RESERVED FOR GPD
0	(0)	BITSTRING	0	IMDGP21	"X'EFC3'" RESERVED FOR GPD
0	(0)	BITSTRING	0	IMDGP22	"X'EFC4'" RESERVED FOR GPD
0	(0)	BITSTRING	0	IMDGP23	"X'EFC5'" RESERVED FOR GPD
0	(0)	BITSTRING	0	IMDGP24	"X'EFC6'" RESERVED FOR GPD
0	(0)	BITSTRING	0	IMDGP25	"X'EFC7'" RESERVED FOR GPD
0	(0)	BITSTRING	0	IMDGP26	"X'EFC8'" RESERVED FOR GPD
0	(0)	BITSTRING	0	IMDGP27	"X'EFC9'" RESERVED FOR GPD
0	(0)	BITSTRING	0	IMDGP28	"X'EFCA'" RESERVED FOR GPD
0	(0)	BITSTRING	0	IMDGP29	"X'EFCE'" RESERVED FOR GPD
0	(0)	BITSTRING	0	IMDGP30	"X'EFCC'" RESERVED FOR GPD
0	(0)	BITSTRING	0	IMDGP31	"X'EFCD'" RESERVED FOR GPD
0	(0)	BITSTRING	0	IMDGP32	"X'EFCE'" RESERVED FOR GPD
0	(0)	BITSTRING	0	IMDGP33	"X'EFCE'" RESERVED FOR GPD
0	(0)	BITSTRING	0	IMDGP34	"X'efd0'" Print Service Facility/MVS
0	(0)	BITSTRING	0	IMDGP35	"X'efd1'" Print Service Facility/MVS
0	(0)	BITSTRING	0	IMDGP36	"X'efd2'" Print Service Facility/MVS
0	(0)	BITSTRING	0	IMDGP37	"X'efd3'" Print Service Facility/MVS
0	(0)	BITSTRING	0	IMDGP38	"X'efd4'" Print Service Facility/MVS
0	(0)	BITSTRING	0	IMDGP39	"X'efd5'" RESERVED FOR GPD
0	(0)	BITSTRING	0	IMDGP40	"X'efd6'" RESERVED FOR GPD
0	(0)	BITSTRING	0	IMDGP41	"X'efd7'" RESERVED FOR GPD
0	(0)	BITSTRING	0	IMDGP42	"X'efd8'" RESERVED FOR GPD
0	(0)	BITSTRING	0	IMDGP43	"X'efd9'" RESERVED FOR GPD

Table 703. Structure (continued)

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
0	(0)	BITSTRING	0	IMDGP44	"X'EFDA'" RESERVED FOR GPD
0	(0)	BITSTRING	0	IMDGP45	"X'EFDB'" RESERVED FOR GPD
0	(0)	BITSTRING	0	IMDGP46	"X'EFDC'" RESERVED FOR GPD
0	(0)	BITSTRING	0	IMDGP47	"X'EFDD'" RESERVED FOR GPD
0	(0)	BITSTRING	0	IMDGP48	"X'EFDE'" RESERVED FOR GPD
0	(0)	BITSTRING	0	IMDGP49	"X'EFDF'" RESERVED FOR GPD
0	(0)	BITSTRING	0	IMDGP50	"X'EFE0'" RESERVED FOR GPD
0	(0)	BITSTRING	0	ISTVIEID	"X'EFE1'" ACF/VTAM INTERNAL TRACE
0	(0)	BITSTRING	0	ISTTHEID	"X'EFE2'" TSO/VTAM TGET/TPUT TRACE
0	(0)	BITSTRING	0	ISTTREID	"X'EFE3'" VTAM RESERVED
0	(0)	BITSTRING	0	ISTTDEID	"X'EFE4'" ACF/VTAM NCP LINE TYPE TRACE
0	(0)	BITSTRING	0	IMDEFE5	"X'EFE5'" JES2
0	(0)	BITSTRING	0	IMDEFE6	"X'EFE6'" JES2
0	(0)	BITSTRING	0	IMDEFE7	"X'EFE7'" JES2
0	(0)	BITSTRING	0	IMDEFE8	"X'EFE8'" JES2
0	(0)	BITSTRING	0	IMDEFE9	"X'EFE9'" JES2
0	(0)	BITSTRING	0	IMDEFEA	"X'EFEA'" JES2
0	(0)	BITSTRING	0	IMDEFEB	"X'EFEB'" JES2
0	(0)	BITSTRING	0	IMDEFEC	"X'EFEC'" JES2
0	(0)	BITSTRING	0	IMDEFED	"X'EFED'" JES2
0	(0)	BITSTRING	0	IMDEFEE	"X'EFEE'" JES2
0	(0)	BITSTRING	0	ISTTPEID	"X'EFEF'" ACF/VTAM USER BUFFER CONTENTS TRACE
0	(0)	BITSTRING	0	ISTRPEID	"X'EFF0'" ACF/VTAM SMS(BUFFER USE) TRACE
0	(0)	BITSTRING	0	ISTCLEID	"X'EFF1'" ACF/VTAM COMPONENT BUFFER CONTENTS TRACE
0	(0)	BITSTRING	0	ISTLNEID	"X'EFF2'" ACF/VTAM NCP LINE OR TG TRACE
0	(0)	BITSTRING	0	IGGSP002	"X'EFF3'" SAM/PAM/DAM
0	(0)	BITSTRING	0	IGGSP008	"X'EFF4'" SAM/PAM/DAM
0	(0)	BITSTRING	0	IDAAM01	"X'EFF5'" VSAM
0	(0)	BITSTRING	0	IGGSP112	"X'EFF6'" SAM/PAM/DAM
0	(0)	BITSTRING	0	IGGSP215	"X'EFF7'" SAM/PAM/DAM
0	(0)	BITSTRING	0	IGGSP119	"X'EFF8'" SAM/PAM/DAM
0	(0)	BITSTRING	0	IGGSP235	"X'EFF9'" SAM/PAM/DAM
0	(0)	BITSTRING	0	IGGSP239	"X'EFFA'" SAM/PAM/DAM
0	(0)	BITSTRING	0	IGGSP145	"X'EFFB'" SAM/PAM/DAM
0	(0)	BITSTRING	0	IGGSP251	"X'EFFC'" SAM/PAM/DAM
0	(0)	BITSTRING	0	IGGSP451	"X'EFFD'" SAM/PAM/DAM
0	(0)	BITSTRING	0	IGGSP169	"X'EF FE'" SAM/PAM/DAM
0	(0)	BITSTRING	0	IMDMDMA1	"X'EFFF'" OPEN/CLOSE/EOV
0	(0)	BITSTRING	0	IECPCLD	"X'F101'" PCIE LOAD
0	(0)	BITSTRING	0	IECPCST	"X'F201'" PCIE STORE
0	(0)	BITSTRING	0	IECPCIN	"X'F301'" PCIE INT
0	(0)	BITSTRING	0	IECPCDM	"X'F401'" PCIE DEMUX

IMDMEDIT mapping

Table 704. Cross Reference for IMDMEDIT

Name	Offset	Hex Tag
IDAAM01	0	EFF5
IEADISP1	0	1
IEADISP2	0	2
IEADISP3	0	3
IEADISP4	0	1004
IEAEINT	0	6201
IEAFRR	0	4003
IEAPINT	0	6101
IEASTAE	0	4002
IEASVCH	0	1000
IEATINT	0	6200
IEAVSLSD	0	4004
IEAVLSLU	0	4005
IEAVSLUR	0	4006
IECCSCH	0	5102
IECCS1X	0	5203
IECEOS	0	5101
IECEOSX	0	5107
IECHSCH	0	5103
IECINTG	0	5109
IECIO1	0	5201
IECIO1X	0	5202
IECIO2	0	5200
IECMSCH	0	5104
IEPCDM	0	F401
IEPCI	0	2100
IEPCIN	0	F301
IEPCIX	0	2101
IEPCLD	0	F101
IEPCST	0	F201
IECRSCH	0	5106
IECSIO	0	5100
IECSSCH	0	5105
IECXSCH	0	5108
IEFDB400EA	0	EF1F
IEFDB400EB	0	EF1E
IEFDB400EC	0	EF1D
IGGSP002	0	EFF3
IGGSP008	0	EFF4
IGGSP112	0	EFF6
IGGSP119	0	EFF8
IGGSP145	0	EFFB
IGGSP169	0	EFFE
IGGSP215	0	EFF7
IGGSP235	0	EFF9
IGGSP239	0	EFFA
IGGSP251	0	EFFC
IGGSP451	0	EFFD
IMDCICS	0	EF6C

Table 704. Cross Reference for IMDMEDIT (continued)

Name	Offset	Hex Tag
IMDDB2VT	0	EF5F
IMDEFAD	0	EFAD
IMDEFAE	0	EFAE
IMDEFEA	0	EFEA
IMDEFEB	0	EFEB
IMDEFEC	0	EFEC
IMDEFED	0	EFED
IMDEFEE	0	EFEE
IMDEFE5	0	EFE5
IMDEFE6	0	EFE6
IMDEFE7	0	EFE7
IMDEFE8	0	EFE8
IMDEFE9	0	EFE9
IMDEF42	0	EF42
IMDEF43	0	EF43
IMDEF44	0	EF44
IMDEF45	0	EF45
IMDEF47	0	EF47
IMDEF48	0	EF48
IMDEF49	0	EF49
IMDEF52	0	EF52
IMDEF6D	0	EF6D
IMDEF6E	0	EF6E
IMDEF6F	0	EF6F
IMDEF60	0	EF60
IMDEF62	0	EF62
IMDEF63	0	EF63
IMDEF7A	0	EF7A
IMDEF7B	0	EF7B
IMDEF7C	0	EF7C
IMDEF7D	0	EF7D
IMDEF7E	0	EF7E
IMDEF7F	0	EF7F
IMDEF70	0	EF70
IMDEF71	0	EF71
IMDEF72	0	EF72
IMDEF73	0	EF73
IMDEF74	0	EF74
IMDEF75	0	EF75
IMDEF76	0	EF76
IMDEF77	0	EF77
IMDEF78	0	EF78
IMDEF79	0	EF79
IMDEF8A	0	EF8A
IMDEF8B	0	EF8B
IMDEF8C	0	EF8C
IMDEF80	0	EF80
IMDEF81	0	EF81
IMDEF82	0	EF82

IMDMEDIT mapping

Table 704. Cross Reference for IMDMEDIT (continued)

Name	Offset	Hex Tag
IMDEF83	0	EF83
IMDEF84	0	EF84
IMDEF85	0	EF85
IMDEF86	0	EF86
IMDEF87	0	EF87
IMDEF88	0	EF88
IMDEF89	0	EF89
IMDE5EA	0	E5EA
IMDE5EB	0	E5EB
IMDE5EC	0	E5EC
IMDE5ED	0	E5ED
IMDE5EE	0	E5EE
IMDE5EF	0	E5EF
IMDE5E2	0	E5E2
IMDE5E4	0	E5E4
IMDE5E5	0	E5E5
IMDE5E6	0	E5E6
IMDE5E7	0	E5E7
IMDE5E8	0	E5E8
IMDE5E9	0	E5E9
IMDE5FA	0	E5FA
IMDE5FB	0	E5FB
IMDE5F0	0	E5F0
IMDE5F1	0	E5F1
IMDE5F4	0	E5F4
IMDE5F5	0	E5F5
IMDE5F6	0	E5F6
IMDFSITA	0	EF5A
IMDFSITB	0	EF5B
IMDFSITC	0	EF5C
IMDFSITD	0	EF5D
IMDFSIT4	0	EF54
IMDFSIT5	0	EF55
IMDFSIT6	0	EF56
IMDFSIT7	0	EF57
IMDFSIT8	0	EF58
IMDFSIT9	0	EF59
IMDGP00	0	EFAC
IMDGP01	0	EFAD
IMDGP02	0	EFB0
IMDGP03	0	EFB1
IMDGP04	0	EFB2
IMDGP05	0	EFB3
IMDGP06	0	EFB4
IMDGP07	0	EFB5
IMDGP08	0	EFB6
IMDGP09	0	EFB7
IMDGP10	0	EFB8
IMDGP11	0	EFB9

Table 704. Cross Reference for IMDMEDIT (continued)

Name	Offset	Hex Tag
IMDGPD12	0	EFBA
IMDGPD13	0	EFBB
IMDGPD14	0	EFBC
IMDGPD15	0	EFBD
IMDGPD16	0	EFBE
IMDGPD17	0	EFBF
IMDGPD18	0	EFC0
IMDGPD19	0	EFC1
IMDGPD20	0	EFC2
IMDGPD21	0	EFC3
IMDGPD22	0	EFC4
IMDGPD23	0	EFC5
IMDGPD24	0	EFC6
IMDGPD25	0	EFC7
IMDGPD26	0	EFC8
IMDGPD27	0	EFC9
IMDGPD28	0	EFCA
IMDGPD29	0	EFCB
IMDGPD30	0	EFCC
IMDGPD31	0	EFCD
IMDGPD32	0	EFCE
IMDGPD33	0	EFCF
IMDGPD34	0	EFD0
IMDGPD35	0	EFD1
IMDGPD36	0	EFD2
IMDGPD37	0	EFD3
IMDGPD38	0	EFD4
IMDGPD39	0	EFD5
IMDGPD40	0	EFD6
IMDGPD41	0	EFD7
IMDGPD42	0	EFD8
IMDGPD43	0	EFD9
IMDGPD44	0	EFDA
IMDGPD45	0	EFDB
IMDGPD46	0	EFDC
IMDGPD47	0	EFDD
IMDGPD48	0	EFDE
IMDGPD49	0	EFDF
IMDGPD50	0	EFE0
IMDLANRA	0	EF29
IMDLANRB	0	EF2A
IMDLANRC	0	EF2B
IMDLANRD	0	EF2C
IMDLANRE	0	EF2D
IMDLANRF	0	EF2E
IMDLANRG	0	EF2F
IMDLANRH	0	EF30
IMDLANRI	0	EF31
IMDLANRJ	0	EF32

IMDMEDIT mapping

Table 704. Cross Reference for IMDMEDIT (continued)

Name	Offset	Hex Tag
IMDLANRK	0	EF33
IMDLANRL	0	EF34
IMDLANRM	0	EF35
IMDLANRN	0	EF36
IMDLANRO	0	EF37
IMDLANRP	0	EF38
IMDLANRQ	0	EF39
IMDLANRR	0	EF3A
IMDLANRS	0	EF3B
IMDLANRT	0	EF3C
IMDLANRU	0	EF3D
IMDLANRV	0	EF3E
IMDLANRW	0	EF3F
IMDLANR1	0	EF20
IMDLANR2	0	EF21
IMDLANR3	0	EF22
IMDLANR4	0	EF23
IMDLANR5	0	EF24
IMDLANR6	0	EF25
IMDLANR7	0	EF26
IMDLANR8	0	EF27
IMDLANR9	0	EF28
IMDMCSCH	0	5102
IMDMCS1X	0	5203
IMDMDMA1	0	FFFF
IMDMDSP	0	3
IMDMDSP1	0	1
IMDMDSP2	0	2
IMDMDSP3	0	3
IMDMDSP4	0	1004
IMDMEOS	0	5101
IMDMEOSX	0	5107
IMDMEXT	0	6201
IMDMFRR	0	4003
IMDMHSCH	0	5103
IMDMINTG	0	5109
IMDMIO1	0	5201
IMDMIO1X	0	5202
IMDMIO2	0	5200
IMDMMSCH	0	5104
IMDMPCI	0	2100
IMDMPCIX	0	2101
IMDMPI	0	6101
IMDMPIPG	0	0
IMDMRSCH	0	5106
IMDMSIO	0	5100
IMDMSLSD	0	4004
IMDMSLSU	0	4005
IMDMSLUR	0	4006

Table 704. Cross Reference for IMDMEDIT (continued)

Name	Offset	Hex Tag
IMDMSRM	0	4001
IMDMSSCH	0	5105
IMDMSSM	0	0
IMDMSSM1	0	0
IMDMSTAE	0	4002
IMDM SVC	0	1000
IMDMTINT	0	6200
IMDMTP1	0	8100
IMDMTP2	0	8200
IMDMXSCH	0	5108
IMDOSIC	0	EF53
IMDTCAM0	0	EFA0
IMDTCAM1	0	EFA1
IMDTCAM2	0	EFA2
IMDTCAM3	0	EFA3
IMDTCAM4	0	EFA4
IMDTCAM5	0	EFA5
IMDTCAM6	0	EFA6
IMDTCAM7	0	EFA7
IMDTCAM8	0	EFA8
IMDTCAM9	0	EFA9
IMDVSM	0	EF65
IRASRM	0	4001
ISPTPI01	0	8100
ISPTPI02	0	8200
ISTCLEID	0	EFF1
ISTLNEID	0	EFF2
ISTRPEID	0	EFF0
ISTTDEID	0	EFE4
ISTTHEID	0	EFE2
ISTTPEID	0	EFEF
ISTTREID	0	EFE3
ISTVIEID	0	EFE1

IMDMEDIT mapping

Chapter 180. INF Information

INF Heading Information

Common Name: VSM Information Message Table
 Macro ID: IHAINF
 DSECT Name: INFLIST
 Owning Component: Virtual Storage Manager (SC1CH)
 Eye-Catcher ID: None
 Storage Attributes: Subpool: 245
 Key: 0
 Size: 48 bytes
 Created by: IGVVSERR
 Pointed to by: CVTQMSG
 Serialization: Compare and Swap
 Function: Contains information about an ABEND which is used to generate message IEA705I

INF mapping

Table 705. Structure INFLIST

Offset	Offset					
Dec	Hex	Type	Len	Name(Dim)	Description	
0	(0)	STRUCTURE	48	INFLIST	INFORMATION LIST	
0	(0)	ADDRESS	4	INFASCB	ASCB ADDRESS	
4	(4)	CHARACTER	44	INFBODY	MAIN BODY OF ENTRY	
4	(4)	ADDRESS	4	INFTCB	CURRENT TCB	
8	(8)	ADDRESS	4	INFBADDR	VSM CALLERS RETURN ADDRESS	
12	(C)	SIGNED	2	INFVARCT	COUNT OF VAR FIELDS	
14	(E)	SIGNED	2	INFCC	SYSTEM COMPLETION CODE	
16	(10)	UNSIGNED	1	INFCL	ABEND REASON CODE	
17	(11)	CHARACTER	1	INFFLG	FLAG BYTE	
		1... ..		INFBRENT	BRANCH ENTRY WHEN ON	
		.1... ..		INFFRMN	FREEMAIN WHEN ON	
18	(12)	CHARACTER	2	*	RESERVED	
20	(14)	CHARACTER	4	INFVAR(7)	VARIABLE INFORMATION	
48	(30)	CHARACTER	0	INFEND	END OF MAPPING MACRO	

Table 706. Cross Reference for INF

Name	Offset	Hex Tag
INFASCB	0	
INFBADDR	8	
INFBODY	4	
INFBRENT	11	80
INFCC	E	
INFCL	10	
INFEND	30	
INFFLG	11	
INFFRMN	11	40

INF mapping

Table 706. Cross Reference for INF (continued)

Name	Offset	Hex Tag
INFLIST	0	
INFTCB	4	
INFVAR	14	
INFVARCT	C	

Chapter 181. IOBE Information

IOBE Programming Interface Information

IOBE is a programming interface.

IOBE Heading Information

Common Name: Input/Output Block (IOB) Extension
Macro ID: IOSDIOBE
DSECT Name: IOSDIOBE
Owning Component: I/O Supervisor (SC1C3)
Eye-Catcher ID: IOBE
Offset: 0
Length: 4
Storage Attributes: Subpool: User
Key: User
Data Space: No
Residency: 31 Bit
Size: 48-bytes
Created by: Issuer of EXCP or STARTIO
Pointed to by: Register 0 at the time of the EXCP
IOSXIOBE for I/O drivers
Serialization: None
Function: An optional control block used by users of EXCP or of the I/O driver interface. It is used as a communication area between the user, IOS and device dependent code such as Error Recovery Procedures (ERPs). For I/O drivers, the IOBE is an extension of the IOSB extension (IOSBE) and is pointed to from the IOSBE via field IOSXIOBE. When the IOBE is used by EXCP users, the IOBE is pointed to by register 0 at entry to EXCP. EXCP then saves the address of the IOBE in the Request Queue Element (RQE).

IOBE mapping

Table 707. Structure IOBE

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IOBE	Input/Output Block Extension
0	(0)	CHARACTER	4	IOBEID	Eye catcher.
4	(4)	BITSTRING	1	IOBEVERS	Version number.
5	(5)	BITSTRING	1	IOBEFLG1	Flags field. The bits in this flag are reserved and are not part of the programming interface.
		1...		IOBESPAB	"X'80'" Suppress EXCP abends. The user requests to be posted back instead of getting abended with a completion code. (Only valid for E00 abends.)

IOBE mapping

Table 707. Structure IOBE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		IOBEREJDEVGRP	"X'40'" Reject the I/O request if the device is grouped to a remote system
		EQU X'3F' Reserved			
6	(6)	BITSTRING	1	IOBEFLG2	Flag field 2. The bits in this flag byte are intended for use by the issuer of EXCP to control the execution of the channel program
		1...		IOBEMIDA	"X'80'" This channel program uses MIDAWs.
		.1..		IOBEP	"X'40'" Prefetching of CCWs and data is allowed
		..1.		IOBECPNM	"X'20'" When set, channel program cannot be modified during execution, other than to add CCWs at the end
		...1		IOBEEIDA	"X'10'" 4K 8-Byte IDAWs
		.... 1..		IOBEP CIS	"X'08'" PCI Synchronization: Set on by I/O driver to indicate that the channel must synchronize after the next CCW following the the PCI (CCW+8) when prefetching (IOSP) is also set.
		.... .1..		IOBNORWS	"X'04'" No Read/Write Synchronization: Set on by I/O driver to indicate that the channel should not synchronize on read/write transitions when prefetching (IOSP) is also set. The driver insures that the read and writes are from different I/O buffers
		.... ..1.		IOB2CSWS	"X'02'" Two Channel Status Words: Set on by the I/O driver to indicate that when CCW prefetch is requested (IOSP), if an error occurs where the control unit executes ahead of the channel, two ending CCW addresses should be presented to the driver. The second ending CCW address is contained in the IEDB. If this bit is off, an invalid ending CCW address is simulated by IOS
		.... ...1		IOBEFMT1	"X'01'" Format-1 CCWs
7	(7)	BITSTRING	1	IOBEERPM	Mask indicating the functions the ERP is allowed to perform.
		1...		IOBEPMSG	"X'80'" The user allows basic ERP recovery plus the issuance of permanent error messages that do not require interaction with the system or an operator.

Table 707. Structure IOBE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		IOBEBPER	"X'40'" Bypass permanent error recovery. Indicates that if an error is permanent, the ERP will not issue an IOS000I message, log the error, or perform other actions that the ERP might normally do for a permanent error. The I/O driver may provide an alternate means of recovery.
		EQU X'20' Reserved			
		EQU X'10' Reserved			
		EQU X'08' Reserved			
		EQU X'04' Reserved			
		EQU X'02' Reserved			
		EQU X'01' Reserved			
8	(8)	ADDRESS	4	IOBEUPTR(0)	Pointer definition of the user reserved field.
8	(8)	CHARACTER	4	IOBEUSER	Character field reserved for the user's needs.
12	(C)	ADDRESS	4	IOBEIEDB	Address of an I/O Error Data Block (IOSDIEDB).
16	(10)	BITSTRING	1	IOBEFLG3	Flag byte 3
		1...		IOBENSER	"X'80'" Indicates that the device may bypass the channel program extent collision checking. Extent range enforcement will remain active. (DASD only)
		.1..		IOBENVAL	"X'40'" Indicates that the device is to bypass the validation checking of the parameters on Define Extent and Locate Record commands. Extent enforcement remains active. (DASD only)
		..1.		IOBEDSMC	"X'20'" Set ON by user to disable Streaming Mode Control for the current I/O operation.
		...1		IOBEIOT	"X'10'" When 0, IOBETIME only applies to active requests. When 1, IOBETIME applies to queued and active requests.
		.... 1...		IOBEDCWOFFSETVALID	"X'08'" The value in IOBEDCWOFFset is valid. Must be set to zero by the driver.
		.... .1..		IOBERESCOUNTVALID	"X'04'" The value in IOBEResCount is valid. Must be set to zero by the driver.
		.... ..1.		IOBEKEYFLDS0	"X'02'" Key fields contain zero
		.... ...1		IOBENOIL	"X'01'" For system use
17	(11)	CHARACTER	1	IOBESIOC	SIO condition code for format 1 EXCP/EXCPVR requests

IOBE mapping

Table 707. Structure IOBE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
18	(12)	BITSTRING	1	IOBETIME	Only honored when the DEB indicates the dataset was opened for input. When non-0, this is the maximum time value, in seconds, that the EXCP allows before an MIH condition is declared, regardless of the MIH setting for the device or whether MIH is is being bypassed. No message or logrec entry will be created when the condition occurs.
19	(13)	BITSTRING 1... ..	1	IOBEFLG4 IOBEZHFP	Flag byte 4 "X'80'" zHPF channel program - used for EXCPVR and EXCP virtual requests
20	(14)	BITSTRING	4	IOBERESCOUN	Residual count for FCX. Must be set to zero by the driver
24	(18)	BITSTRING	2	IOBEDCWOFFSET	Offset of the last executed DCW within the DCW list. Valid only when IOBEDCWOFFsetValid is on. Must be set to zero by the driver.
26	(1A)	BITSTRING	2	IOBEDDPC_DATA(0)	Device dependent program check data
26	(1A)	BITSTRING	1	IOBEDDPC_RC	Reason code
27	(1B)	BITSTRING	1	IOBEDDPC_RCQ	First byte of reason code qualifier information
28	(1C)	BITSTRING	1	IOBERCOD	I/O completion reason code for EXCPVR and EXCP requests
29	(1D)	BITSTRING	1	IOBESMMK	Software mirroring mask bits
30	(1E)	CHARACTER	14		Reserved
44	(2C)	ADDRESS	4	IOBECTKN	Pointer to I/O configuration token
44	(2C)	X'30'	0	IOBEEND	"*" End of IOBE.
44	(2C)	X'30'	0	IOBELNTH	"IOBEEND-IOBE" Length of IOBE.
44	(2C)	X'1'	0	IOBEVRSC	"1" Version number.

Table 708. Cross Reference for IOBE

Name	Offset	Hex Tag
IOBE	0	
IOBEBPER	7	40
IOBECPNM	6	20
IOBECTKN	2C	
IOBEDCWOFFSET	18	
IOBEDCWOFFSETVALID	10	8
IOBEDDPC_DATA	1A	
IOBEDDPC_RC	1A	
IOBEDDPC_RCQ	1B	
IOBEDSMC	10	20
IOBEEIDA	6	10
IOBEEND	2C	30

Table 708. Cross Reference for IOBE (continued)

Name	Offset	Hex Tag
IOBEERPM	7	
IOBEFLG1	5	
IOBEFLG2	6	
IOBEFLG3	10	
IOBEFLG4	13	
IOBEFMT1	6	1
IOBEID	0	
IOBEIEDB	C	
IOBEIOT	10	10
IOBEKEYFLDS0	10	2
IOBELNTH	2C	30
IOBEMIDA	6	80
IOBENOIL	10	1
IOBENSER	10	80
IOBENVAL	10	40
IOBEP	6	40
IOBEPCIS	6	8
IOBEPMSG	7	80
IOBERCOD	1C	
IOBEREJDEVGRP	5	40
IOBERESCOUNT	14	
IOBERESCOUNTVALID	10	4
IOBESIOC	11	
IOBESMMK	1D	
IOBESPAB	5	80
IOBETIME	12	
IOBEUPTR	8	
IOBEUSER	8	
IOBEVERS	4	
IOBEVRSC	2C	1
IOBEZHPP	13	80
IOBNORWS	6	4
IOB2CSWS	6	2

IOBE mapping

Chapter 182. IOCOM Information

IOCOM Programming Interface Information

ONLY the following fields are part of the programming interface information:

- IOCCSSID
- IOCDAOTH
- IOCEMW
- IOECIECAA
- IOCMCSS
- IOCOMWPT
- IOCPAVE

IOCOM Heading Information

Common Name: I/O Communication area
Macro ID: IECDIOCM
DSECT Name: IOCOM, IOCOMW
Owning Component: I/O Supervisor (SC1C3)
Eye-Catcher ID: IOCM
Offset: IOCOM-16
Length: 8

Storage Attributes: Main Storage: YES
Virtual Storage: n/a
Auxiliary Storage: n/a
Subpool: N/A - Nucleus resident
Key: 0
Residency: Below 16M

Size: See assembler listing.

Created by: IOSVDATA

Pointed to by: CVTIXAVL field of the CVT data area to the IOCOM data area
IOWIOCOM field of the IOWA data area to the IOCOM data area
IOCOMWPT field of the IOCOM data area to the IOCOM writable
IOWIOCMW field of the IOWA data area to the IOCOM writable
IOCOMEX field of the IOCOM data area to the IOCOM extension
IOCSYNCA field of the IOCOM data area to the IOS SYNCH table

Serialization: None for the readable portion of the IOCOM. The writeable portion of the IOCOM (IOCOMW), the IOCHTFLD, is serialized using CDS instruction.

Function: IOCOM contains addresses to IOS modules and control blocks.

IOCOM mapping

Table 709. Structure IOCOM

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IOCOM	
0	(0)	X'0'	0	IECIXAVL	"IOCOM" Compatibility name
0	(0)	DBL WORD	8	(0)	

IOCOM mapping

Table 709. Structure IOCOM (continued)

Offset	Offset					
Dec	Hex	Type	Len	Name(Dim)	Description	
0	(0)	SIGNED	2	IOCVOICT	Number of VOID entries *calculated by IEAIPL03	
2	(2)	SIGNED	2	IOCVOILN	Length of each VOID table entry	
4	(4)	ADDRESS	4	IOCPST	X'80000000'+IECPST Entry address of the IOS Post Status module	
8	(8)	ADDRESS	4	IOCOMWPT	"V" IECOMW Pointer to modifiable part of IOCOM	
12	(C)	ADDRESS	4	IOCSSCQ	X'80000000'+IOSVSSCQ Entry address for the STARTIO macro	
16	(10)	ADDRESS	4	IOCMAP	X'80000000'+IECVMAP Entry address of the IOSMAP routine	
20	(14)	ADDRESS	4	IOCSMFRR	X'80000000'+IOSVQFRR Address of IOQ Storage Manager FRR routine	
24	(18)	ADDRESS	4	IOCSCOMP	X'80000000'+IOSVSCOM Address of IOS Storage Manager SRB entry compress routine	
28	(1C)	ADDRESS	4	IOCSTIO	X'00000000'+IECVSTIO Entry address of the compatibility STARTIO macro	
32	(20)	ADDRESS	4	IOCVOID	"V" IECVOID Address of vector of IOS drivers	
36	(24)	ADDRESS	4	IOCIOSSM	X'80000000'+IOSVSMGR Start address of the IOS Storage Manager	
40	(28)	ADDRESS	4	IOC DIRB	"V" IOSVIRB Pointer to default error IRB	
44	(2C)	ADDRESS	4	IOCPRGID	X'80000000'+IOSPGRTM Purge Dequeue routine address	
48	(30)	ADDRESS	4	IOCCHRB	"V" IOSVCHRB Pointer to the channel recovery block (IOSDCHRB)	
52	(34)	ADDRESS	4	IOCISDT	"V" IOSVISDT Pointer to the interrupt subclass definition table	
56	(38)	ADDRESS	4	IOCSWAP	X'80000000'+IOSVSWAP Entry address of the SWAP device function	
60	(3C)	ADDRESS	4	IOC SHUP	X'80000000'+IOSVSHUP Entry address of the routine to check for device reservations.	
64	(40)	ADDRESS	4	IOCOMEX	IOSVIOCX Address of the IOCOM extension	
68	(44)	ADDRESS	4	IOCATTBL	"V" IOSVATTN Address of attention table	
72	(48)	ADDRESS	4	IOCSYNCA	"V" IOSVSYLK Address of the IOS Synchronization lock table	
76	(4C)	ADDRESS	4	IOCCNT	X'80000000'+IOSVCNT Entry address of the routine to count requests queued on a UCB	
80	(50)	ADDRESS	4	IOCHSCH	X'80000000'+IOSVHSCH Entry address of the Halt and Clear subchannel routine	
84	(54)	ADDRESS	4	IOCGENA	X'00000000'+IECVGENA Address of IOSGEN subroutine	

Table 709. Structure IOCOM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
88	(58)	ADDRESS	4	IOCMSCQ	X'80000000'+IOSVMSCQ Entry address of the Modify subchannel routine
92	(5C)	ADDRESS	4	IOCBHSPCI	X'80000000'+BHIP1PCI Entry address of the BHS PCI interface routine
96	(60)	ADDRESS	4	IOCSTSQ	X'80000000'+IOSVSTSQ Entry address of the Store subchannel routine
100	(64)	ADDRESS	4	IOCTCCW	X'00000000'+IECVTCCW Address of CCW translator
104	(68)	ADDRESS	4	IOCSVCF	X'80000000'+IGC015 Entry point of SVC F in the IOS Post Status module
108	(6C)	ADDRESS	4	IOCVARY	X'80000000'+IOSVVARY Entry address of the Vary routine
112	(70)	ADDRESS	4	IOCCNXL	X'80000000'+IOSVCNXL Entry address of the cancel request routine
116	(74)	ADDRESS	4	IOCQCNT	X'00000000'+IEVCQCNT Address of purge IPIB quiesce count decrement/post subroutine
120	(78)	ADDRESS	4	IOCASCB	"V" IEAMASCB ASCB used for scheduling
124	(7C)	ADDRESS	4	IOCNSTP	Address of the NIP SCHIB table. Set by IEAIPL03, reset by IEAVNP02.
128	(80)	ADDRESS	4	IOCIOWA	"V" IOSVIOWA Address of IOWA table
132	(84)	ADDRESS	2	IOCIOWEL	IOWEL Length of IOWA
134	(86)	ADDRESS	2	IOCSMGSZ	0 Size of processor related storage
136	(88)	ADDRESS	4	IOCCPRM	X'80000000'+IOSVCPRM Address of IOS Storage Manager initialization routine
140	(8C)	ADDRESS	4	IOCSCP	X'80000000'+IOSVSCP Entry address of the start channel-program service routine
144	(90)	ADDRESS	4	IOCSIOQC	X'80000000'+IOSVIOQC Entry address of the scan- IOQ-chain service routine
148	(94)	ADDRESS	4	IOCSDUMP	"V" IOSVDUMP Address of the IOS SDUMP parameter list
152	(98)	ADDRESS	4	IOCHCRS	X'80000000'+IOSVHCRS Address of Halt/Clear resource service routine to free resources tied to the associated start IOSB
156	(9C)	ADDRESS	4	IOCZTAB	"V" IOSVZTAB Address of module work area table
160	(A0)	ADDRESS	4	IOCSMHDR	"V" IOSVQHDR Pointer to IOS storage page pool header tables
164	(A4)	ADDRESS	4	IOCSMLG	X'80000000'+IOSVSMLG Address of IOS Storage Manager get large block entry

IOCOM mapping

Table 709. Structure IOCOM (continued)

Offset	Offset					
Dec	Hex	Type	Len	Name(Dim)	Description	
168	(A8)	ADDRESS	4	IOCSMLF	X'80000000'+IOSVSMFLF Address of IOS Storage Manager free large block entry	
172	(AC)	ADDRESS	4	IOCSMPF	X'80000000'+IOSVSMFPF Address of IOS Storage Manager purge/free entry	
176	(B0)	ADDRESS	4	IOCSMMG	X'80000000'+IECVSMMG Address of IOS Storage Manager EXCP get RQE (medium) block entry	
180	(B4)	ADDRESS	4	IOCSMMF	X'80000000'+IECVSMMF Address of IOS Storage Manager EXCP free RQE (medium) block entry	
184	(B8)	ADDRESS	4	IOCSMEG	X'80000000'+IECVSMEG Address of IOS Storage Manager EXCP get large block entry	
188	(BC)	ADDRESS	4	IOCSMEF	X'80000000'+IECVSMEF Address of IOS Storage Manager EXCP free large block entry	
192	(C0)	ADDRESS	4	IOCDPTH	X'80000000'+IECVDPATH Address of Dynamic Pathing module	
196	(C4)	ADDRESS	4	IOCLEVL	X'00000000'+IOSVLEVL Entry address of the IOS Level routine	
200	(C8)	ADDRESS	4	IOCRSUM	X'00000000'+IOSVRSUM Entry address of the Resume I/O routine	
204	(CC)	ADDRESS	4	IOCEXHDR	"V" IECVSHDR Pointer to EXCP storage page pool header tables	
208	(D0)	ADDRESS	4	IOCIOVTP	"V" IOVT Address of IOS Vector Table (IOVT)	
212	(D4)	ADDRESS	4	IOCDPSV	X'80000000'+IOSRDPSV DPS Validation	
216	(D8)	ADDRESS	4	IOCBIND	X'80000000'+IOSVBIND IOS PAV BIND Service	
220	(DC)	ADDRESS	4	IOCSMT	X'80000000'+IOSCSMT IOS SCMT services	
224	(E0)	ADDRESS	4	IOCCMB	X'80000000'+IOSVCMB IOS CMB Service	
228	(E4)	ADDRESS	4	IOCHSWP	X'80000000'+IOSVHSWP IOS Hyperswap Initiation Service	
232	(E8)	BITSTRING	1	IOCDDLVL	DDR Level. Initialized by IOS Storage Manager at NIP.	
233	(E9)	BITSTRING	3		Available	
236	(EC)	ADDRESS	4	IOCCSTK	X'80000000'+IOSVCSTK IOS CPU Stack Service	
240	(F0)	ADDRESS	4	IOCFBND	X'80000000'+IOSVFBND IOS Fast BIND Service	
244	(F4)	ADDRESS	4	IOCRSV4(6)	Reserved	
268	(10C)	ADDRESS	4	IOCLVTBL	"V" IOSVLVTB Pointer to the IOS level table	
272	(110)	BITSTRING	1	IOCFLAGS	IOCOM flag and ID byte	
		1... ..		IOCSINTC	"X'80'" IEAVNP02 subchannel initialization complete (set by IEAVNP02)	

Table 709. Structure IOCOM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		IOCIODF	"X'40'" IPL sets on if the IODF IPL path was used.
		..1.		IOCCRWE	"X'20'" IEAVNP02 sets on when enabling for CRWs.
		...1		IOCPAVS	"X'10'" PAVs are supported
		.... 1..		IOCEMW	"X'08'" Extended I/O measurement word facility is enabled
		.... .1..		IOCMCSS	"X'04'" The multiple channel subsystem (MCSS) facility is supported by the hardware
272	(110)	X'110'	0	IOCHSSID	"IOCFLAGS+0,1" Highest subchannel set ID in use (bits 6-7)
273	(111)	BITSTRING	1	IOCQSCLV	Quiesce level. Initialized by IOS Storage Manager at NIP time
274	(112)	BITSTRING.... ...1	1	IOCIOQVR IOCIOQV1	IOQ Version number "X'01'" IOQ Version 1. The IOQ has 92 bytes workarea for the device dependent exits
275	(113)	BITSTRING	1	IOCCSSID	Default channel subsystem id for this logical partition
276	(114)	ADDRESS	4	IOCIOQSQ	"V" IOSVIOSQ Address of IOS Storage Manager IOQ staging queue table
280	(118)	ADDRESS	4	IOCFDEV	X'80000000'+IOSRFDEV Address of force device SRB routine
284	(11C)	ADDRESS	4	IOCACRW	X'80000000'+IOSRACRW Address of asynchronous CRW processor
288	(120)	ADDRESS	4	IOCHIDT	"V" IOSRHIDT Address of the Hot I/O detection table
292	(124)	ADDRESS	4	IOCSCHNO	IECVGENA+X'0000001C' Address of the Subchannel number service routine in IECVGENA
296	(128)	ADDRESS	4	IOCIPIID	IOSVIPID Address of the I/O prevention identifier service routine- IOSVIPID
300	(12C)	ADDRESS	4	IOCPRVT	IOSVPRVT Address of the I/O Prevention service routine - IOSVPRVT
304	(130)	ADDRESS	4	IOCURGC	IOSPURGC Address of the branch entry - IOSPURGC.
308	(134)	ADDRESS	4	IOCRERPT	Address of the resident ERP - table. (valid if IOCIODF is off)
312	(138)	ADDRESS	4	IOCCDTSR	X'80000000'+IOSCCDT Address of configuration data table service routine
316	(13C)	ADDRESS	4	IOCCUIR	X'80000000'+IOSVCUIR Address of CUIR service routine
320	(140)	ADDRESS	4	IOCSLFD	X'80000000'+IOSVSLFD Address of self description service routine
324	(144)	ADDRESS	4	IOCSLFI	X'80000000'+IOSVSLFI Address of self description initialization routine
328	(148)	ADDRESS	4	IOCIMSGA	X'80000000'+IMSGARRY Address of IOS message array

IOCOM mapping

Table 709. Structure IOCOM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
332	(14C)	ADDRESS	4	IOCMIHQ	X'80000000'+IOSVMIHQ Address of the MIH query service routine
336	(150)	ADDRESS	4	IOCMANI	X'80000000'+IOSVMANI Address of the IOS manual intervention service routine
340	(154)	ADDRESS	4	IOCCSCM	X'80000000'+IOSRCSCM Address of CSCM service routine
344	(158)	ADDRESS	4	IOCBHICT	X'80000000'+BHIT2RCD Address of BHI CTrace non BHIHSRV entry point
344	(158)	X'15C'	0	IOCOEND	"*" End of the read only section of the IOCOM

Table 710. Structure IOCOMW

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IOCOMW	Modifiable part of IOCOM
0	(0)	DBL WORD	8	(0)	
(Addressed by IOCOMWPT)					
0	(0)	CHARACTER	4	IOCIOCW	Acronym for modifiable section of the IOCOM ('IOCW')
4	(4)	ADDRESS	2	IOCLENW	Length of the modifiable section of the IOCOM
6	(6)	SIGNED	2	IOCPGCT	Number of active I/O purges
8	(8)	DBL WORD	8	IOCHTFLD(0)	
8	(8)	ADDRESS	4	IOCSLIH	X'80000000'+IOSVSLIH Pointer to the second level interrupt handler or the IOS interrupt trap routine. This field will also have an external label of IECSLIHA.
12	(C)	SIGNED	4	IOCHOTCT	Count of Hot Devices. If this field is not zero, IOCSLIH will point to the HOT I/O SLIH
16	(10)	ADDRESS	4	IOCMIHCA	MIHATBLE Address of the MIH work area. Prior to MIH initialization the first two bytes of the MIH work area are set to blanks. After MIH initialization, these two bytes are set to **.
20	(14)	ADDRESS	4	IOCIOPTA	Address of the I/O Prevention table (IOPT).
24	(18)	SIGNED	2	IOCIOPTC	Count of the number of IOPT table entries.
26	(1A)	SIGNED	2	IOCSSCBT	SSCB token updated everytime an SSCB is added or deleted from theCDT SSCB chain. This allows services like SSCBSCAN to check for SSCB changes.
28	(1C)	ADDRESS	4	IOCCDT	Pointer to configuration data table

Table 710. Structure IOCOMW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
32	(20)	ADDRESS	4	IOCCPAT	Pointer to channel path attribute table
36	(24)	ADDRESS	4	IOCCUIRQ	Pointer to CUIR request queue
40	(28)	SIGNED	4	IOCSLFCT	Counter used during self description initialization to keep track of the number of devices being initialized
44	(2C)	ADDRESS	1	IOCFLAG2	Flag byte. Note: IOCIOSHSWAP is initialized to '1'b and is never reset.
		1...		IOCSLFSD	"X'80" Indicates that scan of UCBs during self description initialization is done
		.1..		IOCCDTIN	"X'40" Indicates that CDT is initialized
		..1.		IOCCULA	"X'20" Indicates that the CULAs are initialized
		...1		IOCUPCDS	"X'10" If ON, indicates that IOS record in the couple dataset has been updated.
		.... 1...		IOCGDPSHSWAP2	"X'08" If ON, indicates that the GDPS Hyperswap Stage II environment exists, including: - Unplanned outage support - Recognition of ENF-63 as a trigger Specifically, this bit is on when the HS API address space is up and has a configuration.
		.... .1..		IOCDATH	"X'04" If ON, indicates that the "Device Active Only" time in the CMB is supported by the hardware
		.... ..1.		IOCIOSHSWAP	"X'02" If ON, indicates that the IOS Hyperswap environment exists
		.... ...1		IOCGDPSHSWAP	"X'01" If ON, indicates that the GDPS Hyperswap environment exists and is available
45	(2D)	ADDRESS	1	IOCFLAG3	Flag byte. Note: IOCODS and IOCPREFPATHS are initialized to '1'b and never reset
		1...		IOCODS	"X'80" Offline Device Services are supported
		.1..		IOCDPINC	"X'40" If ON, indicates that dynamic pathing initialization processing is complete for all online devices. (set by IECVIOSI)
		..1.		IOCJES3HSWAP	"X'20" If ON, indicates that JES3 supports hyperswaps (Set by JES3).
		...1		IOCPREFPATHS	"X'10" If ON, preferred pathing is supported by IOS.

IOCOM mapping

Table 710. Structure IOCOMW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		IOCGDPSIOT	"X'08" If ON, indicates that GDPS supports the IO Timing trigger for HyperSwap
		.... .1..		IOGINBAND	"X'04" If ON, indicates that in-band Key management is preferred
		.... ..1.		IOCGDPSHWPACT	"X'02" If ON, indicates that a HyperSwap is in the process of being performed
		.... ...1		IOCGDPSHWPCLN	"X'01" If ON, indicates that HyperSwap is in the process of post swap cleanup
46	(2E)	BITSTRING	2		Reserved
48	(30)	ADDRESS	4	IOCPURGQ	Anchor for global queue of Purge Quiesce IPIBs. Serialized via the IOSYNCH lock.
52	(34)	ADDRESS	4	IOCPAVE	"V(PAVE)" Anchor for PAV Exit Table
56	(38)	ADDRESS	4	IOICIECA	"V(IECA)" Address of IOS Extended Communication Area
60	(3C)	SIGNED	4	IOCCADSALET	CADS Alet
64	(40)	SIGNED	4	IOCFLAG4(0)	Flag Word
64	(40)	BITSTRING	1	IOCFLG4A	Flag Byte
		1...		IOCHPAV	"X'80" On, HYPERPAV=YES
		.1..		IOCHPBO	"X'40" On, HYPERPAV=BASEONLY
		..1.		IOCHPAVD	"X'20" On, at least one LSS is in HYPERPAV mode
		...1		IOCZHPFIL	"X'10" zHPF incorrect length support provided by the processor
		.... 1...		IOCSWAPMGRSETSSYSANHSWAP	"X'08" 0-There is no hyperswap manager or the hyperswap manager does not support the IOCSysCanHyperSwap flag 1-The hyperswap manager supports the IOCSysCanHyperSwap flag
		.... .1..		IOCSYSTEMCANHYPERSWAP	"X'04" 0-The sysplex and/or this system is currently not enabled for hyperswap 1-The sysplex and this system are currently enabled for hyperswap
65	(41)	BITSTRING	3		Reserved
68	(44)	ADDRESS	4	IOC_BHS_CSMARRAY@	Address of the BHS CsmArray
72	(48)	BITSTRING	4		Reserved
72	(48)	X'4C'	0	IOCENDW	"*" End of the modifiable section of the IOCOM

Table 711. Cross Reference for IOCOM

Name	Offset	Hex Tag
IECIXAVL	0	0
IOC_BHS_CSMARRAY@	44	
IOCACRW	11C	
IOCASCB	78	

Table 711. Cross Reference for IOCOM (continued)

Name	Offset	Hex Tag
IOCATTBL	44	
IOCBHICT	158	
IOCBHSPCI	5C	
IOCBIND	D8	
IOCCADSALET	3C	
IOCCDT	1C	
IOCCDTIN	2C	40
IOCCDTSR	138	
IOCCHRB	30	
IOCCMB	E0	
IOCCNT	4C	
IOCCNXL	70	
IOCCPAT	20	
IOCCPRM	88	
IOCCRWE	110	20
IOCCSCM	154	
IOCCSSID	113	
IOCCSTK	EC	
IOCCUIR	13C	
IOCCUIRQ	24	
IOCCULA	2C	20
IOCDAOTH	2C	4
IOCDRLV	E8	
IOCDIRB	28	
IOCDPINC	2D	40
IOCDPSV	D4	
IOCDPTH	C0	
IOCEMW	110	8
IOCENDW	48	4C
IOEXHDR	CC	
IOCFBND	F0	
IOCFDEV	118	
IOCFLAGS	110	
IOCFLAG2	2C	
IOCFLAG3	2D	
IOCFLAG4	40	
IOCFLG4A	40	
IOCGDPSHSWAP	2C	1
IOCGDPSHSWAP2	2C	8
IOCGDPSHSWPACT	2D	2
IOCGDPSHSWPCLN	2D	1
IOCGDPSIOT	2D	8
IOCGENA	54	
IOCHCRS	98	
IOCHIDT	120	
IOCHOTCT	C	
IOCHPAV	40	80
IOCHPAVD	40	20
IOCHPBO	40	40

IOCOM mapping

Table 711. Cross Reference for IOCOM (continued)

Name	Offset	Hex Tag
IOCHSCH	50	
IOCHSSID	110	110
IOCHSWP	E4	
IOCHTFLD	8	
IOCIECAA	38	
IOCIMSGA	148	
IOCINBAND	2D	4
IOCIOCW	0	
IOCIODF	110	40
IOCIOPTA	14	
IOCIOPTC	18	
IOCIOQSQ	114	
IOCIOQVR	112	
IOCIOQV1	112	1
IOCIOSHSWAP	2C	2
IOCIOSSM	24	
IOCIOVTP	D0	
IOCIOWA	80	
IOCIOWEL	84	
IOCIPIID	128	
IOCISDT	34	
IOCJES3HSWAP	2D	20
IOCLENW	4	
IOCLEVL	C4	
IOCLVTBL	10C	
IOCMANI	150	
IOCMAP	10	
IOCMCSS	110	4
IOCMIHCA	10	
IOCMIHQ	14C	
IOCMSCQ	58	
IOCNSTP	7C	
IOCODS	2D	80
IOCOEND	158	15C
IOCOM	0	
IOCOMEX	40	
IOCOMW	0	
IOCOMWPT	8	
IOCPAVE	34	
IOCPAVS	110	10
IOCPGCT	6	
IOCPREFPATHS	2D	10
IOCPRGID	2C	
IOCPRVT	12C	
IOCPST	4	
IOCPURGQ	30	
IOQCNT	74	
IOQSCLV	111	
IOCRERPT	134	

Table 711. Cross Reference for IOCOM (continued)

Name	Offset	Hex Tag
IOCRSUM	C8	
IOCRSV4	F4	
IOCSCHNO	124	
IOCSMT	DC	
IOSCOMP	18	
IOSCP	8C	
IOCDUMP	94	
IOCSHUP	3C	
IOCSINTC	110	80
IOCSIOQC	90	
IOCSLFCT	28	
IOCSLFD	140	
IOCSLFI	144	
IOCSLFSD	2C	80
IOCSLIH	8	
IOCSMEF	BC	
IOCSMEG	B8	
IOCSMFRR	14	
IOCSMGSZ	86	
IOCSMHDR	A0	
IOCSMLF	A8	
IOCSMLG	A4	
IOCSMMF	B4	
IOCSMMG	B0	
IOCSMPF	AC	
IOCSSCBT	1A	
IOSSCQ	C	
IOCSTIO	1C	
IOCSTSQ	60	
IOCSVCF	68	
IOCSWAP	38	
IOCSWAPMGRSETSSYSANHSWAP	40	8
IOCSYNCA	48	
IOCSYSTEMCANHYPERSWAP	40	4
IOCTCCW	64	
IOCUPCDS	2C	10
IOCURGC	130	
IOCVARY	6C	
IOCVOICT	0	
IOCVOID	20	
IOCVOILN	2	
IOZHPFIL	40	10
IOZTAB	9C	

IOCOM mapping

Chapter 183. IOQ Information

IOQ Heading Information

Common Name: IOS Queue Element
 Macro ID: IECDIOQ
 DSECT Name: IOQ and IOQE
 Owning Component: I/O Supervisor (SC1C3)
 Eye-Catcher ID: IOQ
 Offset: 0
 Length: 4
 Storage Attributes: Main Storage: YES
 Virtual Storage: n/a
 Auxiliary Storage: n/a
 Subpool: 226
 Key: 0
 Residency: Below the 16M line
 Size: 128 bytes
 Created by: IOS
 Pointed to by: IOQCHAIN field of the IOQ data area (next IOQ)
 UCBIOQ field of the IOQ data area
 UCBIOQF field of the UCB data area
 UCBIOQL field of the UCB data area.
 Serialization: The respective UCB lock for queuing and dequeuing IOQs on the UCB IOQ chain.
 Function: Provides a queuing element necessary to enqueue and dequeue I/O requests on a UCB Queue. Contains the prefix CCWs associated with callers channel program.

IOQ mapping

Table 712. Structure

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

Table 713. Structure IOQ

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IOQ	
0	(0)	DBL WORD	8	(0)	Align on double word
0	(0)	CHARACTER	4	IOQID	Control block ID ('IOQ')
4	(4)	CHARACTER	124	IOQIOS(0)	Area used by IOS
4	(4)	CHARACTER	28	IOQIOS1(0)	IOS area 1
4	(4)	ADDRESS	4	IOQCHAIN	Points to next IOQ on UCB chain
8	(8)	ADDRESS	4	IOQIOSB	Address of IOSB associated with the I/O request
12	(C)	ADDRESS	4	IOQSTART	Address of the routine which will start the I/O request (SSCH, STSCH, MSCH or others)
16	(10)	BITSTRING	4	IOQFLAGS	IOS internal flags

IOQ mapping

Table 713. Structure IOQ (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
16	(10)	BITSTRING	1	IOQFLA	IOQ activity flag byte - Byte needs to be zeroed on IOQ initialization or reuse.
		1... ..		IOQACTV	"X'80'" ..IOQ active with an I/O request
		.1.. ..		IOQMERGE	"X'40'" ..Merge the device end status with the IOSB status.
		..1.		IOQPRVT	"X'20'" ..This I/O request contains an IOPID (I/O Prevention Identifier) in IOSB
		...1		IOQWLM	"X'10'" ..This I/O request running with system in goal mode
		.... 1...		IOQIMEX	"X'08'" ..This I/O request is allowed by IOS to be executed immediately.
		.... .1..		IOQSKIP	"X'04'" ..This IOQ has been marked as permanently bypassed by IOS. The control blocks associated with this request could not be validated
17	(11)	BITSTRING	1	IOQPRFXO	Offset of channel program prefix set by SIO exit
18	(12)	BITSTRING	1	IOQPRI	I/O Priority value
		1111 1111		IOQHIPRI	"X'FF'" ..Highest priority that can be assigned to an I/O
19	(13)	BITSTRING	1	IOQTYPE	Type of operation this IOQ represents.
		.... ....		IOQSTRT	"X'00'" ..Start Subchannel request
		.... ...1		IOQSNS	"X'01'" ..Sense request
		.... ..1.		IOQHLT	"X'02'" ..Halt Subchannel request
		.... ..11		IOQCLR	"X'03'" ..Clear Subchannel request
		.... .1..		IOQSTOR	"X'04'" ..Store Subchannel request
		.... .1.1		IOQMDFY	"X'05'" ..Modify Subchannel request
		.... .11.		IOQST1	"X'06'" ..Subchannel type 1 request
		.... .111		IOQINCPT	"X'07'" ..Intercept condition request
		.... 1...		IOQINTER	"X'08'" ..Interrogate request
20	(14)	ADDRESS	4	IOQAIOQ	Address of IOQ associated with this request- Halt and Clear requests
24	(18)	ADDRESS	4	IOQUCB	Address of the common segment of the UCB this request is queued on
28	(1C)	BITSTRING	2	IOQASID	ASID with which this request is associated
30	(1E)	BITSTRING	1	IOQCSSPR	Channel subsystem priority
31	(1F)	CHARACTER	1		Reserved

Table 713. Structure IOQ (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
32	(20)	CHARACTER	4	IOQIOS2(0)	IOQ area 2, this area should not be initialized to zero
32	(20)	ADDRESS	4	IOQEPTR	Address of IOQ Extension
36	(24)	CHARACTER	92	IOQIOS3(0)	IOS area 3
36	(24)	BITSTRING	92	IOQDDTWT(0)	Work area for device support code
36	(24)	BITSTRING	92	IOQ_NON_FCX_FORMAT(0)	Non-FCX Format IOQ
36	(24)	CHARACTER	12		Reserved -
48	(30)	DBL WORD	8	IOQSNCCW(0)	Sense CCW
48	(30)	BITSTRING	64	IOQDDTWA(0)	Workarea for DDT exit usage. The first 8 bytes are used for Sense CCW.
48	(30)	BITSTRING	32		Sense CCW and reserved space
80	(50)	BITSTRING	32	IOQIRB	Save area for first 32-bytes of original IRB during IOS sense processing
112	(70)	CHARACTER	12		Reserved for IOS use- initialize to zeros
124	(7C)	BITSTRING	4	IOQDDTW2	Additional area for DDT exit usage
36	(24)	BITSTRING	92	IOQ_FCX_FORMAT(0)	FCX Format IOQ
36	(24)	BITSTRING	28		
64	(40)	BITSTRING	64	IOQTCW	Transport Control Word (on a 64-byte boundary)
64	(40)	X'80'	0	IOQLEN	"*-IOQ" Length of IOQ

Table 714. Structure IOQE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IOQE	
0	(0)	DBL WORD	8	(0)	Align on double word
0	(0)	BITSTRING	80	IOQEXT(0)	IOQ extension
0	(0)	CHARACTER	4	IOQEID	Control block ID ('IOQE')
4	(4)	BITSTRING	12	IOQMAREA(0)	IOQ Storage Manager area
4	(4)	ADDRESS	4	IOQSMGFP	IOQ primary queue forward pointer
8	(8)	ADDRESS	4	IOQSMGBP	IOQ primary queue backward pointer
12	(C)	ADDRESS	4	IOQSMGSQ	. IOQ staging queue address
16	(10)	BITSTRING	44	IOQEIOS(0)	Area used by IOS
16	(10)	BITSTRING	8	IOQSMGR(0)	IOQ Storage Manager header area with free chain queue word
16	(10)	ADDRESS	4	IOQSMGFQ	IOQ SMGR free chain queue word
20	(14)	BITSTRING	4	IOQSMHDR(0)	IOQ Storage Manager Header area
20	(14)	BITSTRING	4	IOQSMGH1(0)	
20	(14)	BITSTRING	2	IOQSMRV1	. Reserved - Initialize to zeros
22	(16)	BITSTRING	1	IOQSMRV2	. Reserved - Initialize to zeros
23	(17)	BITSTRING	1	IOQSMGAL	. IOQ allocation indication byte
		..11 11..		IOQALLOC	"X'3C'" IOQ allocated indicator
		..1. ..1.		IOQDORMT	"X'22'" IOQ is on the IOQ storage manager dormant queue

IOQ mapping

Table 714. Structure IOQE (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
24	(18)	BITSTRING		2	IOQIOTCT	I/O timing count from when I/O request was placed on IOQ queue
26	(1A)	BITSTRING		2	IOQMIHCT	MIH time count from when I/O request was started
28	(1C)	CHARACTER		1	IOQMIHSF	MIH IOQ sequence usage field
29	(1D)	BITSTRING		1	IOQEFLAG	IOQ Extension Flags
			1... ..		IOQIOTQS	"X'80'" ..Quiesce IO Timing for HyperSwap
			.1.. ..		IOQENPFX	"X'40'" No prefix command could be inserted for this I/O
			..1.		IOQELKNA	"X'20'" Lock was not available at least one time (UCBLOCK)
			...1		IOQBYPINTG	"X'10'" Bypass interrogate processing for this I/O request
			.... 1...		IOQFORCERCYV	"X'08'" A problem with user I/O control blocks occurred. IOS sets this flag to force MIH to provide IOQ recovery.
			.... .1..		IOQECAPTURED	"X'04'" The UCB is captured
			.... ..1.		IOQEWPUK	"X'02'" When on indicates to provide a unit check when this I/O is to be delayed
			.... ...1		IOQETID	"X'01'" Throttle-induced delay has been imposed for this I/O
30	(1E)	BITSTRING		1	IOQEQPRI	Priority at which this IOQ is queued to the SSCB identified in IOQESSCB
31	(1F)	BITSTRING		1	IOQEFIOPR	Fabric I/O Priority
32	(20)	CHARACTER		8	IOQENCLV	Enclave token
40	(28)	ADDRESS		4	IOQORBUA	Address of UCB used for the SSCH operation. Will always contain an Actual UCB Common Segment address. May Contain an alias UCB address.
44	(2C)	ADDRESS		4	IOQESSCB	Address of the SSCB to which the IOQ is currently queued.
48	(30)	ADDRESS		4	IOQESSFP	Forward IOQ pointer when queued to an SSCB.
52	(34)	ADDRESS		4	IOQESSBP	Backward IOQ pointer when queued to an SSCB.
56	(38)	BITSTRING		2	IOQEIOMS	I/O management support data
			.111		IOQE_IMPORTANCE	"X'70'" Importance level of IO
58	(3A)	CHARACTER		2		Reserved
60	(3C)	ADDRESS		4	IOQEIOQX	IOQX pointer, or zero
64	(40)	CHARACTER		8	IOQEQUEUETIME	The time the IOQ was queued
72	(48)	CHARACTER		8		Reserved
72	(48)	X'50'		0	IOQELEN	"*-IOQE" Length of IOQE

Table 715. Cross Reference for IOQ

Name	Offset	Hex Tag
IOQ	0	
IOQ_FCX_FORMAT	24	

Table 715. Cross Reference for IOQ (continued)

Name	Offset	Hex Tag
IOQ_NON_FCX_FORMAT	24	
IOQACTV	10	80
IOQAIQ	14	
IOQALLOC	17	3C
IOQASID	1C	
IOQBYPINTG	1D	10
IOQCHAIN	4	
IOQCLR	13	3
IOQCSSPR	1E	
IOQDDTWA	30	
IOQDDTWT	24	
IOQDDTW2	7C	
IOQDORMT	17	22
IOQE	0	
IOQE_IMPORTANCE	38	70
IOQECAPTURED	1D	4
IOQEFIOPR	1F	
IOQEFLAG	1D	
IOQEID	0	
IOQEIOMS	38	
IOQEIOQX	3C	
IOQEIOS	10	
IOQELEN	48	50
IOQELKNA	1D	20
IOQENCLV	20	
IOQENPFX	1D	40
IOQEPTR	20	
IOQEQPRI	1E	
IOEQQUEUEETIME	40	
IOQESSBP	34	
IOQESSCB	2C	
IOQESSFP	30	
IOQETID	1D	1
IOQEWPU	1D	2
IOQEXT	0	
IOQFLA	10	
IOQFLAGS	10	
IOQFORCERCY	1D	8
IOQHIPRI	12	FF
IOQHLT	13	2
IOQID	0	
IOQIMEX	10	8
IOQINCPT	13	7
IOQINTER	13	8
IOQIOS	4	
IOQIOSB	8	
IOQIOS1	4	
IOQIOS2	20	
IOQIOS3	24	

IOQ mapping

Table 715. Cross Reference for IOQ (continued)

Name	Offset	Hex Tag
IOQIOTCT	18	
IOQIOTQS	1D	80
IOQIRB	50	
IOQLEN	40	80
IOQMAREA	4	
IOQMDFY	13	5
IOQMERGE	10	40
IOQMIHCT	1A	
IOQMIHSF	1C	
IOQORBUA	28	
IOQPRFX0	11	
IOQPRI	12	
IOQPRVT	10	20
IOQSKIP	10	4
IOQSMGAL	17	
IOQSMGBP	8	
IOQSMGFP	4	
IOQSMGFQ	10	
IOQSMGH1	14	
IOQSMGR	10	
IOQSMGSQ	C	
IOQSMHDR	14	
IOQSMRV1	14	
IOQSMRV2	16	
IOQSNCCW	30	
IOQSNS	13	1
IOQSTART	C	
IOQSTOR	13	4
IOQSTRT	13	0
IOQST1	13	6
IOQTCW	40	
IOQTYPE	13	
IOQUCB	18	
IOQWLM	10	10

Chapter 184. IORB Information

IORB Heading Information

Common Name: Input/Output Request Block
 Macro ID: ILRIORB
 DSECT Name: IORB
 Owing Component: Auxiliary Storage Manager (SC1CW)
 Eye-Catcher ID: None
 Storage Attributes: Virtual Storage: YES
 Subpool: 245
 Key: 0
 Data Space: NO
 Residency: Above 16 Megabytes virtual
 Size: 64 Bytes
 Created by: ILROPS00
 Pointed to by: PAREIORB field of the PARTE data area
 SREIORB field of the SARTE data area
 IORIORB field of the IORB data area
 PCCWIORB field of the PCCW data area
 Serialization: The IORB is serialized via the in-use flag,
 IORFUSE, which is "on" when the IORB is in use.
 Function: Used by ASM to track I/O requests. It contains a
 pointer to a save area for IOS to use, as well as
 pointers to other control blocks.

IORB mapping

Table 716. Structure IORB

Offset	Offset		Len	Name(Dim)	Description
Dec	Hex	Type			
0	(0)	STRUCTURE	64	IORB	I/O Request Block
0	(0)	CHARACTER	1	IORID	IORB identifier X'88'
1	(1)	UNSIGNED	1	IORNUM	Number of IORBs for this page data set
2	(2)	UNSIGNED	1	IORRTRY	Retry Count
3	(3)	BITSTRING	1	IORFLGS	Internal flags
		1...		IORFUSE	X'80' = IORB in use
		.1..		IORFRPS	X'40' = RPS device
		..1.		IORSCMRQ	x'20' = IORB for SCM
		...1		IORSCMAIDAW	x'10' = AIDAWs used for active/last STARTIO
		.... 1...		*	Reserved
		.... .111		IORAPND	Appendage flags
		.... .1..		IORFDI	DIE completed
		.... ..1.		IORFNE	Normal end completed flag
		.... ...1		IORFAE	Abnormal end completed flag
4	(4)	ADDRESS	4	IORIORB	Pointer to next IORB
8	(8)	CHARACTER	4	IORQPTR	PCCW or AIA ptr
8	(8)	ADDRESS	4	IORPCCW	Pointer to first PCCW
8	(8)	ADDRESS	4	IOEAOB	Pointer operation block
12	(C)	ADDRESS	4	IORIOSB	IOSB address

IORB mapping

Table 716. Structure IORB (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
16	(10)	ADDRESS		4	IORSAVE	Pointer to 18-word save area
20	(14)	ADDRESS		4	IORERR	Pointer to PCCW in error
20	(14)	ADDRESS		4	IORAIDAW	Pointer to AIDAW
24	(18)	CHARACTER		8	IORTSMP	TOD clock timestamp
32	(20)	ADDRESS		4	IORPARTE	Pointer to PARTE
36	(24)	SIGNED		4	IORTREQ	Number of pages transferred using this IORB
40	(28)	SIGNED		4	IORSION	Number of STARTIOs and resumes issued using this IORB
44	(2C)	ADDRESS		4	IORNOP	Pointer to the last CCW in the channel program
48	(30)	ADDRESS		4	IORESRBP	Pointer to the SRB used by the resume service
52	(34)	SIGNED		4	IORRQSZ	Number of AIAs outstanding on this IORB
56	(38)	ADDRESS		4	IORAIAQF	Ptr to 1st AIA
60	(3C)	ADDRESS		4	IORAIAQL	Ptr to last AIA
64	(40)	CHARACTER		0	*	

Table 717. Constants for IORB

Len	Type	Value	Name	Description
1	DECIMAL	5	IORMAXRETRIES	Max retry count

Table 718. Cross Reference for IORB

Name	Offset	Hex Tag
IORAIAQF	38	
IORAIAQL	3C	
IORAIDAW	14	
IORAPND	3	07
IORB	0	
IOREAOB	8	
IORERR	14	
IORFAE	3	01
IORFDI	3	04
IORFLGS	3	
IORFNE	3	02
IORFRPS	3	40
IORFUSE	3	80
IORID	0	
IORIORB	4	
IORIOSB	C	
IORNOP	2C	
IORNUM	1	
IORPARTE	20	
IORPCCW	8	
IORQPTR	8	
IORRQSZ	34	
IORRTRY	2	

Table 718. Cross Reference for IORB (continued)

Name	Offset	Hex Tag
IORSAVE	10	
IORSCMAIDAW	3	10
IORSCMRQ	3	20
IORSION	28	
IORSRBP	30	
IORTREQ	24	
IORTSMP	18	

IORB mapping

Chapter 185. IOSB Information

IOSB Heading Information

Common Name: IOS (I/O Supervisor) Block
 Macro ID: IECDIOSB
 DSECT Name: IOSB
 Owning Component: I/O Supervisor (SC1C3)
 Eye-Catcher ID: IOSB, if IOSB extension exists
 Offset: 06C
 Length: 4 Bytes

Storage Attributes: Subpool: Any subpool that satisfies fixed global storage attributes. Subpool 245 or 226 when obtained from the IOS storage manager.
 Key: 0
 Residency: Below the 16M line when obtained from the IOS storage manager.
 Other IOS drivers could obtain the IOSB from either below or above the 16M line.

Size: 108 bytes for basic IOSB.
 44 bytes for an in-line extension (optional).

Created by: User of the STARTIO service
 Pointed to by: IOQIOSB of IECDIOQ
 SRBPARM of IHASRB
 RQESRB field of the RQE data area

Serialization: None

Function: The IOSB contains all the information needed to process an I/O request through the I/O initiation and completion. It is used to communicate between the I/O supervisor and the requestor of an I/O service, between the I/O supervisor and an error-recovery procedure, between an ERP and write-to-operator and statistics-update modules, and among the components of the I/O supervisor. It is also used to control successive entries from the I/O supervisor to an ERP.

IOSB mapping

Table 719. Structure IOSB

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	156	IOSB	
0	(0)	CHARACTER	108	IOSBSTD	IOSB Standard- includes the modify and store services IOSB size.
0	(0)	CHARACTER	1	IOSFLA	Flag byte A---
		11..		IOSACHN	Command & Data chaining
		1...		IOSDCHN	Data chaining
		.1..		IOSCCHN	Command chaining

IOSB mapping

Table 719. Structure IO SB (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
		..1.	....		IOSERR	Error routine procedure (ERP) in control. Bit must be initially set to zero by driver. If ERP returns with this bit set to a 1, a retry is assumed. If the ERP returns with the bit set to 0, the error is considered permanent or corrected depending on the setting of the IOSEX bit.
		...1	....		IOSSMDA	ERP status modifier bit A. Must be zeroed by driver. TAPE - Reposition device. U/R - Immediate operation, CCW OP code in IOSMDB.
		....	1...		IOSSMDB	ERP status modifier bit B. Must be zeroed by driver. Set by fetch in exit for posting. TAPE-CRC needed. DASD- PCI fetch stop flag.
		....	.1..		IOSEX	Exceptional condition. Upon return from normal or abnormal exit with this bit set to a 1, ERP processing is initiated if initial error condition. If bit is set to 0, it is assumed that the exit corrected the condition or did not consider it an error. When the ERP returns with this bit set to a 1 and the IOSERR bit set to 0, the error is considered permanent. When the ERP returns with this bit set to a 1, the error has been corrected.
		....	..1.		IOSDOM	DOM macro required.
		....	...1		IOSIOSB	IOS generated IO SB and obtained from the IOS storage manager.
1	(1)	CHARACTER		1	IOSFLB	Flag byte B
		1...	....		IOSDIESE	Second entry to DIE
		.1..	....		IOSSDR	ERP doesnt want OBR
		..1.	....		IOSNOTRS	Driver does not require an address space switch on entry to DIE.
		...1	....		IOSRESRC	IOS resources are held. Must be initialized to zero by driver. With bit set, the drivers DIE cannot return on codes 12 or 16.
		....	1...		IOSIONRD	Set by a driver to request that the I/O request be issued to a not-ready device.
		....	.1..		IOSMSG	Message indicators for WTO service. 0 = Intervention required msg. 1 = I/O error message.
		....	..1.		IOSBDCST	Broadcast bit

Table 719. Structure IOSB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2	(2)	.... ...1	1	IOSLOG	Create an OBR record.
		CHARACTER		IOSFLC	Flag byte C
		1...		IOSGDPLP	With IOSGDP set, limit IOSGPMSK field to logically available paths (UCBLPM).
		.1..		IOSEIDAW	Extended 4K 8-byte IDAWs
		.1..		IOSVERIF	Non-DASD unsolicited device end verification needed.
		..1.		IOSCC3WE	Set by a driver to request deferred condition code 3 posting (post code of X'6D').
		...1		IOSEXP	Set by a driver to request a specific exposure request. IOSUCB contains the specific exposure UCB address and IOSXBASE must contain the UCB prefix of the base exposure.
		.... 1...		IOSNORWS	No Read/Write Synchronization: Set on by I/O driver to indicate that the channel should not synchronize on read/write transitions when prefetching (IOSP) is also set. The driver insures that the read and writes are from different I/O buffers
		.... .1..		IOS2CSWS	Two Channel Status Words: Set on by the I/O driver to indicate that when CCW prefetch is requested (IOSP), if an error occurs where the control unit executes ahead of the channel, two ending CCW addresses should be presented to the driver. The second ending CCW address is contained in the IEDB. If this bit is off, an invalid ending CCW address is simulated by IOS
		.... ..1.		IOSNORTY	No retry allowed
		.... ..1.		IOSCTCNR	CTC-No retry allowed
		.... ...1		IOSGDP	Set by a driver to indicate a guaranteed device path (GDP) request. IOSGPMSK contains the path(s) involved.
<p>IOSPROC - This byte indicates what type of special processing that is to be performed for IOS generated IOSBs. This processing normally runs asynchronous to IOS mainline processing. This field must be set to zero by drivers. IOSPROC values are assigned by IOS. DCLs constants are provided at end of IOSB.</p>					
3	(3)	CHARACTER	1	IOSPROC	IOSPROC field
<p>IOSDVRID - This byte indentifies the I/O driver requesting the I/O request. Driver identification values are assigned by IOS. DCLs constants are provided at end of IOSB.</p>					

IOSB mapping

Table 719. Structure IOSB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	CHARACTER	1	IOSDVRID	Driver ID value field
5	(5)	CHARACTER	1	IOSFLD	Flag byte D
		1... ..		IOSNOINT	Set by a driver to request that the I/O request be issued to a device that has an intercept condition. The intercept condition is to be saved for the next I/O request.
		.1.. ..		IOSMNORQ	IOS is not to requeue this IOSB if a Start Pending condition is detected (MIH, etc).
		..1.		IOSEPCIF	Early PCI exit call Flag. Set by the I/O driver to get called from the SLIH, instead of from post status for good intermediate status.
		...1		IOSCCWDS	Channel program resides in a data space. Set by the I/O driver.
		.... 1...		IOSEPCIS	Early PCI exit Space switch flag. Set by the I/O driver to indicate that IOSVSLIH should CMSET to the driver's address space prior to invoking the PCI exit.
		.... .1..		IOSLIOPF	Long I/O Post flag set by the I/O driver to indicate that driver should be posted back if the I/O request will take a long time to complete due to an MIH condition, manual intervention, etc..
		.... ..1		IOSNOLL	Set by the driver to indicate that post status must not get the local lock in order to use the local lock save area, as deadlock could occur. IOSPSLL must also be set by the driver.
		.... ....		IOSBEXTF	IOSB extension valid
6	(6)	SIGNED	2	IOSASID	Address space identification of address space to be scheduled at termination of the I/O request.
8	(8)	ADDRESS	4	IOSPGAD	I/O driver termination address. High order bit defines the addressing mode. For attention processing, this field contains the attention address.
12	(C)	BITSTRING	1	IOSPKEY	Protect key of IOSPGAD
		1111		*	Protect key field.
		.... 1...		IOSLCL	ASID schedule at local level
		.... .1..		IOSIDR	Asynchronous ERP scheduling should be used for this request (indirect recording for paging I/O).

Table 719. Structure IOSB (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
	....	..1.		1	IOSPGDPX	This request has a back-up copy (duplexed page)
	....	...1		1	IOSCHCMP	Set by driver to indicate that the driver has built a complete channel program, IOS is not to build a standard prefix.
Field IOSCOD values - I/O completion codes IOSCOD values assigned by IOS. DCLs constants are provided at the end of the IOSB.						
Completion codes 41 - 5F - Indicate permanent error conditions these codes will always be last entry codes to abnormal end exits.						
Completion codes 60 - 73 - Indicate conditions that IOS has detected in processing the I/O request.						
Completion codes 74 - 7E - Indicate abnormal conditions for which correction may be possible. These codes denote first entry to abnormal exits.						
Completion code 7F - Indicate normal I/O completion. It does not indicate that the I/O request completed successfully.						
Completion code 49 - Applies only to Store and Modify subchannel requests.						
13	(D)	CHARACTER		1	IOSCOD	I/O completion code field.
IOSOPT and IOSOPT2 bit definitions - For Start Subchannel requests. See redefinition area for definitions for modify and store subchannel requests.						
14	(E)	CHARACTER		1	IOSOPT	Driver requested option byte.
	1...	....		1	IOSBYP	Bypass IOS channel program prefixing.
	.1..	....		1	IOSDEP	Device-end post requested.
	..1.	....		1	IOSQISCE	For callers using the STARTIO macro compatibility interface (all others should place the quiesce level in the IOSLEVEL field). This request initiated by a request that has set the quiesce level in the UCB.
	...1	....		1	IOSPSLL	If 0, Local lock needed for IOS Post Status processing. If 1, Local lock not needed.
	....	1...		1	IOSNERP	If flag UCBLERP is off, ERPs are not to be used. If UCBLERP is on, ERPs will unconditionally get control. ERPs will only be allowed to perform recovery of non-error unit checks and any additional function as defined by intermediate ERP mask flags. When this flag is on, ERPs may not perform any recovery for error cases except as defined by the ERP mask flags.

IOSB mapping

Table 719. Structure IOSB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		IOSTSLL	If 0, Local lock needed by the termination routine. (IOSPSLL must be off). If 1, Local lock not needed by the termination routine
		.... ..1.		IOSAPR	Alternate path retry (APR) active. IOSGPMASK contains the available retry paths. Must be initially set to zero by driver
		.... ...1		IOSRELEASE	Request for a stand-alone release CCW to be issued
<p>IOSOPT2 - This byte reflects the I/O driver conditions for initiating an I/O request to the subchannel. See architecture for the meaning of these conditions. This byte also reflects the IRB interrupt status.</p>					
15	(F)	CHARACTER	1	IOSOPT2	Driver requested option byte 2
		1...		IOSF	CCW FORMAT----- If 0, Format 0 CCWs provided. If 1, Format 1 CCWS provided.
		.1..		IOSP	If 0, the driver does not want 'unlimited CCW prefetch'. If 1, the driver wants 'unlimited CCW prefetch'
		..1.		IOSI	If 0, the driver does not want 'initial status interruption' generated. If 1, the driver wants 'initial status interruption' generated.
		...1		IOSA	If 1, the driver requests address limit check.
		.... 1...		IOSSI	If 1, the driver requests suppress suspend interruption.
		.... .1..		IOSZ	If 1, zero condition code to initial selection (interrupt condition).
		.... ..1.		IOSE	If 1, Extended control information stored with interrupt (this bit is provided for information only, the stored data cannot be found from the IOSB).
		.... ...1		IOSN	If 1, path not operationsl.
Unit Control Block (UCB) address - address to common segment.					
16	(10)	ADDRESS	4	IOSUCB	Unit Control Block address
<p>IOSFCSW field - Subchannel Status Word field. - See redefinition area for definitions for modify subchannel requests.</p> <p>Format 0 CCW requests - Start Subchannel deferred condition code is stored in the IOSCC field and the 3 byte command address in IOSCSWCA (compatible with System/370). See redefinition area for format 0 CCW.</p>					
20	(14)	CHARACTER	8	IOSFCSW	8 byte subchannel CSW.

Table 719. Structure IOSB (continued)

Offset	Offset	Type	Len	Name(Dim)	Description
Dec	Hex				
20	(14)	ADDRESS	4	IOSCCWAD	Format 1 CCW address. See redefinition area for format 0 usage of the word.
20	(14)	ADDRESS	4	IOSTCWAD	Ending TCW address for FCX
24	(18)	CHARACTER	2	IOSTATUS	CSW status
24	(18)	CHARACTER	1	IOSTSA	Device status
24	(18)	BITSTRING	1	IOSDSTAT	Device status
		1...		IOSDSATN	Attention
		.1..		IOSDSSM	Status Modifier
		..1.		IOSDSCUE	Control Unit End
		...1		IOSDSBSY	Busy
		.... 1..		IOSDSCE	Channel End
		.... .1..		IOSDSDE	Device End
		.... ..1.		IOSDSUC	Unit Check
		.... ...1		IOSDSUEX	Unit Exception
25	(19)	CHARACTER	1	IOSTSB	Subchannel Status
25	(19)	BITSTRING	1	IOSSSTAT	Subchannel Status
		1...		IOSSSPCI	Program-Controlled Interupt
		.1..		IOSSSIL	Incorrect Length
		..1.		IOSSSPGC	Program Check
		...1		IOSSSPTC	Protection Check
		.... 1..		IOSSSCDC	Channel-Data Check
		.... .1..		IOSSSCCC	Channel-Control Check
		.... ..1.		IOSSSICC	Interface-Control Check
		.... ...1		IOSSSCC	Chaining Check
		.... ...1		IOSSSCRF	Channel subsystem retry failed
26	(1A)	ADDRESS	2	IOSCSWRC	Residual Count
26	(1A)	BITSTRING	1	IOSFCXST	FCX status
27	(1B)	UNSIGNED	1	IOSSESTAT	Subchannel extended status
		1...		IOSINTGFAILED	Interrogate failed
		.111 1111		IOSSESQ	Subchannel extended status qualifier - see macro IHASESQ
Subchannel control field provided with the Subchannel status word (SCSW).					
28	(1C)	ADDRESS	4	IOSSRB	Pointer back to drivers SRB.
32	(20)	ADDRESS	4	IOSUSE	IOSB owner use field
36	(24)	ADDRESS	4	IOSIOPID	The I/O prevention identifier (IOPID) that covers this I/O request.
40	(28)	BITSTRING	2	IOSSCHC	Subchannel Control field
		1...		*	Reserved for architecture
		.111		IOSFC	Function Control field.....
		.1..		IOSFSSCH	.. Start Subchannel
		..1.		IOSFHSCCH	.. Halt Subchannel
		...1		IOSFCSCCH	.. Clear Subchannel
40	(28)	BITSTRING	0	IOSAC	Activity Control field.....
		.... 1..		IOSARSCH	.. Resume Pending
		.... .1..		IOSASSCH	.. Start Pending
		.... ..1.		IOSAHSCH	.. Halt Pending
		.... ...1		IOSACSCH	.. Clear Pending

IOSB mapping

Table 719. Structure IOSB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
41	(29)	1... .. .1.. .. ..1. .... ...1 1111 ...1 1... .... .1.. .... ..1. .... ...1		IOSASUBA IOSADEVA IOSSSPND IOSSC IOSSALRT IOSSINTR IOSSPRIM IOSSSEC IOSSPNDG	.. Subchannel Active .. Device Active .. Subchannel Suspended Status Control Field..... .. Alert status .. Intermediate status .. Primary status .. Secondary status .. Status pending (if bit is 0, this is simulated status).
<p>IOSSNS - With unit check, contains the first two bytes of the sense data. With field set to X'10FE', this is an indication of unsuccessful sense.</p>					
42	(2A)	BITSTRING	2	IOSSNS	1st two bytes of sense data
<p>End of common section - start of processing dependent sections. .. NML - Normal I/O request processing .. WTO - attention processing .. PCI - Intermediate status processing</p>					
44	(2C)	ADDRESS	4	IOSIPIB	NML- IPIB address (IOS/Purge). Initially set to zero by driver and not to be reset by exits. PCI- Intermediate status SRB/IOSB chain pointer.
44	(2C)	BITSTRING	1	*	
45	(2D)	ADDRESS	3	IOSIPIBP	3-byte IPIB address. Used by I/O drivers who wish to reference the IPIB.
48	(30)	ADDRESS	4	IOSPCHN	NML- Pointer to 1st intermediate status SRB/IOSBs. PCI- Pointer to ending status IOSB for intermediate status SRB/IOSBs.
52	(34)	ADDRESS	4	IOSERP	ERP - Error Work Area (EWA) address provided. Must initially be set to zero by driver.
<p>Driver Exit addresses - High order bit defines addressing mode.</p>					
56	(38)	ADDRESS	4	IOSPCI	Intermediate status exit address or zero.
60	(3C)	ADDRESS	4	IOSNRM	Normal end exit address
64	(40)	ADDRESS	4	IOSABN	Abnormal end exit address
68	(44)	ADDRESS	4	IOSDIE	Disabled Interrupt Exit address or zero.
<p>Real Channel program - virtual and real addresses of the first CCW or the FCX TCW</p>					
72	(48)	ADDRESS	4	IOSRST	Real address
76	(4C)	ADDRESS	4	IOSVST	Virtual address
80	(50)	ADDRESS	4	IOSDSID	Data set ID for purge- set by driver or zero.
84	(54)	UNSIGNED	1	IOSLEVEL	IOS serialization level

Table 719. Structure IOSB (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
85	(55)	BITSTRING		1	IOSGPMSK	GDP- Guaranteed Device path mask with IOSGDP bit set. APR- Alternate Path Retry path mask with IOSAPR bit set
86	(56)	UNSIGNED		2	IOSDCTI	IRB DCTI field- the I/O request device connect time.
88	(58)	CHARACTER		1	IOSFMSK	Mode set/File mask
89	(59)	BITSTRING		1	IOSCKEY	On STARTIO- Channel program protect key. On interrupt- 1st byte of IRB
			1111		IOSIRBKY	Protect key - bits 0-3
			.... 1...		IOSS	The I/O request has suspend capability.
			.... .1..		IOSIRBL	If 1, ESW contains logout data
			.... ..11		IOSIRBCC	SSCH deferred condition code
90	(5A)	CHARACTER		1	IOSMDB	ERP immediate CCW oper code
91	(5B)	CHARACTER		1	IOSMDM	ERP modifier mask
92	(5C)	CHARACTER		8	IOSEEK	Static seek address
92	(5C)	CHARACTER		4	*	Padding
96	(60)	CHARACTER		4	IOSCTC	Start of CTC overlay- see below
100	(64)	CHARACTER		8	IOSEEKA	Dynamic seek address
100	(64)	ADDRESS		1	IOSSKM	
101	(65)	ADDRESS		2	IOSSKBB	BB
103	(67)	CHARACTER		4	IOSCCHH	CCHH
103	(67)	ADDRESS		2	IOSSKCC	CC
105	(69)	ADDRESS		2	IOSSKHH	HH
105	(69)	ADDRESS		1	IOSSKH1	
106	(6A)	ADDRESS		1	IOSSKH2	
107	(6B)	ADDRESS		1	IOSSKR	
108	(6C)	CHARACTER		0	IOSEND	End of standard IOSB
<p>IOSB Extension - This optional IOSB extension is indicated by the user by setting the IOSBEXTF flag in byte IOSFLD. The IOSB extension is designed to be upward compatible.</p> <p>Note - The IOSB extension cannot grow beyond the end of the IOS large block (SRIO).</p>						
108	(6C)	CHARACTER		48	IOSBEXT	IOSB Extension
108	(6C)	CHARACTER		4	IOSXID	ID - C'IOSB'
112	(70)	SIGNED		2	IOSXLEN	IOSB extension length
114	(72)	BITSTRING		1	IOSXFLG1	Flag byte 1.....
			1...		IOSXNORQ	.. MIH is not to requeue this IOSB if a Start Pending condition is detected.

IOSB mapping

Table 719. Structure IOSB (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
		.1..	....		IOSXGDPR	.. Do I/O even if device is reserved on another path. Valid if IOSGDP bit is on.
		..1.	....		IOSXDDRT	Flag used to prevent swapping in Tape Library Environment
		...1	....		IOSXMIHI	Flag used to inhibit MIH processing for a single request. If this bit is set, then MIH processing is disabled for this request only. This bit is applicable for STARTIO requests only and is ignored for all other requests (HSCH, CSCH, etc). This bit does not override the I/O timing facility.
		....	1...		IOSXIOSI	Flag indicating that the I/O driver is performing non-disruptive I/O. This will cause the NTXTIOSR bit to later be set to indicate this condition to the notification exit.
		....	.1..		IOSXDPSV	DPS validation on CC3
		....	..1.		IOSXIOSN	Set by a driver indicating to start the I/O operation even if I/O synchronization is active on the device (for IOS recovery use only).
		....	...1		IOSXATPS	Indicates that attention processing was initiated for this I/O operation. Note: This bit is valid only in an IOS sense IOSB.
115	(73)	BITSTRING		1	IOSXFLG2	Flag byte 2.....
		1...	....		IOSXIOT	When off - IOSXTIME is for active request only. When on - IOSXTIME is for active and queued requests.
		.1..	....		IOSXNMIH	When on - MIH should not create a logrec entry or issue a message when a timeout occurs due to IOSXTIME
		..1.	....		IOSXCPNM	When set, the Channel program is not modified by the driver during execution, other than to add CCWs at the end.
		...1	....		IOSXIDA2	When on - 2K 8-byte IDAWs
		....	1...		IOSXPCIS	PCI Synchronization: Set on by I/O driver to indicate that the channel must synchronize after the next CCW following the the PCI (CCW+8) when prefetching (IOSP) is also set.
		....	.1..		IOSXDPMC	Set ON when Streaming Mode Control is disabled for the current I/O operation.

Table 719. Structure IOSB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ..1.		IOSXSILC	Suppress incorrect length for Format 1 immediate CCWs
		.... ...1		*	Reserved for future expansion of the IOSB extension- initialized to zero
116	(74)	ADDRESS	4	IOSXSSXA	Address of driver start subchannel exit to be called if the UCB is not set to the normal level. IOSXSSXV bit must be set to a 1 in order to use this field.
120	(78)	ADDRESS	4	IOSXIOBE	Address of the IOB extension.
124	(7C)	UNSIGNED	1	IOSXRCOD	Reason code detailing IOSCOD value
125	(7D)	UNSIGNED	1	IOSXTIME	Maximum time value, in seconds, that the I/O driver allows before an MIH condition is declared, regardless of the MIH setting for the device or whether MIH is being bypassed. (Mutually exclusive with IOSXMIHI, and IOS queue time is not counted) For IOS recovery use only because a timeout condition will be surfaced as an MIH condition for the device
126	(7E)	SIGNED	2	IOSXASPR	Asid that will be used for I/O priority queuing
128	(80)	BITSTRING	1	IOSXFLG3	Flag byte 3
		1...		IOSXNSER	Indicates that the device may bypass the channel program extent collision checking. Extent range enforcement will remain active. (DASD only)
		.1..		IOSXNVAL	Indicates that the device is to bypass the validation checking of the parameters on Define Extent and Locate Record commands. Extent enforcement will remain active. (DASD only)
		..1.		IOSXIMEX	Indicates that the driver has requested immediate execution of this I/O request. If allowed by IOS, this request will bypass the I/O priority management and assign the highest priority to this I/O request. Note: Currently, this bit is set by AOM on behalf of XRC requests utilizing the Define Subsystem Operation (DSO) CCW.
		...1		IOSXALTS	An alternate timestamp is provided in the define extent or prefix CCW parameter list

IOSB mapping

Table 719. Structure IOSB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		IOSXMIDA	The channel program uses Modified CCW Indirect Addressing (MIDAWs)
		.... .1..		IOSXFCX	This is a FICON Channel Extensions (FCX) (i.e., High Performance FICON) channel program
		.... .1..		IOSXZHPF	Alternate name for FCX
		.... ..11		*	Reserved
129	(81)	CHARACTER	3	*	Reserved
132	(84)	ADDRESS	4	IOSXIOD	I/O Data Area
IOS Extension miscellaneous field. Dependent based on I/O type. Specific mappings are defined below.					
136	(88)	CHARACTER	8	IOSXMSC	Miscellaneous Field
144	(90)	ADDRESS	4	IOSXBASE	When IOSEXP is set, this field contains the corresponding PAV-base UCB prefix address
148	(94)	CHARACTER	8	IOSXRVSF	Reserved IOSB extension area- initialized to zero
156	(9C)	CHARACTER	0	IOSEEND	End of IOSB w extension

Table 720. Structure IOSXMSCN

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
136	(88)	STRUCTURE	8	IOSXMSCN	IOS Extension Miscellaneous mapping for normal I/O requests.
136	(88)	CHARACTER	8	IOSXEIOP	Enclave I/O priority

Table 721. Structure IOSXMSCS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
136	(88)	STRUCTURE	8	IOSXMSCS	IOS Extension Miscellaneous mapping for sense I/O requests.
136	(88)	SIGNED	4	IOSXATI	Attention index save area. Used to preserve the attention index while processing an unsolicited interrupt with unit check status
140	(8C)	BITSTRING	1	IOSXSFLG	Sense flag byte
		1...		IOSXRAT2	USLRRAT2 save area. Used to preserve this bit while processing an unsolicited interrupt with unit check status
		.1..		IOSXRAT3	USLRRAT3 save area. Used to preserve this bit while processing an unsolicited interrupt with unit check status
141	(8D)	CHARACTER	3	*	Reserved for future use

Table 722. Structure @NM00009

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
96	(60)	STRUCTURE	9	*	CTC overlay
96	(60)	CHARACTER	8	IOSCTCDW	Sense command byte CCW (on a doubleword boundary)
96	(60)	CHARACTER	5	*	Padding
101	(65)	CHARACTER	1	IOSCTCMD	Command byte from sense OP if format 0 CCW (IOSF= 0)
102	(66)	CHARACTER	2	*	Padding
104	(68)	CHARACTER	1	IOSCTCOP	Command byte from sense OP if format 1 CCW (IOSF= 1)

Table 723. Structure @NM00012

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
42	(2A)	STRUCTURE	66	*	
42	(2A)	CHARACTER	42	IOSATTNS	With UC- sense data area
42	(2A)	CHARACTER	32	IOSASNS	Sense data area
74	(4A)	CHARACTER	10	*	Reserved.

Table 724. Structure IOSATTSC

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
44	(2C)	STRUCTURE	64	IOSATTSC	
44	(2C)	CHARACTER	40	IOSATTSN	Additional sense if any
44	(2C)	CHARACTER	30	IOSATSNS	Additional sense data
74	(4A)	BITSTRING	1	IOSATPMK	Attention path mask - path mask of path on which attention interrupt was received
75	(4B)	BITSTRING	1	IOSAFLGS	Attention flags
		1...		IOSAINTR	Indicates that attention routine is requesting intercept processing
		.1..		IOSAINTE	Indicates an intercept has been generated for this attention interrupt
		..11 1111		*	Unused
76	(4C)	ADDRESS	1	IOSAATI	Index to the attention table
77	(4D)	CHARACTER	7	*	Reserved
84	(54)	CHARACTER	24	IOSATTWA	Attention routine work area
84	(54)	CHARACTER	20	IOSXMSAV	CMSET savearea in IECTCATN
104	(68)	CHARACTER	4	*	Reserved

Table 725. Structure IOSPCISC

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
44	(2C)	STRUCTURE	64	IOSPCISC	
44	(2C)	ADDRESS	4	*	IOSPIB field- must not be used.
48	(30)	ADDRESS	4	*	IOSPCHN field- Must not be used.
52	(34)	CHARACTER	32	IOSPCIRS	Intermediate status reserved section.
84	(54)	CHARACTER	24	IOSPCIWA	Intermediate status work area

IOSB mapping

Table 726. Structure @NM00019

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
40	(28)	STRUCTURE	2	*	
40	(28)	CHARACTER	2	IOSAPMSK	Redefined field

Table 727. Structure @NM00020

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
20	(14)	STRUCTURE	8	*	Format 0 CCW layout.....
20	(14)	BITSTRING	1	IOSCC	Start subchannel deferred condition code (Not to be used for format 1 CCWs). The SSCH deferred condition code will always be stored (regardless of CCW format) in IOSIRBCC.
21	(15)	CHARACTER	7	IOSCSW	CSW low order 7 bytes
21	(15)	ADDRESS	3	IOSCSWCA	Last command address
24	(18)	CHARACTER	4	*	Status & residual count - see format 1 definitions above

Table 728. Structure @NM00022

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
14	(E)	STRUCTURE	1	*	
		1... ..		IOSSYN	If 1, indicates store or modify subchannel request is to be done synchronously. If 0, indicates caller can handle asynchronous issuing of store or modify subchannel.
		.1.. ..		IOSNOPTH	If 1, indicates for a path message request, a conditional no path condition.
		..11 1111		*	Reserved- initialized to zero

Table 729. Structure @NM00024

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
15	(F)	STRUCTURE	1	*	
		1... ..		IOSMISC	If 1, interrupt subclass
		.1.. ..		IOSME	If 1, enabled indicator (IOS use only)
		..1.		IOSMLM	If 1, limit mode indicator
		...1		IOSMMM	If 1, measurement mode
		.... 1...		IOSMLPM	If 1, logical path mask
		.... .1..		IOSMMBI	If 1, Measurement block index
		.... ..1.		IOSMPOM	If 1, path operational mask
		.... ...1		IOSMD	If 1, dynamic path indicator (IOS use only)

Table 730. Structure @NM00025

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
1	(1)	STRUCTURE		1	*	
		1... ..			IOSMLPMO	If 1, old LPM is to be 'ored' with new LPM. If 0, old LPM is to be 'anded' with new LPM. This bit valid only if IOSMLPM is on.
		.1.. ..			IOSMPOMO	If 1, old POM is to be 'ored' with new POM. If 0, old POM is to be 'anded' with new POM. This bit valid only if IOSMPOMO is on.
		..1.			IOSMMMO	If 1, old measurement mode is to be 'ored' with new measurement mode. If 0, old measurement mode is to be 'anded' with the new measurement mode. This bit valid only if IOSMMM is on.
		...1			IOSASIS	If 1, IOSMLPMO and IOSMPOMO are ignored, and the old LPM and/or POM are to be replaced by the new LPM/POM.
		.... 1111			*	Reserved- initialized to zero

Table 731. Structure @NM00027

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
20	(14)	STRUCTURE		8	*	
20	(14)	UNSIGNED		4	IOSSID	UCB Subsystem-identification word
24	(18)	CHARACTER		4	*	Reserved

Table 732. Constants for IOSB

Len	Type	Value	Name	Description
Following are the PLS declares which replace the previously defined %dclares. The fields to which the values apply are reproduced as comments. This change allows a cross reference of the names used as field values.				
Constants for the IOSCC field - deferred condition codes				
1	HEX	30	IOSCC3	Deferred condition code 3
1	HEX	10	IOSCC1	Deferred condition code 1
1	HEX	00	IOSCC0	Deferred condition code 0
Constants for the IOSIRBCC field - deferred condition codes				
0	BIT	11	IOSIRBC3	Deferred condition code 3
0	BIT	01	IOSIRBC1	Deferred condition code 1
0	BIT	00	IOSIRBC0	Deferred condition code 0
4	IOSPROC	CHAR(1), SEE DCL FOR DESCRIPTION		
1	HEX	04	IOSAPCI	Intermediate Status
1	HEX	08	IOSATTN	Attention
1	HEX	0C	IOSAPURG	Purge
1	HEX	14	IOSAWTO	WTO
1	HEX	18	IOSADDR	DDR
1	HEX	1C	IOSADIER	DIE redrive for different UCB

IOSB mapping

Table 732. Constants for IO SB (continued)

Len	Type	Value	Name	Description
1	HEX	20	IOSAUR	Unconditional Reserve
1	HEX	F8	IOSAINTER	Interrogate
1	HEX	F9	IOSAST1	Subchannel type 1 request
1	HEX	FA	IOSASNRQ	IOS Sense Request
1	HEX	FC	IOSACL R	Clear Subchannel request
1	HEX	FD	IOSAHALT	Halt Subchannel request
1	HEX	FE	IOSAMOD	Modify Subchannel request
1	HEX	FF	IOSASTOR	Store Subchannel request
4 IOSDVRID CHAR(1), SEE DCL FOR DESCRIPTION				
1	HEX	00	IOSIOSID	Reserved for IOS
1	HEX	01	IOSMISID	Miscellaneous ID for 24 bit I/O requestors that cannot be purged, associated with a task, or violate extents
1	HEX	02	IOSXCPID	EXCP driver
1	HEX	03	IOSVSAID	VSAM driver
1	HEX	04	IOSATMID	VTAM driver
1	HEX	05	IOSTCMID	TCAM driver
1	HEX	06	IOSOLTID	OLTEP driver
1	HEX	07	IOSFCHID	Program Fetch driver
1	HEX	08	IOSJESID	JES3 driver
1	HEX	09	IOSSSID	MSC driver
1	HEX	0A	IOSPRGID	IECVIOPM driver
1	HEX	0B	IOSVPSID	VPSS
'0C'X CRYPTO				
1	HEX	0E	IOSAS MID	ASM Driver
1	HEX	0F	IOSMDSID	Message Display service
1	HEX	10	IOSAUSID	Assign/Unassign service
1	HEX	11	IOSDYPID	Dynamic pathing driver
1	HEX	12	IOSDAVV	IOSVDAVV driver
1	HEX	13	IOSDCSID	Device Control Service
1	HEX	14	IOSAOMID	Asynchronous operation manager
1	HEX	15	IOSSMSID	DFSMS driver
1	HEX	16	IOSXCFID	XCF CTC I/O Driver
1	HEX	17	IOSCDRID	IOS use driver ID
1	HEX	18	IOSSLFID	IOSVSLFD driver ID
1	HEX	19	IOSPAVID	IOSVIOPA driver ID
1	HEX	1D	IOSMI2ID	Miscellaneous ID for 31 bit I/O requestors that cannot be purged, associated with a task, or violate extents
1	HEX	1E	IOSINTID	Generic IOS I/O driver ID
1	HEX	1F	IOSDACID	Discovery and AutoConfiguration
1	HEX	80	IOSV33ID	SVC33 driver
1	HEX	81	IOSCLRID	Clear Device recovery
1	HEX	82	IOSSCRID	Subchannel Recovery
1	HEX	83	IOSV16ID	SVC16 Purge driver
1	HEX	84	IOSAPRID	Unconditional Reserve (UR) Recovery driver
1	HEX	85	IOSMIHID	Missing Interrupt Handler (MIH) driver
1	HEX	86	IOSPRVID	I/O Prevention Handler driver

Table 732. Constants for IOSB (continued)

Len	Type	Value	Name	Description
1	HEX	87	IOSRSVID	Re-reserve service
4	IOSCOD CHAR(1), SEE DCL FOR DESCRIPTION			
1	HEX	41	IOSERRC	Permanent I/O error
1	HEX	42	IOSEXTC	Extent Error
1	HEX	43	IOSDPXC	Duplexed I/O request was not started because of the UCB level or not ready device.
1	HEX	44	IOSINTC	Request was intercepted because an error occurred after the last time the device was used and the requestors error recovery procedure wants this intercept condition treated as a permanent error.
1	HEX	45	IOSABNC	I/O request abnormally terminated because of a program check, machine check, etc. in IOS or an exit.
1	HEX	46	IOSCD46	Reserved
1	HEX	47	IOSEXTM	I/O request not started as the driver start Subchannel exit requested termination prior to the SSCH being issued (See IOSXSSCH).
1	HEX	48	IOSPRGC	Request was purged
1	HEX	49	IOSCNCLD	Store or Modify subchannel has been cancelled
1	HEX	4A	IOSPVTIO	I/O Prevention - either the I/O request has not been started or the I/O request has been terminated.
1	HEX	4B	IOSTAPEC	Tape repositioning error
1	HEX	4C	IOSIVEXP	Invalid exposure number
1	HEX	4D	IOSGDPCC	Deferred condition code 3 on a GDP request or while NIP in control, or with IOSGDPLP set, no logically available paths (UCBLPM).
1	HEX	4E	IOSGDPRD	GDP- Reserved device or in conjunction with IOSRELSE, device can not be released.
1	HEX	50	IOSCD50	Reserved
1	HEX	51	IOSMIHCA	The I/O Request not started- the device is in permanent error.
1	HEX	52	IOSMIHSP	IOS found the I/O request Start Pending in the subchannel, and the driver requests that the I/O request not to be retried (MIH,etc)
1	HEX	53	IOSIOTCR	IOS cancelled the I/O request due to an I/O timeout condition

IOSB mapping

Table 732. Constants for IO SB (continued)

Len	Type	Value	Name	Description
1	HEX	54	IOSCAPAS	The I/O request could not be started. The current address space did not match IOSASID and a Captured UCB address was used in IOSUCB.
1	HEX	6D	IOSGDPWE	Deferred Condition Code 3 condition with the IOSCC3WE bit set.
1	HEX	71	IOSFTCHC	Hardware corrected data check for Fetch
1	HEX	74	IOSMIHC	A Simulated error status, generated by IOS
1	HEX	7D	IOSXERPL	An I/O exit requested the ERP to log this request
1	HEX	7E	IOSFINTC	Intercept condition before entrance to the ERP.
1	HEX	7F	IOSNRMC	Normal Completion
Field IOSSNS value - Bad sense indication				

2	HEX	10FE	IOSSNSBD	Value supplied for unsuccessful sense
Field IOSXRCOD value - Reason code detailing IOSCOD value				

1	HEX	09	IOSXRC9	Value indicating started I/O request timed-out
1	HEX	0A	IOSXRC10	Value indicating queued I/O request timed-out
1	HEX	0B	IOSXRC11	Value indicating PAV binding changed out from underneath IOSEXP request
1	HEX	0C	IOSXRC12	Value indicating 64-bit IDAWs requested on an unsupported host
1	HEX	0D	IOSXRC13	Value indicating an active IOQ exists with an inactive UCB.
1	HEX	0E	IOSXRC14	Value indicating that an FCX I/O was issued to a device that does not support FCX.
1	HEX	0F	IOSXRC15	Value indicating that the I/O request was terminated due to a HyperSwap being active.
1	HEX	10	IOSXRC16	Value indicating that the I/O request was terminated because a capability needed by the I/O request is not supported by the processor, device, or software
1	HEX	11	IOSXRC17	Value indicating that the I/O request was terminated because a configuration change affected the device.
1	HEX	12	IOSXRC18	Reason code indicating an I/O done requesting override PPRC copy services failed and should be redriven without requesting override of PPRC copy services

Table 733. Cross Reference for IO SB

Name	Offset	Hex Tag
IOSA	F	10
IOSAATI	4C	
IOSABN	40	
IOSAC	28	
IOSACHN	0	C0
IOSACSCH	28	01
IOSADEVA	29	40
IOSAFLGS	4B	
IOSAHSCH	28	02
IOSAINTE	4B	40
IOSAINTR	4B	80
IOSAPMSK	28	
IOSAPR	E	02
IOSARSCH	28	08
IOSASID	6	
IOSASIS	1	10
IOSASNS	2A	
IOSASSCH	28	04
IOSASUBA	29	80
IOSATPMK	4A	
IOSATSNS	2C	
IOSATTNS	2A	
IOSATTSC	2C	
IOSATTSN	2C	
IOSATTWA	54	
IOSB	0	
IOSBDCST	1	02
IOSBEXT	6C	
IOSBEXTF	5	01
IOSBSTD	0	
IOSBYP	E	80
IOSCC	14	
IOSCCHH	67	
IOSCCHN	0	40
IOSCCWAD	14	
IOSCCWDS	5	10
IOSCC3WE	2	20
IOSCHCMP	C	01
IOSCKEY	59	
IOSCOD	D	
IOSCSW	15	
IOSCSWCA	15	
IOSCSWRC	1A	
IOSCTC	60	
IOSCTCDW	60	
IOSCTCMD	65	
IOSCTCNR	2	02
IOSCTCOP	68	
IOSDCHN	0	80

IOSB mapping

Table 733. Cross Reference for IOSB (continued)

Name	Offset	Hex Tag
IOSDCTI	56	
IOSDEP	E	40
IOSDIE	44	
IOSDIESE	1	80
IOSDOM	0	02
IOSDSATN	18	80
IOSDSBSY	18	10
IOSDSCE	18	08
IOSDSCUE	18	20
IOSDSDE	18	04
IOSDSID	50	
IOSDSSM	18	40
IOSDSTAT	18	
IOSDSUC	18	02
IOSDSUEX	18	01
IOSDVRID	4	
IOSE	F	02
IOSEEK	5C	
IOSEKA	64	
IOSEEND	9C	
IOSEIDAW	2	40
IOSEND	6C	
IOSEPCIF	5	20
IOSEPCIS	5	08
IOSERP	34	
IOSERR	0	20
IOSEX	0	04
IOSEXP	2	10
IOSF	F	80
IOSFC	28	70
IOSFCSCH	28	10
IOSFCSW	14	
IOSFCXST	1A	
IOSFHSCCH	28	20
IOSFLA	0	
IOSFLB	1	
IOSFLC	2	
IOSFLD	5	
IOSFMSK	58	
IOSFSSCH	28	40
IOSGDP	2	01
IOSGDPLP	2	80
IOSGPMSK	55	
IOSI	F	20
IOSIDR	C	04
IOSINTGFAILED	1B	80
IOSIONRD	1	08
IOSIOPID	24	
IOSIOSB	0	01

Table 733. Cross Reference for IOSB (continued)

Name	Offset	Hex Tag
IOSPIB	2C	
IOSPIBP	2D	
IOSIRBCC	59	03
IOSIRBKY	59	F0
IOSIRBL	59	04
IOSLCL	C	08
IOSLEVEL	54	
IOSLIOPF	5	04
IOSLOG	1	01
IOSMD	F	01
IOSMDB	5A	
IOSMDM	5B	
IOSME	F	40
IOSMISC	F	80
IOSMLM	F	20
IOSMLPM	F	08
IOSMLPMO	1	80
IOSMMBI	F	04
IOSMMM	F	10
IOSMMMO	1	20
IOSMNORQ	5	40
IOSMPOM	F	02
IOSMPOMO	1	40
IOSMSG	1	04
IOSN	F	01
IOSNERP	E	08
IOSNOINT	5	80
IOSNOLL	5	02
IOSNOPTH	E	40
IOSNORTY	2	02
IOSNORWS	2	08
IOSNOTRS	1	20
IOSNRM	3C	
IOSOPT	E	
IOSOPT2	F	
IOSP	F	40
IOSPCHN	30	
IOSPCI	38	
IOSPCIRS	34	
IOSPCISC	2C	
IOSPCIWA	54	
IOSPGAD	8	
IOSPGDPX	C	02
IOSPKY	C	
IOSPROC	3	
IOSPSLL	E	10
IOSQISCE	E	20
IOSRELSE	E	01
IOSRESRC	1	10

IOSB mapping

Table 733. Cross Reference for IOSB (continued)

Name	Offset	Hex Tag
IOSRST	48	
IOSS	59	08
IOSSALRT	29	10
IOSSC	29	1F
IOSSCHC	28	
IOSSDR	1	40
IOSSSEQ	1B	7F
IOSSSTAT	1B	
IOSSI	F	08
IOSSID	14	
IOSSINTR	29	08
IOSSKBB	65	
IOSSKCC	67	
IOSSKHH	69	
IOSSKH1	69	
IOSSKH2	6A	
IOSSKM	64	
IOSSKR	6B	
IOSSMDA	0	10
IOSSMDB	0	08
IOSSNS	2A	
IOSSPNDG	29	01
IOSSPRIM	29	04
IOSSRB	1C	
IOSSSCC	19	01
IOSSSCCC	19	04
IOSSSCDC	19	08
IOSSSCRF	19	01
IOSSSEC	29	02
IOSSICC	19	02
IOSSIL	19	40
IOSSPCI	19	80
IOSSPGC	19	20
IOSSPND	29	20
IOSSPTC	19	10
IOSSSTAT	19	
IOSSYN	E	80
IOSTATUS	18	
IOSTCWAD	14	
IOSTSA	18	
IOSTSB	19	
IOSTSLL	E	04
IOSUCB	10	
IOSUSE	20	
IOSVERIF	2	40
IOSVST	4C	
IOSXALTS	80	10
IOSXASPR	7E	
IOSXATI	88	

Table 733. Cross Reference for IOSB (continued)

Name	Offset	Hex Tag
IOSXATPS	72	01
IOSXBASE	90	
IOSXCPNM	73	20
IOSXDDRT	72	20
IOSXDPSV	72	04
IOSXDSMC	73	04
IOSXEIOP	88	
IOSXFCX	80	04
IOSXFLG1	72	
IOSXFLG2	73	
IOSXFLG3	80	
IOSXGDPR	72	40
IOSXID	6C	
IOSXIDA2	73	10
IOSXIMEX	80	20
IOSXIOBE	78	
IOSXIOD	84	
IOSXIOSI	72	08
IOSXIOSN	72	02
IOSXIOT	73	80
IOSXLEN	70	
IOSXMIDA	80	08
IOSXMIHI	72	10
IOSXMSAV	54	
IOSXMSC	88	
IOSXMSCN	88	
IOSXMSCS	88	
IOSXNMIH	73	40
IOSXNORQ	72	80
IOSXNSER	80	80
IOSXNVAL	80	40
IOSXPCIS	73	08
IOSXRAT2	8C	80
IOSXRAT3	8C	40
IOSXRCOD	7C	
IOSXRSVF	94	
IOSXSFLG	8C	
IOSXSILC	73	02
IOSXSSXA	74	
IOSXTIME	7D	
IOSXZHPF	80	04
IOSZ	F	04
IOS2CSWS	2	04

IOSB mapping

Chapter 186. IOSDCHPD Information

IOSDCHPD Programming Interface Information

IOSDCHPD is a programming interface.

IOSDCHPD Heading Information

Common Name: IOSCHPD ATTRIBUTES MAPPING
 Macro ID: IOSDCHPD
 DSECT Name: CHPDATTR
 Owing Component: IOS (SC1C3)
 Eye-Catcher ID: CHPDA
 Offset: X'0'
 Length: 5 bytes
 Storage Attributes: Subpool: Subpool of caller
 Key: Key of caller
 Residency: Any
 Size: 32 bytes
 Created by: Caller of IOSCHPD service
 Pointed to by: N/A
 Serialization: NONE
 LIBRARY = AMACLIB
 Function: PROVIDES A MAPPING OF THE IOSCHPD ATTRIBUTES

IOSDCHPD mapping

Table 734. Structure CHPDATTR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CHPDATTR	IOSDCHPD ATTRIBUTES LIST
0	(0)	DBL WORD	8	(0)	
0	(0)	CHARACTER	5	CHPDACRO	ACRONYM- 'Chpda'
5	(5)	CHARACTER	1	CHPDAVRS	VERSION LEVEL
6	(6)	CHARACTER	2	CHPDAR1	Reserved
8	(8)	BITSTRING	4	CHPDAFLG(0)	Attribute flags
8	(8)	BITSTRING	1	CHPDAFL1	Attribute flag one
		1...		CHPDAON	"X'80" ON - Indicates ONLINE
		.1..		CHPDAOFF	"X'40" ON - Indicates OFFLINE
		..1.		CHPDAMAN	"X'20" ON - Indicates MANAGED
		...1		CHPDA_CHID_VALID	"X'10" ON - Indicates that CHPDA_CHID contains a valid channel id
		.... 1...		CHPDA_CHID_EXTERNAL	"X'08" ON - indicates that CHPDA_CHID contains an external or physical channel id (PCHID). OFF - indicates that CHPDA_CHID contains an internal channel id. This bit is valid only when CHPDA_CHID_Valid is on.

IOSDCHPD mapping

Table 734. Structure CHPDATTR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		CHPDA_FCX	"X'04'" ON - indicates that the FICON Channel Extensions (FCX) facility (i.e., High Performance FICON) is supported
		.... ..1.		CHPDA_OFFLINE_SWITCH	"X'02'" ON - indicates that the channel port is offline due to switch port decommissioning
		.... ...1		CHPDA_OFFLINE_HMC	"X'01'" ON - indicates that the channel port is offline due to HMC repair and verify
9	(9)	BITSTRING	1	CHPDAFL2	Attribute flag two
10	(A)	BITSTRING	1	CHPDAFL3	Attribute flag three
11	(B)	BITSTRING	1	CHPDAFL4	Attribute flag four
12	(C)	CHARACTER	1	CHPDATYP	Channel path type - Defined by PathInttype constants described in mapping macro IOSDPATH.
13	(D)	BITSTRING	1	CHPDA_CHPP	Channel path parameter
IQD Specific channel path parameter data					
		.... ....		CHPDA_MFS_16KB	"X'00'" 16KB frame size
		.1..		CHPDA_MFS_24KB	"X'40'" 24KB frame size
		1...		CHPDA_MFS_40KB	"X'80'" 40KB frame size
		11..		CHPDA_MFS_64KB	"X'C0'" 64KB frame size
		.... .1..		CHPDA_IQD_OSD	"X'04'" When 1, this CHPID is connected to an OSA direct-express channel
		.... ..1.		CHPDA_IQD_IQDX	"X'02'" When 1, this CHPID provides connectivity to the IEDN via a bridge function
END - IQD Specific channel path parameter data					
14	(E)	CHARACTER	2	CHPDA_CHID	Channel id (CHID)
16	(10)	CHARACTER	16	CHPDAR2	Reserved
16	(10)	X'20'	0	CHPDALEN	"*-CHPDATTR" Length of CHPDATTR

Table 735. Cross Reference for IOSDCHPD

Name	Offset	Hex Tag
CHPDA_CHID	E	
CHPDA_CHID_EXTERNAL	8	8
CHPDA_CHID_VALID	8	10
CHPDA_CHPP	D	
CHPDA_FCX	8	4
CHPDA_IQD_IQDX	D	2
CHPDA_IQD_OSD	D	4
CHPDA_MFS_16KB	D	0
CHPDA_MFS_24KB	D	40
CHPDA_MFS_40KB	D	80
CHPDA_MFS_64KB	D	C0
CHPDA_OFFLINE_HMC	8	1
CHPDA_OFFLINE_SWITCH	8	2
CHPDACRO	0	

Table 735. Cross Reference for IOSDCHPD (continued)

Name	Offset	Hex Tag
CHPDAFLG	8	
CHPDAFL1	8	
CHPDAFL2	9	
CHPDAFL3	A	
CHPDAFL4	B	
CHPDALEN	10	20
CHPDAMAN	8	20
CHPDAOFF	8	40
CHPDAON	8	80
CHPDAR1	6	
CHPDAR2	10	
CHPDATTR	0	
CHPDATYP	C	
CHPDAVRS	5	

IOSDCHPD mapping

Chapter 187. IOSDCUIN Information

IOSDCUIN Programming Interface Information

IOSDCUIN is a programming interface.

IOSDCUIN Heading Information

Common Name: IOS Control Unit Information Mapping
Macro ID: IOSDCUIN
DSECT Name: CUIIN
Owning Component: IOS (SC1C3)
Eye-Catcher ID: CUIIN
Offset: 0
Length: 4
Storage Attributes: Subpool: 248 or 1, use CUIIN_SUBPOOL when releasing storage
Key: IOSCUINF caller's key
Residency: Above 16M
Size: CUIIN -- X'0020' bytes
CUIINENTRY -- X'0090' bytes
CUIIN_PATHINFO_HEADER -- X'0004' bytes
CUIIN_PATHINFO -- X'0018' bytes
Created by: IOSVCUIIN
Pointed to by: N/A
Serialization: N/A
Function: Maps the output area associated with the IOSCUINF service.

IOSDCUIN mapping

Table 736. Structure CUIIN

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CUIIN	
0	(0)	CHARACTER	32	CUIINHDR(0)	
0	(0)	CHARACTER	4	CUIINID	Control block id 'CUIIN'
4	(4)	BITSTRING	1	CUIIN_VERSION	Version number
5	(5)	BITSTRING	1	CUIIN_HEADER_LENGTH	Length of header
6	(6)	BITSTRING	1	CUIIN_SUBPOOL	CUIIN area subpool
7	(7)	BITSTRING	1		Reserved
8	(8)	SIGNED	4	CUIIN_TOTAL_LENGTH	Length of entire area that must be freed by the caller
12	(C)	SIGNED	4	CUIIN_COUNT	Number of control unit entries
16	(10)	SIGNED	4	CUIIN_ENTRY_LENGTH	Length of each entry that is returned
20	(14)	CHARACTER	12		Reserved
20	(14)	X'20'	0	CUIIN_LEN	"*-CUIIN"

IOSDCUIN mapping

Table 737. Structure CUIENTRY

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CUIENTRY	
0	(0)	CHARACTER	144	CUI_ENTRY(0)	Control unit entry
0	(0)	CHARACTER	16	CUI_NUMBERS(0)	List of unique control unit numbers
0	(0)	SIGNED	2	CUI_NUMBER	Control unit number
16	(10)	BITSTRING	1	CUI_NUMBER_VALID	Control unit number validity mask
17	(11)	BITSTRING	1	CUI_CLASS	Control unit class '80'x=Tape '40'x=Communications '20'x=Direct access '10'x=Display '08'x=Unit record '04'x=Character reader All other class numbers currently are reserved for future use. (Declared constants for UCBTBYT3 in IEFUCBOB can be used.)
18	(12)	BITSTRING 1... .... .1..	1	CUI_ATTRIBUTES(0) CUI_PAV CUI_HYPERPAV	Control unit group "X'80'" At least one Parallel Access Volume exists in this LSS "X'40'" HyperPAV
19	(13)	CHARACTER	1		Reserved
20	(14)	CHARACTER	32	CUI_ND	Node descriptor
52	(34)	CHARACTER	32	CUI_TOKEN_NED	Token NED
84	(54)	CHARACTER	32	CUI_CU_NED	Control unit NED
116	(74)	CHARACTER	20	CUI_STATS(0)	Performance statistics
116	(74)	SIGNED	4	CUI_NO_ALIAS_IO	The number of times an I/O request could not start for an LSS because no HyperPAV aliases were available and the device was not waiting for a reserve to be released from another system or long busy to subside
120	(78)	SIGNED	4	CUI_IO_REQUESTS	The total number of HyperPAV I/O requests for the LSS
124	(7C)	SIGNED	4	CUI_HW_ALIASES_IN_USE	The high water mark usage information on the number of in-use HyperPAV-alias devices for the LSS
128	(80)	SIGNED	4	CUI_HW_CONCURRENT_ALIASES	The high water mark of the number of aliases concurrently in use by any HyperPAV-base for the LSS
132	(84)	SIGNED	4	CUI_HW_IO_REQUESTS	The high water mark of IO requests
136	(88)	SIGNED	4	CUI_PATHINFO_OFFSET	Offset into the CUI structure where pathinfo data for this CUI_Entry is returned
140	(8C)	CHARACTER	4		Reserved
140	(8C)	X'90'	0	CUIENTRY_LEN	"*-CUIENTRY"

Table 738. Structure CUIIN_PATHINFO_HEADER

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
0	(0)	STRUCTURE		0	CUIIN_PATHINFO_HEADER	PATHINFO data
0	(0)	SIGNED		2	CUIIN_PI_ENTLEN	Length of each PI entry
2	(2)	BITSTRING		1	CUIIN_PI_HDRLEN	Length of CUIIN_PathInfo_Header
3	(3)	BITSTRING		1	CUIIN_PI_ENTRY_NUMBER	Number of PI entries
3	(3)	X'4'		0	CUIIN_PATHINFO_HEADER_LEN	"*-CUIIN_PATHINFO_HEADER"

Table 739. Structure CUIIN_PATHINFO

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
0	(0)	STRUCTURE		0	CUIIN_PATHINFO	PathInfo Entry
0	(0)	SIGNED		2	CUIIN_PI_CU	Control unit number
2	(2)	SIGNED		2	CUIIN_PI_INTERFACEID	Interface Id
4	(4)	SIGNED		2	CUIIN_PI_TAG	Tag
6	(6)	BITSTRING		1	CUIIN_PI_CHPID	CHPID
7	(7)	BITSTRING		5	CUIIN_PI_FLAGS(0)	PathInfo flags
			1111		CUIIN_PI_LA_VALIDITY_FLAGS	"X'F0" Validity flags
			1...		CUIIN_PI_LA_DOMAIN_VALID	"X'80" Link address domain valid
			.1..		CUIIN_PI_LA_PORT_VALID	"X'40" Link address port valid
			..1.		CUIIN_PI_LA_PP_VALID	"X'20" Link address PP valid
			...1		CUIIN_PI_LA_LOGADDR_VALID	"X'10" Link address logical address valid
			.... 1..		CUIIN_PI_FICON	"X'08" CHPID is FICON
			.... .1..		CUIIN_PI_TAG_VALID	"X'04" Tag field is valid
7	(7)	BITSTRING		4		Reserved
12	(C)	SIGNED		4	CUIIN_PI_LINKADDRESS(0)	Link address
12	(C)	BITSTRING		1	CUIIN_PI_LA_DOMAIN	Domain of switch
13	(D)	BITSTRING		1	CUIIN_PI_LA_PORTADDR	Destination port address for path associated with corresponding CHPID
14	(E)	BITSTRING		1	CUIIN_PI_LA_PP	F-PORT and NL_PORT
15	(F)	BITSTRING		1	CUIIN_PI_LOGICALADDR	Logical address
16	(10)	BITSTRING		8	CUIIN_PI_WWPN	WWPN
16	(10)	X'E4C9D5'		0	CUIIN_NAME	"C'CUIIN'" Defines CUIINID
16	(10)	X'1'		0	CUIIN_CURRVRSN	"1" Current version
16	(10)	X'18'		0	CUIIN_PATHINFO_LEN	"*-CUIIN_PATHINFO"

Table 740. Cross Reference for IOSDCUIN

Name	Offset	Hex Tag
CUIIN	0	
CUIIN_ATTRIBUTES	12	
CUIIN_CLASS	11	
CUIIN_COUNT	C	
CUIIN_CU_NED	54	
CUIIN_CURRVRSN	10	1
CUIIN_ENTRY	0	
CUIIN_ENTRY_LENGTH	10	
CUIIN_HEADER_LENGTH	5	
CUIIN_HW_ALIASES_IN_USE	7C	

IOSDCUIN mapping

Table 740. Cross Reference for IOSDCUIN (continued)

Name	Offset	Hex Tag
CUIN_HW_CONCURRENT_ALIASES	80	
CUIN_HW_IO_REQUESTS	84	
CUIN_HYPERPAV	12	40
CUIN_IO_REQUESTS	78	
CUIN_LEN	14	20
CUIN_NAME	10	E4C9D5
CUIN_ND	14	
CUIN_NO_ALIAS_IO	74	
CUIN_NUMBER	0	
CUIN_NUMBER_VALID	10	
CUIN_NUMBERS	0	
CUIN_PATHINFO	0	
CUIN_PATHINFO_HEADER	0	
CUIN_PATHINFO_HEADER_LEN	3	4
CUIN_PATHINFO_LEN	10	18
CUIN_PATHINFO_OFFSET	88	
CUIN_PAV	12	80
CUIN_PI_CHPID	6	
CUIN_PI_CU	0	
CUIN_PI_ENTLEN	0	
CUIN_PI_ENTRY_NUMBER	3	
CUIN_PI_FICON	7	8
CUIN_PI_FLAGS	7	
CUIN_PI_HDRLEN	2	
CUIN_PI_INTERFACEID	2	
CUIN_PI_LA_DOMAIN	C	
CUIN_PI_LA_DOMAIN_VALID	7	80
CUIN_PI_LA_LOGADDR_VALID	7	10
CUIN_PI_LA_PORT_VALID	7	40
CUIN_PI_LA_PORTADDR	D	
CUIN_PI_LA_PP	E	
CUIN_PI_LA_PP_VALID	7	20
CUIN_PI_LA_VALIDITY_FLAGS	7	F0
CUIN_PI_LINKADDRESS	C	
CUIN_PI_LOGICALADDR	F	
CUIN_PI_TAG	4	
CUIN_PI_TAG_VALID	7	4
CUIN_PI_WWP	10	
CUIN_STATS	74	
CUIN_SUBPOOL	6	
CUIN_TOKEN_NED	34	
CUIN_TOTAL_LENGTH	8	
CUIN_VERSION	4	
CUINENTRY	0	
CUINENTRY_LEN	8C	90
CUINHDR	0	
CUINID	0	

Chapter 188. IOSDDACH Information

IOSDDACH Programming Interface Information

IOSDDACH is a programming interface.

IOSDDACH Heading Information

Common Name: IOS ENF device availability change parameter list
Macro ID: IOSDDACH
DSECT Name: DACH
Owning Component: IOS (SC1C3)
Eye-Catcher ID: DACH
Offset: 0
Length: 4
Storage Attributes: Subpool: 245
Key: 0
Residency: Above 16M line
Size: 64 bytes
DACH -- X'0040' bytes
Created by: IOSRSCH (Subchannel recovery) or IOSCACDR
or IOSCDCDR or IOSVLPEP or IOSVSWR
Pointed to by: N/A
Serialization: None
Function: IOSDDACH maps the parameter list passed to the listeners of ENF code 33.
NOTES= The ENF qualifier used for this signal has the following format:
BYTE 1: Device class (Byte 3 from UCBTYP)
BYTE 2: Reserved
BYTES 3-4: Qualifier number.
Each qualifier number designates a general class of events- such as IO subchannel change or IO resource available. Along with each qualifier number is a qualifier number dependent mapping which designates fields specific to the general class of events. The DACHTYPE field is used to designate the exact event which occurred under the given qualifier number. Since the values of DACHTYPE are unique, this field can be used to determine which qualifier number dependent area is to be used when no ENF qualifier is specified. Furthermore, it can be used in the same manner when only the device class (DACHUCBC) portion of the ENF qualifier is used. An alternate method of determining the proper mapping to use for listeners not using the ENF qualifier is through the use of the DACHQC field. This field contains a copy of the ENF qualifier used for signalling. The qualifier number which determines the mapping used is a part of DACHQC.

IOSDDACH mapping

Table 741. Structure DACH

Offset	Offset		Len	Name(Dim)	Description
Dec	Hex	Type			
0	(0)	STRUCTURE	0	DACH	ENF signal 33 parameter list
0	(0)	CHARACTER	4	DACHID	Control block ID
4	(4)	BITSTRING	1	DACHVERS	Version number
5	(5)	CHARACTER	2	DACHDEVC	Device category
7	(7)	CHARACTER	4	DACHTYPE	Type of change that occurred to the device (See constant declaration for valid types)
11	(B)	CHARACTER	1		reserved
12	(C)	CHARACTER	32	DACHQUALD	Qualifier dependent area
44	(2C)	CHARACTER	4	DACHQC(0)	Copy of ENF Qualifier.
44	(2C)	CHARACTER	1	DACHUCBC	Device class from UCBTYP field (Byte 3 of UCBTYP)
45	(2D)	CHARACTER	1		Reserved.
46	(2E)	SIGNED	2	DACHQN	DACH qualifier number field
48	(30)	CHARACTER	16	DACHRES	reserved
64	(40)	CHARACTER	1	DACHEND(0)	End of DACH parameter list
64	(40)	X'40'	0	DACH_LEN	"*-DACH"
Qualifier dependent areas follow.					
Qualifier dependent area for I/O subchannel change.					
12	(C)	BITSTRING	1	DACH_IO_FIELDS(0)	
12	(C)	SIGNED	2	DACH_IO_DEVN	Device number undergoing a subchannel change
14	(E)	CHARACTER	4	DACH_IO_DTYP	Device type from UCBTYP
18	(12)	BITSTRING	1	DACH_IO_SSID	Subchannel set of the device number
19	(13)	BITSTRING	1	DACH_IO_QUAL	Qualifier for event (May or may not be used, depends on DACHTYPE).
19	(13)	X'1'	0	DACH_IO_QUAL_MONC_ON	"1" DACHTYPE=DACHMONC, The device identified in DACH_IO_DEVN and DACH_IO_SSID now requires monitoring
19	(13)	X'2'	0	DACH_IO_QUAL_MONC_OFF	"2" DACHTYPE=DACHMONC, one or more devices that required monitoring no longer require monitoring.
19	(13)	X'8'	0	DACH_IO_FIELDS_LEN	"*-DACH_IO_FIELDS"
Qualifier dependent area for IO resource accessible					
12	(C)	BITSTRING	1	DACH_IORA_FIELDS(0)	
12	(C)	SIGNED	2	DACH_IORA_DEVN	Device number becoming accessible
14	(E)	CHARACTER	4	DACH_IORA_DTYP	Device type from UCBTYP
18	(12)	BITSTRING	1	DACH_IORA_CHPD	CHPID established.
19	(13)	BITSTRING	1	DACH_IORA_FLAGS(0)	
		1...		DACH_IORA_ONLI	"X'80'" On if device was online
		.1..		DACH_IORA_VARY_DEV	"X'40'" On if IOS issued a VARY command in order to bring a device online that was marked offline due to CC3 during NIP

Table 741. Structure DACH (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
20	(14)	BITSTRING	1	DACH_IORA_SSID	Subchannel set ID associated with the IO resource
21	(15)	CHARACTER	23		Reserved
Value for DACHID					
21	(15)	X'C1C3C8'	0	DACHDACH	"C'DACH'" DACH control block ID
Value for DACHVERS					
21	(15)	X'1'	0	DACHVERC	"1" DACH version number
Value for DACHDEV					
21	(15)	X'C9D6'	0	DACHDTIO	"C'IO'" Device undergoing subchannel change is an I/O device
21	(15)	X'C3E4'	0	DACHDTCU	"C'CU'" Device category is Control Unit
Value for DACH_TRAN_MODE					
21	(15)	X'1'	0	DACH_HYPERPAV_TRANSITION	"1" PAVMode change processing is requested for all devices in the LSS, target transition is HyperPAV mode.
21	(15)	X'2'	0	DACH_BASEPAV_TRANSITION	"2" PAVMode change processing is requested for all devices in the LSS, target transition is Base PAV mode.
Value for DACH_PCIE_EVENT					
21	(15)	X'1'	0	DACH_PCIE_DEVICE_ONLINE	"1" PCIE Device is online
21	(15)	X'2'	0	DACH_PCIE_DEVICE_OFFLINE	"2" PCIE Device is offline
21	(15)	X'20'	0	DACH_IORA_FIELDS_LEN	"*-DACH_IORA_FIELDS"
Qualifier dependent area for CDR change (add or delete CDR record)					
12	(C)	BITSTRING	1	DACH_CCDR_FIELDS(0)	
12	(C)	CHARACTER	8	DACH_CCDR_TIMESTP(0)	TOD clock value
12	(C)	CHARACTER	4	DACH_CCDR_DATE	Date
16	(10)	CHARACTER	4	DACH_CCDR_TIME	Time
20	(14)	SIGNED	2	DACH_CCDR_DEVN	Device number undergoing a CDR change
22	(16)	CHARACTER	4	DACH_CCDR_DTYP	Device type from UCBTYP
26	(1A)	SIGNED	2	DACH_CCDR_CDRLLEN	Length of CDR record
28	(1C)	ADDRESS	4	DACH_CCDR_CDRADR	Address of CDR record
32	(20)	BITSTRING	1	DACH_CCDR_CHPID	Channel path that the CDR record was obtained
32	(20)	X'15'	0	DACH_CCDR_FIELDS_LEN	"*-DACH_CCDR_FIELDS"
Qualifier dependent area for Parallel Access Volume changes.					
12	(C)	BITSTRING	1	DACH_PAV_FIELDS(0)	
12	(C)	SIGNED	2	DACH_PAV_DEVN	Device number of PAV-base device
14	(E)	CHARACTER	2	DACH_PAV_FLGS(0)	Flags
		1...		DACH_PAVBIND	"X'80'" Alias is bound to base
		.1..		DACH_PAVUNBIND	"X'40'" Alias is unbound from base

IOSDDACH mapping

Table 741. Structure DACH (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
	..1.	....		DACH_PAVUNBINDALL	"X'20'" All aliases are unbound from base
	...1	....		DACH_PAVSCHIBDATAVALID	"X'10'" Schib data is valid
	....	1...		DACH_PAV_BASEMBIVALID	"X'08'" The MBI for the base device is valid
	....	.1..		DACH_PAV_ALIASMIVALID	"X'04'" The MBI for the alias device is valid
	....	..1.		DACH_PAV_DBT_VALID	"X'02'" The device busy time for the alias device is valid
14	(E)	BITSTRING	1		Reserved
16	(10)	SIGNED	2	DACH_PAV_CNT	Count of PAVs, including base
18	(12)	BITSTRING	1	DACH_PAV_SSIDBASE	Subchannel set ID associated with the PAV-Base dev.
19	(13)	CHARACTER	1		Reserved
20	(14)	CHARACTER	4	DACH_PAV_TOKN	PAV token after change
24	(18)	CHARACTER	12	DACH_PAV_SCHIBDATA(0)	Schib Data
24	(18)	SIGNED	4	DACH_PAV_DEVICEBUSYDIME	Device busy delay time
28	(1C)	SIGNED	4	DACH_PAV_CUBUSYDIME	CU busy delay time
32	(20)	SIGNED	4	DACH_PAV_DPORTBUSYDIME	Destination port busy delay time
36	(24)	SIGNED	2	DACH_PAV_DEVNaliases	Device number of PAV-Alias device if this is a bind or unbind request
38	(26)	SIGNED	2	DACH_PAVBASEMBI	MBI for base device
40	(28)	SIGNED	2	DACH_PAVALIAMB I	MBI for alias device
42	(2A)	BITSTRING	1	DACH_PAV_SSIDALIAS	Subchannel set of the alias device number
43	(2B)	CHARACTER	1		Reserved
43	(2B)	X'20'	0	DACH_PAV_FIELDS_LEN	"*-DACH_PAV_FIELDS"
Qualifier dependent area for Switch table change.					
12	(C)	BITSTRING	1	DACH_ST_FIELDS(0)	
12	(C)	CHARACTER	4	DACH_SW_SWITCHNUMBER	Switch device number updated
16	(10)	CHARACTER	2	DACH_SW_PORTNUMBER	Port Address on Switch
16	(10)	X'6'	0	DACH_ST_FIELDS_LEN	"*-DACH_ST_FIELDS"
Qualifier dependent area for Device Offline and In Use by System Component					
12	(C)	BITSTRING	1	DACH_NALOC_FIELDS(0)	
12	(C)	CHARACTER	32	DACH_NALOC(0)	Device offline and in use by system component
12	(C)	ADDRESS	4	DACHNALOCUCB	UCB for device in use
44	(2C)	X'20'	0	DACH_NALOC_FIELDS_LEN	"*-DACH_NALOC_FIELDS"
Qualifier dependent area for Control Unit Transitions					
12	(C)	BITSTRING	1	DACH_TRAN_FIELDS(0)	
12	(C)	SIGNED	2	DACH_TRAN_CU	Control unit number undergoing transition
14	(E)	BITSTRING	1	DACH_TRAN_MODE	Target transition mode
15	(F)	CHARACTER	29		Reserved
15	(F)	X'20'	0	DACH_TRAN_FIELDS_LEN	"*-DACH_TRAN_FIELDS"
Qualifier dependent area for PCIE Device Event					
12	(C)	BITSTRING	1	DACH_PCIE_FIELDS(0)	

Table 741. Structure DACH (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
12	(C)	SIGNED	4	DACH_PCIE_PFIID	PFID of PCIE device involved in event
16	(10)	SIGNED	2	DACH_PCIE_DEVID	Device ID of PCIE device involved in event
18	(12)	SIGNED	2	DACH_PCIE_VENDID	Vendor ID of PCIE device involved in event
20	(14)	BITSTRING	1	DACH_PCIE_EVENT	Device event code
21	(15)	CHARACTER	23		Reserved
Values for DACH qualifier number field (DACHQN). This is part of the ENF qualifier.					
		....	...1	DACHIO	"X'0001'" Qualifier value for ENF signal/listener when listening for an IO subchannel change
		....	..1.	DACHIORA	"X'0002'" Qualifier value for ENF signal/listener when listening for IO resource available.
		....	..11	DACHCCDR	"X'0003'" Qualifier value for ENF signal/listener when listening for a change CDR (add or delete Configuration Data Record)
		....	.1..	DACHPAV	"X'0004'" Qualifier value for ENF signal/listener when listening for a change in the set of PAV UCBs
		....	.1.1	DACHQAPI	"X'0005'" Qualifier value for ENF signal/listener when listening for a change in the Adjunct Processor Information
		....	.11.	DACHSTC	"X'0006'" Qualifier value for ENF signal/listener when listening for a change in the switch table
		....	.111	DACHNAC	"X'0007'" Qualifier value for ENF signal/listener when listening for an offline device in use by system component
		....	1...	DACHTRAN	"X'0008'" Qualifier value for ENF signal/listener when listening for a control unit transitioning event
		....	1..1	DACHPCIE	"X'0009'" Qualifier value for ENF signal/listener when listening for a PCIE Device event
21	(15)	BITSTRING	0	DACHIO_AS	"X'1001'" Qualifier value for ENF signal/listener when listening for an IO subchannel change for a device in an alternate subchannel set

IOSDDACH mapping

Table 741. Structure DACH (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
21	(15)	BITSTRING	0	DACHIORA_AS	"X'1002'" Qualifier value for ENF signal/listener when listening for an IO resource available in an alternate subchannel set
21	(15)	BITSTRING	0	DACHPAV_AS	"X'1004'" Qualifier value for ENF signal/listener when listening for a change in the set of PAV UCBs of which a device is in an alternate subchannel set
<p>Values for DACHTYPE field follow. These values MUST be unique even though they are further defining a specific qualifier number. The reason for this is that some listeners may not use the qualifier number field ENF qualifier, but still need to determine the exact event that occurred.</p> <p>Values for DACHTYPE field. These are types defining the IO subchannel change qualifier number.</p>					
21	(15)	X'D7C940'	0	DACHIPI	"C'IPI '" Installed parameters initialized
21	(15)	X'D7D440'	0	DACHIPM	"C'IPM '" Installed parameters modified
21	(15)	X'D7D940'	0	DACHIPR	"C'IPR '" Installed parameters restored
<p>Values for DACHTYPE field. These are types defining the IO resource available qualifier number.</p>					
21	(15)	X'D7C540'	0	DACHLPE	"C'LPE '" Logical path established type.
<p>Values for DACHTYPE field. These are types defining the change CDR qualifier number.</p>					
21	(15)	X'C3C4D9'	0	DACHACDR	"C'ACDR'" Change CDR is an add CDR record
21	(15)	X'C3C4D9'	0	DACHDCDR	"C'DCDR'" Change CDR is a delete CDR record
<p>Values for DACHTYPE field. This type is for the set of Parallel Access Volumes Alias UCBs.</p>					
21	(15)	X'C1E5E2'	0	DACHPAVS	"C'PAVS'" Change in the set of PAV-alias devices
<p>Values for DACHTYPE field. This type is for the Adjunct Processor Information.</p>					
21	(15)	X'D7C940'	0	DACHAPI	"C'API '" Change in the Adjunct Processor Info
<p>Values for DACHTYPE field. These fields define the Port Record update.</p>					
21	(15)	X'E6E3C2'	0	DACHSWTB	"C'SWTB'" Change in the Port State
<p>Values for DACHTYPE field. This type is for the Device Offline and In Use by System Component ENF.</p>					
21	(15)	X'C1D3C3'	0	DACHNALOC	"C'NALC'" Offline device in use

Table 741. Structure DACH (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
Values for DACHTYPE field. This type is for the Control Unit Transition event					
21	(15)	X'D9C1D5'	0	DACHTYPETRAN	"C'TRAN'" Transition
Values for DACHTYPE field. This type is for the PCIE Online/Offline event					
21	(15)	X'C3C9C5'	0	DACHTYPEPCIE	"C'PCIE'" PCIE Event
Values for DACHTYPE field. This type is for a monitor change request event					
21	(15)	X'D6D5C3'	0	DACHMONC	"C'MONC'" Monitoring change is requested
21	(15)	X'20'	0	DACH_PCIE_FIELDS_LEN	"*-DACH_PCIE_FIELDS"

Table 742. Cross Reference for IOSDDACH

Name	Offset	Hex	Tag
DACH	0		
DACH_BASEPAV_TRANSITION	15		2
DACH_CCDR_CDRADR	1C		
DACH_CCDR_CDRLLEN	1A		
DACH_CCDR_CHPID	20		
DACH_CCDR_DATE	C		
DACH_CCDR_DEVN	14		
DACH_CCDR_DTYP	16		
DACH_CCDR_FIELDS	C		
DACH_CCDR_FIELDS_LEN	20		15
DACH_CCDR_TIME	10		
DACH_CCDR_TIMESTP	C		
DACH_HYPERPAV_TRANSITION	15		1
DACH_IO_DEVN	C		
DACH_IO_DTYP	E		
DACH_IO_FIELDS	C		
DACH_IO_FIELDS_LEN	13		8
DACH_IO_QUAL	13		
DACH_IO_QUAL_MONC_OFF	13		2
DACH_IO_QUAL_MONC_ON	13		1
DACH_IO_SSID	12		
DACH_IORA_CHPD	12		
DACH_IORA_DEVN	C		
DACH_IORA_DTYP	E		
DACH_IORA_FIELDS	C		
DACH_IORA_FIELDS_LEN	15		20
DACH_IORA_FLAGS	13		
DACH_IORA_ONLI	13		80
DACH_IORA_SSID	14		
DACH_IORA_VARY_DEV	13		40
DACH_LEN	40		40
DACH_NALOC	C		

IOSDDACH mapping

Table 742. Cross Reference for IOSDDACH (continued)

Name	Offset	Hex Tag
DACH_NALOC_FIELDS	C	
DACH_NALOC_FIELDS_LEN	2C	20
DACH_PAV_ALIASMBIVALID	E	4
DACH_PAV_BASEMBIVALID	E	8
DACH_PAV_CNT	10	
DACH_PAV_CUBUSYDIME	1C	
DACH_PAV_DBT_VALID	E	2
DACH_PAV_DEVICEBUSYDIME	18	
DACH_PAV_DEVN	C	
DACH_PAV_DEVNALIAS	24	
DACH_PAV_DPORTBUSYDIME	20	
DACH_PAV_FIELDS	C	
DACH_PAV_FIELDS_LEN	2B	20
DACH_PAV_FLGS	E	
DACH_PAV_SCHIBDATA	18	
DACH_PAV_SSIDALIAS	2A	
DACH_PAV_SSIDBASE	12	
DACH_PAV_TOKN	14	
DACH_PAVALIASMBI	28	
DACH_PAVBASEMBI	26	
DACH_PAVBIND	E	80
DACH_PAVSCHIBDATAVALID	E	10
DACH_PAVUNBIND	E	40
DACH_PAVUNBINDALL	E	20
DACH_PCIE_DEVICE_OFFLINE	15	2
DACH_PCIE_DEVICE_ONLINE	15	1
DACH_PCIE_DEVID	10	
DACH_PCIE_EVENT	14	
DACH_PCIE_FIELDS	C	
DACH_PCIE_FIELDS_LEN	15	20
DACH_PCIE_PFID	C	
DACH_PCIE_VENDID	12	
DACH_ST_FIELDS	C	
DACH_ST_FIELDS_LEN	10	6
DACH_SW_PORTNUMBER	10	
DACH_SW_SWITCHNUMBER	C	
DACH_TRAN_CU	C	
DACH_TRAN_FIELDS	C	
DACH_TRAN_FIELDS_LEN	F	20
DACH_TRAN_MODE	E	
DACHACDR	15	C3C4D9
DACHAPI	15	D7C940
DACHCCDR	15	3
DACHDACH	15	C1C3C8
DACHDCDR	15	C3C4D9
DACHDEVC	5	
DACHDTCU	15	C3E4
DACHDTIO	15	C9D6
DACHEND	40	

Table 742. Cross Reference for IOSDDACH (continued)

Name	Offset	Hex Tag
DACHID	0	
DACHIO	15	1
DACHIO_AS	15	1001
DACHIORA	15	2
DACHIORA_AS	15	1002
DACHIPI	15	D7C940
DACHIPM	15	D7D440
DACHIPR	15	D7D940
DACHLPE	15	D7C540
DACHMONC	15	D6D5C3
DACHNAC	15	7
DACHNALOC	15	C1D3C3
DACHNALOCUCB	C	
DACHPAV	15	4
DACHPAV_AS	15	1004
DACHPAVS	15	C1E5E2
DACHPCIE	15	9
DACHQAPI	15	5
DACHQC	2C	
DACHQN	2E	
DACHQUALD	C	
DACHRES	30	
DACHSTC	15	6
DACHSWTB	15	E6E3C2
DACHTRAN	15	8
DACHTYPE	7	
DACHTYPEPCIE	15	C3C9C5
DACHTYPETRAN	15	D9C1D5
DACHUCBC	2C	
DACHVERC	15	1
DACHVERS	4	

IOSDDACH mapping

Chapter 189. IOSDDDCMI Information

IOSDDDCMI Programming Interface Information

IOSDDDCMI is a programming interface.

IOSDDDCMI Heading Information

Common Name: Dynamic Channel Path Management Information Area
Macro ID: IOSDDDCMI
DSECT Name: IOSDDDCMI
Owning Component: I/O Supervisor (SC1C3)
Eye-Catcher ID: DCMI
Offset: 0
Length: 4
Storage Attributes: Subpool: User
Key: User
Data Space: No
Residency: 31 Bit
Size: 32-bytes
Created by: Issuer of IOCINFO DCMINFO service
Pointed to by: N/A
Serialization: None
Function: IOSDDDCMI maps the Dynamic Channel Path Management (DCM) information returned by the IOCINFO DCMINFO service.

IOSDDDCMI mapping

Table 743. Structure DCMI

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DCMI	DCM information area
0	(0)	CHARACTER	4	DCMIID	Eye catcher
4	(4)	BITSTRING	1	DCMIVERSION	DCMI version number
5	(5)	BITSTRING	3		Available
8	(8)	BITSTRING	1	DCMISTATUSFLAGS	DCM status flags
		1...		DCMIACTIVE	"X'80'" When set to 1, indicates that DCM is operational. When set to 0, indicates that DCM is not operational for one or more of the reasons listed below.
		.1..		DCMILOCALMONO	"X'40'" When set to 1, indicates the system is either XCF-local or monoplex.
		..1.		DCMIMULTISYSTEM	"X'20'" When set to 1, indicates the system is a member of a multisystem cluster.

IOSDDCMI mapping

Table 743. Structure DDMI (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		DCMIGOALMODE	"X'10'" When set to 1, indicates DCM is running in WLM goal mode. When set to 0, DCM is running in WLM balance mode. EQU X'08' Available EQU X'04' Available EQU X'02' Available EQU X'01' Available
9	(9)	BITSTRING	1	DCMIGLOBALREASON	DCM flags which indicate the reasons why DCM is not operational on any system in the cluster.
		1...		DCMINOCFCCONNECT	"X'80'" When set to 1, indicates DCM is not operational because of a coupling facility connectivity error.
		.1..		DCMINOHSATOKEN	"X'40'" When set to 1, indicates DCM is not operational because there is no HW token or there is an incompatible token in the Hardware System Area (HSA).
		..1.		DCMINOMGDCHPIDS	"X'20'" When set to 1, indicates DCM is not operational because there are no managed channel paths defined.
		...1		DCMINOHWFACILITIES	"X'10'" When set to 1, indicates DCM is not operational because DCM facilities are not supported by the hardware.
		.... 1...		DCMISETOFF	"X'08'" When set to 1, indicates DCM is not operational because DCM was turned off by a command. EQU X'04' Available EQU X'02' Available EQU X'01' Available
10	(A)	BITSTRING	1	DCMILOCALREASON	DCM flags which indicate the reasons why DCM is not fully operational on this system image within a multisystem cluster.
		1...		DCMICHPTERROR	"X'80'" When set to 1, indicates the DCM Channel Path Table (CHPT) could not be built on this system image.
		.1..		DCMISWTBERROR	"X'40'" When set to 1, indicates the DCM Switch Table (SWTB) could not be built on this system image.
		..1.		DCMINOMGDSUBSYSTEMS	"X'20'" When set to 1, indicates no DCM managed subsystems are defined or visible on this system image.
		...1		DCMINOLPARSESECURITY	"X'10'" When set to 1, indicates LPAR authorization failed for this system image.
		.... 1...		DCMINOALGORITHMS	"X'08'" When set to 1, indicates that DCM algorithms cannot run on this system image for one or more of

Table 743. Structure DDCMI (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		DCMINODYNAMICIO	"X'04'" When set to 1, indicates that dynamic I/O changes to the channel subsystem are not allowed on this image
		.... ..1.		DCMIDCMINGROUP	"X'02'" When set to 1, indicates that the DCM Group has been joined
		.... ...1		DCMINNDEERROR	"X'01'" When set to 1, neighbor node descriptor topology has not been built
11	(B)	BITSTRING	1	DCMILOCALREASON2	DCM flags which indicate the reasons why DCM is not fully operational on this system image within a multisystem cluster.
		1...		DCMISWITCHTABLESYNCHRONIZED	"X'80'" When set to 1, indicates the Switch Table Synchronization completed. EQU X'40' Available EQU X'20' Available EQU X'10' Available EQU X'08' Available EQU X'04' Available EQU X'02' Available EQU X'01' Available
12	(C)	CHARACTER	20		Available

Table 744. Cross Reference for IOSDDDCMI

Name	Offset	Hex	Tag
DCMI	0		
DCMIACTIVE	8	80	
DCMICHPTERROR	A	80	
DCMIDCMINGROUP	A	2	
DCMIGLOBALREASON	9		
DCMIGOALMODE	8	10	
DCMIID	0		
DCMILOCALMONO	8	40	
DCMILOCALREASON	A		
DCMILOCALREASON2	B		
DCMIMULTISYSTEM	8	20	
DCMINNDEERROR	A	1	
DCMINOALGORITHMS	A	8	
DCMINOCFCONNECT	9	80	
DCMINODYNAMICIO	A	4	
DCMINOHSATOKEN	9	40	
DCMINOHWFACILITIES	9	10	
DCMINOLPARSESECURITY	A	10	
DCMINOMGDCHPIDS	9	20	
DCMINOMGDSUBSYSTEMS	A	20	
DCMISSETOFF	9	8	
DCMISTATUSFLAGS	8		
DCMISWITCHTABLESYNCHRONIZED	B	80	
DCMISWTBERROR	A	40	

IOSDDCMI mapping

Table 744. Cross Reference for IOSDDCMI (continued)

Name	Offset	Hex Tag
DCMIVERSION	4	

Chapter 190. IOSDDEVI Information

IOSDDEVI Programming Interface Information

IOSDDEVI is a programming interface.

IOSDDEVI Heading Information

Common Name: Device information mapping
 Macro ID: IOSDDEVI
 DSECT Name: DEVI
 Owing Component: IOS (SC1C3)
 Eye-Catcher ID: none
 Storage Attributes: Subpool: caller-provided
 Key: caller-provided
 Residency: caller-provided
 Size: DEVI -- X'0100' bytes
 Created by: issuer of UCBINFO DEVINFO
 Pointed to by: N/A
 Serialization: N/A
 Function: Maps the input/output area for the DEVIAREA keyword associated with UCBINFO DEVINFO.

IOSDDEVI mapping

Table 745. Structure DEVI

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
0	(0)	STRUCTURE		0	DEVI	DEVI information mapping
0	(0)	BITSTRING		2	DEVIFCTN(0)	Indicates which device information areas will be filled in.
		1...	....		DEVIOFSA	"X'80'" Indicates that the device offline reasons area is filled in.
		.1..	....		DEVIALVA	"X'40'" Indicates that the PAV info is filled in
		..1.	....		DEVIFACA	"X'20'" Indicates that the device facilities area is filled in
0	(0)	BITSTRING		1		Reserved.
2	(2)	BITSTRING		2	DEVIOFRS(0)	Device offline reasons. Reasons why device is being held in the offline state.
		1...	....		DEVIORSN	"X'80'" Offline for operator reasons.
		.1..	....		DEVIHRSN	"X'40'" Offline for hierarchy reasons.
		..1.	....		DEVIALOC	"X'20'" Allocated offline because in use by a system component.

IOSDDEVI mapping

Table 745. Structure DEVI (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		DEVILRSN	"X'10'" Offline for tape library reasons.
		.... 1...		DEVICRSN	"X'08'" Offline for configuration manager reasons.
		.... .1..		DEVICUIR	"X'04'" Offline for conditional CUIR reasons
		.... ..1.		DEVIUCUI	"X'02'" Offline for unconditional CUIR reasons
2	(2)	BITSTRING	1		Reserved.
4	(4)	CHARACTER	8	DEVIPAVI(0)	Parallel Access Volume Info
4	(4)	SIGNED	2	DEVIHPPC	If DEVIPAVH is on, this field contains the number of HyperPAV alias devices for the input device
6	(6)	SIGNED	2	DEVIPAVT	If DEVIPAVB is on indicating the input device is an active PAV-base, then this field contains the current total number of PAV devices associated with the input device (i.e., the count of bound PAV-alias devices plus 1 for the PAV-base). Otherwise, this field is set to zero
8	(8)	CHARACTER	2	DEVIPAVF(0)	PAV flags
		1...		DEVIPAVC	"X'80'" PAV-base capability
		.1..		DEVIPAVB	"X'40'" Indicates that the input device is an active PAV-base. This implies the PAV-base has one or more bound PAV-alias devices associated with it.
		..1.		DEVIPAVH	"X'20'" Indicates that the input device is a HyperPAV device. This implies that DEVIHPPC contains the count of the number of HyperPAV aliases configured for the input device
8	(8)	BITSTRING	1		Reserved
10	(A)	CHARACTER	2		Reserved
12	(C)	SIGNED	4	DEVIFACL(0)	Device facilities area
12	(C)	BITSTRING	1	DEVIFACL_BYTE0(0)	
Device facilities area byte 0					
		1...		DEVIFCX	"X'80'" The FICON Channel Extensions (FCX) facility (i.e., High Performance FICON) is supported
		.1..		DEVIMIDA	"X'40'" Device supports MIDAWs
13	(D)	BITSTRING	1	DEVIFACL_BYTE1(0)	
Device facilities area byte 1					
13	(D)	BITSTRING	1		Reserved
14	(E)	BITSTRING	1	DEVIFACL_BYTE2(0)	
Device facilities area byte 2					

Table 745. Structure DEVI (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
14	(E)	BITSTRING	1		Reserved
15	(F)	BITSTRING	1	DEVIFACL_BYTE3(0)	
Device facilities area byte 3					
15	(F)	BITSTRING	1		Reserved
16	(10)	CHARACTER	2	DEVIFLAG1(0)	Device information flags
16	(10)	BITSTRING	1	DEVIFLAG1_BYTE0(0)	Device information flags byte 0
		1... ..		DEVIDYNSUP	"X'80'" This device supports dynamic
		.1..		DEVIDYN	"X'40'" This device is dynamic
		..1.		DEVIPAVW	"X'20'" Customer has requested dynamic alias tuning by WLM for this device
		...1		DEVIPIN	"X'10'" This device is currently pinned
		.... 1...		DEVIUAVL	"X'08'" This device is currently unavailable for allocation
		.... .1..		DEVIMONR	"X'04'" This device should be monitored for I/O activity
18	(12)	CHARACTER	238		Reserved
18	(12)	X'100'	0	DEVI_LEN	"*-DEVI"

Table 746. Cross Reference for IOSDDEVI

Name	Offset	Hex Tag
DEVI	0	
DEVI_LEN	12	100
DEVIALOC	2	20
DEVIALVA	0	40
DEVICRSN	2	8
DEVICUIR	2	4
DEVIDYN	10	40
DEVIDYNSUP	10	80
DEVIFACA	0	20
DEVIFACL	C	
DEVIFACL_BYTE0	C	
DEVIFACL_BYTE1	D	
DEVIFACL_BYTE2	E	
DEVIFACL_BYTE3	F	
DEVIFCTN	0	
DEVIFCX	C	80
DEVIFLAG1	10	
DEVIFLAG1_BYTE0	10	
DEVIHPPC	4	
DEVIHRSN	2	40
DEVILRSN	2	10
DEVIMIDA	C	40
DEVIMONR	10	4
DEVIOFRS	2	
DEVIOFSA	0	80

IOSDDEVI mapping

Table 746. Cross Reference for IOSDDEVI (continued)

Name	Offset	Hex Tag
DEVIORSN	2	80
DEVIPAVB	8	40
DEVIPAVC	8	80
DEVIPAVF	8	
DEVIPAVH	8	20
DEVIPAVI	4	
DEVIPAVT	6	
DEVIPAVW	10	20
DEVIPIN	10	10
DEVIUAVL	10	8
DEVIUCUI	2	2

Chapter 191. IOSDE63R Information

IOSDE63R Programming Interface Information

IOSDE63R is a programming interface.

IOSDE63R Heading Information

Common Name: IOS ENF-63 Record
Macro ID: IOSDE63R
DSECT Name: E63R
Owning Component: IOS (SC1C3)
Eye-Catcher ID: E63R
Offset: 0
Length: 4
Storage Attributes: Main Storage: Yes
Virtual Storage: N/A
Auxiliary Storage: N/A
Subpool: 245
Key: 0
Data Space: N/A
Residency: Above 16M Line
Size: 128-Bytes
Created by: IOSVHWP (via the IOSHSWAP macro)
Pointed to by: Not Applicable
Serialization: None
Function: IOSDE63R maps the information passed to listeners of the Event Notification (ENF) code that signals when a permanent error has occurred for a device in a logical subsystem (LSS)

IOSDE63R mapping

Table 747. Structure E63R

Offset	Offset		Len	Name(Dim)	Description
Dec	Hex	Type			
0	(0)	STRUCTURE	0	E63R	IOS ENF 63 Record
0	(0)	CHARACTER	4	E63RID	Control block ID
4	(4)	SIGNED	1	E63RVERSION	Version number
5	(5)	BITSTRING	1	E63RSOURCE	Source of this ENF request
		.... ....		E63RSOURCEUNK	"X'00'" Source is unknown
		.... ...1		E63RSOURCEERP	"X'01'" Error Recovery Procedures (ERP) processing
		.... ..1.		E63RSOURCENOP	"X'02'" No operational paths processing
		.... ..11		E63RSOURCEBOX	"X'03'" Device box processing
		EQU X'04' Reserved for GDPS/IOS use			
		.... .1.1		E63RSOURCEEOS	"X'05'" Device end-of-sense (EOS) exit processing
		.... ..11.		E63RSOURCEIOT	"X'06'" IO Timing (IOT) processing

IOSDE63R mapping

Table 747. Structure E63R (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
6	(6)	SIGNED		2	E63RDEVNUM	Device number of the device that caused this ENF signal
8	(8)	CHARACTER		32	E63RTOKENNED	Token NED of the subsystem for the device (Zeros if no subsystem data exists for the device).
40	(28)	SIGNED		1	E63RSSID	Subchannel Set ID
41	(29)	BITSTRING		1	E63RFLAGS	Flag byte
		1...			E63RNDSS	"X'80'" Non-Disruptive state save (NDSS) is to be requested
42	(2A)	CHARACTER		86		Available

Table 748. Cross Reference for IOSDE63R

Name	Offset	Hex Tag
E63R	0	
E63RDEVNUM	6	
E63RFLAGS	29	
E63RID	0	
E63RNDSS	29	80
E63RSOURCE	5	
E63RSOURCEBOX	5	3
E63RSOURCEEOS	5	5
E63RSOURCEERP	5	1
E63RSOURCEIOT	5	6
E63RSOURCENOP	5	2
E63RSOURCEUNK	5	0
E63RSSID	28	
E63RTOKENNED	8	
E63RVERSION	4	

Chapter 192. IOSDFEAT Information

IOSDFEAT Programming Interface Information

IOSDFEAT is a programming interface.

IOSDFEAT Heading Information

Common Name: IOS FEATURES INFORMATION MAPPING
Macro ID: IOSDFEAT
DSECT Name: FEAT
Owning Component: IOS (SC1C3)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: CALLER-PROVIDED
Key: CALLER-PROVIDED
Residency: CALLER-PROVIDED
Size: 4 Bytes
Created by: N/A
Pointed to by: N/A
Serialization: N/A
Function: MAPS IOS FEATURES PARAMETER OR IOS FEATURES TABLE

IOSDFEAT mapping

Table 749. Structure FEAT

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	FEAT	
0	(0)	CHARACTER	4	FEAT_IOS(0)	
		1...		FEAT_IOS_AUTOSWITCH	"X'80'" AUTO-SWITCHABLE Device
		.1..		FEAT_IOS_WLM PAV	"X'40'" Customer specified that this PAV-base device allows its PAV-alias's to be dynamically tunable by WLM tunable by WLM
0	(0)	CHARACTER	3		Reserved
4	(4)	X'4'	0	FEAT_LEN	"*-FEAT"

IOSDFEAT mapping

Chapter 193. IOSDIECA Information

IOSDIECA Programming Interface Information

IOSDIECA is a programming interface.

IOSDIECA Heading Information

Common Name: IOS Extended Communication Area
Macro ID: IOSDIECA
DSECT Name: IECA
Owning Component: I/O Supervisor (SC1C3)
Eye-Catcher ID: IECA
Offset: 0
Length: 4
Storage Attributes: Main Storage: Yes
Virtual Storage: N/A
Auxiliary Storage: N/A
Subpool: Nucleus
Key: N/A
Data Space: N/A
Residency: Above 16M Line
Size: 64 bytes
Created by: IOSVDATA
Pointed to by: IOIECAA field of the writable IOCOM
Serialization: Compare and Swap (CS) when setting the
Fsdq queue header
Function: Provide an area for communication between IOS and other
programs.

IOSDIECA mapping

Table 750. Structure IECA

Offset	Offset		Len	Name(Dim)	Description
Dec	Hex	Type			
0	(0)	STRUCTURE	0	IECA	
0	(0)	CHARACTER	4	IECA_ID	Eye catcher
4	(4)	ADDRESS	4	IECA_IOSAS_ASCB_ADDR	For cross-memory POST
8	(8)	BITSTRING	16	IECA_IOSVFSD_TTOKEN	For cross-memory POST
24	(18)	BITSTRING	4	IECA_IOSVFSD_ECB(0)	ECB to invoke IOSVFSD
		1...		IECA_IOSVFSD_ECB_WAIT	"X'80"
		.1..		IECA_IOSVFSD_ECB_POST	"X'40"
28	(1C)	ADDRESS	4	IECA_FSDQ_HEADER	Fsdq queue header
32	(20)	ADDRESS	4	IECA_IRDVFSO_EPO	E.P. address of IRDVFSO
36	(24)	BITSTRING	1	IECA_FLAGS(0)	
		1...		IECA_IOSVFSD_IS_READY	"X'80" OK to invoke IOSVFSD
		.1..		IECA_RUNDYNROUTHEALTH	"X'40" The dynamic routing check should be run due to changes in the configuration
37	(25)	BITSTRING	1	IECA_VERS	Version Number
38	(26)	BITSTRING	1	IECA_MAXFABRIC_PRTY	Max Fabric I/O Priority
39	(27)	BITSTRING	1		Reserved

IOSDIECA mapping

Table 750. Structure IECA (continued)

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
40	(28)	BITSTRING	4	IECA_NUMDYNROUTSWITCHES	
44	(2C)	BITSTRING	20		Reserved
44	(2C)	X'C5C3C1'	0	IECA_NAME	"C'IECA'" Characters for acronym
44	(2C)	X'40'	0	IECA_LEN	"*-IECA"
44	(2C)	X'0'	0	IECA_CURRVERS	"0"

Table 751. Cross Reference for IOSDIECA

Name	Offset	Hex	Tag
IECA	0		
IECA_CURRVERS	2C		0
IECA_FLAGS	24		
IECA_FSDQ_HEADER	1C		
IECA_ID	0	C9C5C3C1	
IECA_IOSAS_ASCB_ADDR	4		
IECA_IOSVFSD_ECB	18		
IECA_IOSVFSD_ECB_POST	18		40
IECA_IOSVFSD_ECB_WAIT	18		80
IECA_IOSVFSD_IS_READY	24		80
IECA_IOSVFSD_TTOKEN	8		0
IECA_IRDVFSO_EP@	20		
IECA_LEN	2C		40
IECA_MAXFABRIC_PRTY	26		
IECA_NAME	2C	C5C3C1	
IECA_NUMDYNROUTSWITCHES	28		0
IECA_RUNDYNROUTHEALTH	24		40
IECA_VERS	25		0

Chapter 194. IOSDIODI Information

IOSDIODI Programming Interface Information

IOSDIODI is a programming interface.

IOSDIODI Heading Information

Common Name: IODF Information area
Macro ID: IOSDIODI
DSECT Name: IOSDIODI
Owning Component: I/O Supervisor (SC1C3)
Eye-Catcher ID: IODI
Offset: 0
Length: 4
Storage Attributes: Subpool: User
Key: User
Data Space: No
Residency: 31 Bit
Size: 128 bytes
Created by: Issuer of IOCINFO IODFINFO service
Pointed to by: N/A
Serialization: None
Function: IOSDIODI maps IODF information returned by the IOCINFO IODFINFO service.

IOSDIODI mapping

Table 752. Structure IODI

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IODI	IODF Information area
0	(0)	CHARACTER	4	IODI_ID	Eye catcher
4	(4)	BITSTRING	1	IODI_VERSION	IODI version number
5	(5)	BITSTRING	1	IODI_FLAGS(0)	IODI flags
		1...		IODI_IODFUCBINVLD	"X'80'" Indicates IODI_IODFUCB is not valid. There is no UCB for the IODF device.
6	(6)	CHARACTER	2		Available
8	(8)	CHARACTER	44	IODI_IODFDSNAME	IODF data set name
52	(34)	ADDRESS	4	IODI_IODFUCB	UCB address of IODF volume
56	(38)	CHARACTER	6	IODI_IODFVOLSER	Volume Serial of IODF volume
62	(3E)	SIGNED	2	IODI_IODFODEV	Original IODF device number
64	(40)	BITSTRING	1	IODI_IODFLOSS	Original IODF device subchannel set id
65	(41)	CHARACTER	63		Available
IODI Eye-Catcher					
65	(41)	X'D6C4C9'	0	IODISTRING	"C'IODI'" IODI Eye-Catcher
IODI Version					
65	(41)	X'1'	0	IODIVERSIONNUMBER	"1" IODI Version Number

IOSDIODI mapping

Table 752. Structure IODI (continued)

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
65	(41)	X'80'	0	IODI_LEN	"*-IODI"

Table 753. Cross Reference for IOSDIODI

Name	Offset	Hex	Tag
IODI	0		
IODI_FLAGS	5		
IODI_ID	0		
IODI_IODFDSNAME	8		
IODI_IODFODEV	3E		
IODI_IODFOSS	40		
IODI_IODFUCB	34		
IODI_IODFUCBINVLD	5		80
IODI_IODFVOLSER	38		
IODI_LEN	41		80
IODI_VERSION	4		
IODISTRING	41	D6C4C9	
IODIVERSIONNUMBER	41		1

Chapter 195. IOSDIOFC Information

IOSDIOFC Programming Interface Information

IOSDIOFC is a programming interface.

IOSDIOFC Heading Information

Common Name: I/O Facilities Information Area
Macro ID: IOSDIOFC
DSECT Name: IOFC
Owning Component: I/O Supervisor (SC1C3)
Eye-Catcher ID: None
Storage Attributes: Subpool: Any
Key: Any
Residency: Any
Size: 256 bytes
Created by: Issuer of IOCINFO IOFACILITIES
Pointed to by: IOCINFO parameter list
Serialization: None
Function: IOSDIOFC maps the information which is returned by the IOCINFO IOFACILITIES function, which shows which I/O facilities are supported by the hardware and software.
Notes: None

IOSDIOFC mapping

Table 754. Structure IOFC

Offset	Offset		Len	Name(Dim)	Description
Dec	Hex	Type			
0	(0)	STRUCTURE	0	IOFC	I/O Facilities Information Area
0	(0)	BITSTRING	1	IOFC_VERSION	Version number
1	(1)	BITSTRING	1	IOFC_FLAG1(0)	Flag 1
		1...		IOFC_MIDAW_HW	"X'80'" The MIDAW facility is supported by the hardware
		.1..		IOFC_MIDAW_SW	"X'40'" The MIDAW facility is supported and enabled by the software. This bit will only be on if IOFC_MIDAW_HW is on and the MIDAW facility has not been disabled via the IECIOSxx parmlib member or the SETIOS command.
		..1.		IOFC_FCX_HW	"X'20'" The FICON Channel Extensions (FCX) facility (i.e., High Performance FICON) is supported by the hardware

IOSDIOFC mapping

Table 754. Structure IOFC (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
		...1	....		IOFC_FCX_SW	"X'10'" The FICON Channel Extensions (FCX) facility (i.e., High Performance FICON) is supported and enabled by the software. This bit will only be on if IOFC_FCX_HW is on and the facility has not been disabled via the IECIOSxx parmlib member or the SETIOS command.
2		(2)	CHARACTER	254		Reserved
256		(100)	CHARACTER	1	IOFC_END(0)	End of IOFC
IOFC Version						
256		(100)	X'1'	0	IOFC_VERSION_CURRENT	"1" Current IOFC version number
256		(100)	X'100'	0	IOFC_LEN	"*-IOFC"

Table 755. Cross Reference for IOSDIOFC

Name	Offset	Hex	Tag
IOFC	0		
IOFC_END	100		
IOFC_FCX_HW	1	20	
IOFC_FCX_SW	1	10	
IOFC_FLAG1	1		
IOFC_LEN	100	100	
IOFC_MIDAW_HW	1	80	
IOFC_MIDAW_SW	1	40	
IOFC_VERSION	0		
IOFC_VERSION_CURRENT	100		1

Chapter 196. IOSDMAP Information

IOSDMAP Programming Interface Information

IOSDMAP is a programming interface.

IOSDMAP Heading Information

Common Name: MAP - IOS Map Service Parameter List
Macro ID:
DSECT Name: IOSDMAP
Owning Component: I/O Supervisor (SC1C3)
Eye-Catcher ID: None
Storage Attributes: Main Storage: N/A
Virtual Storage: N/A
Auxiliary Storage: N/A
Subpool: Caller provided
Key: Caller provided
Residency: Caller provided
Size: 40 Bytes
Created by: Issuer of UCBINFO PATHMAP
Pointed to by: N/A
Serialization: N/A
Function: The IOSDMAP macro maps the device path information that is returned via a call to the PATHMAP function of the UCBINFO macro.

IOSDMAP mapping

Table 756. Structure IOSDMAP

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IOSDMAP	
0	(0)	ADDRESS	4	MAPUCB	UCB Common Segment address (Required)
4	(4)	BITSTRING 1...	1	MAPFLGS MAPVALPH	UCB flag information "X'80'" If on, path validation has not been done. Reflects setting of UCBVALPH.
EQU X'7F' Reserved					
5	(5)	BITSTRING	3	MAPRESV	Reserved
8	(8)	CHARACTER	32	MAPTABLE(0)	32 byte area where map output stored (Required).
8	(8)	BITSTRING	1	MAPCHPNO	Number of valid installed channel paths to the specified device.
9	(9)	BITSTRING	1	MAPLPUM	Last Path Used Mask
10	(A)	BITSTRING	6		Reserved
16	(10)	BITSTRING	3	MAPCHPDT(8)	Channel Path data - 8 CHPIDS

IOSDMAP mapping

Table 757. Structure MAPDATA

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
0	(0)	STRUCTURE		0	MAPDATA	Maps MAPCHPDT Fields-----
0	(0)	BITSTRING		1	MAPCHPID	Channel Path ID number
1	(1)	BITSTRING		1	MAPPTHMK	PATHMASK - This mask corressponds to the bit settings in the PIM for this Channel path.
2	(2)	BITSTRING		1	MAPBIT	
EQU X'80'		Reserved				
		.1..	....		MAPDCMVS	"X'40'" Dynamic Chpid Management mask. If on, indicates that the path is offline due to a Vary Switch or CONFIG Member(xx) request.
		..1.	....		MAPCMM	"X'20'" Configuration management mask. If on, indicates that path is offline due to ESCM.
		...1	....		MAPOPM	"X'10'" Operator path mask. If on, indicates that path is offline due to the operator.
		....	1..		MAPCPM	"X'08'" C.U.I.R. path mask. If on, indicates that path is offline due to C.U.I.R.
		....	.1..		MAPLPM	"X'04'" Logically available mask (LPM) 1 = Available 0 = Not available
		....	..1.		MAPPAM	"X'02'" Physically available mask 1 = Available 0 = Not avaialble
		....	...1		MAPVARY	"X'01'" If ON, Vary offline in progress

Table 758. Cross Reference for IOSDMAP

Name	Offset	Hex Tag
IOSDMAP	0	
MAPBIT	2	
MAPCHPDT	10	
MAPCHPID	0	
MAPCHPNO	8	
MAPCMM	2	20
MAPCPM	2	8
MAPDATA	0	
MAPDCMVS	2	40
MAPFLGS	4	
MAPLPM	2	4
MAPLPUM	9	
MAPOPM	2	10
MAPPAM	2	2
MAPPTHMK	1	
MAPRESV	5	
MAPTABLE	8	

Table 758. Cross Reference for IOSDMAP (continued)

Name	Offset	Hex Tag
MAPUCB	0	
MAPVALPH	4	80
MAPVARY	2	1

IOSDMAP mapping

Chapter 197. IOSDNPPL Information

IOSDNPPL Programming Interface Information

IOSDNPPL is a programming interface.

IOSDNPPL Heading Information

Common Name: New Purge Parameter List
Macro ID: IOSDNPPL
DSECT Name: NPPL
Owning Component: IOS (SC1C3)
Eye-Catcher ID: NPPL
Offset: 28
Length: 4
Storage Attributes: Subpool: Caller
Key: Key of Caller
Residency: Above or Below
Size: 32 bytes
Created by: Issuers of the PURGE macro
Pointed to by: N/A
Serialization: None
Function: This DSECT describes the control block containing all the information necessary to do I/O purging to support 31-bit arguments.

IOSDNPPL mapping

Table 759. Structure NPPL

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NPPL	
0	(0)	BITSTRING	1	NPPLOPT1	Option byte one
		1... ..		NPPLDS	"X'80'" If DSID purge requested, purge a single DSID. If zero, purge a list of DSIDs. In either case, the caller must be in supervisor state
		.1.. ..		NPPLPOST	"X'40'" ECBs associated with the I/O requests purged should be posted with X'48'
		..1.		NPPLHIO	"X'20'" Halt the I/O requests
		...1		NPPLREL	"X'10'" Purge only the I/O requests marked related and associated with the argument (EXCP only)
		.... 1...		NPPLNPPL	"X'08'" Indicator that new PPL is being used
		.... .1..		NPPLRB	"X'04'" Do not purge the RB chain for asynchronously scheduled routines
		.... ..1.		NPPLTASK	"X'02'" Purge a single TCB

IOSDNPPL mapping

Table 759. Structure NPPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1	(1)	BITSTRING	1	NPPLOPT2	Option byte 2
		1... ..		NPPLCAN	"X'80'" Cancel command request
		..1.		NPPLMEM	"X'20'" ASID purge specified. This Option may be specified only by a requestor that is in supervisor state.
		...1		NPPLVC	"X'10'" Perform DSID validity check (Supervisor state only) 0 - Bypass validity check 1 - Validity check
		.... 1...		NPPLOTCB	"X'08'" Purge all requests so that when restored they can be associated with the TCB that originated them.
		.... .1..		NPPLTSKM	"X'04'" Purge called by task termination
		.... ..1.		NPPLBSS	"X'02'" Bypass status start
		.... ...1		NPPLUCB	"X'01'" Purge DSID by UCB only when this bit is on only requests for specified UCB will be purged.(EXCP only)
2	(2)	BITSTRING	1	NPPLOPT3	Option byte three
		1... ..		NPPLIOPT	"X'80'" I/O prevention requested
		.1..		NPPLCLR	"X'40'" Bypass issuing HALT that needs to select the device (which could be busied off).
		..1.		NPPLNOSS	"X'20'" No Status Stop - Allow SRBs/TCBs during CSCH Note: Do not turn on for a memterm purge.
3	(3)	BITSTRING	1	NPPLOPT4	Option byte four
4	(4)	BITSTRING	1	NPPLCC	Purge completion code '7F' successful completion '40' unsuccessful completion
5	(5)	BITSTRING	1	NPPLDVID	Driver ID -- required for DSID purge requests default value of x'00' implies EXCP is the owner
6	(6)	SIGNED	2	NPPLASID(0)	ASID of address space to which I/O requests are associated(required for purge by ASID)
6	(6)	SIGNED	2	NPPLOFST	Offset of UCB within DEB for purge by UCB only.
8	(8)	SIGNED	4	NPPLIOPD(0)	4 byte I/O prevention identifier
8	(8)	SIGNED	4	NPPLDSID	DSID argument. If validity checking done, must point to a DEB
12	(C)	SIGNED	4	NPPLTCB	Address of TCB to be used to find the I/O requests if not supplied, the current TCB address will be used
16	(10)	SIGNED	4	NPPLPIRL	Address of the anchor from which the PIRL will be chained

Table 759. Structure NPPL (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
20	(14)	SIGNED		4	NPPLSRB	Optional SRB address provided by branch entry callers if they require asynchronous notification of halt subchannel completion
24	(18)	SIGNED		4	NPPLRSVD	Reserved
28	(1C)	CHARACTER		4	NPPLID	Four byte EBCDIC identifier

Table 760. Cross Reference for IOSDNPPL

Name	Offset	Hex	Tag
NPPL	0		
NPPLASID	6		
NPPLBSS	1		2
NPPLCAN	1		80
NPPLCC	4		
NPPLCLR	2		40
NPPLDS	0		80
NPPLDSID	8		
NPPLDVID	5		
NPPLHIO	0		20
NPPLID	1C		
NPPLIOPD	8		
NPPLIOPT	2		80
NPPLMEM	1		20
NPPLNOSS	2		20
NPPLNPPL	0		8
NPPLOFST	6		
NPPLOPT1	0		
NPPLOPT2	1		
NPPLOPT3	2		
NPPLOPT4	3		
NPPLOTCB	1		8
NPPLPIRL	10		
NPPLPOST	0		40
NPPLRB	0		4
NPPLREL	0		10
NPPLRSVD	18		
NPPLSRB	14		
NPPLTASK	0		2
NPPLTCB	C		
NPPLTSKM	1		4
NPPLUCB	1		1
NPPLVC	1		10

IOSDNPPL mapping

Chapter 198. IOSDPATH Information

IOSDPATH Programming Interface Information

IOSDPATH is a programming interface.

IOSDPATH Heading Information

Common Name: Path information mapping
 Macro ID: IOSDPATH
 DSECT Name: PATH
 Owning Component: IOS (SC1C3)
 Eye-Catcher ID: none
 Storage Attributes: Subpool: caller-provided
 Key: caller-provided
 Residency: caller-provided
 Size: PATH -- X'0100' bytes
 Created by: issuer of UCBINFO PATHINFO
 Pointed to by: N/A
 Serialization: N/A
 Function: Maps the input to and output from UCBINFO PATHINFO

IOSDPATH mapping

Table 761. Structure PATH

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PATH	Path information mapping
0	(0)	SIGNED	4	PATH#CHPIDS	Number of valid installed Channel Paths to the specific device.
4	(4)	CHARACTER	1	PATHFLAGS(0)	Flags mapped like MapFlgs in IOSDMAP
		1... ..		PATHVALPH	"X'80" If on, path validation has not been done. Reflects setting of UCVALPH.
5	(5)	CHARACTER	1	PATHFLAGS1(0)	More Flags
		1... ..		PATHINTTYPENOTAVAILABLE	"X'80" If on, no interface type information was available.
		.1..		PATHUAVVALID	"X'40" If on, the PathUa field contains the device unit address
		..1.		PATHFC	"X'20" If on, the device is connected to at least one FICON channel (i.e., channel type is FICON POINT TO POINT, FICON SWITCHED, or FICON INCOMPLETE)
		...1		PATHATTRIBUTESVALID	"X'10" If on, path selection attribute information is supported (PathAttribute is valid).
6	(6)	BITSTRING	1	PATHLPUM	Last Path used mask (LPUM)
7	(7)	BITSTRING	2	PATHUA	Device unit address

IOSDPATH mapping

Table 761. Structure PATH (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
9	(9)	CHARACTER	23		Reserved
32	(20)	CHARACTER	28	PATHCHPIDARRAY(0)	Array of up to 8 entries of path information. The last entry filled in is the entry corresponding to Path#Chpids. Note that Path#Chpids could be 0, in which case no entries are filled in.
32	(20)	SIGNED	2	PATHCHPID	Channel Path ID number
34	(22)	BITSTRING	1	PATHMASK	This mask corresponds to the bit setting in the PIM for this channel path.
35	(23)	BITSTRING	1	PATHBITS(0)	Mapped like MapBit in IOSDMAP
		.1..		PATHDCMVS	"X'40'" Dynamic Chpid Management mask. If on, indicates that path is offline due to a Vary Switch or Config member(xx) request.
		..1.		PATHCMM	"X'20'" Configuration management mask. If on, indicates that path is offline due to ESCM.
		...1		PATHOPM	"X'10'" Operator path mask. If on, indicates that path is offline due to the operator.
		.... 1...		PATHCPM	"X'08'" Control unit recovery process path mask. If on, indicates that the path is offline due to control unit recovery process
		.... .1..		PATHLPM	"X'04'" Logically Available Mask: 1 = Available, 0 = Not available
		.... ..1.		PATHPAM	"X'02'" Physically Available Mask: 1 = Available, 0 = Not available
		.... ...1		PATHVARY	"X'01'" If On, vary OFFLINE in progress
36	(24)	BITSTRING	1	PATHINTTYPE	Interface type entry. Constants defining the possible values are below and begin with PathIntType_
37	(25)	BITSTRING	1	PATHATTRIBUTE	Path attribute. Constants are defined below
38	(26)	CHARACTER	22		Reserved
256	(100)	X'0'	0	PATHINTTYPE_UNKNOWN	"0" Channel path description not known
256	(100)	X'1'	0	PATHINTTYPE_BLOCK_MTPX	"1" Parallel block multiplexer channel path
256	(100)	X'2'	0	PATHINTTYPE_BYTE_MTPX	"2" Parallel byte multiplexer channel path
256	(100)	X'3'	0	PATHINTTYPE_ESCON_PT_TO_PT	"3" ESCON point to point channel path
256	(100)	X'4'	0	PATHINTTYPE_ESCON_UNKNOWN	"4" ESCON channel path
256	(100)	X'5'	0	PATHINTTYPE_ESCON_SWITCH	"5" ESCON switch point to point channel path
256	(100)	X'6'	0	PATHINTTYPE_ESCON_CONVERT	"6" Fiber extended channel path

Table 761. Structure PATH (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
256	(100)	X'7'		0	PATHINTTYPE_ESCON_NATIVE	"7" Native Interface
256	(100)	X'8'		0	PATHINTTYPE_CTC_PT_TO_PT	"8" CTC adapter point to point
256	(100)	X'9'		0	PATHINTTYPE_CTC_SW_PT_TO_PT	"9" CTC adapter switched point to point
256	(100)	X'A'		0	PATHINTTYPE_CTC_UNKNOWN	"10" CTC adapter
256	(100)	X'F'		0	PATHINTTYPE_ESCON_BYTE_CONVERT	"15" ESCON Byte Pacer channel path
256	(100)	X'10'		0	PATHINTTYPE_OSA_EXPRESS	"16" OSA Express channel path
256	(100)	X'11'		0	PATHINTTYPE_OSA_DIRECT_EXPRESS	"17" OSA Direct Express channel path
256	(100)	X'12'		0	PATHINTTYPE_OSA	"18" Open Systems Adapter
256	(100)	X'13'		0	PATHINTTYPE_ISD	"19" Internal System Device
256	(100)	X'14'		0	PATHINTTYPE_OSC	"20" OSA Console
256	(100)	X'15'		0	PATHINTTYPE_OSN	"21" OSA NCP (OSN)
256	(100)	X'16'		0	PATHINTTYPE_ICB_SENDER	"22" Integrated Cluster Bus Sender
256	(100)	X'17'		0	PATHINTTYPE_ICB_RECEIVER	"23" Integrated Cluster Bus Receiver
256	(100)	X'18'		0	PATHINTTYPE_IISC_SENDER	"24" Internal ISC Sender
256	(100)	X'19'		0	PATHINTTYPE_IISC_RECEIVER	"25" Internal ISC Receiver
256	(100)	X'1A'		0	PATHINTTYPE_FICON_NATIVE	"26" Native FICON
256	(100)	X'1B'		0	PATHINTTYPE_FICON_SWITCHED	"27" FICON switched
256	(100)	X'1C'		0	PATHINTTYPE_FICON_TO_BRIDGE	"28" FICON Bridge
256	(100)	X'1D'		0	PATHINTTYPE_FICON_INCOMPLETE	"29" FICON (Incomplete Description)
256	(100)	X'1E'		0	PATHINTTYPE_DSD	"30" Direct System Device (DSD)
256	(100)	X'1F'		0	PATHINTTYPE_EIO	"31" Emulated I/O (EIO)
256	(100)	X'21'		0	PATHINTTYPE_CBP	"33" Integrated Cluster Bus Peer
256	(100)	X'22'		0	PATHINTTYPE_CFP	"34" Coupling Facility Peer
256	(100)	X'23'		0	PATHINTTYPE_ICP	"35" Internal Coupling Peer
256	(100)	X'24'		0	PATHINTTYPE_IQD	"36" Internal Queued Direct Communications
256	(100)	X'25'		0	PATHINTTYPE_FCP	"37" Fibre Channel Protocol CHPID
256	(100)	X'26'		0	PATHINTTYPE_CIB	"38" Coupling over Infiniband
256	(100)	X'30'		0	PATHINTTYPE_OSA_ZBX_DATA	"48" OSA zBX Data
256	(100)	X'31'		0	PATHINTTYPE_OSA_ZBX_MANAGEMENT	"49" OSA zBX Management
256	(100)	X'33'		0	PATHINTTYPE_COUPLING_OVER_PCIE	"51" Coupling over PCIE
Values for PathAttribute						
256	(100)	X'0'		0	PATHATTRIBUTE_NOTSPECIFIED	"0" Path attributes are not specified for this path
256	(100)	X'1'		0	PATHATTRIBUTE_PREFERREDPATH	"1" This path is a preferred path
256	(100)	X'2'		0	PATHATTRIBUTE_NONPREFERREDPATH	

IOSDPATH mapping

Table 761. Structure PATH (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
256	(100)	X'100'	0	PATH_LEN	"2" This path is a non-preferred path End of PathAttribute values "*-PATH"

Table 762. Cross Reference for IOSDPATH

Name	Offset	Hex	Tag
PATH	0		
PATH_LEN	100		100
PATH#CHPIDS	0		
PATHATTRIBUTE	25		
PATHATTRIBUTE_NONPREFERREDPATH	100		2
PATHATTRIBUTE_NOTSPECIFIED	100		0
PATHATTRIBUTE_PREFERREDPATH	100		1
PATHATTRIBUTEVALID	5		10
PATHBITS	23		
PATHCHPID	20		
PATHCHPIDARRAY	20		
PATHCMM	23		20
PATHCPM	23		8
PATHDCMVS	23		40
PATHFC	5		20
PATHFLAGS	4		
PATHFLAGS1	5		
PATHINTTYPE	24		
PATHINTTYPE_BLOCK_MTPX	100		1
PATHINTTYPE_BYTE_MTPX	100		2
PATHINTTYPE_CBP	100		21
PATHINTTYPE_CFP	100		22
PATHINTTYPE_CIB	100		26
PATHINTTYPE_COUPLING_OVER_PCIE	100		33
PATHINTTYPE_CTC_PT_TO_PT	100		8
PATHINTTYPE_CTC_SW_PT_TO_PT	100		9
PATHINTTYPE_CTC_UNKNOWN	100		A
PATHINTTYPE_DSD	100		1E
PATHINTTYPE_EIO	100		1F
PATHINTTYPE_ESCON_BYTE_CONVERT	100		F
PATHINTTYPE_ESCON_CONVERT	100		6
PATHINTTYPE_ESCON_NATIVE	100		7
PATHINTTYPE_ESCON_PT_TO_PT	100		3
PATHINTTYPE_ESCON_SWITCH	100		5
PATHINTTYPE_ESCON_UNKNOWN	100		4
PATHINTTYPE_FCP	100		25
PATHINTTYPE_FICON_INCOMPLETE	100		1D
PATHINTTYPE_FICON_NATIVE	100		1A
PATHINTTYPE_FICON_SWITCHED	100		1B
PATHINTTYPE_FICON_TO_BRIDGE	100		1C
PATHINTTYPE_ICB_RECEIVER	100		17
PATHINTTYPE_ICB_SENDER	100		16

Table 762. Cross Reference for IOSDPATH (continued)

Name	Offset	Hex Tag
PATHINTTYPE_ICP	100	23
PATHINTTYPE_IISC_RECEIVER	100	19
PATHINTTYPE_IISC_SENDER	100	18
PATHINTTYPE_IQD	100	24
PATHINTTYPE_ISD	100	13
PATHINTTYPE_OSA	100	12
PATHINTTYPE_OSA_DIRECT_EXPRESS	100	11
PATHINTTYPE_OSA_EXPRESS	100	10
PATHINTTYPE_OSA_ZBX_DATA	100	30
PATHINTTYPE_OSA_ZBX_MANAGEMENT	100	31
PATHINTTYPE_OSC	100	14
PATHINTTYPE_OSN	100	15
PATHINTTYPE_UNKNOWN	100	0
PATHINTTYPENOTAVAILABLE	5	80
PATHLPM	23	4
PATHLPUM	6	
PATHMASK	22	
PATHOPM	23	10
PATHPAM	23	2
PATHUA	7	
PATHUAVALID	5	40
PATHVALPH	4	80
PATHVARY	23	1

IOSDPATH mapping

Chapter 199. IOSDPAVA Information

IOSDPAVA Programming Interface Information

IOSDPAVA is a programming interface.

IOSDPAVA Heading Information

Common Name: Parallel Access Volume Array (PAVA) mapping
Macro ID: IOSDPAVA
DSECT Name: PAVA
Owning Component: IOS (SC1C3)
Eye-Catcher ID: PAVA
Offset: 0
Length: 4

Storage Attributes: Subpool: caller-provided
Key: caller-provided
Residency: caller-provided

Size: PAVA header - 20 bytes
PAVA entry - 60 bytes per entry if non-extended format
was requested.
- 96 bytes per entry if extended format
was requested.

Created by: issuer of UCBINFO PAVINFO
Pointed to by: N/A
Serialization: N/A

IOSDPAVA Heading Information

Function: The IOSDPAVA macro maps the input/output area that is specified via the PAVAREA keyword when the PAVINFO or HYPERPAVALIASES function is specified on the UCBINFO macro.

The PAVA consists of the following:

- A header that contains information such as the version number, the total size of the PAVA, and the number of entries.
- One or more entries that contains I/O response time statistics such as the accumulated connect and pending times from the channel measurement block.

If PAVINFOSUM=YES is specified on the UCBINFO PAVINFO macro, a single entry is created that contains the sum of the I/O response time statistics from the base device and all aliases bound to the base device at the time the UCBINFO PAVINFO macro is issued.

If PAVINFOSUM=NO is specified on the UCBINFO PAVINFO macro, a separate entry is created for the base or non-PAV device, and each alias that is bound to the base device.

If UCBINFO HYPERPAVALIASES is specified, a separate entry is created for each HyperPAV alias for the logical subsystem associated with the input base device.

For UCBINFO PAVINFO requests, the EXTFORMAT keyword specifies whether the extended or non-extended format of the PAVA is being requested. The extended format is required if your program needs to obtain new information that is added to the PAVA, and also allows z/OS to extend the length of the PAVA entry in the future without affecting existing programs. The value specified for the EXTFORMAT keyword on the UCBINFO PAVINFO macro must match the value specified on the IOSDPAVA macro. Otherwise, your program may not work correctly.

If the extended format PAVA is requested, the following occurs:

- IOSDPAVA macro - The PAVA device entry will be generated as a separate DSECT/structure instead of an array following the PAVA header.
- UCBINFO PAVINFO service
 - The PAVA header will contain a version of 3 or higher depending on the output version specified on the UCBINFO macro and the highest version supported by the service routine.
 - PAVAELEN will contain the length of each device entry. This length should be used to access the next device entry instead of the compile time length.

If the non-extended format PAVA is requested, the following occurs:

- IOSDPAVA macro - The PAVA device entry will be generated as an array following the PAVA header.
- UCBINFO PAVINFO service
 - The PAVA header will contain a version of 2 or lower.
 - PAVAELEN will be unpredictable depending on the level of the UCBINFO PAVINFO service routine code. For PLX, the next device entry may be accessed by incrementing

the index used to address the PAVA array element. For assembler, the next device entry may be accessed by adding the length of PAVArray to the current pointer. The following shows what the PAVA looks like depending on whether the extended or non-extended was requested:

Extended Format = Yes	Extended Format = No
-----	-----
1 PAVA	1 PAVA
3 PAVAHead	3 PAVAHead
5 PAVAIId	5 PAVAIId
5 PAVAVers (3 or higher)	5 PAVAVers (2 or lower)
...	...
5 PAVATokn	5 PAVATokn
5 PAVAHend (End of header)	
1 PAVAEEntry Based	3 PAVAAArray(*)
5 PAVADevn	5 PAVADevn
5 Flags and statistics	5 Flags and statistics
5 PAVAELen (non-zero)	5 PAVAELen (unpredictable)
3 PAVAEfStart (extfmt start)	
5 Version 3 information	
5 Version x information...	

Note: If your program is compiled with the level of the UCINFO PAVINFO macro that supports the EXTFORMAT keyword, but your program runs on a system that does not have the extended format support, a non-extended format PAVA will be returned. Your program can detect this condition by checking the version number. If the version number is less than 3, then a non-extended format PAVA was returned. In this case, you may still use the extended format IOSDPAVA macro to access the data. However, you cannot use the PAVAElen field to address the subsequent PAVA entries, and you cannot access any fields that appear in version 3 and higher sections.

IOSDPAVA mapping

Table 763. Structure PAVA

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	0	PAVA	PAVA information mapping
0	(0)	CHARACTER	20	PAVAHEAD(0)	Header
0	(0)	CHARACTER	4	PAVAID	Eye catcher
4	(4)	BITSTRING	1	PAVAVERS	Version
5	(5)	BITSTRING	1	PAVAPCNT	If the requested device is a HyperPAV base device, this field contains the count of HyperPAV alias devices configured in the LSS pool.
6	(6)	SIGNED	2	PAVALNTH	Length of PAVA as input to UCINFO service

IOSDPAVA mapping

Table 763. Structure PAVA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
8	(8)	SIGNED	2	PAVATCNT	--- For PAVINFO requests: If PAVAPAVB is on indicating the input device is an active PAV-base, then this field contains the current total number of PAV devices associated with the input device (i.e., the count of bound PAV-alias devices plus 1 for the PAV-base). Otherwise, this field is set to one. Note: If the PAVINFO service indicates the PAVAREA was not large enough to contain all of the device entries, this field should be used to recalculate the new size for the PAVAREA. The new size is the PAVA header plus the size of a PAVA entry multiplied by the PAVATCNT --- For HYPERPAVALIASES requests: If the input device is a HyperPAV device, this field contains the current total number of alias exposures in the logical subsystem for the input device.
10	(A)	SIGNED	2	PAVARCNT	Count of the number of PAVA entries filled in by this service. Notes: . This field is not equal to PAVATCNT when the PAVAREA passed by the caller is not large enough to contain all of the PAV devices associated with the input device . If PAVINFOSUM=YES is specified, PAVARCNT is set equal to PAVATCNT by this service
12	(C)	CHARACTER	4	PAVAIOQ(0)	IOQ counts
12	(C)	SIGNED	2	PAVAIOQS	Number of started IOQs
14	(E)	SIGNED	2	PAVAIOQC	Total number of IOQs
16	(10)	CHARACTER	4	PAVATOKN	PAV token - changes every time the set of PAV-Alias devices change in any way

Table 763. Structure PAVA (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
20	(14)	CHARACTER		60	PAVARRAY(0)	PAVA array element. Each element represents a single exposure in the PAV. The first element contains information on the PAV-base device and the subsequent entries contain information on the bound PAV-alias device(s). If HYPERPAVALIASES is selected, each element represents a single HyperPAV-alias device in the logical subsystem for the input device. Note: If the input device is a non-PAV DASD, only the first element will be filled in and will contain information for the input device.
20	(14)	SIGNED		2	PAVADEVN	Device number
22	(16)	CHARACTER		2	PAVAFLG1(0)	Flag byte
			1... ..		PAVAPAVC	"X'80'" PAV-base capability
			.1.. ..		PAVAPAVB	"X'40'" Indicates that the input device is an active PAV-base. This implies the PAV-base has one or more bound PAV-alias devices associated with it.
			..1.		PAVAPAVA	"X'20'" PAV-Alias device
			...1		PAVAPAVW	"X'10'" Customer has requested that this PAV device be WLM managed
			.... 1...		PAVAMCMB	"X'08'" Indicates if measurement data is collected for this device
			.... .1..		PAVASTSC	"X'04'" Indicates if model dependent subchannel data was stored
			.... ...1.		PAVADBTS	"X'02'" Indicates if device busy time was stored (version 1 and above)
			.... ...1		PAVAPAVH	"X'01'" Indicates if the device is a HyperPAV device.
24	(18)	CHARACTER		32	PAVACMB(0)	If PAVAMCMB is set, Channel Measurement Block Data
24	(18)	SIGNED		2	PAVASCHC	SSCH+RSCH instruction count
26	(1A)	SIGNED		2	PAVASAMP	Sample count
28	(1C)	SIGNED		4	PAVACONN	Connect time
32	(20)	SIGNED		4	PAVAPEND	Pending time
36	(24)	SIGNED		4	PAVADISC	Disconnect time
40	(28)	SIGNED		4	PAVACUQT	Control unit queue time
44	(2C)	SIGNED		4	PAVADAO	Device-active-only time
48	(30)	SIGNED		4		Reserved
52	(34)	SIGNED		4	PAVAICMR	Initial command response time
56	(38)	CHARACTER		12	PAVASMDB(0)	Subchannel model dependent data
56	(38)	SIGNED		4	PAVADBSY	Device Busy time
60	(3C)	SIGNED		4	PAVACBSY	Control-Unit Busy time

IOSDPAVA mapping

Table 763. Structure PAVA (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
64	(40)	SIGNED		4	PAVASBSY	Switch Busy time
68	(44)	CHARACTER		8	PAVAECMB(0)	If PAVAMCMB is set, 4 byte ECMB channel measurement counts (version 1 and above)
68	(44)	SIGNED		4	PAVASCH4	4-byte SSCH+RSCH count
72	(48)	SIGNED		4	PAVASAM4	4-byte sample count
76	(4C)	BITSTRING		1	PAVASSID	Subchannel set id (version 2 and above)
77	(4D)	CHARACTER		1		Reserved
78	(4E)	SIGNED		2	PAVAELEN	Length of entry. This field is filled in for version 3 and above
80	(50)	SIGNED		4	PAVANEFEND(0)	End of non-extended format entry
80	(50)	X'C1E5C1'		0	PAVANAME	"C'PAVA'" Defines PAVAIID field
80	(50)	X'1'		0	PAVAVER1	"1" PAVAVERS version 1
80	(50)	X'2'		0	PAVAVER2	"2" PAVAVERS version 2
80	(50)	X'3'		0	PAVAVER3	"3" PAVAVERS version 3
80	(50)	X'50'		0	PAVA_LEN	"L'PAVAHead+(PAVANEFEnd-PAVADevn)" Length of PAVA header plus one non-extended format PAVA entry

Table 764. Cross Reference for IOSDPAVA

Name	Offset	Hex Tag
PAVA	0	
PAVA_LEN	50	50
PAVACBSY	3C	
PAVACMB	18	
PAVACONN	1C	
PAVACUQT	28	
PAVADAO	2C	
PAVADBSY	38	
PAVADBTS	16	2
PAVADEVN	14	
PAVADISC	24	
PAVAECMB	44	
PAVAELEN	4E	
PAVAFLG1	16	
PAVAHEAD	0	
PAVAICMR	34	
PAVAID	0	
PAVAIOQ	C	
PAVAIOQC	E	
PAVAIOQS	C	
PAVALNTH	6	
PAVAMCMB	16	8
PAVANAME	50	C1E5C1
PAVANEFEND	50	
PAVAPAVA	16	20

Table 764. Cross Reference for IOSDPAVA (continued)

Name	Offset	Hex Tag
PAVAPAVB	16	40
PAVAPAVC	16	80
PAVAPAVH	16	1
PAVAPAVW	16	10
PAVAPCNT	5	
PAVAPEND	20	
PAVARCNT	A	
PAVARRAY	14	
PAVASAMP	1A	
PAVASAM4	48	
PAVASBSY	40	
PAVASCHC	18	
PAVASCH4	44	
PAVASMDB	38	
PAVASSID	4C	
PAVASTSC	16	4
PAVATCNT	8	
PAVATOKN	10	
PAVAVERS	4	
PAVAVER1	50	1
PAVAVER2	50	2
PAVAVER3	50	3

IOSDPAVA mapping

Chapter 200. IOSDPAVE Information

IOSDPAVE Programming Interface Information

IOSDPAVE is a programming interface.

IOSDPAVE Heading Information

Common Name: IOS Parallel Access Volume Exit Table
Macro ID: IOSDPAVE
DSECT Name: PAVE
Owning Component: IOS (SC1C3)
Eye-Catcher ID: PAVE
Offset: 0
Length: 4
Storage Attributes: Main Storage: Yes
Virtual Storage: N/A
Auxiliary Storage: N/A
Subpool: Nucleus
Key: N/A
Data Space: N/A
Residency: Above 16M Line
Size: 8-Byte Header plus 4-bytes per entry
Created by: IOSVDATA
Pointed to by: IOCPAVE field of the IOCOM
Serialization: Compare and Swap (CS) when setting Exit Table Entries
Function: IOSDPAVE maps the Parallel Access Volume (PAV) exit table to be used by callers who require synchronous notification when the PAV state changes for a device. Note that asynchronous notification is done via ENF 33 processing.

IOSDPAVE mapping

Table 765. Structure

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

Table 766. Structure PAVE

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	PAVE	IOS PAV Exit Table
0	(0)	CHARACTER	8	PAVEHDR(0)	PAVE Header
0	(0)	CHARACTER	4	PAVEID	Eye Catcher - "PAVE"
4	(4)	BITSTRING	1	PAVEVERS	PAVE Version
5	(5)	BITSTRING	3		Reserved
8	(8)	BITSTRING	16	PAVEARRAY(0)	PAVE Entry Array
8	(8)	SIGNED	4	PAVEENTRY(0)	PAVE Entry
8	(8)	SIGNED	4	PAVERTN	Exit Routine Address

IOSDPAVE mapping

Table 766. Structure PAVE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
PAVE Constants					
24	(18)	X'4'	0	PAVEMAXENTRY	"4" Current number of entries in the PAVE

Table 767. Cross Reference for IOSDPAVE

Name	Offset	Hex	Tag
PAVE	0		
PAVEARRAY	8		
PAVEENTRY	8		
PAVEHDR	0		
PAVEID	0		
PAVEMAXENTRY	18		4
PAVERTN	8		
PAVEVERS	4		

Chapter 201. IOSDSCCI Information

IOSDSCCI Programming Interface Information

IOSDSCCI is a programming interface.

IOSDSCCI Heading Information

Common Name: IOSSCM ConfigInfo Output Mapping
Macro ID: IOSDSCCI
DSECT Name: SCCI
Owning Component: I/O Supervisor (SC1C3)
Eye-Catcher ID: SCCI
Offset: 0
Length: 4
Storage Attributes: Subpool: Any
Key: Any
Residency: Any
Size: 48 bytes
Created by: Issuer of IOSSCM CONFIGINFO
Pointed to by: n/a
Serialization: None
Function: IOSDSCCI maps the information which is returned by the IOSSCM macro when CONFIGINFO is requested. It contains storage class memory (SCM) configuration information including size of the measurement block and the number of resource parts.

IOSDSCCI mapping

Table 768. Structure SCCI

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SCCI	SCCI - IOSSCM ConfigInfo Output mapping
0	(0)	CHARACTER	4	SCCI_ID	Control block acronym
4	(4)	BITSTRING	1	SCCI_VERSION	Version number
5	(5)	BITSTRING	1	SCCI_LENGTH	Length of the SCCI header
6	(6)	CHARACTER	2		
8	(8)	SIGNED	4	SCCI_EADMNUMOFDEV	The Number of EADM devices (subchannels). This can be used to determine the storage size required for the IOSDSCDI information returned by IOSSCM DevInfo request
12	(C)	SIGNED	2	SCCI_MEASBLKSZ	Measurement block size, in bytes. The measurement blocks are in contiguous virtual storage. This block size can be used to traverse the SCM measurement block structure.

IOSDSCCI mapping

Table 768. Structure SCCI (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
14	(E)	SIGNED	2	SCCI_MAXRESPARTS	Maximum number of SCM- Resource Parts. This count can be used when traversing the SCM measurement block structure.
16	(10)	SIGNED	4	SCCI_DATAUNITSZ	SCM data unit size, in bytes
20	(14)	CHARACTER	4		
24	(18)	ADDRESS	8	SCCI_MEASBLKPTR	Virtual address of the area containing lists of SCM-Measurement Blocks. The blocks are in contiguous virtual storage. The mapping for a measurement block is contained in the IOSDSCMM macro.
32	(20)	CHARACTER	16		Reserved
48	(30)	CHARACTER	1	SCCI_ENDV0(0)	End of SCCI - version 0
48	(30)	CHARACTER	1	SCCI_END(0)	End of SCCI
SCCI Constants					
48	(30)	X'C3C3C9'	0	SCCI_EYECATCHER	"C'SCCI'" SCCI control block identifier
48	(30)	X'0'	0	SCCI_VERSION_INITIAL	"0" Initial SCCI version number
48	(30)	X'0'	0	SCCI_VERSION_CURRENT	"0" Current SCCI version number
48	(30)	X'30'	0	SCCI_LEN	"*-SCCI"

Table 769. Cross Reference for IOSDSCCI

Name	Offset	Hex	Tag
SCCI	0		
SCCI_DATAUNITSZ	10		
SCCI_EADNUMOFDEV	8		
SCCI_END	30		
SCCI_ENDV0	30		
SCCI_EYECATCHER	30	C3C3C9	
SCCI_ID	0		
SCCI_LEN	30		30
SCCI_LENGTH	5		
SCCI_MAXRESPARTS	E		
SCCI_MEASBLKPTR	18		
SCCI_MEASBLKSZ	C		
SCCI_VERSION	4		
SCCI_VERSION_CURRENT	30		0
SCCI_VERSION_INITIAL	30		0

Chapter 202. IOSDSCDI Information

IOSDSCDI Programming Interface Information

IOSDSCDI is a programming interface.

IOSDSCDI Heading Information

Common Name: IOSSCM DevInfo Output Mapping
Macro ID: IOSDSCDI
DSECT Name: SCDI SCDIEnt
Owning Component: I/O Supervisor (SC1C3)
Eye-Catcher ID: SSDI
Offset: 0
Length: 4
Storage Attributes: Subpool: Any
Key: Any
Residency: Any
Size: Header (SCDI) = 16 bytes
Entry (SCDIEnt) = 72 bytes
Created by: Issuer of IOSSCM DEVINFO
Pointed to by: n/a
Serialization: None
Function: IOSDSCDI maps the information which is returned by the IOSSCM macro when DEVINFO is requested. It contains storage class memory (SCM) device information including response time statistics.

IOSDSCDI mapping

Table 770. Structure SCDI

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SCDI	SCDI - IOSSCM DevInfo Output mapping
0	(0)	CHARACTER	16	SCDI_HDR	
0	(0)	CHARACTER	4	SCDI_ID	Control block acronym
4	(4)	BITSTRING	1	SCDI_VERSION	Version number
5	(5)	BITSTRING	1	SCDI_LENGTH	Length of the SCDI header
6	(6)	CHARACTER	2		Reserved
8	(8)	SIGNED	4	SCDI_NUMENTRIES	Number of device entries. Each device entry is mapped by SCDIEnt defined below.
12	(C)	CHARACTER	4		Reserved
16	(10)	CHARACTER	1	SCDI_ENDV0(0)	End of SCDI - version 0
16	(10)	CHARACTER	1	SCDI_END(0)	End of SCDI - current version
16	(10)	X'10'	0	SCDI_LEN	"*-SCDI"

IOSDSCDI mapping

Table 771. Structure SCDIENT

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
0	(0)	STRUCTURE		0	SCDIENT	SCDI - IOSSCM DevInfo Entry mapping
0	(0)	SIGNED		2	SCDIENT_LENGTH	Length of the current SCDI Entry
2	(2)	CHARACTER		2		Reserved
4	(4)	SIGNED		4	SCDIENT_SUBCHID	Subsystem-identification word which contains subchannel information
8	(8)	SIGNED		4	SCDIENT_SSCHCOUNT	SSCH count
12	(C)	SIGNED		4	SCDIENT_SAMPLECOUNT	Number of updates to the time-accumulation fields
16	(10)	SIGNED		4	SCDIENT_FUNCPENDTIME	Function-pending time. The time lapse between the SSCH being issued and the acceptance of the first command of the channel program at the device. Time units= 128 microseconds
20	(14)	SIGNED		4	SCDIENT_IOPQUEUINGTIME	IOP-queuing time. The amount of time the request is not accepted at the SCM resource because it would exceed its maximum capacity. Time units= 128 microseconds
24	(18)	SIGNED		4	SCDIENT_INITCMDRESPTIME	Initial cmd-response time. The time from when the first command does not immediately proceed to execute until the successful start of execution at the SCM resource part. Time units= 128 microseconds
28	(1C)	CHARACTER		44		Reserved
72	(48)	CHARACTER		1	SCDIENT_ENDV0(0)	End of SCDIEnt- version 0
72	(48)	CHARACTER		1	SCDIENT_END(0)	End of SCDIEnt- current
SCDI Constants						
72	(48)	X'C3C4C9'		0	SCDI_EYECATCHER	"C'SCDI'" SCDI control block identifier
72	(48)	X'0'		0	SCDI_INITIAL_VERSION	"0" Initial SCDI version number
72	(48)	X'0'		0	SCDI_VERSION_CURRENT	"0" Current SCDI version number
72	(48)	X'48'		0	SCDIENT_LEN	"*-SCDIEnt"

Table 772. Cross Reference for IOSDSCDI

Name	Offset	Hex Tag
SCDI	0	
SCDI_END	10	
SCDI_ENDV0	10	
SCDI_EYECATCHER	48	C3C4C9
SCDI_HDR	0	
SCDI_ID	0	
SCDI_INITIAL_VERSION	48	0
SCDI_LEN	10	10
SCDI_LENGTH	5	
SCDI_NUMENTRIES	8	

Table 772. Cross Reference for IOSDSCDI (continued)

Name	Offset	Hex Tag
SCDI_VERSION	4	
SCDI_VERSION_CURRENT	48	0
SCDIENT	0	
SCDIENT_END	48	
SCDIENT_ENDV0	48	
SCDIENT_FUNCPENDTIME	10	
SCDIENT_INITCMDRESPTIME	18	
SCDIENT_IOPQUEUINGTIME	14	
SCDIENT_LEN	48	48
SCDIENT_LENGTH	0	
SCDIENT_SAMPLECOUNT	C	
SCDIENT_SSCHCOUNT	8	
SCDIENT_SUBCHID	4	

IOSDSCDI mapping

Chapter 203. IOSDSCMM Information

IOSDSCMM Programming Interface Information

IOSDSCMM is a programming interface.

IOSDSCMM Heading Information

Common Name: SCM-Measurement Block
Macro ID: IOSDSCMM
DSECT Name: SCMM SCMM_MDD
Owning Component: IOS (SC1C3)
Eye-Catcher ID: None
Storage Attributes: Subpool: Whatever IARST64 gives us (Fixed, common, SQA/ESQA)
Key: 0
Residency: Above the bar
Size: Designated by the hardware
Frequency: Designated by hardware
Created by: IECVIOSI
Pointed to by: The storage that contains all of the individual blocks is pointed to by:
SCCI_MEASBLKPTR in IOSDSCCI (external use)
COPB_SCM_MBS_PTR in IOSDCOPB (internal use)
Individual blocks are addressed by the user's pointer.
Serialization: N/A
Function: Maps the measurement blocks that are associated with SCM resource parts and that are updated by the Storage-Class-Memory-Measurements facility

IOSDSCMM mapping

Table 773. Structure SCMM

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SCMM	
0	(0)	SIGNED	2	SCMM_SCMRESOURCEID	
2	(2)	SIGNED	2	SCMM_PARTID	
4	(4)	BITSTRING	1	SCMM_FLAGS	
Bit definitions:					
		1...		SCMM_LASTBLOCK	"X'80'" This is the last block
5	(5)	SIGNED	3	SCMM_TIMESTAMP	
8	(8)	CHARACTER	2	SCMM_RSVD1	Reserved
10	(A)	SIGNED	2	SCMM_MODELDEPDATAOFFSET	Offset from the origin of the SCM-measurement block to the start of the model-dependent-data field
12	(C)	SIGNED	4	SCMM_REQSPROCESSEDCPC	Internal requests processed by the SCM- resource part
16	(10)	SIGNED	4	SCMM_REQSPROCESSED	Internal requests processed by the SCM- resource part

IOSDSCMM mapping

Table 773. Structure SCMM (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
20	(14)	SIGNED	4	SCMM_DATAUNITSWRITTENCPC	Data units written to the SCM-resource part
24	(18)	SIGNED	4	SCMM_DATAUNITSWRITTEN	Data units written to the SCM-resource part
28	(1C)	SIGNED	4	SCMM_DATAUNITSREADCPC	Data units read from the SCM-resource part
32	(20)	SIGNED	4	SCMM_DATAUNITSREAD	Data units read from the SCM-resource part
36	(24)	SIGNED	4	SCMM_AGGRESRESPTIMECPC	Aggregate time spent on execution of requests involving the SCM- resource part
40	(28)	SIGNED	4	SCMM_AGGRESRESPTIME	Aggregate time spent on execution of requests involving the SCM- resource part
44	(2C)	SIGNED	4	SCMM_IOPQUEUINGTIMECPC	Accumulated IOP-queueing time
48	(30)	SIGNED	4	SCMM_UTILIZATIONCPC	Count of work units
52	(34)	SIGNED	4	SCMM_UTILIZATION	Count of work units
52	(34)	X'38'	0	SCMM_LEN	"*-SCMM"

Table 774. Structure SCMM_MDD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SCMM_MDD	SCM- Measurement Block model-dependent data
0	(0)	CHARACTER	1	SCMM_MODELDEPDATA(0)	
0	(0)	X'0'	0	SCMM_MDD_LEN	"*-SCMM_MDD"

Table 775. Cross Reference for IOSDSCMM

Name	Offset	Hex	Tag
SCMM	0		
SCMM_AGGRESRESPTIME	28		
SCMM_AGGRESRESPTIMECPC	24		
SCMM_DATAUNITSREAD	20		
SCMM_DATAUNITSREADCPC	1C		
SCMM_DATAUNITSWRITTEN	18		
SCMM_DATAUNITSWRITTENCPC	14		
SCMM_FLAGS	4		
SCMM_IOPQUEUINGTIMECPC	2C		
SCMM_LASTBLOCK	4	80	
SCMM_LEN	34	38	
SCMM_MDD	0		
SCMM_MDD_LEN	0	0	
SCMM_MODELDEPDATA	0		
SCMM_MODELDEPDATAOFFSET	A		
SCMM_PARTID	2		
SCMM_REQSPROCESSED	10		
SCMM_REQSPROCESSEDCPC	C		
SCMM_RSVD1	8		
SCMM_SCMRESOURCEID	0		

Table 775. Cross Reference for IOSDSCMM (continued)

Name	Offset	Hex Tag
SCMM_TIMESTAMP	5	
SCMM_UTILIZATION	34	
SCMM_UTILIZATIONCPC	30	

IOSDSCMM mapping

Chapter 204. IOSDSHID Information

IOSDSHID Programming Interface Information

IOSDSHID is a programming interface.

IOSDSHID Heading Information

Common Name: System Host ID Mapping
 Macro ID: IOSDSHID
 DSECT Name: SHID
 Owning Component: I/O Supervisor (SC1C3)
 Eye-Catcher ID: None
 Storage Attributes: Main Storage: YES
 Virtual Storage: N/A
 Auxiliary Storage: N/A
 Subpool: N/A - Nucleus resident
 Key: 0
 Residency: Any
 Size: 56 bytes
 Created by: IOSVDATA
 Pointed to by: CVTHID field of the CVT data area
 Serialization: None
 Function: Maps the System Host ID, Alternate System Host ID, Central Processing Complex Node Descriptor and Central Processing Complex Node Identifier
 ACRONYM = SHID

IOSDSHID mapping

Table 776. Structure SHID

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SHID	
System Host ID Mapping					
0	(0)	CHARACTER	11	SHID_SHID(0)	System Host Identifier
0	(0)	CHARACTER	2	SHID_BYTES01	Byte 0 and 1 definitions
0	(0)	X'0'	0	SHID_CPUAD	"SHID_BYTES01+0,2" CPU address format 0 PGID
0	(0)	X'0'	0	SHID_FMT1_BYTES01	"SHID_BYTES01+0,2" Byte 0 and 1 definitions for format 1 path group id (PGID)
0	(0)	X'0'	0	SHID_FORMAT	"SHID_FMT1_BYTES01+0,1" Format byte
		....		SHID_PGIDFMT0	"X'00'" PGID format zero
		1...		SHID_PGIDFMT1	"X'80'" PGID format one
		.... 1...		SHID_VM	"X'08'" VM hipervisor created the PGID
0	(0)	X'1'	0	SHID_CSSID	"SHID_FMT1_BYTES01+1,1" Channel Subsystem ID
2	(2)	CHARACTER	5	SHID_INFO(0)	CPU serial/model numbers

IOSDSHID mapping

Table 776. Structure SHID (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
2	(2)	CHARACTER	3	SHID_BYTES234	Define Bytes 2 3 and 4
2	(2)	X'2'	0	SHID_CPUID	"SHID_BYTES234+0,3" CPU serial number format 0 PGID
2	(2)	X'2'	0	SHID_FMT1_BYTES234	"SHID_BYTES234+0,3" Define bytes 2,3 and 4 for format 1 PGID
2	(2)	X'2'	0	SHID_LPID	"SHID_FMT1_BYTES234+0,1" LPAR ID
2	(2)	X'3'	0	SHID_CPSN	"SHID_FMT1_BYTES234+1,2" CPU serial number
5	(5)	CHARACTER	2	SHID_MODNO	CPU model number
7	(7)	CHARACTER	4	SHID_TODCL	Time of day clock (left half)

Alternate System Host ID Mapping

11	(B)	CHARACTER	11	SHID_AHID(0)	Alternate System Host ID
11	(B)	CHARACTER	2	AHID_BYTES01	Byte 0 and 1 definitions
11	(B)	X'0'	0	AHID_CPUAD	"SHID_BYTES01+0,2" CPU address format 0 PGID
11	(B)	X'0'	0	AHID_FMT1_BYTES01	"SHID_BYTES01+0,2" Byte 0 and 1 definitions for format 1 path group id
11	(B)	X'0'	0	AHID_FORMAT	"SHID_FMT1_BYTES01+0,1" Format byte
		.... ....		AHID_PGIDFMT0	"X'00'" PGID format zero
		1...		AHID_PGIDFMT1	"X'80'" PGID format one
		.... 1...		AHID_VM	"X'08'" VM hipervisor created the PGID
11	(B)	X'1'	0	AHID_CSSID	"SHID_FMT1_BYTES01+1,1" Channel Subsystem ID
13	(D)	CHARACTER	5	AHID_INFO(0)	CPU serial/model numbers
13	(D)	CHARACTER	3	AHID_BYTES234	Define Bytes 2 3 and 4
13	(D)	X'2'	0	AHID_CPUID	"SHID_BYTES234+0,3" CPU serial number format 0 PGID
13	(D)	X'2'	0	AHID_FMT1_BYTES234	"SHID_BYTES234+0,3" Define bytes 2,3 and 4 for format 1 PGID
13	(D)	X'2'	0	AHID_LPID	"SHID_FMT1_BYTES234+0,1" LPAR ID
13	(D)	X'3'	0	AHID_CPSN	"SHID_FMT1_BYTES234+1,2" CPU serial number
16	(10)	CHARACTER	2	AHID_MODNO	CPU model number
18	(12)	CHARACTER	4	AHID_TODCL	Time of day clock (left half)

Central Processing Complex Node Descriptor

Note - The data indicated by CPCND_SDC is only valid when the first three bits of CPCND_FLAGS (CPCND_VALID) do not equal CPCND_INVALID.

22	(16)	CHARACTER	32	SHID_CPCND(0)	CPC Node Descriptor
22	(16)	BITSTRING	1	CPCND_FLAGS	Flags
		111.		CPCND_VALID	"X'E0'" Node descriptor validity
		.1..		CPCND_INVALID	"X'40'" Node descriptor invalid
		...1		CPCND_NTTYPE	"X'10'" Node type
		EQU X'0F'		Reserved	
23	(17)	CHARACTER	3	CPCND_PARDS	Node parameters
26	(1A)	CHARACTER	28	CPCND_SDC(0)	Self-describing component (SDC) Identifier
26	(1A)	CHARACTER	6	CPCND_TYPE	Type number

Table 776. Structure SHID (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
32	(20)	CHARACTER		3	CPCND_MODEL	Model number
35	(23)	CHARACTER		3	CPCND_MAN	Manufacturer
38	(26)	CHARACTER		2	CPCND_PLANT	Plant of manufacture
40	(28)	CHARACTER		12	CPCND_SEQNO	Sequence number
52	(34)	CHARACTER		2	CPCND_TAG	Tag
Central Processing Complex Node Identifier Mapping						
54	(36)	CHARACTER		2	SHID_CPCID(0)	
54	(36)	BITSTRING		1	CPCID_FLAGS	Validity Flags
			1...		CPCID_VALID	"X'80'" Valid indicator
55	(37)	CHARACTER		1	CPCID_MAP	The last six bits of this byte must be filled with the CPCID

Table 777. Cross Reference for IOSDSHID

Name	Offset	Hex	Tag
AHID_BYTES01	B		
AHID_BYTES234	D		
AHID_CPSN	D	3	
AHID_CPUAD	B	0	
AHID_CPUID	D	2	
AHID_CSSID	B	1	
AHID_FMT1_BYTES01	B	0	
AHID_FMT1_BYTES234	D	2	
AHID_FORMAT	B	0	
AHID_INFO	D		
AHID_LPID	D	2	
AHID_MODNO	10		
AHID_PGIDFMT0	B	0	
AHID_PGIDFMT1	B	80	
AHID_TODCL	12		
AHID_VM	B	8	
CPCID_FLAGS	36		
CPCID_MAP	37		
CPCID_VALID	36	80	
CPCND_FLAGS	16		
CPCND_INVAL	16	40	
CPCND_MAN	23		
CPCND_MODEL	20		
CPCND_NTTYPE	16	10	
CPCND_PARMS	17		
CPCND_PLANT	26		
CPCND_SDC	1A		
CPCND_SEQNO	28		
CPCND_TAG	34		
CPCND_TYPE	1A		
CPCND_VALID	16	E0	
SHID	0		
SHID_AHID	B		

IOSDSHID mapping

Table 777. Cross Reference for IOSDSHID (continued)

Name	Offset	Hex Tag
SHID_BYTES01	0	
SHID_BYTES234	2	
SHID_CPCID	36	
SHID_CPCND	16	
SHID_CPSN	2	3
SHID_CPUAD	0	0
SHID_CPUID	2	2
SHID_CSSID	0	1
SHID_FMT1_BYTES01	0	0
SHID_FMT1_BYTES234	2	2
SHID_FORMAT	0	0
SHID_INFO	2	
SHID_LPID	2	2
SHID_MODNO	5	
SHID_PGIDFMT0	0	0
SHID_PGIDFMT1	0	80
SHID_SHID	0	
SHID_TODCL	7	
SHID_VM	0	8

Chapter 205. IOSDSPOF Information

IOSDSPOF Programming Interface Information

IOSDSPOF is a programming interface.

IOSDSPOF Heading Information

Common Name: Single Point of Failure Area
Macro ID: IOSDSPOF
DSECT Name: SPOFArea SPOFCheck SPOFGroupCheck
Owning Component: I/O Supervisor (SC1C3)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: 1
Key: IOSSPOF callers key
Residency: 31-bit storage
Size: Variable
SPOFArea -- X'0030' bytes
SPOFCHECK -- X'011C' bytes
SPOFGROUPCHECK -- X'0114' bytes
SPOFArea -- X'0030' bytes
SPOFCheck -- X'011C' bytes
SPOFGroupCheck -- X'0114' bytes
Created by: IOSSPOF Service
Pointed to by: Contents of SPOFArea Output Keyword
Serialization: None required
Function: Maps the particular single points of failure for the set of devices passed to the IOSSPOF service

IOSDSPOF mapping

Table 778. Structure SPOFArea

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SPOFArea	IOSSPOF output area mapping
0	(0)	CHARACTER	44	SPOFArea_HEADER	SPOFArea Header
0	(0)	CHARACTER	8	SPOFArea_EYECATCH	Eye Catcher 'SPOFArea'
8	(8)	BITSTRING	1	SPOFArea_VERSION	Version level
9	(9)	BITSTRING	1	SPOFArea_HDRLEN	Length of the SPOFArea header
10	(A)	BITSTRING	1	SPOFArea_SUBPOOL	Subpool of SPOFArea
11	(B)	BITSTRING	1		Reserved
12	(C)	SIGNED	4	SPOFArea_LEN	Length of SPOFArea, including header storage and entry storage
16	(10)	SIGNED	4	SPOFArea_NUMENTRIES	Number of entries in SPOFArea_EntriesAddr
20	(14)	CHARACTER	16		Reserved
36	(24)	ADDRESS	4	SPOFArea_SUMCHECKSADDR	Pointer to a SPOFCheck structure that contains a summary of single points of failure to all devices

IOSDSPOF mapping

Table 778. Structure SPOFAREA (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
40	(28)	ADDRESS		4	SPOFAREA_GROUPCHECKSADDR	Pointer to a SPOFGroupCheck structure that contains the hardware isolation failures of devices in DEVN1 DEVN2 or VOLSER1 and VOLSER2
44	(2C)	ADDRESS		4	SPOFAREA_ENTRIESADDR	Array of pointers to SPOFCheck structures that contains the single point of failure information of the devices passed in
44	(2C)	X'D7D6C6'		0	SPOFAREA_EYECATCHCONST_0T03	"C'SPOF'" This is the first 4-byte segment of an 8-byte constant. The eye catcher of the SPOFArea
44	(2C)	X'D9C5C1'		0	SPOFAREA_EYECATCHCONST_4T07	"C'AREA'" This is the second 4-byte segment of an 8-byte constant. The eye catcher of the SPOFArea
44	(2C)	X'1'		0	SPOFAREA_VERSIONCURRENT	"1" Current version number
44	(2C)	X'1'		0	SPOFAREA_VERSIONONE	"1" Current version is version one

Table 779. Structure SPOFCHECK

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
0	(0)	STRUCTURE		0	SPOFCHECK	Check description mapping
Checks for single points of failure						
0	(0)	BITSTRING		8	SPOFCHECK_MASK64	Mask of single points of failure in 64 bit form
0	(0)	BITSTRING		4	SPOFCHECK_32MASK1	Mask of single points of failure in 32 bit form
0	(0)	BITSTRING		2	SPOFCHECK_16MASK1	Mask of single points of failure in 16 bit form
0	(0)	BITSTRING		1	SPOFCHECK_8MASK1	Mask of single points of failure in 8 bit form

Bit definitions:

1... ..	SPOFCHECK_NOTFOUND	"X'80'" Device does not exist
.1.. ..	SPOFCHECK_NOTONLINE	"X'40'" Device is not online
..1.	SPOFCHECK_NOPATHS	"X'20'" Device has no paths varied online
...1	SPOFCHECK_ONEPATH	"X'10'" Device has only one path varied online
.... 1...	SPOFCHECK_ONESWITCH	"X'08'" All online paths go through one switch
.... .1..	SPOFCHECK_NOPREFPATHS	"X'04'" Device has only non preferred paths online
.... ..1.	SPOFCHECK_ONLYLPREFPATHS	"X'02'" Device has only preferred paths online
.... ...1	SPOFCHECK_ONEPREFPATH	"X'01'" Device has only one preferred path online

Table 779. Structure SPOFCHECK (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1	(1)	BITSTRING	1	SPOFCHECK_8MASK2	Mask of single points of failure in 8 bit form
Bit definitions:					
		1... ..		SPOFCHECK_HOSTCHPSPF	"X'80'" All chpids share a single point of failure, on the host
		.1.. ..		SPOFCHECK_CUINTERSPF	"X'40'" All control unit interfaces share a single point of failure
		..1.		SPOFCHECK_SWCMHDWCOMP	"X'20'" All online paths share one or more common switch hardware components
If the 'N' bits are on the check for single points of failure could not be done, due to check failure.					
8	(8)	BITSTRING	8	SPOFCHECK_NC_MASK64	Mask of single points of failure in 64 bit that couldn't be performed
8	(8)	BITSTRING	4	SPOFCHECK_NC_32MASK1	Mask of single points of failure in 32 bit form
8	(8)	BITSTRING	2	SPOFCHECK_NC_16MASK1	Mask of single points of failure in 16 bit form
8	(8)	BITSTRING	1	SPOFCHECK_NC_8MASK1	Mask of single points of failure in 8 bit form
Bit definitions:					
		1... ..		SPOFCHECK_NNOTFOUND	"X'80'" Device does not exist
		.1.. ..		SPOFCHECK_NC_NOTONLINE	"X'40'" Device is not online
		..1.		SPOFCHECK_NC_NOPATHS	"X'20'" Device has no paths varied online
		...1		SPOFCHECK_NC_ONEPATH	"X'10'" Device has only one path varied online
		.... 1...		SPOFCHECK_NC_ONESWITCH	"X'08'" All online paths go through one switch
		.... .1..		SPOFCHECK_NC_NOPREFPATHS	"X'04'" Device has only non preferred paths online
		.... ..1.		SPOFCHECK_NC_ONLYPREFPATHS	"X'02'" Device has only preferred paths online
		.... ...1		SPOFCHECK_NC_ONEPREFPATH	"X'01'" Device has only one preferred path online
9	(9)	BITSTRING	1	SPOFCHECK_NC_8MASK2	Mask of single points of failure in 8 bit form
Bit definitions:					
		1... ..		SPOFCHECK_NC_HOSTCHPSPF	"X'80'" All chpids share a single point of failure, on the host
		.1.. ..		SPOFCHECK_NC_CUINTERSPF	"X'40'" All control unit interfaces share a single point of failure
Validity flags					
16	(10)	BITSTRING	1	SPOFCHECK_FLAGS	Use Flags
Bit definitions:					

IOSDSPOF mapping

Table 779. Structure SPOFCHECK (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		SPOFCHECK_DEVNCH_VALID	"X'80" Is the devnchar valid
		.1..		SPOFCHECK_VOLSER_VALID	"X'40" Is the VOLSER valid
		..1.		SPOFCHECK_CHP_DIAG_VLD	"X'20" Is the CHP_Diag valid
		...1		SPOFCHECK_CUI_DIAG_VLD	"X'10" Is the CUI_Diag valid
17	(11)	CHARACTER	5	SPOFCHECK_DEVNCHAR	The device number of the device in character form
22	(16)	CHARACTER	6	SPOFCHECK_VOLSER	The VOLSER of the checked device
The CU interface numbers and compare channel components words					
28	(1C)	BITSTRING	12	SPOFCHECK_CHP_DIAG	Resulting host specific compare channel components result word
28	(1C)	CHARACTER	12	SPOFCHECK_CHP_DIAG_CHAR	Resulting host specific compare channel components result word
40	(28)	BITSTRING	2	SPOFCHECK_CUI_DIAG	Control unit interface Area
40	(28)	BITSTRING	1	SPOFCHECK_NUM_COM_CUI	The number of common control unit interfaces
41	(29)	BITSTRING	1	SPOFCHECK_NUM_PSB_CUI	The number of possible control unit interfaces in common
42	(2A)	BITSTRING	2		Reserved
Switch Diagnostic Area Contains additional information regarding the common switch hardware components shared by all the online paths.					
44	(2C)	CHARACTER	224	SPOFCHECK_SWITCH_DIAG	Switch diagnostic area
44	(2C)	CHARACTER	30	SPOFCHECK_SD_PND	The physical switch's node descriptor dot qualified
74	(4A)	BITSTRING	1	SPOFCHECK_SD_COUNT	The total number of hardware components in common among the online paths.
75	(4B)	CHARACTER	1		Reserved
76	(4C)	CHARACTER	24	SPOFCHECK_SD_HWPART_NAME	The array of common hardware component names, obtained from the switch
268	(10C)	CHARACTER	16		Reserved
268	(10C)	X'11C'	0	SPOFCHECK_LEN	"284"
The number of checks in a SPOFCheck					
268	(10C)	X'B'	0	SPOFCHECK_NUMBER	"11" There are 11 types of checks in a SPOFCheck

Table 780. Structure SPOFGROUPCHECK

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SPOFGROUPCHECK	
Group Check mapping					
Checks for single points of failure					
0	(0)	BITSTRING	8	SPOFGROUPCHECK_MASK64	Mask of single points of failure in 64 bit form
0	(0)	BITSTRING	4	SPOFGROUPCHECK_32MASK1	Mask of single points of failure in 32 bit form
0	(0)	BITSTRING	2	SPOFGROUPCHECK_16MASK1	Mask of single points of failure in 16 bit form

Table 780. Structure SPOFGROUPCHECK (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	BITSTRING	1	SPOFGROUPCHECK_8MASK1	Mask of single points failure in 8 bit form
Bit definitions:					
		1... ..		SPOFGROUPCHECK_SAMEDEVICE	"X'80'" Devices are the same device
		.1.. ..		SPOFGROUPCHECK_SHARELSS	"X'40'" Devices share a logical subsystem
		..1.		SPOFGROUPCHECK_SHAREPHYSU	"X'20'" Devices share a physical control unit
		...1		SPOFGROUPCHECK_SHARESWITCH	"X'10'" All online paths of both devices go through one switch
		.... 1...		SPOFGROUPCHECK_HOSTCHPSPF	"X'08'" All chpids share a single point of failure, on the host side in both devices
		.... .1..		SPOFGROUPCHECK_CUINTERSPF	"X'04'" All control unit interfaces share a single point of failure for both devices
		.... ..1.		SPOFGROUPCHECK_SWCMHDWCOMP	"X'02'" All online paths share one or more common switch hardware components
If the 'N' bits are on the check for single points of failure could not be done, due to check failure.					
8	(8)	BITSTRING	8	SPOFGROUPCHECK_NC_MASK64	Mask of single points of failure that couldn't be performed
8	(8)	BITSTRING	4	SPOFGROUPCHECK_NC_32MASK1	Mask of single points of failure in 32 bit form
8	(8)	BITSTRING	2	SPOFGROUPCHECK_NC_16MASK1	Mask of single points of failure in 16 bit form
8	(8)	BITSTRING	1	SPOFGROUPCHECK_NC_8MASK1	Mask of single points of failure in 8 bit form
Bit definitions:					
		1... ..		SPOFGROUPCHECK_NC_SAMEDEVICE	"X'80'" Devices are the same device
		.1.. ..		SPOFGROUPCHECK_NC_SHARELSS	"X'40'" Devices share a logical subsystem
		..1.		SPOFGROUPCHECK_NC_SHAREPHYSU	"X'20'" Devices share a physical control unit
		...1		SPOFGROUPCHECK_NC_SHARESWITCH	"X'10'" All online paths of both devices go through one switch
		.... 1...		SPOFGROUPCHECK_NC_HOSTCHPSPF	"X'08'" All chpids share a single point of failure, on the host side in both devices
		.... .1..		SPOFGROUPCHECK_NC_CUINTERSPF	"X'04'" All control unit interfaces share a single point of failure for both devices
Validity flags					

IOSDSPOF mapping

Table 780. Structure SPOFGROUPCHECK (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
16	(10)	BITSTRING	1	SPOFGROUPCHECK_FLAGS	Use Flags
Bit definitions:					
		1... ..		SPOFGROUPCHECK_CHP_DIAG_VLD	"X'80'" On if the CHP_Diag is valid
		.1... ..		SPOFGROUPCHECK_CUI_DIAG_VLD	"X'40'" On if the CUI_Diag is valid
17	(11)	CHARACTER	3		Reserved
The CU interface numbers and compare channel components words					
20	(14)	BITSTRING	12	SPOFGROUPCHECK_CHP_DIAG	Resulting host specific compare channel components result word
20	(14)	CHARACTER	12	SPOFGROUPCHECK_CHP_DIAG_CHAR	Resulting host specific compare channel components result word
32	(20)	BITSTRING	2	SPOFGROUPCHECK_CUI_DIAG	Resulting and of Attached Node Descriptor tags
32	(20)	BITSTRING	1	SPOFGROUPCHECK_NUM_COM_CUI	The number of common control unit interfaces
33	(21)	BITSTRING	1	SPOFGROUPCHECK_NUM_PSB_CUI	The number of possible control unit interfaces in common
34	(22)	BITSTRING	2		Reserved
Group Switch Diagnostic Area Contains additional information regarding the common switch hardware components shared by all the online paths.					
36	(24)	CHARACTER	224	SPOFGROUPCHECK_SWITCH_DIAG	Switch diagnostic area
36	(24)	CHARACTER	30	SPOFGROUPCHECK_SD_PND	The physical switch's node descriptor dot qualified
66	(42)	BITSTRING	1	SPOFGROUPCHECK_SD_COUNT	The total number of hardware components in common among the online paths.
67	(43)	CHARACTER	1		Reserved
68	(44)	CHARACTER	24	SPOFGROUPCHECK_SD_HWPART_NAME	The array of common hardware component names, obtained from the switch
260	(104)	CHARACTER	16		Reserved
260	(104)	X'114'	0	SPOFGROUPCHECK_LEN	"276"
The number of checks in a SPOFGroupCheck					
260	(104)	X'7'	0	SPOFGROUPCHECK_NUMBER	"7" There are 7 types of checks in a SPOFGroupCheck

Table 781. Cross Reference for IOSDSPOF

Name	Offset	Hex	Tag
SPOFAREA	0		
SPOFAREA_ENTRIESADDR	2C		
SPOFAREA_EYECATCH	0		
SPOFAREA_EYECATCHCONST_0T03	2C	D7D6C6	
SPOFAREA_EYECATCHCONST_4T07	2C	D9C5C1	

Table 781. Cross Reference for IOSDSPOF (continued)

Name	Offset	Hex Tag
SPOFAREA_GROUPCHECKSADDR	28	
SPOFAREA_HDRLEN	9	
SPOFAREA_HEADER	0	
SPOFAREA_LEN	C	
SPOFAREA_NUMENTRIES	10	
SPOFAREA_SUBPOOL	A	
SPOFAREA_SUMCHECKSADDR	24	
SPOFAREA_VERSION	8	
SPOFAREA_VERSIONCURRENT	2C	1
SPOFAREA_VERSIONNONE	2C	1
SPOFCHECK	0	
SPOFCHECK_CHP_DIAG	1C	
SPOFCHECK_CHP_DIAG_CHAR	1C	
SPOFCHECK_CHP_DIAG_VLD	10	20
SPOFCHECK_CUI_DIAG	28	
SPOFCHECK_CUI_DIAG_VLD	10	10
SPOFCHECK_CUINTERSPF	1	40
SPOFCHECK_DEVNCH_VALID	10	80
SPOFCHECK_DEVNCHAR	11	
SPOFCHECK_FLAGS	10	
SPOFCHECK_HOSTCHPSPF	1	80
SPOFCHECK_LEN	10C	11C
SPOFCHECK_MASK64	0	
SPOFCHECK_NC_CUINTERSPF	9	40
SPOFCHECK_NC_HOSTCHPSPF	9	80
SPOFCHECK_NC_MASK64	8	
SPOFCHECK_NC_NOPATHS	8	20
SPOFCHECK_NC_NOPREFPATHS	8	4
SPOFCHECK_NC_NOTONLINE	8	40
SPOFCHECK_NC_ONEPATH	8	10
SPOFCHECK_NC_ONEPREFPATH	8	1
SPOFCHECK_NC_ONESWITCH	8	8
SPOFCHECK_NC_ONLYPREFPATHS	8	2
SPOFCHECK_NC_16MASK1	8	
SPOFCHECK_NC_32MASK1	8	
SPOFCHECK_NC_8MASK1	8	
SPOFCHECK_NC_8MASK2	9	
SPOFCHECK_NNOTFOUND	8	80
SPOFCHECK_NOPATHS	0	20
SPOFCHECK_NOPREFPATHS	0	4
SPOFCHECK_NOTFOUND	0	80
SPOFCHECK_NOTONLINE	0	40
SPOFCHECK_NUM_COM_CUI	28	
SPOFCHECK_NUM_PSB_CUI	29	
SPOFCHECK_NUMBER	10C	B
SPOFCHECK_ONEPATH	0	10
SPOFCHECK_ONEPREFPATH	0	1
SPOFCHECK_ONESWITCH	0	8
SPOFCHECK_ONLYPREFPATHS	0	2

IOSDSPOF mapping

Table 781. Cross Reference for IOSDSPOF (continued)

Name	Offset	Hex Tag
SPOFCHECK_SD_COUNT	4A	
SPOFCHECK_SD_HWPART_NAME	4C	
SPOFCHECK_SD_PND	2C	
SPOFCHECK_SWCMHDWCOMP	1	20
SPOFCHECK_SWITCH_DIAG	2C	
SPOFCHECK_VOLSER	16	
SPOFCHECK_VOLSER_VALID	10	40
SPOFCHECK_16MASK1	0	
SPOFCHECK_32MASK1	0	
SPOFCHECK_8MASK1	0	
SPOFCHECK_8MASK2	1	
SPOFGROUPCHECK	0	
SPOFGROUPCHECK_CHP_DIAG	14	
SPOFGROUPCHECK_CHP_DIAG_CHAR	14	
SPOFGROUPCHECK_CHP_DIAG_VLD	10	80
SPOFGROUPCHECK_CUI_DIAG	20	
SPOFGROUPCHECK_CUI_DIAG_VLD	10	40
SPOFGROUPCHECK_CUINTERSPF	0	4
SPOFGROUPCHECK_FLAGS	10	
SPOFGROUPCHECK_HOSTCHPSPF	0	8
SPOFGROUPCHECK_LEN	104	114
SPOFGROUPCHECK_MASK64	0	
SPOFGROUPCHECK_NC_CUINTERSPF	8	4
SPOFGROUPCHECK_NC_HOSTCHPSPF	8	8
SPOFGROUPCHECK_NC_MASK64	8	
SPOFGROUPCHECK_NC_SAMEDEVICE	8	80
SPOFGROUPCHECK_NC_SHARELSS	8	40
SPOFGROUPCHECK_NC_SHAREPHYSU	8	20
SPOFGROUPCHECK_NC_SHARESWITCH	8	10
SPOFGROUPCHECK_NC_16MASK1	8	
SPOFGROUPCHECK_NC_32MASK1	8	
SPOFGROUPCHECK_NC_8MASK1	8	
SPOFGROUPCHECK_NUM_COM_CUI	20	
SPOFGROUPCHECK_NUM_PSB_CUI	21	
SPOFGROUPCHECK_NUMBER	104	7
SPOFGROUPCHECK_SAMEDEVICE	0	80
SPOFGROUPCHECK_SD_COUNT	42	
SPOFGROUPCHECK_SD_HWPART_NAME	44	
SPOFGROUPCHECK_SD_PND	24	
SPOFGROUPCHECK_SHARELSS	0	40
SPOFGROUPCHECK_SHAREPHYSU	0	20
SPOFGROUPCHECK_SHARESWITCH	0	10
SPOFGROUPCHECK_SWCMHDWCOMP	0	2
SPOFGROUPCHECK_SWITCH_DIAG	24	
SPOFGROUPCHECK_16MASK1	0	
SPOFGROUPCHECK_32MASK1	0	
SPOFGROUPCHECK_8MASK1	0	

Chapter 206. IOSDSRWQ Information

IOSDSRWQ Heading Information

Common Name: Subchannel Recovery Word Queuing Element
 Macro ID: IOSDSRWQ
 DSECT Name: SRWQ
 Owning Component: IOS (SC1C3)
 Eye-Catcher ID: SRWQ
 Offset: 0
 Length: 4
 Storage Attributes: Main Storage: YES
 Virtual Storage: n/a
 Auxiliary Storage: n/a
 Subpool: 245
 Key: 0
 Residency: Above 16MB line
 Size: 128 bytes.
 Created by: IOSRACRW when obtaining the hardware pending CRWs. By IOS modules when they create software CRWs.
 Pointed to by: UCBSCHRC field of the UCB data area
 Serialization: For Subchannel Recovery, the UCB lock.
 Function: The SRWQ contains all the data and pointers needed by IOS modules to perform Subchannel recovery

IOSDSRWQ mapping

Table 782. Structure SRWQ

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	132	SRWQ	
0	(0)	CHARACTER	36	SRWQFLD1	
0	(0)	CHARACTER	4	SRWQID	Acronym ('SRWQ')
4	(4)	ADDRESS	4	SRWQNEXT	Pointer to next SRWQ
8	(8)	CHARACTER	4	SRWQCRW	CRW
12	(C)	SIGNED	4	SRWQSQNO	Sequence number of this CRW
16	(10)	SIGNED	4	SRWQASNO	Associated sequence number
20	(14)	CHARACTER	4	SRWQDATA	Additional data - module usage
24	(18)	BITSTRING	1	SRWQFLG1	Flag byte
		1...		*	Reserved
		.1..		SRWQSOFT	If ON, the CRW in SRWQCRW is a software generated CRW. The ERC (CRWERC) field is defined by the constants in the IHACRW mapping macro
		..1.		SRWQHUNG	If ON, the SRWQDATA field contains a related CRW.
		...1		SRWQSCBV	If ON, the SRWQSCIB field contains valid SCHIB data.

IOSDSRWQ mapping

Table 782. Structure SRWQ (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
		....	1...		SRWQECBA	If ON, the SRWQFECB field contains an ECB address.
		....	.1..		SRWQSCHW	If ON, a subchannel recovery process, described by this SRWQ, is waiting for the completion of channel path recovery.
		....	..1.		SRWQNOMSG164	Don't issue message IOS164I
		....	...1		SRWQCMP1	If ON, this SRWQ has been processed
25	(19)	UNSIGNED		1	SRWQSP	Subpool of SRWQE
26	(1A)	SIGNED		2	SRWQLENG	Length of SRWQE
28	(1C)	BITSTRING		1	SRWQFLG2	Flag byte
			1... ..		SRWQNCON	State of UCBNOCON
			.1.. ..		SRWQMSG	Message must be issued for software CRW
			..1.		SRWQTHRD	If the SRWQ element represents a software generated CRW, this bit indicates that the CRW should be treated like a hardware generated CRW.
			...1		SRWQ_PIN_UCBLOOK	UCB pinned by UCBLOOK service SRWQPIN field valid
			.... 1...		SRWQ_PIN_UCBSCAN	UCB pinned by UCBSCAN service
			.... .1..		SRWQEARLYUCBDEFER	UCBDEFER set early by IOSRACRW to prevent posting of I/O during Hyperswappable events. IOSRSCH is required to properly "defer box" the device.
			.... ..11		*	Reserved
29	(1D)	CHARACTER		1	SRWQRSV1	Reserved
30	(1E)	ADDRESS		2	SRWQCP	Processor address CRW retrieved on
32	(20)	CHARACTER		4	SRWQFREE	Free-SRWQ chain
36	(24)	CHARACTER		44	SRWQSRB	SRB
80	(50)	CHARACTER		28	SRWQFLD2	Recovery dependent data field
80	(50)	CHARACTER		28	SRWQSCIB	SCHIB data for subchannel recovery
108	(6C)	CHARACTER		4	SRWQFECB	ECB address
112	(70)	ADDRESS		4	SRWQASCB	ASCB for ECB (zero if masters address space is to be posted
116	(74)	CHARACTER		8	SRWQPIN	Pin token for UCB - valid when SRWQ_Pin_UCBLOOK set
124	(7C)	CHARACTER		8	SRWQSTKN	STOKEN for software CRWs that require cross memory post

Table 783. Cross Reference for IOSDSRWQ

Name	Offset	Hex Tag
SRWQ	0	
SRWQ_PIN_UCBLOOK	1C	10
SRWQ_PIN_UCBSCAN	1C	08
SRWQASCB	70	
SRWQASNO	10	

Table 783. Cross Reference for IOSDSRWQ (continued)

Name	Offset	Hex Tag
SRWQCMP	18	01
SRWQCP	1E	
SRWQCRW	8	
SRWQDATA	14	
SRWQEARLYUCBDEFER	1C	04
SRWQECBA	18	08
SRWQFECB	6C	
SRWQFLD1	0	
SRWQFLD2	50	
SRWQFLG1	18	
SRWQFLG2	1C	
SRWQFREE	20	
SRWQHUNG	18	20
SRWQID	0	
SRWQLENG	1A	
SRWQMSG	1C	40
SRWQNCON	1C	80
SRWQNEXT	4	
SRWQNOMSG164	18	02
SRWQPIN	74	
SRWQRSV1	1D	
SRWQSCBV	18	10
SRWQSCHW	18	04
SRWQSCIB	50	
SRWQSOFT	18	40
SRWQSP	19	
SRWQSQNO	C	
SRWQSRB	24	
SRWQSTKN	7C	
SRWQTHRD	1C	20

IOSDSRWQ mapping

Chapter 207. IOSDSWAP Information

IOSDSWAP Programming Interface Information

IOSDSWAP is a programming interface.

IOSDSWAP Heading Information

Common Name: IOS Swap Parameter List
Macro ID: IOSDSWAP
DSECT Name: SWAP
Owning Component: I/O Supervisor (SC1C3)
Eye-Catcher ID: SWAP
Offset: 0
Length: 4
Storage Attributes: Subpool: Any fixed storage subpool
Key: 0
Residency: Fixed storage
Size: One SWAP DSECT plus one SWAPLIST DSECT per device pair
Swap -- X'0010' bytes
SwapList -- X'0010' bytes
Created by: Callers of IOSVSWAP and users of UCBSWAP
Pointed to by: n/a
Serialization: None
Function: This mapping is used as input to IOSVSWAP and UCBSWAP in order to allow a list of device pairs to be swapped.
Notes:
- In order to distinguish the use of this mapping vs. the register only interface to IOSVSWAP, the high order bit of register 1, which contains the address of the Swap Parameter List, must be set to 1 when calling IOSVSWAP (i.e., Reg1 = the Swap Parameter List address OR'd with x'80000000).
- UCBSWAP is for IOS use only and is not part of the programming interface.

IOSDSWAP mapping

Table 784. Structure SWAP

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SWAP	SWAP parameter list mapping
0	(0)	CHARACTER	4	SWAPID	Swap identifier "SWAP"
4	(4)	BITSTRING	1	SWAPVERSION	Version number
5	(5)	CHARACTER	1	SWAPFLAGS	Flags
Bit definitions:					
		1... ..		SWAPBYPASSALLOCTABLES	"X'80'" Indicates that IOSVSWAP should bypass swapping the allocation tables

IOSDSWAP mapping

Table 784. Structure SWAP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
	.1..	....		SWAPBYPASSQUEUEDMSCHCHECKS	"X'40'" Indicates that IOSVSWAP should bypass queued MSCH checking for all devices in the SwapList. This avoids a queued modify from causing IOSVSWAP to fail
	..1.	....		SWAPBYPASSMIDAWCHECKS	"X'20'" Indicates that IOSVSWAP should bypass MIDAW consistency checking for all devices in the SwapList. Note: This bit is for IOS use only
6	(6)	CHARACTER	2		Available
8	(8)	SIGNED	4	SWAPLISTCOUNTER	Count of device pairs to swap
12	(C)	ADDRESS	4	SWAPLISTADDRESS	Address of device pair list
16	(10)	CHARACTER	1	SWAPEND(0)	End of table
Constants - Header Information					
16	(10)	X'0'	0	SWAP_VERSION	"0" Current version constant
16	(10)	X'E6C1D7'	0	SWAP_IDENTIFER	"C'SWAP'" Swap Id
16	(10)	X'10'	0	SWAP_LEN	"*-Swap"

Table 785. Structure SWAPLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SWAPLIST	Swap device pair list
0	(0)	ADDRESS	4	SWAPFROMUCB	From device actual UCB addr
4	(4)	ADDRESS	4	SWAPTOUCB	To device actual UCB addr
8	(8)	CHARACTER	4	SWAPWORKAREA	Workarea for caller
12	(C)	CHARACTER	4	SWAPENTRYRESULT	Results
12	(C)	SIGNED	2	SWAPENTRYRSN	Reason code for device pair
14	(E)	SIGNED	2	SWAPENTRYRC	Return code for device pair
Constants - IOSVSWAP Return Codes					
14	(E)	X'0'	0	SWAP_RCSUCCESS	"0" Swap successful
14	(E)	X'4'	0	SWAP_RCFAILED	"4" Swap failed
Constants - IOSVSWAP Reason Codes					
14	(E)	X'2'	0	SWAP_RSNTODISABLEFAILED1	"2" The attempt to disable the FROM device failed. This reason code is used when the device is not boxed.
14	(E)	X'3'	0	SWAP_RSNTODISABLEFAILED2	"3" The attempt to disable the FROM device failed. This reason code is used when the device is boxed and either disabled or hot
14	(E)	X'4'	0	SWAP_RSNTODISABLEFAILED	"4" The attempt to disable the TO device failed.
14	(E)	X'5'	0	SWAP_RSNTODISABLED	"5" The TO device was already in the disabled state.
14	(E)	X'6'	0	SWAP_RSNTODISABLED	"6" The FROM device had a modify subchannel request queued
14	(E)	X'7'	0	SWAP_RSNTODISABLED	"7" The TO device had a modify subchannel request queued

Table 785. Structure SWAPLIST (continued)

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
14	(E) X'8'		0	SWAP_RSNMIDAWINCOMPATIBLE	"8" The MIDAW capabilities of the FROM and TO device are different
14	(E) X'9'		0	SWAP_RSNLUTENTRYNOTFOUND	"9" The ULUT entry was not successfully found for one or both of the devices being swapped
14	(E) X'10'		0	SWAPLIST_LEN	"*-SwapList"

Table 786. Cross Reference for IOSDSWAP

Name	Offset	Hex	Tag
SWAP	0		
SWAP_IDENTIFER	10	E6C1D7	
SWAP_LEN	10	10	
SWAP_RCFAILED	E	4	
SWAP_RCSUCCESS	E	0	
SWAP_RSNFROMDISABLEFAILED1	E	2	
SWAP_RSNFROMDISABLEFAILED2	E	3	
SWAP_RSNFROMHASQUEUEDMSCH	E	6	
SWAP_RSNMIDAWINCOMPATIBLE	E	8	
SWAP_RSNTODISABLED	E	5	
SWAP_RSNTODISABLEFAILED	E	4	
SWAP_RSNTOHASQUEUEDMSCH	E	7	
SWAP_RSNLUTENTRYNOTFOUND	E	9	
SWAP_VERSION	10	0	
SWAPBYPASSALLOCTABLES	5	80	
SWAPBYPASSMIDAWCHECKS	5	20	
SWAPBYPASSQUEUEDMSCHCHECKS	5	40	
SWAPEND	10		
SWAPENTRYRC	E		
SWAPENTRYRESULT	C		
SWAPENTRYRSN	C		
SWAPFLAGS	5		
SWAPFROMUCB	0		
SWAPID	0		
SWAPLIST	0		
SWAPLIST_LEN	E	10	
SWAPLISTADDRESS	C		
SWAPLISTCOUNTER	8		
SWAPTOUCB	4		
SWAPVERSION	4		
SWAPWORKAREA	8		

IOSDSWAP mapping

Chapter 208. IOSDSWTD Information

IOSDSWTD Programming Interface Information

IOSDSWTD is a programming interface.

IOSDSWTD Heading Information

Common Name: Switch Data Area mapping
Macro ID: IOSDSWTD
DSECT Name: SWITCH_DATA_AREA
Owning Component: IOS (SC1C3)
Eye-Catcher ID: none
Storage Attributes: Subpool: caller-provided
Key: caller-provided
Residency: caller-provided
Size: 52 bytes for SWITCH_DATA_AREA
46 bytes + (2 bytes * number of CUs)
for each SWITCH_Port_Record
Created by: IOSVIOSW
Pointed to by: N/A
Serialization: N/A
Function: Maps the output area associated with the IOSWITCH service.

IOSDSWTD mapping

Table 787. Structure

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

Table 788. Structure SWITCH_DATA_AREA

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SWITCH_DATA_AREA	Switch Data Area
0	(0)	CHARACTER	4	SWITCH_ID	Eye catcher
4	(4)	SIGNED	1	SWITCH_VERSION	Version number
		.... ..11		SWITCH_CURRVRSN	"X'03'" Current Version
		.... ...1		SWITCH_VRSNONE	"X'01'" Version 1
		.... ..1.		SWITCH_VRSNTWO	"X'02'" Version 2 Supports the two byte implemented and installed port counts.
		.... ..11		SWITCH_VRSNTHREE	"X'03'" Version 3 Supports switch_physical_nd
5	(5)	SIGNED	1	SWITCH_OFFSET_1ST_PORT	Offset to first port record
6	(6)	SIGNED	2	SWITCH_DEVICE	Switch device number
8	(8)	SIGNED	1	SWITCH_TOTAL_IMPLEMENTED	Total number of implemented ports Note: Field maintained for legacy applications. The two byte version of this field should be used.

IOSDSWTD mapping

Table 788. Structure SWITCH_DATA_AREA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
9	(9)	SIGNED	1	SWITCH_TOTAL_INSTALLED	Total number of installed ports Note: Field maintained for legacy applications. The two byte version of this field should be used.
10	(A)	CHARACTER 1... .... .1..	1	SWITCH_FLAGS SWITCH_OFFLINE SWITCH_RPSN_VALID	Flags "X'80'" On = offline switch "X'40'" On = relative physical switch number valid
11	(B)	SIGNED	1	SWITCH_RPSN	Relative physical switch number
12	(C)	CHARACTER	32	SWITCH_NODE_DESC	Node descriptor
44	(2C)	CHARACTER	32	SWITCH_TOKEN_NED	Token Ned
76	(4C)	SIGNED	2	SWITCH_TOTAL_IMPLEMENTED_2BYTE	Two byte version of the count of total implemented ports.
78	(4E)	SIGNED	2	SWITCH_TOTAL_INSTALLED_2BYTE	Two byte version of the count of total installed ports.
80	(50)	CHARACTER	4		Reserved
84	(54)	CHARACTER	32	SWITCH_PHYSICAL_ND	Physical node descriptor
84	(54)	X'74'	0	SWITCH_LEN	"*-SWITCH_DATA_AREA"

Table 789. Structure SWITCH_PORT_RECORD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	SWITCH_PORT_RECORD	Port record
0	(0)	SIGNED	2	SWITCH_PORT_OFFSET_NEXT	Offset to next port record
2	(2)	SIGNED	1	SWITCH_PORT_ADDRESS	Logical port address
3	(3)	SIGNED	1	SWITCH_PORT_NUMBER	Port number
4	(4)	CHARACTER 1... .... .1.. .... ..1. .... ...1 1... .... .1.. .... ..1. .... ...1	1	SWITCH_PORT_FLAGS_1 SWITCH_PORT_INSTALLED SWITCH_PORT_COMMAND_OFFLINE SWITCH_PORT_SYSTEM_OFFLINE SWITCH_PORT_STATE_OFFLINE SWITCH_PORT_DCM_INELIGIBLE SWITCH_PORT_CHANNEL SWITCH_PORT_CU SWITCH_PORT_UNKNOWN	Port flags set 1 "X'80'" On = port installed "X'40'" On = offline to DCM by command "X'20'" On = offline to DCM by system "X'10'" On = offline to DCM by port state "X'08'" On = ineligible for use by DCM "X'04'" On = attached to channel "X'02'" On = attached to CUs "X'01'" On = neither CHPID or CU(s)
5	(5)	CHARACTER 1... 1... .... .1..	1	SWITCH_PORT_FLAGS_2 SWITCH_PORT_SYSTEM_CHANNEL SWITCH_PORT_MACHINE_CHANNEL SWITCH_E_PORT	Port flags set 2 "X'80'" On = channel is known to caller's system "X'80'" Old name for bit "X'40'" On = port is an E_PORT and attached device is a switch
6	(6)	CHARACTER	4		Reserved

Table 789. Structure SWITCH_PORT_RECORD (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
10	(A)	SIGNED		2	SWITCH_PORT_PATH_COUNT	Number of CHPIDs connected
12	(C)	SIGNED		4	SWITCH_PORT_TIME_STAMP	Destination port busy time stamp
16	(10)	CHARACTER		4	SWITCH_PORT_DESC	Port descriptor
20	(14)	CHARACTER		32	SWITCH_PORT_PDCM	Prohibit Dynamic Connectivity Mask
52	(34)	CHARACTER		32	SWITCH_PORT_ATT_ND	Attached node descriptor
84	(54)	SIGNED		1	SWITCH_PORT_CHPID	CHPID number
85	(55)	SIGNED		1	SWITCH_PORT_CU_COUNT	Number of CU entries
86	(56)	SIGNED		2	SWITCH_PORT_CU_#	CU number array entry

Table 790. Cross Reference for IOSDSWTD

Name	Offset	Hex	Tag
SWITCH_CURRVRSN	4		3
SWITCH_DATA_AREA	0		
SWITCH_DEVICE	6		
SWITCH_E_PORT	5		40
SWITCH_FLAGS	A		
SWITCH_ID	0		
SWITCH_LEN	54		74
SWITCH_NODE_DESC	C		
SWITCH_OFFLINE	A		80
SWITCH_OFFSET_1ST_PORT	5		
SWITCH_PHYSICAL_ND	54		
SWITCH_PORT_ADDRESS	2		
SWITCH_PORT_ATT_ND	34		
SWITCH_PORT_CHANNEL	4		4
SWITCH_PORT_CHPID	54		
SWITCH_PORT_COMMAND_OFFLINE	4		40
SWITCH_PORT_CU	4		2
SWITCH_PORT_CU_#	56		
SWITCH_PORT_CU_COUNT	55		
SWITCH_PORT_DCM_INELIGIBLE	4		8
SWITCH_PORT_DESC	10		
SWITCH_PORT_FLAGS_1	4		
SWITCH_PORT_FLAGS_2	5		
SWITCH_PORT_INSTALLED	4		80
SWITCH_PORT_MACHINE_CHANNEL	5		80
SWITCH_PORT_NUMBER	3		
SWITCH_PORT_OFFSET_NEXT	0		
SWITCH_PORT_PATH_COUNT	A		
SWITCH_PORT_PDCM	14		
SWITCH_PORT_RECORD	0		
SWITCH_PORT_STATE_OFFLINE	4		10
SWITCH_PORT_SYSTEM_CHANNEL	5		80
SWITCH_PORT_SYSTEM_OFFLINE	4		20
SWITCH_PORT_TIME_STAMP	C		
SWITCH_PORT_UNKNOWN	4		1
SWITCH_RPSN	B		

IOSDSWTD mapping

Table 790. Cross Reference for IOSDSWTD (continued)

Name	Offset	Hex Tag
SWITCH_RPSN_VALID	A	40
SWITCH_TOKEN_NED	2C	
SWITCH_TOTAL_IMPLEMENTED	8	
SWITCH_TOTAL_IMPLEMENTED_2BYTE	4C	
SWITCH_TOTAL_INSTALLED	9	
SWITCH_TOTAL_INSTALLED_2BYTE	4E	
SWITCH_VERSION	4	
SWITCH_VRSNONE	4	1
SWITCH_VRSNTHREE	4	3
SWITCH_VRSNTWO	4	2

Chapter 209. IOSDTCCB Information

IOSDTCCB Programming Interface Information

IOSDTCCB is a programming interface.

IOSDTCCB Heading Information

Common Name: Transport Command Control Block
Macro ID: IOSDTCCB
DSECT Name: TCAH, DCW, TCAT
Owning Component: I/O Supervisor (SC1C3)
Eye-Catcher ID: None
Storage Attributes: Main Storage: Yes
Virtual Storage: Yes
Auxiliary Storage: N/A
Subpool: Any
Key: Any
Residency: Below 2G in virtual, above 2G in real
Size: 16 Bytes for TCAH
8 bytes for DCW
8 bytes for TCAT
Created by: User
Pointed to by: TCWTCCBAddr in IOSDTCW (real address)
TIDAW0_Addr in IOSDTCW (real address)
Serialization: None
Function: IOSDTCCB maps the Transport Command Control which contain the commands to be transported to the device for execution. The TCCB contains the following sections:
-- Transport Command Area Header (TCAH) - Contains information about the TCA and the operations described within.
-- Transport Command Area (TCA) - Contains one to 30 Device Command Words (DCWs) that specify the commands to be executed. Each DCW contains the following information
-- Command code
-- Flags to indicate command chaining etc.
-- The length of the control data for the command, if any
-- The length of the data to be read or written
If the command requires control data (e.g., define extent or locate record parameter data), the control data immediately follows the DCW. If the control data is not a multiple of 4, pad bytes must be added to properly align the next DCW or the TCA trailer on a word boundary. The total size of the DCWs plus control data cannot exceed 240 bytes. The need for control data reduces the number of DCWs that may be contained in the TCA.
-- Transport Command Area Trailer (TCAT) - Contains the transport count which specifies the count of data bytes to be transferred.

IOSDTCCB mapping

Table 791. Structure TCAH

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	TCAH	Transport Command Area Header
0	(0)	CHARACTER	4	TCAH_WORD0(0)	Word 0
0	(0)	BITSTRING	1	TCAH_FORMAT	Format control
1	(1)	CHARACTER	3	TCAH_W0RSVD	Reserved
4	(4)	CHARACTER	4	TCAH_WORD1(0)	Word 1
4	(4)	CHARACTER	3	TCAH_W1RSVD	Reserved
7	(7)	BITSTRING	1	TCAH_TCAL	This value is the length of the TCA in bytes (TCA = DCWs + control data + pad bytes) plus 12
8	(8)	CHARACTER	4	TCAH_WORD2(0)	Word 2
8	(8)	BITSTRING	2	TCAH_SERVACT	Device dependent service action code
10	(A)	CHARACTER	1	TCAH_W2RSVD	Reserved
11	(B)	BITSTRING	1	TCAH_PRIORITY	Priority - must be set to zero by the builder of the channel program
12	(C)	CHARACTER	4	TCAH_WORD3(0)	Word 3
12	(C)	CHARACTER	4	TCAH_W3RSVD	Reserved
16	(10)	CHARACTER	1	TCAH_END(0)	End of TCA header
Constants for TCAH_Format					
	.111	1111		TCAH_FORMAT_7F	"X'7F'" Only format allowed
Constants for TCAH_ServAct					
16	(10)	BITSTRING	0	TCAH_SERVACT_1FFE	"X'1FFE'" Device dependent service action code
16	(10)	BITSTRING	0	TCAH_SERVACT_1FFF	"X'1FFF'" Device dependent service action code
16	(10)	BITSTRING	0	TCAH_SERVACT_INTG	"X'1FFF'" Service action code used for interrogate
16	(10)	X'10'	0	TCAH_LEN	"*-TCAH"

Table 792. Structure DCW

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DCW	Device Command Word
0	(0)	CHARACTER	4	DCW_WORD0(0)	DCW word zero
0	(0)	BITSTRING	1	DCW_CMD	Command code
1	(1)	BITSTRING	1	DCW_FLAGS(0)	Flags
		1... ..		DCW_FBIT0_RSVD	"X'80'" Reserved
		.1.. ..		DCW_CMDCHAIN	"X'40'" Command chain to the next DCW
		..1.		DCW_SLI	"X'20'" Suppress length indication
		...1 1111		DCW_FBIT37_RSVD	"X'1F'" Reserved
2	(2)	CHARACTER	1	DCW_W0B2RSVD	Reserved
3	(3)	BITSTRING	1	DCW_CD_COUNT	Control data count
4	(4)	SIGNED	4	DCW_COUNT	Count of read or write bytes
8	(8)	CHARACTER	1	DCW_END(0)	End of DCW

Table 792. Structure DCW (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
8	(8)	CHARACTER	.1.1	1	DCW_CONTROL_DATA(0)	Start of control data (if any)
			.11. . . .		DCW_CMD_TCAX	"X'50'" Transfer-TCA-extension (TCAX) command code
					DCW_CMD_TCOB	"X'60'" Transfer-CBC-offset-block (TCOB) command code
8	(8)	X'8'		0	DCW_LEN	"*-DCW"

Table 793. Structure TCAT

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
0	(0)	STRUCTURE		0	TCAT	Transport Command Area Trailer
0	(0)	CHARACTER		4	TCAT_CHANUSE	Reserved for use by channel
4	(4)	SIGNED		4	TCAT_TRANSPORT_COUNT	Count of data bytes transferred
8	(8)	CHARACTER		1	TCAT_END(0)	End of TCA trailer
8	(8)	X'8'		0	TCAT_LEN	"*-TCAT"

Table 794. Structure TCATB

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
0	(0)	STRUCTURE		0	TCATB	Transport Command Area Trailer
0	(0)	CHARACTER		4	TCATB_CHANUSE	Reserved for use by channel
4	(4)	SIGNED		4	TCATB_WRITE_COUNT	Count of write data bytes transferred
8	(8)	SIGNED		4	TCATB_READ_COUNT	Count of read data bytes transferred
12	(C)	CHARACTER		1	TCATB_END(0)	End of TCATB
12	(C)	X'C'		0	TCATB_LEN	"*-TCATB"

Table 795. Cross Reference for IOSDTCCB

Name	Offset	Hex	Tag
DCW	0		
DCW_CDCCOUNT	3		
DCW_CMD	0		
DCW_CMD_TCAX	8	50	
DCW_CMD_TCOB	8	60	
DCW_CMDCHAIN	1	40	
DCW_CONTROL_DATA	8		
DCW_COUNT	4		
DCW_END	8		
DCW_FBIT0_RSVD	1	80	
DCW_FBIT37_RSVD	1	1F	
DCW_FLAGS	1		
DCW_LEN	8	8	
DCW_SLI	1	20	
DCW_WORD0	0		
DCW_W0B2RSVD	2		
TCAH	0		
TCAH_END	10		

IOSDTCCB mapping

Table 795. Cross Reference for IOSDTCCB (continued)

Name	Offset	Hex Tag
TCAH_FORMAT	0	
TCAH_FORMAT_7F	10	7F
TCAH_LEN	10	10
TCAH_PRIORITY	B	
TCAH_SERVACT	8	
TCAH_SERVACT_INTG	10	1FFF
TCAH_SERVACT_1FFE	10	1FFE
TCAH_SERVACT_1FFF	10	1FFF
TCAH_TCAL	7	
TCAH_WORD0	0	
TCAH_WORD1	4	
TCAH_WORD2	8	
TCAH_WORD3	C	
TCAH_W0RSVD	1	
TCAH_W1RSVD	4	
TCAH_W2RSVD	A	
TCAH_W3RSVD	C	
TCAT	0	
TCAT_CHANUSE	0	
TCAT_END	8	
TCAT_LEN	8	8
TCAT_TRANSPORT_COUNT	4	
TCATB	0	
TCATB_CHANUSE	0	
TCATB_END	C	
TCATB_LEN	C	C
TCATB_READ_COUNT	8	
TCATB_WRITE_COUNT	4	

Chapter 210. IOSDTCW Information

IOSDTCW Programming Interface Information

IOSDTCW is a programming interface.

IOSDTCW Heading Information

Common Name: Transport Control Word
Macro ID: IOSDTCW
DSECT Name: TCW and TIDAW
Owning Component: I/O Supervisor (SC1C3)
Eye-Catcher ID: None
Storage Attributes: Main Storage: Yes
Virtual Storage: Yes
Auxiliary Storage: N/A
Subpool: Any
Key: Any
Residency: Below 2G in virtual and real storage
Size: 64 Bytes for TCW,
16 bytes for TIDAW
Created by: User
Pointed to by: TCW Pointers:
IOSRST in IECDIOSB (real address)
IOSVST in IECDIOSB (virtual address)
IOSTCWAD in IECDIOSB (real or virtual address)
ORB CPA in IHAORB (real address)
IRBTCWAD in IHAIRB (real address)
TCWInterrogateAddr in IOSDTCW (real address)
TIDAW Pointers:
TCWTCCBAddr in IOSDTCW (real address)
TCWInputAddr in IOSDTCW (real address)
TCWOutputAddr in IOSDTCW (real address)
TCWOutputAddr in IOSDTCW (real address)
TIDAW0_Adr in IOSDTCW (real address)
Serialization: None

IOSDTCW Heading Information

Function: IOSDTCW maps the Transport Control Word (TCW) which contains all of the information needed by the channel to drive an FCX I/O operation. It includes the following information:

- A pointer to a Transport Command Control Block (TCCB) that contains the commands to be executed. See macro IOSDTCCB.
- For write requests, a pointer to a data buffer or a list of data buffers (see TIDAL description below) that contain information that is transferred to the device.
- For read requests, a pointer to a data buffer or a list of data buffers (see TIDAL description below) that will contain information that is transferred from the device.
- A pointer to a Transport Status Block (TSB) that contains additional completion status over and above the status information stored in the IRB. See macro IOSDTSB.

The TCW is built by the I/O driver or its callers and passed to IOS in the IOSB. The first TCW is always copied to the IOQ by the device dependent STARTIO exit. This allows the exit to modify the channel program and also allows IOS to assign a Transport Status Block (TSB).

This macro also contains the mapping for the Transport Indirect Address Word (TIDAW). The TIDAW allows the TCCB and read/write data to be scattered in storage. The TCW points to an area of storage called a TIDAL list or TIDAL. Each quadword in the list is a TIDAW which points to either an area of storage or another TIDAL.

IOSDTCW mapping

Table 796. Structure TCW

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	TCW	Transport Control Word
0	(0)	CHARACTER	4	TCWORD0(0)	Word 0
0	(0)	BITSTRING	1	TCWORD0BYTE0(0)	Word 0, byte 0
		11..		TCWFORMAT	"X'C0'" TCW format
		..11 1111		TCWFORMATRSVD1	"X'3F'" Reserved, zeroes
1	(1)	CHARACTER	3	TCWFLAGS(0)	Flags
1	(1)	BITSTRING	1	TCWFLAG1(0)	Flag one
		1...		TCWRSVD1	"X'80'" Reserved
		.1..		TCWRSVD2	"X'40'" Reserved
		..1.		TCWRSVD3	"X'20'" Reserved
		...1		TCWRSVD4	"X'10'" Reserved
		.... 1...		TCWRSVD5	"X'08'" Reserved
		.... .1..		TCWINPUT@TIDAL	"X'04'" The input address in TCWInputAddr points to a TIDAL. Otherwise, it points to data.
		.... ..1.		TCWTCCB@TIDAL	"X'02'" The TCCB address in TCWTCCBAddr points to a TIDAL. Otherwise, it points to a TCCB.
		.... ...1		TCWOUTPUT@TIDAL	"X'01'" The output address in TCWOutputAddr points to a TIDAL. Otherwise, it points to data.
2	(2)	BITSTRING	1	TCWFLAG2(0)	Flag two
		11..		TCWTIDAWFORMAT	"X'C0'" The format of the TIDAW
		..1.		TCWTSRQB	"X'20'" TSRQB is designated

Table 796. Structure TCW (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
		...1	1111		TCWRSVD6	"X'1F'" Reserved
3	(3)	BITSTRING		1	TCWFLAG3(0)	Flag three
3	(3)	BITSTRING		1	TCWRSVD7	Reserved
4	(4)	CHARACTER		4	TCWWORD1(0)	Word 1
4	(4)	CHARACTER		1	TCWRSVD8	Reserved
5	(5)	BITSTRING		1	TCWTCCBLRW(0)	TCCB length and read and write bits
		1111	11..		TCWTCCBL	"X'FC'" TCCB length - The length of the TCCB in words minus 5. That is, this length includes the entire TCCB except for the TCA header and the last word of the TCA trailer (5 words total).
		....	..1.		TCWREAD	"X'02'" Data is transferred from the device to storage
		....	...1		TCWWRITE	"X'01'" Data is transferred from storage to the device
6	(6)	CHARACTER		2	TCWRSVD9	Reserved
8	(8)	ADDRESS		8	TCWOUTPUTADDR	Words 2 & 3 - output data address or TIDAL
16	(10)	ADDRESS		8	TCWINPUTADDR	Words 4 & 5 - input data data or TIDAL
24	(18)	ADDRESS		8	TCWTSBADDR	Words 6 & 7 - Transport Status Block address. This field is reserved for IOS use and must be set to zero by the builder of the channel program.
32	(20)	ADDRESS		8	TCWTCCBADDR	Words 8 & 9 - Transport Command Control Block (TCCB) address or TIDAL. See macro IOSDTCB.
40	(28)	SIGNED		4	TCWOUTPUTBYTECOUNT	Word 10 - Output data byte count
44	(2C)	SIGNED		4	TCWINPUTBYTECOUNT	Word 11 - Input data byte count
48	(30)	CHARACTER		4	TCWWORD12	Word 12 - Reserved
52	(34)	CHARACTER		4	TCWWORD13	Word 13 - Reserved
56	(38)	CHARACTER		4	TCWWORD14	Word 14 - Reserved
60	(3C)	ADDRESS		4	TCWINTERROGATEADDR	Word 15 - Interrogate TCW address. Reserved for IOS use only. Must be set to zero by the builder of the channel program.
Constants for TCWFormat						
		....	....		TCWFORMAT_0	"B'00000000'" Format 0 TCW
		.1..	....		TCWFORMAT_1	"B'01000000'" Reserved for future use
		1...	....		TCWFORMAT_2	"B'10000000'" Reserved for future use
		11..	....		TCWFORMAT_3	"B'11000000'" Reserved for future use
Constants for TCWTIDAWFormat						
		....	....		TCWTIDAWFORMAT_0	"B'00000000'" Format 0 TIDAW
		.1..	....		TCWTIDAWFORMAT_1	"B'01000000'" Reserved for future use

IOSDTCW mapping

Table 796. Structure TCW (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1... ..		TCWTIDAWFORMAT_2	"B'10000000'" Reserved for future use
		11..		TCWTIDAWFORMAT_3	"B'11000000'" Reserved for future use
60	(3C)	X'40'	0	TCW_LEN	"*-TCW"

Table 797. Structure TIDAW0

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	TIDAW0	Format 0 TIDAW
0	(0)	BITSTRING	1	TIDAW0_FLAGS(0)	Flags
		1... ..		TIDAW0_LAST	"X'80'" This is the last TIDAW for a TCW
		.1..		TIDAW0_SKIP	"X'40'" Skip the transfer of information to main storage during a read, sense-id, or sense operation
		..1.		TIDAW0_DTINT	"X'20'" Data transfer interruption control
		...1		TIDAW0_TTIC	"X'10'" TIDAW transfer in channel - the 8-byte address is the starting address of the next TIDAL
		.... 1...		TIDAW0_GENCBC	"X'08'" For output requests, insert a Checking Block Code (CBC) word after transferring the data represented by this TIDAW. The setting of this bit is device and command dependent.
1	(1)	CHARACTER	3	TIDAW0_RSVD1	Reserved
4	(4)	SIGNED	4	TIDAW0_COUNT	The number of bytes to be transferred
8	(8)	ADDRESS	8	TIDAW0_ADDR(0)	Data address
8	(8)	ADDRESS	4	TIDAW0_ADDR_HIGH	High order word of address
12	(C)	ADDRESS	4	TIDAW0_ADDR_LOW	Low order word of address
12	(C)	X'10'	0	TIDAW0_LEN	"*-TIDAW0"

Table 798. Cross Reference for IOSDTCW

Name	Offset	Hex	Tag
TCW	0		
TCW_LEN	3C		40
TCWFLAGS	1		
TCWFLAG1	1		
TCWFLAG2	2		
TCWFLAG3	3		
TCWFORMAT	0		C0
TCWFORMAT_0	3C		0
TCWFORMAT_1	3C		40
TCWFORMAT_2	3C		80
TCWFORMAT_3	3C		C0

Table 798. Cross Reference for IOSDTCW (continued)

Name	Offset	Hex Tag
TCWFORMATRSVD1	0	3F
TCWINPUT@TIDAL	1	4
TCWINPUTADDR	10	
TCWINPUTBYTECOUNT	2C	
TCWINTERROGATEADDR	3C	
TCWOUTPUT@TIDAL	1	1
TCWOUTPUTADDR	8	
TCWOUTPUTBYTECOUNT	28	
TCWREAD	5	2
TCWRSVD1	1	80
TCWRSVD2	1	40
TCWRSVD3	1	20
TCWRSVD4	1	10
TCWRSVD5	1	8
TCWRSVD6	2	1F
TCWRSVD7	3	
TCWRSVD8	4	
TCWRSVD9	6	
TCWTCCB@TIDAL	1	2
TCWTCCBADDR	20	
TCWTCCBL	5	FC
TCWTCCBLRW	5	
TCWTIDAWFORMAT	2	C0
TCWTIDAWFORMAT_0	3C	0
TCWTIDAWFORMAT_1	3C	40
TCWTIDAWFORMAT_2	3C	80
TCWTIDAWFORMAT_3	3C	C0
TCWTSBADDR	18	
TCWTSRQB	2	20
TCWORD0	0	
TCWORD0BYTE0	0	
TCWORD1	4	
TCWORD12	30	
TCWORD13	34	
TCWORD14	38	
TCWRITE	5	1
TIDAW0	0	
TIDAW0_ADDR	8	
TIDAW0_ADDR_HIGH	8	
TIDAW0_ADDR_LOW	C	
TIDAW0_COUNT	4	
TIDAW0_DTINT	0	20
TIDAW0_FLAGS	0	
TIDAW0_GENCBC	0	8
TIDAW0_LAST	0	80
TIDAW0_LEN	C	10
TIDAW0_RSVD1	1	
TIDAW0_SKIP	0	40
TIDAW0_TTIC	0	10

IOSDTCW mapping

Chapter 211. IOSDUPFX Information

IOSDUPFX Programming Interface Information

ONLY the following fields are part of the programming interface information:

- UCBCHPID
- UCBMBI
- UCBMCMB
- UCBRESVH
- UCBRESVP
- UCBRRP
- UCBSID

IOSDUPFX Heading Information

Common Name: UCB PREFIX MAPPING
Macro ID: IOSDUPFX
DSECT Name: UPFX
Owning Component: IOS (SC1C3)
Eye-Catcher ID: NONE
Storage Attributes: Main Storage: YES
Virtual Storage: N/A
Auxiliary Storage: N/A
Subpool: 245
Key: 0
Residency: ABOVE THE LINE
Size: 40 BYTES
Created by: IOS
Pointed to by: N/A
Serialization: NONE
Function: UPFX WILL CONTAIN INFORMATION ABOUT THE STATE OF THE DEVICE.
THE FIELDS IN THE UCB PREFIX WILL BE VOLATILE,
AND ARE ONLY FOR MONITORING PROGRAMS.

IOSDUPFX mapping

Table 799. Structure UPFX

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	UPFX	
0	(0)	BITSTRING	1	UCBRSTEM	Reset Event mask
1	(1)	SIGNED	1	UCBMIHKY	MIH UCB time interval key
IOS MIH control byte					
2	(2)	BITSTRING	1	UCBMIHTI	Missing Interrupt Handler byte
		1...		UCBMIHSS	"X'80'" Customer-specified scan interval being used

IOSDUPFX mapping

Table 799. Structure UPFX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		UCBMIHPB	"X'40'" With bit set, Missing Interrupt Handler checking of device is bypassed for started I/O requests for which idle with work queued conditions are not detected (set by device support code and MVS components)
		..1.		UCBMIHFF	"X'20'" MIH processing was turned OFF for the device via the SETIOS command or parmlib
		...1		UCBMIHMO	"X'10'" MIH Message-Only flag. Bypasses MIH/IOT recovery actions for the device. Currently used for I/O timing processing only.
		.... 1...		UCBIOQRP	"X'08'" Pending I/O request condition
		.... .1..		UCBMIHMP	"X'04'" Message pending, to be DOM'D during the next MIH scan
		.... ..1.		UCBMIHIO	"X'02'" Clear subchannel scheduled by MIH
		.... ...1		UCBPGDEV	"X'01'" Device is being used for paging. For PAV devices, this bit is only set in the base.
IOS HOT I/O control byte					
3	(3)	SIGNED	1	UCBHOTIO	HOT-I/O indicator
		1...		UCBHSCD	"X'80'" SCD associated with the UCB
		.1..		UCBH SOL	"X'40'" A solicited interrupt has completed with other than DCC-3 since the last time HOT-I/O detection was called.
		..1.		UCBSUSOL	"X'20'" - Indicates that the last unsolicited interrupt occurred when a request was outstanding, and could have been induced
		...1		UCBINDHI	"X'10'" - Indicates that an induced hot I/O condition has been detected on the device
		.... 1...		UCBHCHPR	"X'08'" Channel path recovery is attempting to clear up a HOT-I/O condition for this device.
		.... .111		UCBHCHPI	"X'07'" IF UCBHCHPR is on, this is an index into UCBCHPID, specifying the channel path over which the HOT-I/O condition was detected.
IOS UCB IOQ chains of I/O requests associated with this device					
4	(4)	ADDRESS	4	UCBIOQF	First request for this device
8	(8)	ADDRESS	4	UCBIOQL	Last request for this device
Associated subchannel data					

Table 799. Structure UPFX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
12	(C)	SIGNED	4	UCBSID(0)	Subsystem-identification word in connected subchannel (valid only if UCBNOCON is not set). Note that some information such as the subchannel set id will be valid regardless of whether the device is connected to a subchannel
12	(C)	SIGNED	2	UCBSIDA	First 16 bits of SID
12	(C)	X'D'	0	UCBSSID	"UCBSID+1,1" Subchannel set id (bits 13-14)
14	(E)	SIGNED	2	UCBSCHNO	Subchannel number - valid only if device is connected to a subchannel (i.e. UCBNOCON is off)
16	(10)	SIGNED	2	UCBPMCWI	Path management control word
		EQU X'8000'			Reserved - set to zero
		EQU X'4000'			Reserved - set to zero
16	(10)	BITSTRING	0	UCBISC	"X'3800'" Interruption subclass
		EQU X'0400'			Reserved - set to zero
		EQU X'0200'			Reserved - set to zero
		EQU X'0100'			Reserved - set to zero
		1...		UCBENABL	"X'0080'" Subchannel enabled for interruptions
		.11.		UCBLM	"X'0060'" Limit mode checking state
		.... ....		UCBLNONE	"X'0000'" No limit mode checking
		..1.		UCBLGTE	"X'0020'" Data address must be greater than or equal to the limit
		.1..		UCBLLT	"X'0040'" Data address must be less than the limit
		...1 1...		UCBMM	"X'0018'" Measurement mode state
		...1		UCBMCMB	"X'0010'" Store measurements in Channel Measurement Block
		.... 1...		UCBMDCTI	"X'0008'" DCTI is to be stored in Extended Status Word
		.... .1..		UCBDPMPM	"X'0004'" Dynamic pathing multiple path state
		EQU X'0002'			Reserved - set to zero
		EQU X'0001'			Reserved - set to zero
18	(12)	SIGNED	2	UCBMBI	Measurement Block Index
20	(14)	BITSTRING	1	UCBLPM	Logical path mask (LPM)
21	(15)	SIGNED	1		Reserved - set to zero
22	(16)	BITSTRING	1	UCBLPUM	Last path used mask (LPUM)
23	(17)	BITSTRING	1	UCBPIM	The path installed mask for this subchannel
24	(18)	BITSTRING	8	UCBCHPS(0)	The set of 8 channel paths associated with this subchannel.

IOSDUPFX mapping

Table 799. Structure UPFX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
24	(18)	SIGNED	1	UCBCHPID(8)	Array reference to each channel path identifier (CHPID) for this subchannel. (The bits in UCBLPM, UCBLPUM and UCBPIM map to the bytes in this array. For example, a X'80' in UCBPIM indicates the first byte in this array contains a CHPID for a path that is installed on the associated device.)
I/O Supervisor general fields					
32	(20)	SIGNED	1	UCBLEVEL	Highest level set in UCBLVMSK
33	(21)	BITSTRING	1	UCBIOSF1	IOS flag byte
		1...		UCBRESVH	"X'80'" Device reserved indicator
		.1..		UCBVALPH	"X'40'" Path validation indicator
		..1.		UCBRESVP	"X'20'" Reserve channel program pending
		...1		UCBRRP	"X'10'" Reserve/release pending
		.... 1...		UCBDPTH	"X'08'" Dynamic pathing feature has been initialized for this device
		.... .1..		UCBDPVAL	"X'04'" Dynamic pathing validation required
		.... ..1.		UCBDSTF	"X'02'" Restart device state transition flushing
		.... ...1		UCBAPGID	"X'01'" - Alternate PGID established
IOS I/O timing time interval key					
34	(22)	SIGNED	1	UCBIOTKY	I/O timing time interval key
IOS MIH flags byte					
35	(23)	SIGNED	1	UCBMIHFG	MIH flags byte
		1...		UCBMIHMT	"X'80'" Mount pending condition has been detected
		.1..		UCBMIHMI	"X'40'" Missing interrupt condition has been detected
		..1.		UCBMIHIW	"X'20'" Idle with work queued condition been detected
		...1		UCBMIHC1	"X'10'" An SSCH was issued and a condition code 1 was returned indicating status was pending at the subchannel. This flag is used to prevent improper detection of idle with work queued conditions.
		.... 1...		UCBIOTTM	"X'08'" An I/O timeout condition has been detected for an active I/O request

Table 799. Structure UPFX (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
		....	.1..		UCBMIHC2	"X'04'" An SSCH was issued and a condition code 1 was returned indicating status was pending at the subchannel. This flag is used to trigger stage 2 processing to initiate recovery for this case.
		....	..1.		UCBMIMIH	"X'02'" Device support code requested entry to the MIH exit at the minimal MIH scan (one second) provided no I/O requests are active on the device. For PAV devices, this bit is only set in the base.
		....	...1		UCBIOTHS	"X'01'" An IO Timing HyperSwap was triggered on this device.
IOS level bit mask						
36	(24)	BITSTRING		4	UCBLVMSK	UCB level bit mask

Table 800. Cross Reference for IOSDUPFX

Name	Offset	Hex	Tag
UCBAPGID	21		1
UCBCHPID	18		
UCBCHPS	18		
UCBDPMPM	10		4
UCBDPTH	21		8
UCBDPVAL	21		4
UCBDSTF	21		2
UCBENABL	10		80
UCBHCHPI	3		7
UCBHCHPR	3		8
UCBHOTIO	3		
UCBHSCD	3		80
UCBHSOL	3		40
UCBINDHI	3		10
UCBIOQF	4		
UCBIOQL	8		
UCBIOQRP	2		8
UCBIOSF1	21		
UCBIOTHS	23		1
UCBIOTKY	22		
UCBIOTTM	23		8
UCBISC	10		3800
UCBLEVEL	20		
UCBLGTE	10		20
UCBLLT	10		40
UCBLM	10		60
UCBLNONE	10		0
UCBLPM	14		

IOSDUPFX mapping

Table 800. Cross Reference for IOSDUPFX (continued)

Name	Offset	Hex Tag
UCBLPUM	16	
UCBLVMSK	24	
UCBMBI	12	
UCBMCMB	10	10
UCBMDCTI	10	8
UCBMIHC1	23	10
UCBMIHC2	23	4
UCBMIHFF	2	20
UCBMIHFG	23	
UCBMIHIO	2	2
UCBMIHIW	23	20
UCBMIHKY	1	
UCBMIHMI	23	40
UCBMIHMO	2	10
UCBMIHMP	2	4
UCBMIHMT	23	80
UCBMIHPB	2	40
UCBMIHSS	2	80
UCBMIHTI	2	
UCBMIMIH	23	2
UCBMM	10	18
UCBPGDEV	2	1
UCBPIM	17	
UCBPMCW1	10	
UCBRESVH	21	80
UCBRESVP	21	20
UCBRRP	21	10
UCBRSTEM	0	
UCBSCHNO	E	
UCBSID	C	
UCBSIDA	C	
UCBSSID	C	D
UCBSUSOL	3	20
UCBVALPH	21	40
UPFX	0	

Chapter 212. IOSDUPI Information

IOSDUPI Programming Interface Information

ONLY the following fields are part of the programming interface information:

- UCBCHPID
- UCBMBI
- UCBMCMB
- UCBRESVH
- UCBRESVP
- UCBRRP
- UCBSID

IOSDUPI Heading Information

Common Name: UCB Prefix Information Area
Macro ID: IOSDUPI
DSECT Name: UCBPDATA
Owning Component: IOS (SC1C3)
Eye-Catcher ID: NONE
Storage Attributes: Main Storage: Yes
Virtual Storage: N/A
Subpool: Invoker of UCB services
Key: Invoker of UCB services
Residency: Invoker of UCB services
Size: 48 bytes
Created by: Invoker of UCB services
Pointed to by: N/A
Serialization: None
Function: This macro maps the UCB prefix data returned by the UCB services UCBINFO, UCBLOOK, or UCBSCAN

IOSDUPI mapping

Table 801. Structure UCBPDATA

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	UCBPDATA	Copy of UCB prefix data
0	(0)	BITSTRING	1	UCBRSTEM	Reset Event mask
1	(1)	SIGNED	1	UCBMIHKY	MIH UCB time interval key
IOS MIH control byte					
2	(2)	BITSTRING	1	UCBMIHTI	Missing Interrupt Handler byte
		1...		UCBMIHSS	"X'80'" Customer-specified scan interval being used

IOSDUPI mapping

Table 801. Structure UCBPDATA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		UCBMIHPB	"X'40'" With bit set, Missing Interrupt Handler checking of device is bypassed for started I/O requests for which idle with work queued conditions are not detected (set by device support code and MVS components)
		..1.		UCBMIHFF	"X'20'" MIH processing was turned OFF for the device via the SETIOS command or parmlib
		...1		UCBMIHMO	"X'10'" MIH Message-Only flag. Bypasses MIH/IOT recovery actions for the device. Currently used for I/O timing processing only.
		.... 1...		UCBIOQRP	"X'08'" Pending I/O request condition
		.... .1..		UCBMIHMP	"X'04'" Message pending, to be DOM'D during the next MIH scan
		.... ..1.		UCBMIHIO	"X'02'" Clear subchannel scheduled by MIH
		.... ...1		UCBPGDEV	"X'01'" Device is being used for paging. For PAV devices, this bit is only set in the base.
IOS HOT I/O control byte					
3	(3)	SIGNED	1	UCBHOTIO	HOT-I/O indicator
		1...		UCBHSCD	"X'80'" SCD associated with the UCB
		.1..		UCBHSQL	"X'40'" A solicited interrupt has completed with other than DCC-3 since the last time HOT-I/O detection was called.
		..1.		UCBSUSOL	"X'20'" - Indicates that the last unsolicited interrupt occurred when a request was outstanding, and could have been induced
		...1		UCBINDHI	"X'10'" - Indicates that an induced hot I/O condition has been detected on the device
		.... 1...		UCBHCHPR	"X'08'" Channel path recovery is attempting to clear up a HOT-I/O condition for this device.
		.... .111		UCBHCHPI	"X'07'" IF UCBHCHPR is on, this is an index into UCBCHPID, specifying the channel path over which the HOT-I/O condition was detected.
IOS UCB IOQ chains of I/O requests associated with this device					
4	(4)	ADDRESS	4	UCBIOQF	First request for this device
8	(8)	ADDRESS	4	UCBIOQL	Last request for this device
Associated subchannel data					

Table 801. Structure UCBPDATA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
12	(C)	SIGNED	4	UCBSID(0)	Subsystem-identification word in connected subchannel (valid only if UCBNOCON is not set). Note that some information such as the subchannel set id will be valid regardless of whether the device is connected to a subchannel
12	(C)	SIGNED	2	UCBSIDA	First 16 bits of SID
12	(C)	X'D'	0	UCBSSID	"UCBSID+1,1" Subchannel set id (bits 13-14)
14	(E)	SIGNED	2	UCBSCHNO	Subchannel number - valid only if device is connected to a subchannel (i.e. UCBNOCON is off)
16	(10)	SIGNED	2	UCBPMCWI	Path management control word
		EQU X'8000'			Reserved - set to zero
		EQU X'4000'			Reserved - set to zero
16	(10)	BITSTRING	0	UCBISC	"X'3800'" Interruption subclass
		EQU X'0400'			Reserved - set to zero
		EQU X'0200'			Reserved - set to zero
		EQU X'0100'			Reserved - set to zero
		1...		UCBENABL	"X'0080'" Subchannel enabled for interruptions
		.11.		UCBLM	"X'0060'" Limit mode checking state
		.... ....		UCBLNONE	"X'0000'" No limit mode checking
		..1.		UCBLGTE	"X'0020'" Data address must be greater than or equal to the limit
		.1..		UCBLLT	"X'0040'" Data address must be less than the limit
		...1 1...		UCBMM	"X'0018'" Measurement mode state
		...1		UCBMCMB	"X'0010'" Store measurements in Channel Measurement Block
		.... 1...		UCBMDCTI	"X'0008'" DCTI is to be stored in Extended Status Word
		.... .1..		UCBDPMPM	"X'0004'" Dynamic pathing multiple path state
		EQU X'0002'			Reserved - set to zero
		EQU X'0001'			Reserved - set to zero
18	(12)	SIGNED	2	UCBMBI	Measurement Block Index
20	(14)	BITSTRING	1	UCBLPM	Logical path mask (LPM)
21	(15)	SIGNED	1		Reserved - set to zero
22	(16)	BITSTRING	1	UCBLPUM	Last path used mask (LPUM)
23	(17)	BITSTRING	1	UCBPIM	The path installed mask for this subchannel
24	(18)	BITSTRING	8	UCBCHPS(0)	The set of 8 channel paths associated with this subchannel.

IOSDUPI mapping

Table 801. Structure UCBPDATA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
24	(18)	SIGNED	1	UCBCHPID(8)	Array reference to each channel path identifier (CHPID) for this subchannel. (The bits in UCBLPM, UCBLPUM and UCBPIM map to the bytes in this array. For example, a X'80' in UCBPIM indicates the first byte in this array contains a CHPID for a path that is installed on the associated device.)
I/O Supervisor general fields					
32	(20)	SIGNED	1	UCBLEVEL	Highest level set in UCBLVMSK
33	(21)	BITSTRING	1	UCBIOSF1	IOS flag byte
		1...		UCBRESVH	"X'80'" Device reserved indicator
		.1..		UCBVALPH	"X'40'" Path validation indicator
		..1.		UCBRESVP	"X'20'" Reserve channel program pending
		...1		UCBRRP	"X'10'" Reserve/release pending
		.... 1...		UCBDPTH	"X'08'" Dynamic pathing feature has been initialized for this device
		.... .1..		UCBDPVAL	"X'04'" Dynamic pathing validation required
		.... ..1.		UCBDSTF	"X'02'" Restart device state transition flushing
		.... ...1		UCBAPGID	"X'01'" - Alternate PGID established
IOS I/O timing time interval key					
34	(22)	SIGNED	1	UCBIOTKY	I/O timing time interval key
IOS MIH flags byte					
35	(23)	SIGNED	1	UCBMIHFG	MIH flags byte
		1...		UCBMIHMT	"X'80'" Mount pending condition has been detected
		.1..		UCBMIHMI	"X'40'" Missing interrupt condition has been detected
		..1.		UCBMIHIW	"X'20'" Idle with work queued condition been detected
		...1		UCBMIHC1	"X'10'" An SSCH was issued and a condition code 1 was returned indicating status was pending at the subchannel. This flag is used to prevent improper detection of idle with work queued conditions.
		.... 1...		UCBIOTTM	"X'08'" An I/O timeout condition has been detected for an active I/O request

Table 801. Structure UCBPDATA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
	....	.1..		UCBMIHC2	"X'04'" An SSCH was issued and a condition code 1 was returned indicating status was pending at the subchannel. This flag is used to trigger stage 2 processing to initiate recovery for this case.
	....	..1.		UCBMIMIH	"X'02'" Device support code requested entry to the MIH exit at the minimal MIH scan (one second) provided no I/O requests are active on the device. For PAV devices, this bit is only set in the base.
	....	...1		UCBIOTHS	"X'01'" An IO Timing HyperSwap was triggered on this device.
IOS level bit mask					
36	(24)	BITSTRING	4	UCBLVMSK	UCB level bit mask
UCB lock word and pointer to the active IOQ element					
40	(28)	SIGNED	4	UCBLOCKC	Device lock word
44	(2C)	ADDRESS	4	UCBIOQC	Address of last queuing element started, halted, or cleared for this device. This field contains a valid address only when UCBSTRT, UCBHALT, or UCBCLEAR are set on.

Table 802. Cross Reference for IOSDUPI

Name	Offset	Hex	Tag
UCBAPGID	21		1
UCBCHPID	18		
UCBCHPS	18		
UCBDPMPM	10		4
UCBDPTH	21		8
UCBDPVAL	21		4
UCBDSTF	21		2
UCBENABL	10		80
UCBHCHPI	3		7
UCBHCHPR	3		8
UCBHOTIO	3		
UCBHSCD	3		80
UCBHSOL	3		40
UCBINDHI	3		10
UCBIOQC	2C		
UCBIOQF	4		
UCBIOQL	8		
UCBIOQRP	2		8
UCBIOSF1	21		
UCBIOTHS	23		1

IOSDUPI mapping

Table 802. Cross Reference for IOSDUPI (continued)

Name	Offset	Hex Tag
UCBIOTKY	22	
UCBIOTTM	23	8
UCBISC	10	3800
UCBLEVEL	20	
UCBLGTE	10	20
UCBLLT	10	40
UCBLM	10	60
UCBLNONE	10	0
UCBLOCKC	28	
UCBLPM	14	
UCBLPUM	16	
UCBLVMSK	24	
UCBMBI	12	
UCBMCMB	10	10
UCBMDCTI	10	8
UCBMIHC1	23	10
UCBMIHC2	23	4
UCBMIHFF	2	20
UCBMIHFG	23	
UCBMIHIO	2	2
UCBMIHIW	23	20
UCBMIHKY	1	
UCBMIHMI	23	40
UCBMIHMO	2	10
UCBMIHMP	2	4
UCBMIHMT	23	80
UCBMIHPB	2	40
UCBMIHSS	2	80
UCBMIHTI	2	
UCBMIMIH	23	2
UCBMM	10	18
UCBPDATA	0	
UCBPGDEV	2	1
UCBPIM	17	
UCBPMCW1	10	
UCBRESVH	21	80
UCBRESVP	21	20
UCBRRP	21	10
UCBRSTEM	0	
UCBSCHNO	E	
UCBSID	C	
UCBSIDA	C	
UCBSSID	C	D
UCBSUSOL	3	20
UCBVALPH	21	40

Chapter 213. IOSDVSAP Information

IOSDVSAP Programming Interface Information

IOSDVSAP is a programming interface.

IOSDVSAP Heading Information

Common Name: Vary Switch API Element
Macro ID: IOSDVSAP
DSECT Name: VSAP_RESOURCE
Owning Component: I/O Supervisor (SC1C3)
Eye-Catcher ID: VSAP
Offset: 0
Length: 4
Storage Attributes: Subpool: User's
Key: User's
Residency: ANY
Size: See mapping
Created by: Storage obtained by IOSVRYSW invoker.
Pointed to by: User defined pointer
Serialization: None
Function: IOSDVSAP maps each element of the array of resource elements that is passed to the IOSVRYSW Vary Switch API. Each element is created by a separate IOSVRYSW BUILD invocation.

IOSDVSAP mapping

Table 803. Structure VSAP_RESOURCE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	VSAP_RESOURCE	Vary Switch element
0	(0)	CHARACTER	4	VSAP_ID	Acronym ('VSAP')
4	(4)	BITSTRING	1	VSAP_VER	Macro version level
5	(5)	BITSTRING	1	VSAP_FLAGS	VSAP flags
		1...		VSAP_ONLINE	"X'80" Switch/port is to be brought online to DCM
		.1..		VSAP_OFFLINE	"X'40" Switch/port is to be taken offline to DCM
		..1.		VSAP_UNCOND	"X'20" An UNCOND request is to be specified on the VARY PATH commands invoked as a result of this VARY SWITCH request.
EQU X'1F' Reserved					
6	(6)	CHARACTER	4		Reserved
10	(A)	BITSTRING	2	VSAP_SWITCHDEV	Switch device number being altered
12	(C)	BITSTRING	1	VSAP_PORTADDR	Port address being altered
13	(D)	BITSTRING	3		Reserved
13	(D)	X'10'	0	VSAPEND	"*" End of VSAP

IOSDVSAP mapping

Table 803. Structure VSAP_RESOURCE (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
Various constants					
13	(D)	X'1'	0	VSAPV707	"1" Level HBB7707
13	(D)	X'1'	0	VSAPVRSN	"VSAPV707" Current version
13	(D)	X'10'	0	VSAPSIZE	"VSAPEND-VSAP_RESOURCE" Size of VSAP
Return Code constants					
		...1		IOSDVSAP_VSWITCH_UNEXPECTED_ERROR	"X'10'" An unexpected error occurred further in the Vary Switch Processing.
13	(D)	BITSTRING	0	IOSDVSAP_ABEND_ACCESSING_STORAGE	"X'FF04'" Storage passed on the macro call was not accessible by the service.
13	(D)	BITSTRING	0	IOSDVSAP_ASIM_FAILURE	"X'FF08'" The attempt to queue a work element to the IOS address space failed. Request is currently not able to be performed.
13	(D)	BITSTRING	0	IOSDVSAP_BAD_DATA	"X'FF0C'" VSAP data is readable but not valid.
13	(D)	BITSTRING	0	IOSDVSAP_ENVIRONMENTAL_ERROR	"X'FF10'" Caller is not in a valid environment to invoke the IOSVRYSW API.
13	(D)	BITSTRING	0	IOSDVSAP_SYSTEM_ERROR	"X'FF14'" The processing suffered a catastrophic error. Function could not be processed.
13	(D)	BITSTRING	0	IOSDVSAP_ESTAE_ERROR	"X'FF18'" IOSVRYSW processing module IOSVSWF could not establish a recovery environment.

Table 804. Cross Reference for IOSDVSAP

Name	Offset	Hex Tag
IOSDVSAP_ABEND_ACCESSING_STORAGE	D	FF04
IOSDVSAP_ASIM_FAILURE	D	FF08
IOSDVSAP_BAD_DATA	D	FF0C
IOSDVSAP_ENVIRONMENTAL_ERROR	D	FF10
IOSDVSAP_ESTAE_ERROR	D	FF18
IOSDVSAP_SYSTEM_ERROR	D	FF14
IOSDVSAP_VSWITCH_UNEXPECTED_ERROR	D	10
VSAP_FLAGS	5	
VSAP_ID	0	
VSAP_OFFLINE	5	40
VSAP_ONLINE	5	80
VSAP_PORTADDR	C	
VSAP_RESOURCE	0	
VSAP_SWITCHDEV	A	
VSAP_UNCOND	5	20

Table 804. Cross Reference for IOSDVSAP (continued)

Name	Offset	Hex Tag
VSAP_VER	4	
VSAPEND	D	10
VSAPSIZE	D	10
VSAPVRSN	D	1
VSAPV707	D	1

IOSDVSAP mapping

Chapter 214. IOSDZHPF Information

IOSDZHPF Programming Interface Information

IOSDZHPF is a programming interface.

IOSDZHPF Heading Information

Common Name: zHPF Channel Program Information Area
Macro ID: IOSDZHPF
DSECT Name: ZHPF_Info
Owning Component: I/O Supervisor (SC1C3)
Eye-Catcher ID: None
Storage Attributes: Subpool: Any
Key: Any
Residency: Any
Size: 32 bytes
Created by: Issuer of IOSZHPF
Pointed to by: IOSZHPF parameter list
Serialization: None
Function: IOSDZHPF maps the information which is returned by the IOSZHPF macro, which describes the zHPF capabilities of a device from an operating system, processor, online channel, and device point of view.
Notes:
-- Some capabilities must be supported by both the processor and device before they can be used in a zHPF channel program. For example, if a program wants to build a channel program that requires the bi-directional or incorrect length capabilities, it must check whether the appropriate processor and device related flags are on. Otherwise, the channel program will fail.
-- The following macros are used to define the device specific capabilities in field ZHPF_DevCapabilities:
Device Class Mapping Macro

DASD IECDZHPF

IOSDZHPF mapping

Table 805. Structure ZHPF_INFO

Offset	Offset		Len	Name(Dim)	Description
Dec	Hex	Type			
0	(0)	STRUCTURE	0	ZHPF_INFO	zHPF Channel Program Information Area
0	(0)	BITSTRING	1	ZHPF_VERSION	Version number
1	(1)	BITSTRING	1	ZHPF_FLAG1(0)	Capabilities flag 1
		1...		ZHPF_BIDI	"X'80'" Indicates that all of the online paths for the device support bidirectional data for zHPF I/O requests.
		.1..		ZHPF_EXCPVR	"X'40'" zHPF is supported for EXCPVR requests

IOSDZHPF mapping

Table 805. Structure ZHPF_INFO (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
		..1.	....		ZHPF_INCORRECT_LEN	"X'20'" The incorrect length facility is supported by the processor
		...1	....		ZHPF_EXCP	"X'10'" zHPF is supported for EXCP virtual requests
2	(2)	CHARACTER		2		Reserved
4	(4)	SIGNED		4	ZHPF_MAXXFERSIZE	Maximum amount of data (in bytes) that can be transferred in a single Transport Control Area (TCA)
8	(8)	CHARACTER		8	ZHPF_DEVCAPABILITIES	Device specific zHPF capabilities. This field is valid only when DEVINFO(YES) is specified on the IOSZHPF macro. See the appropriate device dependent macro for a mapping of this information.
16	(10)	CHARACTER		16		Reserved
32	(20)	CHARACTER		1	ZHPF_END(0)	End of ZHPF
ZHPF Version						
32	(20)	X'1'		0	ZHPF_VERSION_CURRENT	"1" Current ZHPF version number
32	(20)	X'20'		0	ZHPF_INFO_LEN	"*-ZHPF_INFO"

Table 806. Cross Reference for IOSDZHPF

Name	Offset	Hex Tag
ZHPF_BIDI	1	80
ZHPF_DEVCAPABILITIES	8	
ZHPF_END	20	
ZHPF_EXCP	1	10
ZHPF_EXCPVR	1	40
ZHPF_FLAG1	1	
ZHPF_INCORRECT_LEN	1	20
ZHPF_INFO	0	
ZHPF_INFO_LEN	20	20
ZHPF_MAXXFERSIZE	4	
ZHPF_VERSION	0	
ZHPF_VERSION_CURRENT	20	1

Chapter 215. IPIB Information

IPIB Heading Information

Common Name: I/O Purge Interface Block
 Macro ID: IECDIPIB
 DSECT Name: IPIB
 Owning Component: I/O Supervisor (SC1C3)
 Eye-Catcher ID: IPIB
 Offset: 44
 Length: 4
 Storage Attributes: Main Storage: YES
 Virtual Storage: N/A
 Auxiliary Storage: N/A
 Subpool: 226
 Key: 0
 Data Space: N/A
 Residency: Below 16M
 Size: IPIB - 56 Bytes
 IPIB Extension - 32 Bytes
 Created by: IOSPURGA
 Pointed to by: IOSIPIB field of the IOSB
 ASCBIOSP field of the ASCB
 PWAIPIB field of the PWA
 IOCPURGC field of the IOCOM
 Serialization: IPIB - None
 IPIB Extension - IOSYNCH Lock
 Function: Describes the IOS purge interface block and
 IOS purge interface block extension that
 is used to contain all the information that
 is communicated between the IOS purge function
 and the IOS drivers.

IPIB mapping

Table 807. Structure IPIB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	56	IPIB	
0	(0)	BITSTRING	1	IPIBOPT	Purge Option flags.....
		1...		IPIBMEM	ASID (memory purge) specified
		.1..		IPIBTASK	TCB purge was specified if not ASID purge
		..1.		IPIBRBP	RB purge specified
		...1		IPIBPOST	Post the ECBs related to the I/O requests that are purged.
		.... 1...		IPIBREL	Purge only related requests (EXCP driver only)
		.... .1..		IPIBHALT	Halt I/O requests - do not build a restore chain
		.... ..1.		IPIBOTCB	Purge so I/O requests may be restored to the originating TCB.
		.... ...1		IPIBPVNT	I/O Prevention request

IPIB mapping

Table 807. Structure IPIB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1	(1)	CHARACTER	1	IPIBDVID	Driver ID for DSID purge, default value of X'00' implies EXCP.
2	(2)	BITSTRING	1	IPIBFLG1	Flag byte.....
		1...		IPIBDQ	IOSPURGA issued the PURGEDQ macro.
		.1..		IPIBTIME	Indicator to show that quiesce is being timed.
		..1.		IPIBPBUV	Indicator to show purge by UCB validity check done.
		...1		IPIBCHN	IPIB chained on Purge Quiesce queue (IOCPURGQ)
		.... 1...		IPIBSRBS	Indicates to the IOS IPIB decrement routine that the SRB in field IPIBSRBP is to be scheduled when the quiesce count (IPIBCNT) has gone to zero.
		.... .1..		IPIBQUIA	Indicates that the quiesce function is still active looking for I/O requests that have to be counted.
		.... ..11		*	Reserved - set to zeros
3	(3)	CHARACTER	1	*	Reserved - set to zeros
4	(4)	CHARACTER	4	IPIBCNT	Count of I/O requests to be completed. Decremented by IOS drivers when the I/O event completes by calling IECVQCNT routine in IOSPURGD
8	(8)	ADDRESS	4	*	
8	(8)	ADDRESS	4	IPIBECB	ECB to be posted when the IPIBCNT goes to zero. Purge waits on this ECB when count is established
8	(8)	ADDRESS	4	IPIBSRBP	SRB to be scheduled when the IPIBCNT goes to zero. Purge continues when this SRB is scheduled.
<p>This field contains the purge argument that is used when searching the system data areas for I/O requests that have to be halted or quiesced. This field will contain one of the following:</p> <ul style="list-style-type: none"> o ASID purge- right two bytes the address space being purged and the left two bytes the sign bit of the ASID. o TCB purge- Contains the TCB address. o DSID purge- Contains the DSID address (argument) 					
12	(C)	ADDRESS	4	IPIBARG	Purge argument.....
16	(10)	ADDRESS	4	IPIBSRB	Pointer to the first SRB of SRBS that have been collected for return to the appropriate driver
20	(14)	CHARACTER	8	*	
20	(14)	ADDRESS	4	IPIBIO	Pointer to the I/O request returned to purge for placement on the PIRL (Quiesce function)

Table 807. Structure IPIB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
24	(18)	ADDRESS	4	IPIBDVRU	Pointer to additional data that a driver provides to be made available when the driver is requested to restore. Purge sets this driver data in the driver slot on the PIRL
28	(1C)	ADDRESS	4	IPIBPIRL	Pointer to the PIRL associated with purge request.
32	(20)	ADDRESS	4	IPIBPSQ	Pointer to the chain of I/O requests involved with this purge, found by routines running asynchronously with the purge routine (E.G. the interrupt handler).
36	(24)	ADDRESS	4	IPIBLNK	Pointer to a chained IPIB for a halt purge. The first would be a quiesce.
40	(28)	ADDRESS	4	IPIBASCB	ASCB address for memory in which purge was issued.
44	(2C)	CHARACTER	4	IPIBIPIB	Control block acronym --in EBCDIC--
48	(30)	ADDRESS	4	IPIBPASS	IPIB pass count.
52	(34)	ADDRESS	4	IPIBARG2	If purge by UCB, contains the address of UCB to use as second argument on driver call.
56	(38)	CHARACTER	0	IPIBEND	End of IPIB

Table 808. Structure IPBE

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	32	IPBE	IPIB extension
0	(0)	ADDRESS	4	IPBENIPB	Pointer to next IPIB on chain. The only IPIBs on this chain are for I/O that are currently undergoing I/O Prevention and Purge Quiesce simultaneously. If zero, it is the last IPIB on the chain.
4	(4)	ADDRESS	4	IPBEPIPB	Pointer to previous IPIB Extension on the chain. If zero, it is the first IPIB on the chain.
8	(8)	CHARACTER	24	*	Reserved

Table 809. Cross Reference for IPIB

Name	Offset	Hex Tag
IPBE	0	
IPBENIPB	0	
IPBEPIPB	4	
IPIB	0	
IPIBARG	C	
IPIBARG2	34	

IPIB mapping

Table 809. Cross Reference for IPIB (continued)

Name	Offset	Hex Tag
IPIBASCB	28	
IPIBCHN	2	10
IPIBCNT	4	
IPIBDQ	2	80
IPIBDVID	1	
IPIBDVRU	18	
IPIBECB	8	
IPIBEND	38	
IPIBFLG1	2	
IPIBHALT	0	04
IPIBIO	14	
IPIBIPIB	2C	
IPIBLNK	24	
IPIBMEM	0	80
IPIBOPT	0	
IPIBOTCB	0	02
IPIBPASS	30	
IPIBPBUV	2	20
IPIBPIRL	1C	
IPIBPOST	0	10
IPIBPSQ	20	
IPIBPVNT	0	01
IPIBQUIA	2	04
IPIBRBP	0	20
IPIBREL	0	08
IPIBSRB	10	
IPIBSRBP	8	
IPIBSRBS	2	08
IPIBTASK	0	40
IPIBTIME	2	40

Chapter 216. IPWA Information

IPWA Heading Information

Common Name: IPWA - Purge Work Area
 Macro ID: IOSDIPWA
 DSECT Name: PWA, PWAEXT
 Owning Component: I/O Supervisor (SC1C3)
 Eye-Catcher ID: IPWA
 Offset: 0
 Length: 4
 Storage Attributes: Main Storage: YES
 Virtual Storage: n/a
 Auxiliary Storage: n/a
 Key: 0
 Residency: PWA Above 16M line SQA storage
 PWAEXT below 16M line SQA storage
 Size: PWA 732 bytes
 PWAEXT 144 bytes
 Created by: IOSPURGA, IOSPURGC
 Pointed to by: PWA - PWAPtr (Register 6) in IOSPURGA,
 IOSPURGB, IOSPURGC module
 PWA31PTR in PWAEXT structure in
 IOSDIPWA
 PWAEXT - PWA24Ptr in PWA structure in
 IOSDIPWA
 Serialization: Area PWAIPIBE is serialized via IOSYNCH lock.
 The other areas of the PWA have none.
 Function: This DSECT describes the control block mapping
 the dynamic workarea used by the modules
 implementing purge process.

IPWA mapping

Table 810. Structure PWA

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	712	PWA	
0	(0)	CHARACTER	4	PWAID	IDENTIFIER 'IPWA'
4	(4)	ADDRESS	4	PWA24PTR	24 bit PWA mapped by PWAEXT
8	(8)	ADDRESS	4	PWAIPIBA	Address of IPIB
12	(C)	CHARACTER	32	PWANPPL	NPPL GOES HERE
44	(2C)	ADDRESS	4	PWAPRLPT	
48	(30)	ADDRESS	4	PWASAVWD	SAVEAREA FOR BRANCH CALLER'S SAVEAREA PTR
52	(34)	SIGNED	4	PWAHCNT	PURGE HALT COUNT
56	(38)	SIGNED	4	PWAHALTQ	QUEUE OF HALTED SRBS
60	(3C)	SIGNED	4	PWAHECB	ECB FOR WAITING ON HALTS
64	(40)	SIGNED	2	*	NUMBER OF TIMES ESTAE ENTERED
66	(42)	CHARACTER	1	PWAMASK	MASK FLAG BYTE
		11..		*	RESERVED
		..1.		PWAGETMN	Storage obtained via GETMAIN

IPWA mapping

Table 810. Structure PWA (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
		...1	....		PWASTIME	Indicator that start time must be stored in the EWA
		....	1...		PWAIOCNT	Indicator that I/O should be counted in the IPIB
		....	.1..		PWANODRV	Indicator that driver ID not provided
		....	..1.		PWABRNCH	INDICATOR THAT PURGE WAS CALLED VIA BRANCH ENTRY
		....	...1		PWAFREE	INDICATOR THAT PIRL MUST BE FREED
67	(43)	BITSTRING		1	PWARETC	RETURN CODE FLAG BYTE
		1...	....		PWATCB	TCB NOT PURGEABLE
		.1..	....		PWADSID	DSID NOT PURGEABLE OR PURGE BY UCB INVALID
		..1.	....		PWANOENQ	Unable to obtain ENQ resource.
		...1	1111	*		RESERVED
68	(44)	BITSTRING		1	PWARETC2	SECOND RETURN CODE FLAG BYTE
		1...	....		PWAMEM	MEMORY PURGE INVALID
		.1..	....		PWAESTA	indicator that ESTAE has been established.
		..1.	....		PWAPURGB	indicator that PURGB in control
		...1	....		PWAPURGC	indicator that PURGC in control
		....	1...		PWACYCLE	purge is the process of looping
		....	.1..		PWAINVAL	flag to indicate that purge failed for one reason or another.
		....	..1.		PWASYNCH	indicator that IOSYNCH lock obtained to synchronize IPIBPURG and IOSVPRGA
		....	...1		PWASYNEQ	indicator that IOSYNCH lock obtained in PSRBENQ to look at PCI IOSBs.
69	(45)	CHARACTER		3	*	Reserved for alignment purposes.
72	(48)	ADDRESS		4	PWASAVP	PIRL POINTER
76	(4C)	ADDRESS		4	PWAUCBLK	Savearea for UCB lock address.
80	(50)	ADDRESS		4	PWARET0	Return address for subroutines.
84	(54)	ADDRESS		4	PWARET1	Return address for subroutines.
88	(58)	ADDRESS		4	PWARET2	Return address for subroutines.
92	(5C)	ADDRESS		4	PWARET3	Return address for subroutines.
96	(60)	ADDRESS		4	PWARET4	Return address for subroutines.
100	(64)	ADDRESS		4	PWARET5	Return address for subroutines.
104	(68)	ADDRESS		4	PWARET15	Return address for subroutines.
108	(6C)	ADDRESS		4	PWAUCBP	Active UCB pointer.
112	(70)	ADDRESS		4	PWACSAV1	Save area for IOSPURGC
116	(74)	ADDRESS		4	PWACSAV2	Save area for IOSPURGC
120	(78)	CHARACTER		68	PWAEMCPM	
Static parameters are placed here.						
120	(78)	ADDRESS		4	PWAEASPT	ASID pointer
124	(7C)	ADDRESS		4	PWAEPMPT	address of ASID and TCB pointer.
128	(80)	ADDRESS		4	PWAERMTR	Cleanup routine address.
132	(84)	CHARACTER		8	PWAEPPDM	
132	(84)	CHARACTER		2	*	Halfword alignment.

Table 810. Structure PWA (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
134	(86)	SIGNED		2	PWAEASID	ASID.
136	(88)	SIGNED		4	PWAETCB	TCB pointer.
140	(8C)	CHARACTER		48	PWAEDQSV	PurgeDQ Save Area 3-14
140	(8C)	CHARACTER		4	PWADQS3	Save area for Register 3
144	(90)	CHARACTER		4	PWADQS4	Save area for Register 4
148	(94)	CHARACTER		4	PWADQS5	Save area for Register 5
152	(98)	CHARACTER		4	PWADQS6	Save area for Register 6
156	(9C)	CHARACTER		4	PWADQS7	Save area for Register 7
160	(A0)	CHARACTER		4	PWADQS8	Save area for Register 8
164	(A4)	CHARACTER		4	PWADQS9	Save area for Register 9
168	(A8)	CHARACTER		4	PWADQSA	Save area for Register 10
172	(AC)	CHARACTER		4	PWADQSB	Save area for Register 11
176	(B0)	CHARACTER		4	PWADQSC	Save area for Register 12
180	(B4)	CHARACTER		4	PWADQSD	Save area for Register 13
184	(B8)	CHARACTER		4	PWADQSE	Save area for Register 14
188	(BC)	CHARACTER		72	PWAEABSV	18 word savearea for calls from IOSPURGA to IOSPURGB.
260	(104)	CHARACTER		72	PWAEBCSV	18 word savearea for calls from IOSPURGB to IOSPURGC.
260	(104)	CHARACTER		4	PWAEBCR0	
264	(108)	CHARACTER		4	PWAEBCR1	
268	(10C)	CHARACTER		4	PWAEBCR2	
272	(110)	CHARACTER		60	*	
332	(14C)	SIGNED		2	PWAIQQLN	Length of an IOQ.
334	(14E)	SIGNED		2	PWAASID	ASID for which purge working.
336	(150)	UNSIGNED		2	PWAPRLNG	PIRL length.
338	(152)	BITSTRING		1	PWAFLG0	Flags used by FRR or ESTAE.
			1...		PWAPGCT	IOCPGCT is active.
			.1..		PWAIOSP	ASCBIOSP is active.
			..1.		PWASTATS	Status stop is active.
			...1		PWAENQFL	SRB ENQ is active.
			.... 1..		PWASDBF	4K SDWA buffer is held.
			.... .1..		PWAIQQP	IOQ purge active.
			.... ..1.		PWARCRTY	Retry will be attempted from recovery routine.
			.... ...1		PWAFRR	FRR is active.
339	(153)	BITSTRING		1	PWAFLG1	Flags used by FRR and ESTAE.
			1...		PWALOCAL	Local lock is held.
			.1..		PWACMS	CMS lock is held.
			..1.		PWASYNLK	IOSYNCH lock is held (SYNPURGE).
			...1		PWANSDWA	No SDWA obtained in recovery.
			.... 1..		PWAWKUP	Purge was woken up by timer pop
			.... .1..		PWARETRY	HSCH will be attempted again.
			.... ..1.		PWAUSPM	Processing is taking place which is dependent on integrity of user parameters (purge parameter list)
			.... ...1		PWAUSPM2	Indicator that users parameter is being moved to PWA in IOSPURGC.
340	(154)	ADDRESS		4	PWA13BSV	Savearea for register 13.
344	(158)	ADDRESS		4	PWAESV13	savearea for register 13.
348	(15C)	ADDRESS		4	PWAE2S13	savearea for savearea pointer.

IPWA mapping

Table 810. Structure PWA (continued)

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
352	(160)	CHARACTER	72	PWAECBSV	savearea for calls from PURGC to
424	(1A8)	CHARACTER	44	PWAESRB	SRB goes here.
468	(1D4)	BITSTRING	1	PWAFLG2	Flags used by FRR and ESTAE.
		1...		PWAPRBST	Caller was in problem state
		.1..		PWASTTCB	Indicates that only TCBS need to be started
469	(1D5)	BITSTRING	1	PWAPHWD	Flags used for controlling Purge Halt with delay processing
		1...		PWAPHWD1	Purge halt with delay - first pass processing. Dequeue the inactive I/O operations and halt the non-DASD I/O and read only DASD I/O
		.1..		PWAPHWD2	Simulate Purge Quiesce in order to wait for active DASD writes
		..1.		PWAPHWD3	Simulated purge quiesce is complete, do one more purge halt in case any new operations got started
		...1		PWAPHWDT	Terminate current I/O request
		.... 1..		PWAPHWDW	Found atleast one DASD write I/O operation in the first pass, must perform purge quiesce (2nd pass)
470	(1D6)	CHARACTER	1	PWAPHWDF	File mask of current I/O
471	(1D7)	BITSTRING	1	PWAFLG3	Flag byte 3
		1...		PWARESTP	Work bit to status stop TCBS/SRBs after a clear subchannel is done.
		.1..		PWADIVIO	Purge is waiting for DIV I/O to complete
		..1.		PWAXSB	Purge turned on XSBPDQX. This indicates that the XSB Address was saved in PWARET6.
		...1 1111		*	Reserved for future use
472	(1D8)	CHARACTER	8	PWAWORK8	8 byte work area - used by IOSTARTM macro
472	(1D8)	ADDRESS	4	PWASVR8	Save area for REG8 during I/O Prevention processing
476	(1DC)	ADDRESS	4	PWASVR14	Save area for REG14 during I/O Prevention processing
480	(1E0)	ADDRESS	4	PWARET6	Return address for subrtm
480	(1E0)	ADDRESS	4	PWAXSB@	XSB Address where PDQX was set
484	(1E4)	CHARACTER	32	PWAIPIBE	IPIB Extension
516	(204)	SIGNED	4	PWATQERC	Return code from ENQTQE
520	(208)	CHARACTER	128	PWATQE	TQE area (DWORD bdy)
10@0AD					
648	(288)	ADDRESS	4	PWAASCB	ASCB for xmem post
652	(28C)	CHARACTER	8	PWACLK1	STCK TOD clock storage
652	(28C)	CHARACTER	4	PWACLK1H	High Word TOD clock time
656	(290)	CHARACTER	4	PWACLK1L	Low Word TOD clock time
660	(294)	CHARACTER	8	PWACLK2	STCK TOD clock storage
660	(294)	UNSIGNED	4	PWACLK2H	High Word TOD clock time

Table 810. Structure PWA (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
664	(298)	UNSIGNED	4	PWACLK2L	Low Word TOD clock time
668	(29C)	UNSIGNED	4	PWACLKCC	Used for testing condition code on the STCK instruction
		11..		*	
		..11		PWASTKCC	STCK Condition Code
668	(29C)	BITSTRING	3	*	
672	(2A0)	UNSIGNED	4	PWAFLAGS	Status Flags
		1...		PWATQEAC	Indicates that the TQE was set and requires a DEQueue
		.1..		PWARCVYH	A Purge Halt was issued out of purge's Estae routine
676	(2A4)	SIGNED	2	PWATASID	Address space ID for timer DIE
678	(2A6)	CHARACTER	32	PWAIN TG	Interrogate parameter list
710	(2C6)	CHARACTER	2	*	Reserved for future use
712	(2C8)	CHARACTER	0	*	Align TQE on DWORD bndry

Table 811. Structure PWAEXT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	248	PWAEXT	PWA ext
THE FOLLOWING FIELD CONFORMS TO STORAGE OBTAINED FROM IOSVSMGR					
0	(0)	ADDRESS	4	PWANEXT	Pointer to next block
4	(4)	CHARACTER	8	PWA24ID	EBCDIC identifier.
12	(C)	ADDRESS	4	PWA31PTR	Pointer to 31 bit PWA
16	(10)	CHARACTER	72	PWAREGSV	REG SAVE AREA
16	(10)	SIGNED	4	PWAREG0	
20	(14)	SIGNED	4	PWAREG1	
24	(18)	SIGNED	4	PWAREG2	
28	(1C)	SIGNED	4	PWAREG3	
32	(20)	SIGNED	4	PWAREG4	
36	(24)	SIGNED	4	PWAREG5	
40	(28)	SIGNED	4	PWAREG6	
44	(2C)	SIGNED	4	PWAREG7	
48	(30)	SIGNED	4	PWAREG8	
52	(34)	SIGNED	4	PWAREG9	
56	(38)	SIGNED	4	PWAREGA	
60	(3C)	CHARACTER	20	PWAHISAV	
60	(3C)	SIGNED	4	PWAREGB	
64	(40)	SIGNED	4	PWAREGC	
68	(44)	SIGNED	4	PWAREGD	
72	(48)	SIGNED	4	PWAREGE	
76	(4C)	SIGNED	4	PWAREGF	
80	(50)	CHARACTER	8	*	REMAINDER OF SAVE AREA
88	(58)	CHARACTER	56	PWAIPIB	IPIB GOES HERE

Table 812. Structure @NM00028

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	4	*	Redefinition of IPIB address

IPWA mapping

Table 812. Structure @NM00028 (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
0	(0)	CHARACTER		1	*	First byte is available as IPIB is a 24-bit address. The IPIB is contained in the PWA which was obtained in SP226 (SQA).
		1... ..			PWAIPIBV	IPIB address for current pass. On every pass through Purge, this bit gets switched to ensure a unique IOSIPIB address.
		.1.. ..			PWAIOPRV	When set in IOSIPIB, indicates that any IPIB created as a result of a PREVENTIO request should have its associated IPIBCNT decremented.
		..1.			PWAIQSC	When set in IOSIPIB, indicates that any IPIB created as a result of a Purge Quiesce request should have its associated IPIBCNT decremented.
		...1			PWAIOMEM	When set in IOSIPIB, indicates that any IPIB created as a result of a memory Purge Quiesce request should have its associated IPIBCNT decremented.
		.... 1...			PWADLLCK	When set, indicates that the local lock has been obtained by IOSPURGD.
		.... .1..			PWADMODE	When set, indicates that caller of IOSPURGD was in 24-bit AMODE.
		.... ..1.			PWADFRR	When set, indicates that IOSPURGD has obtained an FRR.
		.... ...1			*	Reserved.
1	(1)	ADDRESS		3	PWAIPBA	24-bit address of IPIB

Table 813. Cross Reference for IPWA

Name	Offset	Hex Tag
PWA	0	
PWAASCB	288	
PWAASID	14E	
PWABRNCH	42	02
PWACKCC	29C	
PWACK1	28C	
PWACK1H	28C	
PWACK1L	290	
PWACK2	294	
PWACK2H	294	
PWACK2L	298	
PWACMS	153	40
PWACSAV1	70	
PWACSAV2	74	
PWACYCLE	44	08
PWADFRR	0	02

Table 813. Cross Reference for IPWA (continued)

Name	Offset	Hex Tag
PWADIVIO	1D7	40
PWADLLCK	0	08
PWADMODE	0	04
PWADQSA	A8	
PWADQSB	AC	
PWADQSC	B0	
PWADQSD	B4	
PWADQSE	B8	
PWADQS3	8C	
PWADQS4	90	
PWADQS5	94	
PWADQS6	98	
PWADQS7	9C	
PWADQS8	A0	
PWADQS9	A4	
PWADSID	43	40
PWAEABSV	BC	
PWAEASID	86	
PWAEASPT	78	
PWAEBCR0	104	
PWAEBCR1	108	
PWAEBCR2	10C	
PWAEBCSV	104	
PWAECBSV	160	
PWAEQSV	8C	
PWAECPM	78	
PWAENQFL	152	10
PWAEPPM	84	
PWAEPMPT	7C	
PWAERMTR	80	
PWAESRB	1A8	
PWAESTA	44	40
PWAESV13	158	
PWAETCB	88	
PWAEXT	0	
PWAE2S13	15C	
PWAFLAGS	2A0	
PWAFLG0	152	
PWAFLG1	153	
PWAFLG2	1D4	
PWAFLG3	1D7	
PWAFREE	42	01
PWAFRR	152	01
PWAGETMN	42	20
PWAHALTQ	38	
PWAHCNT	34	
PWAHECB	3C	
PWAHISAV	3C	
PWAID	0	

IPWA mapping

Table 813. Cross Reference for IPWA (continued)

Name	Offset	Hex Tag
PWAIN TG	2A6	
PWAIN VAL	44	04
PWAI OCNT	42	08
PWAI OMEM	0	10
PWAI OPRV	0	40
PWAI OQLN	14C	
PWAI OQP	152	04
PWAI OQSC	0	20
PWAI OSP	152	40
PWAI PBA	1	
PWAI PIB	58	
PWAI PIBA	8	
PWAI PIBE	1E4	
PWAI PIBV	0	80
PWAL OCAL	153	80
PWAMASK	42	
PWAMEM	44	80
PWANEXT	0	
PWANODRV	42	04
PWANOENQ	43	20
PWANPPL	C	
PWANS DWA	153	10
PWAPGCT	152	80
PWAPHWD	1D5	
PWAPHWDF	1D6	
PWAPHWDT	1D5	10
PWAPHWDW	1D5	08
PWAPHWD1	1D5	80
PWAPHWD2	1D5	40
PWAPHWD3	1D5	20
PWAPRBST	1D4	80
PWAPRLNG	150	
PWAPRLPT	2C	
PWAPURGB	44	20
PWAPURGC	44	10
PWARCRTY	152	02
PWARC VYH	2A0	40
PWAREGA	38	
PWAREGB	3C	
PWAREGC	40	
PWAREGD	44	
PWAREGE	48	
PWAREGF	4C	
PWAREGSV	10	
PWAREG0	10	
PWAREG1	14	
PWAREG2	18	
PWAREG3	1C	
PWAREG4	20	

Table 813. Cross Reference for IPWA (continued)

Name	Offset	Hex Tag
PWAREG5	24	
PWAREG6	28	
PWAREG7	2C	
PWAREG8	30	
PWAREG9	34	
PWARESTP	1D7	80
PWARETC	43	
PWARETC2	44	
PWARETRY	153	04
PWASET0	50	
PWASET1	54	
PWASET15	68	
PWASET2	58	
PWASET3	5C	
PWASET4	60	
PWASET5	64	
PWASET6	1E0	
PWASAVP	48	
PWASAVWD	30	
PWASDBF	152	08
PWASTATS	152	20
PWASTIME	42	10
PWASTKCC	29C	30
PWASTTCB	1D4	40
PWASVR14	1DC	
PWASVR8	1D8	
PWASYNCH	44	02
PWASYNEQ	44	01
PWASYNLK	153	20
PWATASID	2A4	
PWATCB	43	80
PWATQE	208	
PWATQEAC	2A0	80
PWATQERC	204	
PWAUCBLK	4C	
PWAUCBP	6C	
PWAUSPM	153	02
PWAUSPM2	153	01
PWAWKUP	153	08
PWAWORK8	1D8	
PWAXSB	1D7	20
PWAXSB0	1E0	
PWA13BSV	154	
PWA24ID	4	
PWA24PTR	4	
PWA31PTR	C	

IPWA mapping

Chapter 217. IQE Information

IQE Programming Interface Information

ONLY the following fields are part of the programming interface information:

- IQEIRB
- IQEPARAM
- IQETCB

IQE Heading Information

Common Name: Interruption Queue Element
 Macro ID: IHAIQE
 DSECT Name: IQE
 Owing Component: Supervisor Control (SC1C5)
 Eye-Catcher ID: None
 Storage Attributes: Subpool: 253
 Size: 24 bytes
 Created by: Caller of stage 2 exit effector
 Pointed to by: ASXBFIQE field of the ASXB data area
 ASXBBIQE field of the ASXB data area
 IQELINK field of the IQE data area
 RBIQE field of the IRB data area (first IQE)
 TAXELNK field of the TAXE data area (next IQE)
 TAXEIQE field of the TAXE data area (next available IQE)
 TCBIQE field of the TCB data area (EXTR scheduling IQE)

Serialization: LOCAL lock
 Function: Represents request to schedule an asynchronous exit routine via an IRB.

IQE mapping

Table 814. Structure IQESECT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IQESECT	, IQEPTR
0	(0)	ADDRESS	4	IQELNK(0)	.WORD REFERENCE FOR IQELNKA
0	(0)	BITSTRING	1	IQESTAT1	.1 BYTE RESERVED
1	(1)	ADDRESS	3	IQELNKA	.ADDR NEXT IQE
4	(4)	ADDRESS	4	IQEPARAM	.PARMS TO BE PASSED TO ASYN EXIT RTN
8	(8)	ADDRESS	4	IQEIRB(0)	.WORD REFERENCE FOR IQEIRBA
8	(8)	BITSTRING	1	IQEFLAGS	.FLAG FIELD
		1...		IQEPURGE	"X'80'" .THIS IQE MUST NOT BE SCHEDULED
		.1..		IQETIMER	"X'40'" .STIMER OR STIMER REQUEST
		.... 1111		IQEKEY	"X'0F'" .STIMER(M) KEY
9	(9)	ADDRESS	3	IQEIRBA	.ADDR IRB TO BE SCHEDULED
12	(C)	ADDRESS	4	IQETCB(0)	.WORD REFERENCE FOR IQETCBA
12	(C)	BITSTRING	1	IQESTAT2	.1 BYTE RESERVED

IQE mapping

Table 814. Structure IQESECT (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
13	(D)	ADDRESS		3	IQETCBA	.ADDR TCB ASSOCIATED WITH THIS IQE
THE FOLLOWING IS IN BEHALF OF S.M.F.						
16	(10)	ADDRESS		4	IQEDCB	.ADDR OF DCB
20	(14)	ADDRESS		4	IQEOUTLM	.ADDR OF OUTPUT LIMIT
24	(18)	CHARACTER		1	IQEEND(0)	.END OF IQE
24	(18)	X'18'		0	IQELEN	"IQEEND-IQESECT" .LENGTH OF IQE

Table 815. Cross Reference for IQE

Name	Offset	Hex	Tag
IQEDCB	10		
IQEEND	18		
IQEFLAGS	8		
IQEIRB	8		
IQEIRBA	9		
IQEKEY	8	F	
IQELEN	18	18	
IQELNK	0		
IQELNKA	1		
IQEOUTLM	14		
IQEPARAM	4		
IQEPURGE	8	80	
IQESECT	0		
IQESTAT1	0		
IQESTAT2	C		
IQETCB	C		
IQETCBA	D		
IQETIMER	8	40	

Chapter 218. IRACPMB Information

IRACPMB Programming Interface Information

IRACPMB is a programming interface.

IRACPMB Heading Information

Common Name: Channel Path Measurement Block
Macro ID: IRACPMB
DSECT Name: CPMB - Complete mapping CPMB_CHP_ENTRY - mapping for one channel path entry
Owning Component: SRM (SC1CX)
Eye-Catcher ID: None
Storage Attributes: Subpool: 245
Key: Key 0
Residency: Above 16MB

Size:

CMC2CMG3	-- X'0014' bytes
CPM2CMG3	-- X'001C' bytes
CMC2	-- X'2000' bytes
CMC2CMG2	-- X'0014' bytes
CPM2	-- X'2000' bytes
CPM2CMG1	-- X'001C' bytes
CPM2CMG2	-- X'001C' bytes
CPMB	-- X'1000' bytes
CPMB_CHP_ENTRY	-- X'0008' bytes
CPMX	-- X'4000' bytes
CPMXCMG2	-- X'0040' bytes

Created by: IEAVNP1F when the Channel Path Measurement Facility exists.
IRASRCHM when switching between Compatability Mode and
Extended Measurement Mode (IRARMI14) and vice versa.@WA38548

Pointed to by:

Original Channel Path Measurement Format	
CMCTCPMB field of Channel Measurement Control Table (CMCT)	
Channel Measurement Characteristics Table	
CMCTMCM2 field of Channel Measurement Control Table (CMCT)	@WA38548
Extended Channel Path Measurement Format	
CMCTCPM2 field of Channel Measurement Control Table (CMCT)	@WA38548
Extended Channel Utilization Blocks	
CMCTCPMX field of Channel Measurement Control Table (CMCT)	@OA22918

Serialization: None

IRACPMB Heading Information

Function: MVS provides a Channel Path Measurement Facility (CPMF) which allows monitoring programs such as RMF to report channel utilization information. The CPMF presents the information in this control block, called the Channel Path Measurement Block (CPMB). CPMF can be operating in one of two modes as indicated by the CMCTCpmfMode of the CMCT (IRACMCT). The two modes of operation are CPMF Compatability Mode and Extended Measurement Mode. The system may switch between the two modes of operation at any time. @WA38548

The following applies to both Compatability Mode and Extended Measurement Mode:

When provided for in the machine, MVS automatically activates the CPMF at IPL and does not deactivate it unless an internal malfunction occurs. When such a malfunction occurs, MVS may reactivate the CPMF, and indicates this fact to the monitoring program via the CMCTCRCT field of the CMCT.

The system may switch between the two modes of operation at any time.

The CPMF updates the CPMB at least once every four seconds with information about the activity of the channel paths configured to the system or to the logical partition. When updating the CPMB, the CPMF does not update all channel path measurement entries simultaneously.

NOTE: The CPMF does not provide utilization information for byte multiplexer channel paths.

@WA38548

When CPMF is operating in Compatability Mode the following description applies.

When the central electronics complex (CEC) is in BASIC mode, the CPMB contains information about all channels configured in the system. When MVS runs in a logical partition of the CEC (LPAR mode), the CPMB contains information about the contribution of that logical partition to the total usage of each channel configured to that logical partition.

@WA38548

When CPMF is operating in Extended Measurement Mode the following description applies.

When the central electronics complex (CEC) is in BASIC mode, the CPM2 contains information about all channels configured in the system. When MVS runs in a logical partition of the CEC (LPAR mode), the CPMB contains information about the contribution of that logical partition to the total usage of each channel configured to that logical partition as well as the total usage of that channel path by all LPARs.

A Channel Measurement Characteristics (CMC2) table is built that describes the measurement group that each

channel path belongs to. The Channel Measurement Group determines the contents and format of the channel-utilization-entry for the associated channel path. The Channel Path Measurement Extensions block (CPM2) contains a channel-utilization-entry for each possible channel path in the system. The contents and format of each channel-utilization-entry are determined by the channel-measurement-group contained in the CMC2 entry for the corresponding CHPID.

No sample count is stored by CPMF when running in Extended Mesurement Mode. The system polls the channel subsystem every 20 seconds to discover if the facility is still active. If not active, the system will attempt to restart CPMF.

@WA38548

The Extended Channel Utilization block (CPMX) contains a channel-utilization-entry for each possible channel path in the system. The contents and format of each extended-channel-utilization-entry are determined by the channel-measurement-group contained in the CMC2 entry for the corresponding CHPID.

Extended measurements are supported when the E bit in the Channel Measurement Characteristics (CMC2) is set.

@0A22918

IRACPMB mapping

Table 816. Structure CPMB

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
0	(0)	STRUCTURE		0	CPMB	Channel Path Measurement Block
0	(0)	CHARACTER		4		Reserved
4	(4)	SIGNED		4	CPMB_SAMPLE_COUNT	CPMF sample count - updated whenever new data is stored in the CPMB. The CPMF increments this field by one each time it updates the CPMB. When the system activates or reactivates the CPMF, this field's initial value is undefined. This field wraps around to zero after it reaches 4,294,967,295. No alert will be issued if a wrap occurs. If this value does not change during a 20-second interval, the CPMF has stopped. If this field changes between two observations, either the CPMF operated normally, incrementing this field between the observations, or the system deactivated the CPMF, and then reactivated it.

IRACPMB mapping

Table 816. Structure CPMB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
8	(8)	CHARACTER	4088	CPMB_CHP_DATA	Channel path data, comprised of a list of 256 channel path measurement entries. Each entry (from 0 to 255) is associated with the same-numbered channel path.
8	(8)	X'1000'	0	CPMB_LEN	"*-CPMB"

Table 817. Structure CPMB_CHP_ENTRY

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CPMB_CHP_ENTRY	A channel path measurement entry
0	(0)	SIGNED 1... ..	4	CPMB_CUM_CHP_BUSY(0) CPMB_CHP_ENTRY_NOT_VALID	Cumulative channel path busy. "X'80" Validity flag for the CHP entry. 0 - Entry is valid. 1 - Entry is not valid.
0	(0)	BITSTRING	3		CHP busy count data
4	(4)	BITSTRING 1... ..	1	CPMB_CHP_FLAGS(0) CPMB_SHARED_CHANNEL	Flags. "X'80" Shared Channel Indicator. 1 - The channel is shared. 0 - The channel is unshared.
5	(5)	SIGNED	3	CPMB_CUM_CHP_TIME	Cumulative channel path elapsed time.
5	(5)	X'8'	0	CPMB_CHP_ENTRY_LEN	"*-CPMB_CHP_ENTRY"

Table 818. Structure CMC2

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CMC2	Channel Measurement Characteristics for CPM2
0	(0)	CHARACTER	32	CMC2CHANMEASUREMENTCHARBLOCK(0)	Channel Measurement Characteristics Block
0	(0)	BITSTRING 1... .. .1.. .... ..1.	1	CMC2FLAGS(0) CMC2NOTVALID CMC2SHAREDCHPID CMC2EXTSUPPORT	Channel Measurement Characteristics Flags "X'80" Not Valid - when 0 indicates that information is provided in this CMC block "X'40" Shared channel path "X'20" When 1 indicates that extended-channel measurements are supported
1	(1)	CHARACTER	2		Reserved
3	(3)	BITSTRING	1	CMC2CHPID	Channel path ID
4	(4)	BITSTRING	1	CMC2MASKBYTE(0)	Mask

Table 818. Structure CMC2 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1111 1...		CMC2CMCVALIDITYMASK	"X'F8'" CMC Validity mask, bits 0-4 correspond to words 3-7 of the channel measurements characteristics block. When 1, the corresponding word has meaning
5	(5)	BITSTRING 1111	1	CMC2MISC(0) CMC2CMGP	"X'0F'" Channel measurement group power. When non-zero, the CMC2SPEED value has to be multiplied by the factor 10 to the power of CMC2CMGP to get the speed in units of bits per second.
6	(6)	BITSTRING	1	CMC2CMGQ	Channel measurement group qualifier
7	(7)	BITSTRING	1	CMC2CMG	Channel measurement group for this CHPID
8	(8)	CHARACTER	2		Reserved
10	(A)	SIGNED	2	CMC2SPEED	Channel speed. If CMC2CMGP is zero, the value is the channel speed in units of 100 megabits per second. Otherwise, the value must be multiplied by 10**CMC2CMGP to get the speed in units of bits per second.
12	(C)	CHARACTER	20	CMC2DATA	Channel measurement characteristics data
Values for the CMC2CMG field, the channel measurement group types.					
12	(C)	X'1'	0	CMCCMG1	"1" Channel Measurement Group one
12	(C)	X'2'	0	CMCCMG2	"2" Channel Measurement Group two
12	(C)	X'3'	0	CMCCMG3	"3" Channel Measurement Group three
8192	(2000)	X'2000'	0	CMC2_LEN	"*-CMC2"

Table 819. Structure CMC2CMG2

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CMC2CMG2	Channel Measurement Characteristics for channel measurement group 2
0	(0)	SIGNED	4	CMC2MAXBUSCYCLES	Maximum bus cycles per second
4	(4)	SIGNED	4	CMC2MAXCHANNELWORKUNITS	Maximum channel work units per second
8	(8)	SIGNED	4	CMC2MAXWRITEDATAUNITS	Maximum write data units per second
12	(C)	SIGNED	4	CMC2MAXREADDATAUNITS	Maximum read data units per second
16	(10)	SIGNED	4	CMC2DATAUNITSIZE	Data unit size
16	(10)	X'14'	0	CMC2CMG2_LEN	"*-CMC2CMG2"

IRACPMB mapping

Table 820. Structure CMC2CMG3

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CMC2CMG3	Channel Measurement Characteristics for channel measurement group 3
0	(0)	SIGNED	4	CMC3DATAUNITSIZE	Data unit size
4	(4)	SIGNED	4	CMC3DATAUNITSIZECPC	Data unit size CPC
8	(8)	SIGNED	4	CMC3MESSAGEUNITSIZE	Message unit size
12	(C)	SIGNED	4	CMC3MESSAGEUNITSIZECPC	Message unit size CPC
16	(10)	CHARACTER	4		Reserved
16	(10)	X'14'	0	CMC2CMG3_LEN	"*-CMC2CMG3"

Table 821. Structure CPM2

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CPM2	Channel Path Measurement Block - format 2
0	(0)	CHARACTER	32	CPM2CHANNELUTILIZATIONENTRY(0)	Channel Utilization Entry
0	(0)	BITSTRING	1	CPM2CHANNELUTILINFOVALIDITYMASK	Channel utilization info validity mask, bit positions 0-7 correspond to words 0-7 of this channel utilization entry
1	(1)	SIGNED	3	CPM2TIMESTAMP	Time stamp indicating when data was last stored in this CUE, 128 microsecond granularity
4	(4)	CHARACTER	28	CPM2DATA	Channel measurement group data
8192	(2000)	X'2000'	0	CPM2_LEN	"*-CPM2"

Table 822. Structure CPM2CMG1

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CPM2CMG1	Channel Measurement Group 1
0	(0)	SIGNED	4	CMG1TOTALCHANNELBUSYTIME	Channel Path Busy Time, total for the CHPID
4	(4)	SIGNED	4	CMG1LPARCHANNELBUSYTIME	Channel Path Busy Time, just for this LPAR
8	(8)	CHARACTER	20		Reserved
8	(8)	X'1C'	0	CPM2CMG1_LEN	"*-CPM2CMG1"

Table 823. Structure CPM2CMG2

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CPM2CMG2	Channel Measurement Group 2
0	(0)	SIGNED	4	CMG2TOTALBUSCYCLECOUNT	Count of Bus Cycles, total for the CHPID
4	(4)	SIGNED	4	CMG2TOTALCHANNELWORKUNITCOUNT	Count of Channel Work Units, total for the CHPID

Table 823. Structure CPM2CMG2 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
8	(8)	SIGNED	4	CMG2LPARCHANNELWORKUNITCOUNT	Count of Channel Work Units, just for this LPAR
12	(C)	SIGNED	4	CMG2TOTALWRITEDATAUNITS	Count of Data Units Written, total for the CHPID
16	(10)	SIGNED	4	CMG2LPARWRITEDATAUNITS	Count of Data Units Written, just for this LPAR
20	(14)	SIGNED	4	CMG2TOTALREADDATAUNITS	Count of Data Units Read, total for the CHPID
24	(18)	SIGNED	4	CMG2LPARREADDATAUNITS	Count of Data Units Read, just for this LPAR
24	(18)	X'1C'	0	CPM2CMG2_LEN	"*-CPM2CMG2"

Table 824. Structure CPM2CMG3

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CPM2CMG3	Channel Measurement Group 3
0	(0)	SIGNED	4	CMG3MESSAGEUNITSSSENT	Count of message units sent by programs
4	(4)	SIGNED	4	CMG3MESSAGEUNITSSSENTCPC	Count of message units sent by programs from all logical partitions using this channel path
8	(8)	SIGNED	4	CMG3UNSUCCATTEMPTSTOSEND	Unsuccessful attempts to send messages except when the attempts failed due to unavailable buffers in the receiving log. partition
12	(C)	SIGNED	4	CMG3UNAVAILRECEIVEBUFFERS	Count of unavailable receive buffers in the issuing partition
16	(10)	SIGNED	4	CMG3UNAVAILRECEIVEBUFFERSRPC	Unavailable receive buffers in the target partition including all unsucc. attempts from all partitions using the channel path
20	(14)	SIGNED	4	CMG3DATAUNITSSSENT	Number of data units sent by programs in the issuing logical partition
24	(18)	SIGNED	4	CMG3DATAUNITSSSENTCPC	Number of data units sent by all logical partitions which have access to the channel path
24	(18)	X'1C'	0	CPM2CMG3_LEN	"*-CPM2CMG3"

Table 825. Structure CPMX

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CPMX	Extended Channel Utilization Block
0	(0)	CHARACTER	64	CPMXCHANNELUTILIZATIONENTRY(0)	Extended Channel Utilization Entry

IRACPMB mapping

Table 825. Structure CPMX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	CHARACTER	64	CPMXDATA	Extended channel measurement group data
16384	(4000)	X'4000'	0	CPMX_LEN	"*-CPMX"

Table 826. Structure CPMXCMG2

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CPMXCMG2	CMG=2 extended data
0	(0)	SIGNED	4	CPMXTOTALCOUNTOPS	
4	(4)	SIGNED	4	CPMXTOTALCOUNTOPSDEFERRED	
8	(8)	CHARACTER	8	CPMXSUMMATIONCOUNTOPS	
16	(10)	SIGNED	4	CPMXTOTALCOUNTOPSFCX	
20	(14)	SIGNED	4	CPMXTOTALCOUNTOPSDEFERREDFCX	
24	(18)	CHARACTER	8	CPMXSUMMATIONCOUNTOPSFCX	
32	(20)	CHARACTER	32	CPMXRESERVED	
32	(20)	X'40'	0	CPMXCMG2_LEN	"*-CPMXCMG2"

Table 827. Cross Reference for IRACPMB

Name	Offset	Hex	Tag
CMCCMG1	C		1
CMCCMG2	C		2
CMCCMG3	C		3
CMC2	0		
CMC2_LEN	2000		2000
CMC2CHANMEASUREMENTCHARBLOCK	0		
CMC2CHPID	3		
CMC2CMCVALIDITYMASK	4		F8
CMC2CMG	7		
CMC2CMGP	5		F
CMC2CMGQ	6		
CMC2CMG2	0		
CMC2CMG2_LEN	10		14
CMC2CMG3	0		
CMC2CMG3_LEN	10		14
CMC2DATA	C		
CMC2DATAUNITSIZE	10		
CMC2EXTSUPPORT	0		20
CMC2FLAGS	0		
CMC2MASKBYTE	4		
CMC2MAXBUSCYCLES	0		
CMC2MAXCHANNELWORKUNITS	4		
CMC2MAXREADDATAUNITS	C		
CMC2MAXWRITEDATAUNITS	8		
CMC2MISC	5		
CMC2NOTVALID	0		80
CMC2SHAREDCHPID	0		40
CMC2SPEED	A		
CMC3DATAUNITSIZE	0		

Table 827. Cross Reference for IRACPMB (continued)

Name	Offset	Hex Tag
CMC3DATAUNITSIZECPC	4	
CMC3MESSAGEUNITSIZE	8	
CMC3MESSAGEUNITSIZECPC	C	
CMG1LPARCHANNELBUSYTIME	4	
CMG1TOTALCHANNELBUSYTIME	0	
CMG2LPARCHANNELWORKUNITCOUNT	8	
CMG2LPARREADDATAUNITS	18	
CMG2LPARWRITEDATAUNITS	10	
CMG2TOTALBUSCYCLECOUNT	0	
CMG2TOTALCHANNELWORKUNITCOUNT	4	
CMG2TOTALREADDATAUNITS	14	
CMG2TOTALWRITEDATAUNITS	C	
CMG3DATAUNITSSENT	14	
CMG3DATAUNITSSENTCPC	18	
CMG3MESSAGEUNITSSENT	0	
CMG3MESSAGEUNITSSENTCPC	4	
CMG3UNAVAILRECEIVEBUFFERS	C	
CMG3UNAVAILRECEIVEBUFFERSPC	10	
CMG3UNSUCCATTEMPTSTOSEND	8	
CPMB	0	
CPMB_CHP_DATA	8	
CPMB_CHP_ENTRY	0	
CPMB_CHP_ENTRY_LEN	5	8
CPMB_CHP_ENTRY_NOT_VALID	0	80
CPMB_CHP_FLAGS	4	
CPMB_CUM_CHP_BUSY	0	
CPMB_CUM_CHP_TIME	5	
CPMB_LEN	8	1000
CPMB_SAMPLE_COUNT	4	
CPMB_SHARED_CHANNEL	4	80
CPMX	0	
CPMX_LEN	4000	4000
CPMXCHANNELUTILIZATIONENTRY	0	
CPMXCMG2	0	
CPMXCMG2_LEN	20	40
CPMXDATA	0	
CPMXRESERVED	20	
CPMXSUMMATIONCOUNTOPS	8	
CPMXSUMMATIONCOUNTOPSFEX	18	
CPMXTOTALCOUNTOPS	0	
CPMXTOTALCOUNTOPSDEFERRED	4	
CPMXTOTALCOUNTOPSDEFERREDFEX	14	
CPMXTOTALCOUNTOPSFEX	10	
CPM2	0	
CPM2_LEN	2000	2000
CPM2CHANNELUTILINFOVALITYMASK	0	
CPM2CHANNELUTILIZATIONENTRY	0	
CPM2CMG1	0	
CPM2CMG1_LEN	8	1C

IRACPMB mapping

Table 827. Cross Reference for IRACPMB (continued)

Name	Offset	Hex Tag
CPM2CMG2	0	
CPM2CMG2_LEN	18	1C
CPM2CMG3	0	
CPM2CMG3_LEN	18	1C
CPM2DATA	4	
CPM2TIMESTAMP	1	

Chapter 219. IRAECMB Information

IRAECMB Programming Interface Information

IRAECMB is a programming interface.

IRAECMB Heading Information

Common Name: Extended Channel Measurement Block mapping
Macro ID: IRAECMB
DSECT Name: ECMB
Owning Component: SRM (SC1CX)
Eye-Catcher ID: ECMB
Offset: 0
Length: 4
Storage Attributes: Key: 0
FREQUENCY: One ECMB for every DASD (including aliases) and tape device that is connected to a subchannel
Size: ECMBHEADER -- X'0040' bytes
IRAECMB -- X'0080' bytes
ECMB -- X'0040' bytes
Created by: IEAVNP1F
Pointed to by: SCHCMBAD (real address)
- To address an ECMB, the following must be done:
- CMCTECMBAlet contains the ALET of the data space containing the ECMBs. This ALET must be loaded into an access register and a SAC instruction must be issued to switch into access register mode.
- CMCTECMBPtr contains the address of the array of ECMB entries within the data space. This address may be zero since the data space may start at address zero. There is an array of up to 65536 entries for each subchannel set. The first element in each array contains the ECMB header, which is mapped by the ECMBHeader data structure. The ECMB header corresponds to ECMB array index zero within the subchannel set. CMCTECMBhighMBIs contains the highest assigned ECMB index within each of the subchannel sets.
The index for the ECMB entry assigned to the device is in the UCBMBI field of that device's UCB. To compute the ECMB address for that device, multiply the subchannel set id in UCBSSID by 65536 and add that to UCBMBI. Then multiply the result by the size of an ECMB entry (64 bytes) and add CMCTECMBPtr. That is:
$$\text{ECMBPtr} = \text{CMCTECMBPtr} + 64 * (\text{UCBSSID} * 65536 + \text{UCBMBI})$$

Serialization: None
Function: IRAECMB maps the Extended Channel Measurement Block.

IRAECMB mapping

IRAECMB mapping

Table 828. Structure IRAECMB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IRAECMB	Extended Channel Measurement Block
0	(0)	CHARACTER	64	ECMBHEADER(0)	Extended Channel Measurement Block header
0	(0)	CHARACTER	4	ECMBNAME	Acronym 'ECMB'
4	(4)	SIGNED	4	ECMBLENGTH	Length of ECMB array
8	(8)	BITSTRING	1	ECMBBITS(0)	Bits
		11..		ECMBSUBCHANNELSET	"X'C0'" Subchannel set ID
9	(9)	CHARACTER	55		Reserved
64	(40)	CHARACTER	64	ECMBENTRY	Array of ECMB entries
64	(40)	X'80'	0	IRAECMB_LEN	"*-IRAECMB"

Table 829. Structure ECMB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ECMB	Extended Channel Measurement Block
0	(0)	SIGNED	4	ECMBSSCHRSCHCOUNT	Number of SSCH/RSCH instructions
4	(4)	SIGNED	4	ECMBSAMPLECOUNT	Number of SSCH/RSCH instructions for which data was collected
8	(8)	SIGNED	4	ECMBCONNECTTIME	Summation of device connect times
12	(C)	SIGNED	4	ECMBPENDINGTIME	Summation of SSCH/RSCH request pending times
16	(10)	SIGNED	4	ECMBDISCONNECTTIME	Summation of subchannel disconnect times
20	(14)	SIGNED	4	ECMBCUQUEUEINGTIME	Summation of control unit queueing times
24	(18)	SIGNED	4	ECMBDEVICEACTIVEONLYTIME	Summation of device- active-only times
28	(1C)	SIGNED	4	ECMBDEVICEBUSYTIME	Summation of device busy times
32	(20)	SIGNED	4	ECMBINITIALCMDRESPTIME	Initial command response time
36	(24)	SIGNED	4	ECMBINTERRUPTDELAYTIME	Interrupt delay time
40	(28)	CHARACTER	24		Reserved
40	(28)	X'C3D4C2'	0	ECMBECMB	"C'ECMB'" Acronym for ECMBname
40	(28)	X'40'	0	ECMB_LEN	"*-ECMB"

Table 830. Cross Reference for IRAECMB

Name	Offset	Hex Tag
ECMB	0	
ECMB_LEN	28	40
ECMBBITS	8	
ECMBCONNECTTIME	8	
ECMBCUQUEUEINGTIME	14	
ECMBDEVICEACTIVEONLYTIME	18	
ECMBDEVICEBUSYTIME	1C	
ECMBDISCONNECTTIME	10	
ECMBECMB	28	C3D4C2

Table 830. Cross Reference for IRAECMB (continued)

Name	Offset	Hex Tag
ECMBENTRY	40	
ECMBHEADER	0	
ECMBINITIALCMDRESPTIME	20	
ECMBINTERRUPTDELAYTIME	24	
ECMBLENGTH	4	
ECMBNAME	0	
ECMBPENDINGTIME	C	
ECMBSAMPLECOUNT	4	
ECMBSSCHRSCHCOUNT	0	
ECMBSUBCHANNELSET	8	C0
IRAECMB	0	
IRAECMB_LEN	40	80

IRAECMB mapping

Chapter 220. IRAENF55 Information

IRAENF55 Programming Interface Information

IRAENF55 is a programming interface.

IRAENF55 Heading Information

Common Name: ENF signal 55 parameters
Macro ID: IRAENF55
DSECT Name: ENF55
Owning Component: SRM (SC1CX)
Eye-Catcher ID: 'IRAENF55'
Offset: 0
Length: 8
Storage Attributes: Subpool: 245
Residency: Above 16M line
Size: 200 bytes @LHISTOC
Created by: IRASTFXS @LHISTOC
IRASTAUX @LPSMONA
IRASTSCM @LPSMONA
IRARMRMR @LPSMONA
Pointed to by: N/A
Serialization: SRM LOCK
Function: Contains parameters for ENF signal 55
The ENF 55 signal issues events of the following types
and orders:
- Pageable Storage shortages
- ENF55QLF_REAL_CRITICAL_SHORTAGE
- ENF55QLF_REAL_SHORTAGE
- ENF55QLF_REAL_SHORTAGE_RELIEVED
- ENF55QLF_REAL_APPL_WARNING
- ENF55QLF_REAL_APPL_WARNING_RELIEVED
- ENF55QLF_REAL_WARNING
- Auxiliary Storage shortages
- ENF55QLF_AUX_CRITICAL_SHORTAGE
- ENF55QLF_AUX_SHORTAGE
- ENF55QLF_AUX_SHORTAGE_RELIEVED
- ENF55QLF_AUX_APPL_WARNING
- ENF55QLF_AUX_APPL_WARNING_RELIEVED
- ENF55QLF_AUX_WARNING
- ENF55QLF_SCM_HIGH_USAGE @LFLASHA
- ENF55QLF_SCM_HIGH_USAGE_RELIEVED @LFLASHA
- Available Frame Queue Shortages
- ENF55QLF_AFQ_SHORTAGE
- ENF55QLF_AFQ_SHORTAGE_RELIEVED
@LLENHA
- Preferred Frame Queue Shortages
- ENF55QLF_PREF_SHORTAGE
- ENF55QLF_PREF_SHORTAGE_RELIEVED
@LPSMONA

IRAENF55 mapping

IRAENF55 mapping

Table 831. Structure ENF55

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ENF55	ENF signal 55 parameters
0	(0)	CHARACTER	8	ENF55ID	Control Block ID - "IRAENF55"
8	(8)	SIGNED	2	ENF55LEN	Parameter List Length
10	(A)	BITSTRING	1	ENF55VER	Parameter List Version
11	(B)	BITSTRING	1	ENF55TYP	Type of frame needed to end pageable shortage situation (for qualifier x'80000000') 4 = Pageable frames in between the 16M and 2G lines 3 = Pageable frames below 16M line 2 = Pageable frames in real storage 1 = PTA frames (DREF + Fixed pages) in processor storage 0 = Not in a shortage @64BITSRM Type of slots needed to end auxiliary shortage situation (for qualifier x'08000000' and for qualifier x'04000000') 1 = AUX slots needed 0 = Not in a shortage Type of slots needed to end preferred shortage situation (for qualifier x'00002000') 4 = Preferred frames in between the 16M and 2G lines 3 = Preferred frames below 16M line 2 = Preferred frames in real storage 0 = Not in a shortage
12	(C)	BITSTRING	4	ENF55QLF	Qualifier Code
16	(10)	SIGNED	2	ENF55FRM	Obsolete (but still maintained) use ENF55FramesNeeded instead
18	(12)	SIGNED	2	ENF55RSV1	Reserved
20	(14)	SIGNED	4	ENF55FRAMESNEEDED	Number of frames needed to end the shortage situation. (valid for qualifier code x'80000000')
20	(14)	SIGNED	4	ENF55SLOTSNEEDED	Number of slots needed to end the shortage situation. (valid for qualifier code x'08000000' and qualifier code x'04000000')
24	(18)	CHARACTER	8	ENF55TIMESTAMP	Time when the ENF signal got issued (STCK format)
32	(20)	SIGNED	2	ENF55RSV4	Reserved
<p>When the system is in a pageable storage shortage, the address space elements get filled with the top causer of the current shortage. The field ENF55NoOfAsidElements contains the number of valid address space elements, mapped via ENF55AsidElement.</p>					
34	(22)	SIGNED	2	ENF55ASIDELEMENTOFFSET	Offset to the Asid element section
36	(24)	SIGNED	2	ENF55ASIDELEMENTLENGTH	Length of a single Asid element
38	(26)	SIGNED	2	ENF55NOOFASIDELEMENTS	Number of elements elements in the Asid section
40	(28)	CHARACTER	1	ENF55FIXEDEND(0)	Begin of dynamic sections

Table 831. Structure ENF55 (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
40	(28)	X'28'	0	ENF55_LEN	"*-ENF55"

Table 832. Structure ENF55ASIDELEMENT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ENF55ASIDELEMENT	Address space element
0	(0)	SIGNED	2	ENF55ASID	Address space ID of the address space which is a preferred candidate
2	(2)	SIGNED	2	ENF55RSV10	reserved
4	(4)	SIGNED	4	ENF55FRAMES	Number of frames the address space has fixed in the shortage area
4	(4)	SIGNED	4	ENF55SLOTS	Number of slots the address space has allocated on AUX

Constants

....	....			ENF55QLF_REAL_SHORTAGE	"X'80000000'" Pageable Storage Shortage To many fixed frames in the storage. See ENF55TYP for the storage area. Issued when IRA400E occurs
....	....			ENF55QLF_REAL_SHORTAGE_RELIEVED	"X'40000000'" Pageable Storage Shortage relieved Issued when IRA402I occurs
....	....			ENF55QLF_REAL_WARNING	"X'20000000'" Pageable Storage Warning There are many fixed frames in the storage. See ENF55TYP for the storage area Issued when IRA405I occurs
....	....			ENF55QLF_REAL_CRITICAL_SHORTAGE	"X'10000000'" Critical Pageable Storage Shortage To many fixed frames in the storage. See ENF55TYP for the storage area. Issued when IRA401E occurs
....	....			ENF55QLF_AUX_CRITICAL_SHORTAGE	"X'08000000'" Critical Auxiliary Storage Shortage To many slots allocated on the AUX subsystem. Issued when IRA201E occurs
....	....			ENF55QLF_AUX_SHORTAGE	"X'04000000'" Auxiliary Storage Shortage To many slots allocated on the AUX subsystem. Issued when IRA200E occurs
....	....			ENF55QLF_AUX_SHORTAGE_RELIEVED	"X'02000000'" Auxiliary Storage Shortage relieved Issued when IRA202I occurs
....	....			ENF55QLF_AUX_WARNING	"X'01000000'" Auxiliary Storage Warning There are many slots allocated on the AUX subsystem Issued when IRA205I occurs

IRAENF55 mapping

Table 832. Structure ENF55ASIDELEMENT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
4	(4)	BITSTRING	0	ENF55QLF_REAL_APPL_WARNING	"X'00800000'" Pageable Storage Application Warning 5% below a pageable storage shortage level. See ENF55TYP for the storage area.
4	(4)	BITSTRING	0	ENF55QLF_REAL_APPL_WARNING_RELIEVED	"X'00400000'" Pageable Storage Application Warning relieved
4	(4)	BITSTRING	0	ENF55QLF_AUX_APPL_WARNING	"X'00200000'" Auxiliary Storage Application Warning 5% below a auxiliary storage shortage level.
4	(4)	BITSTRING	0	ENF55QLF_AUX_APPL_WARNING_RELIEVED	"X'00100000'" Auxiliary Storage Application Warning relieved
4	(4)	BITSTRING	0	ENF55QLF_SCM_HIGH_USAGE	"X'00040000'" High usage of Flash Storage. Issued when IRA250I occurs
4	(4)	BITSTRING	0	ENF55QLF_SCM_HIGH_USAGE_RELIEVED	"X'00020000'" High usage of Flash Storage relieved. Issued when IRA252I occurs
4	(4)	BITSTRING	0	ENF55QLF_AFQ_SHORTAGE	"X'00008000'" Available Frame Queue Shortage Not enough frames on the available frame queue
4	(4)	BITSTRING	0	ENF55QLF_AFQ_SHORTAGE_RELIEVED	"X'00004000'" Available Frame Queue Shortage relieved
4	(4)	BITSTRING	0	ENF55QLF_PREF_SHORTAGE	"X'00002000'" Preferred Frame Queue Shortage Not enough frames on the preferred frame queue. See ENF55TYP for the storage area.
4	(4)	BITSTRING	0	ENF55QLF_PREF_SHORTAGE_RELIEVED	"X'00001000'" Preferred Frame Queue Shortage relieved
		....		ENF55QLF_SHORTAGE_RECOGNIZED	"X'80000000'" Obsolete, use new constant above
		....		ENF55QLF_SHORTAGE_RELIEVED	"X'40000000'" Obsolete, use new constant above
4	(4)	BITSTRING	0	ENF55QLF_HIGH_SCM_USAGE	"X'00040000'" Obsolete, use new equate above
4	(4)	BITSTRING	0	ENF55QLF_HIGH_SCM_USAGE_RELIEVED	"X'00020000'" Obsolete, use new equate above
4	(4)	X'1'	0	ENF55_VERSION1	"1" Version 1 constant
4	(4)	X'2'	0	ENF55_VERSION2	"2" Version 2 constant
4	(4)	X'2'	0	ENF55_LATEST_VERSION	"2" Latest version constant
4	(4)	X'D9C1C5'	0	ENF55_EYECATCHER_0T03	"C'IRAE'" This is the first 4-byte segment of an 8-byte constant. Storage due to fixed storage - relieved

Table 832. Structure ENF55ASIDELEMENT (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
4	(4)	X'C6F5F5'		0	ENF55_EYECATCHER_4T07	"C'NF55'" This is the second 4-byte segment of an 8-byte constant. Storage due to fixed storage - relieved
4	(4)	X'14'		0	ENF55_MAXNOOFASIDELEMENTS	"20" Maximal number of elements in the address space list LHISTOA
4	(4)	X'C8'		0	ENF55_LENGTH	"200" Length of IRAENF55
4	(4)	X'8'		0	ENF55_ASIDELEMENTLENGTH	"8" Length of a AsidList entry
4	(4)	X'8'		0	ENF55ASIDELEMENT_LEN	"*-ENF55AsidElement"

Table 833. Cross Reference for IRAENF55

Name	Offset	Hex	Tag
ENF55	0		
ENF55_ASIDELEMENTLENGTH	4		8
ENF55_EYECATCHER_0T03	4	D9C1C5	
ENF55_EYECATCHER_4T07	4	C6F5F5	
ENF55_LATEST_VERSION	4		2
ENF55_LEN	28		28
ENF55_LENGTH	4		C8
ENF55_MAXNOOFASIDELEMENTS	4		14
ENF55_VERSION1	4		1
ENF55_VERSION2	4		2
ENF55ASID	0		
ENF55ASIDELEMENT	0		
ENF55ASIDELEMENT_LEN	4		8
ENF55ASIDELEMENTLENGTH	24		
ENF55ASIDELEMENTOFFSET	22		
ENF55FIXEDEND	28		
ENF55FRAMES	4		
ENF55FRAMESNEEDED	14		
ENF55FRM	10		
ENF55ID	0		
ENF55LEN	8		
ENF55NOOFASIDELEMENTS	26		
ENF55QLF	C		
ENF55QLF_AFQ_SHORTAGE	4		8000
ENF55QLF_AFQ_SHORTAGE_RELIEVED	4		4000
ENF55QLF_AUX_APPL_WARNING	4		200000
ENF55QLF_AUX_APPL_WARNING_RELIEVED	4		100000
ENF55QLF_AUX_CRITICAL_SHORTAGE	4		0
ENF55QLF_AUX_SHORTAGE	4		0
ENF55QLF_AUX_SHORTAGE_RELIEVED	4		0
ENF55QLF_AUX_WARNING	4		0
ENF55QLF_HIGH_SCM_USAGE	4		40000
ENF55QLF_HIGH_SCM_USAGE_RELIEVED	4		20000
ENF55QLF_PREF_SHORTAGE	4		2000
ENF55QLF_PREF_SHORTAGE_RELIEVED	4		1000

IRAENF55 mapping

Table 833. Cross Reference for IRAENF55 (continued)

Name	Offset	Hex Tag
ENF55QLF_REAL_APPL_WARNING	4	800000
ENF55QLF_REAL_APPL_WARNING_RELIEVED	4	400000
ENF55QLF_REAL_CRITICAL_SHORTAGE	4	0
ENF55QLF_REAL_SHORTAGE	4	0
ENF55QLF_REAL_SHORTAGE_RELIEVED	4	0
ENF55QLF_REAL_WARNING	4	0
ENF55QLF_SCM_HIGH_USAGE	4	40000
ENF55QLF_SCM_HIGH_USAGE_RELIEVED	4	20000
ENF55QLF_SHORTAGE_RECOGNIZED	4	0
ENF55QLF_SHORTAGE_RELIEVED	4	0
ENF55RSV1	12	
ENF55RSV10	2	
ENF55RSV4	20	
ENF55SLOTS	4	
ENF55SLOTSNEEDED	14	
ENF55TIMESTAMP	18	
ENF55TYP	B	
ENF55VER	A	

Chapter 221. IRAEVPL Information

IRAEVPL Programming Interface Information

IRAEVPL is a programming interface.

IRAEVPL Heading Information

Common Name: Sysevent Parameter List Mappings
 Macro ID: IRAEVPL
 DSECT Name: IRAENCSTATE_PARMLIST IRAENQHR_PARMLIST IRAENCASSOC_PARMLIST
 IRAQRYCN_PARMLIST
 Owning Component: SRM (SC1CX)
 Eye-Catcher ID: None
 Storage Attributes: Subpool: any fixed subpool
 Key: any
 Residency: Above 16M
 Size: IRAENCSTATE_PARMLIST -- X'0004' bytes
 IRAENQHR_PARMLIST -- X'0058' bytes
 IRAENCASSOC_PARMLIST -- X'0018' bytes
 IRAQRYCN_PARMLIST -- X'00D0' bytes
 Created by: SYSEVENT ENCSTATE invoker
 Pointed to by:
 Serialization: User-defined
 Function: Maps external sysevent parameter lists

IRAEVPL mapping

Table 834. Structure IRAENCSTATE_PARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IRAENCSTATE_PARMLIST	
0	(0)	SIGNED	4	IRAENCSTATE_FUNCTIONCODE	IRAEVPL.17: See constants
					IRAEVPL.26: Enclave is entering the idle state
0	(0)	X'1'	0	IRAENCSTATE_IDLE	"1"
					IRAEVPL.35: Enclave is leaving the idle state. Note that newly created enclaves are considered non-idle by SRM.
0	(0)	X'2'	0	IRAENCSTATE_NONIDLE	"2"
0	(0)	X'4'	0	IRAENCSTATE_PARMLIST_LEN	"*-IRAENCSTATE_PARMLIST"

Table 835. Structure IRAENQHR_PARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IRAENQHR_PARMLIST	
0	(0)	CHARACTER	88	IRAENQHR_WORKUNITINFORMATION	IRAEVPL.544: information required when the sysevent macro invocation specifies TYPE=IraEnq- HR_WorkUnitInfo

IRAEVPL mapping

Table 835. Structure IRAENQHR_PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	CHARACTER	8	IRAENQHR_ETOKEN	IRAEVPL.547: Enclave token or 0 if the work unit is not known to be associated with an enclave
8	(8)	ADDRESS	4	IRAENQHR_TCBPTR	IRAEVPL.553: Address of resource holder's TCB or 0 if the holder is an SRB. The parameter is ignored for ENQRLSE
12	(C)	CHARACTER	8	IRAENQHR_TOKEN	IRAEVPL.559: Enqueue hold token pointing to the associated enqueue hold element. This is an output parameter for Hold requests and a mandatory input parameter for Rlse requests. Not valid for short time promotion
20	(14)	CHARACTER	4	IRAENQHR_SUBSYS	IRAEVPL.565: Generic subsystem type
24	(18)	CHARACTER	8	IRAENQHR_SUBSYSNAME	IRAEVPL.571: Subsystem instance
32	(20)	CHARACTER	32	IRAENQHR_SUBSYSREQUEST	IRAEVPL.577: Additional information to distinguish between different invocations by the same subsystem
64	(40)	SIGNED	4	IRAENQHR_FUNCTION	IRAEVPL.583: Function code: 0 = standard promotion, 1 = short time promotion. The parameter is ignored for ENQRLSE
68	(44)	BITSTRING	4	IRAENQHR_FLAGS	IRAEVPL.589: flags
Bit definitions:					
		1...		IRAENQHR_FLAGS_RHTERM	"X'80'" IRAEVPL.595: This flag signals to SRM that the parameters IraEnqHR_ASID, IraEnqHR_STOKEN, and IraEnqHR_Etoken are serialized against resource holder's termination. 0 = serialized, 1 = not serialized
72	(48)	SIGNED	2	IRAENQHR_ASID	IRAEVPL.601: Address space ID or 0 if resource holder is identified by STOKEN or enclave token
74	(4A)	SIGNED	2		IRAEVPL.607: For future use
76	(4C)	CHARACTER	8	IRAENQHR_STOKEN	IRAEVPL.613: Address space token or 0 if resource holder is identified by ASID or enclave token
84	(54)	CHARACTER	4		IRAEVPL.619: reserved
IRAEVPL.628: Return code 8 will be passed to the caller of EnqHold/Rlse requests of type 2 or later if an invalid enclave token was specified.					
84	(54)	X'8'	0	IRAENQHR_RETURN_CODE_08	"8"
IRAEVPL.637: Return code 10 will be passed to the caller of EnqHold/Rlse requests of type 3 or later if an invalid ASID was specified.					
84	(54)	X'A'	0	IRAENQHR_RETURN_CODE_10	"10"

Table 835. Structure IRAENQHR_PARMLIST (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
						IRAEVPL.646: Return code 12 will be passed to the caller of EnqHold/Rlse requests of type 3 or later if an invalid STOKEN was specified.
84	(54)	X'C'		0	IRAENQHR_RETURN_CODE_12	"12"
						IRAEVPL.655: Return code 14 will be passed to the caller of EnqHold requests of type 3 or later if an invalid TCB address was specified.
84	(54)	X'E'		0	IRAENQHR_RETURN_CODE_14	"14"
						IRAEVPL.664: Return code 16 will be passed to the caller of EnqHold/Rlse requests of type 3 or later if an invalid combination of ASID, STOKEN, or enclave token was specified
84	(54)	X'10'		0	IRAENQHR_RETURN_CODE_16	"16"
						IRAEVPL.673: Equivalent to MVS 5.2.2 and earlier form of sysevents where only the asid or enclave token of the holder was available.
84	(54)	X'0'		0	IRAENQHR_NOWORKUNITINFO	"0"
						IRAEVPL.682: Enqhold/Enqrlse against address space or enclave, and the TCB and ASCB of the holder are supplied.
84	(54)	X'1'		0	IRAENQHR_WORKUNITINFO	"1"
						IRAEVPL.691: Enqhold/Enqrlse against address space or enclave with subsystem information
84	(54)	X'2'		0	IRAENQHR_SUBSYSTEMINFO	"2"
						IRAEVPL.700: Enqhold/Enqrlse against address space or enclave with subsystem information. Support of short time / high frequency enqueue promotion. Support of STOKEN
84	(54)	X'3'		0	IRAENQHR_SHORT_TIME	"3"
						IRAEVPL.709: Maximum request type for Enqhold/Enqrlse Sysevents
84	(54)	X'3'		0	IRAENQHR_MAXREQUESTTYPE	"3"
						IRAEVPL.718: Function code for standard enqueue promotion
84	(54)	X'0'		0	IRAENQHR_FUNCTION_STANDARD	"0"
						IRAEVPL.727: Function code for short time / high frequency enqueue promotion
84	(54)	X'1'		0	IRAENQHR_FUNCTION_STP	"1"
84	(54)	X'58'		0	IRAENQHR_PARMLIST_LEN	"*-IRAENQHR_PARMLIST"

Table 836. Structure IRAENCASSOC_PARMLIST

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
0	(0)	STRUCTURE		0	IRAENCASSOC_PARMLIST	
0	(0)	BITSTRING		1	IRAENCASSOC_FUNCTION_CODE	IRAEVPL.470: Function code for this request. See EncAssoc function code constants
1	(1)	BITSTRING		1	IRAENCASSOC_RSV1	IRAEVPL.444: Reserved field. Must be set to zero
2	(2)	CHARACTER		22		IRAEVPL.438: For future use

IRAEVPL mapping

Table 836. Structure IRAENCASSOC_PARMLIST (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					IRAEVPL.217: Return code 4 will be passed to the caller of EncAssoc if the specified function code is invalid
2	(2)	X'4'	0	IRAENCASSOC_RETURN_CODE_04	"4"
					IRAEVPL.459: Return code 10 will be passed to the caller of EncAssoc if the specified enclave token is invalid
2	(2)	X'10'	0	IRAENCASSOC_RETURN_CODE_10	"16"
					IRAEVPL.392: Function code for SYSEVENT EncAssoc: Associate an enclave with an address space
2	(2)	X'1'	0	IRAENCASSOC_FUNCTION_ASSOC	"1"
					IRAEVPL.468: Function code for SYSEVENT EncAssoc: Disassociate an enclave with an address space
2	(2)	X'2'	0	IRAENCASSOC_FUNCTION_DISASSOC	"2"
2	(2)	X'18'	0	IRAENCASSOC_PARMLIST_LEN	"*-IRAENCASSOC_PARMLIST"

Table 837. Structure IRAQRYCN_PARMLIST

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	IRAQRYCN_PARMLIST	
0	(0)	CHARACTER	208	IRAQRYCN_QUERY_CONTENTION	IRAEVPL.865: Query contention information
0	(0)	CHARACTER	8	IRAQRYCN_EYE_CATCHER	IRAEVPL.964: Input: Eye catcher of query contention parameter list
8	(8)	SIGNED	2	IRAQRYCN_LEN	IRAEVPL.976: Input: Length of query contention parameter list
10	(A)	BITSTRING	1	IRAQRYCN_VERSION	IRAEVPL.970: Input: Version of query contention parameter list
11	(B)	BITSTRING	1		IRAEVPL.916: For future use
12	(C)	SIGNED	2	IRAQRYCN_ASID	IRAEVPL.758: Input: Address space ID or 0 if resource holder is identified by STOKEN or enclave token
14	(E)	SIGNED	2	IRAQRYCN_NUM_OF_CI_ENTRIES	IRAEVPL.387: Output: Number of entries returned in the Contention Information array IRAQryCn_Co-ntention_In-formation
16	(10)	CHARACTER	8	IRAQRYCN_STOKEN	IRAEVPL.922: Input: Address space token or 0 if resource holder is identified by ASID or enclave token
24	(18)	CHARACTER	8	IRAQRYCN_ETOKEN	IRAEVPL.386: Input: Enclave token or 0 if the work unit is not associated with an enclave

Table 837. Structure IRAQRYCN_PARMLIST (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
32	(20)	SIGNED		4	IRAQRYCN_REQTYPE	IRAEVPL.1007: Input: Request type of query. Return contention information for: 1=Standard EnqHolds and Short time EnqHolds, 2=Chronic resource contentions, 0=All
36	(24)	SIGNED		4		IRAEVPL.1001: Reserved
40	(28)	CHARACTER		32	IRAQRYCN_CONTENTION_INFORMATION	IRAEVPL.424: Output: Contention information returned by SRM
40	(28)	CHARACTER		32	IRAQRYCN_CI_RECORD	IRAEVPL.871: Contention information data record
40	(28)	CHARACTER		4	IRAQRYCN_SUBSYS	IRAEVPL.429: Generic subsystem type
44	(2C)	CHARACTER		8	IRAQRYCN_SUBSYSNAME	IRAEVPL.934: Subsystem instance
52	(34)	BITSTRING		8	IRAQRYCN_CST	IRAEVPL.940: Contention start time in STCK format
60	(3C)	SIGNED		4	IRAQRYCN_CONTENTION_ID	IRAEVPL.264: ID of SRM service the resource contention was assigned to 1=Standard EnqHold 2=Short time EnqHold 3=Chronic resource contention
64	(40)	SIGNED		4	IRAQRYCN_COUNT	IRAEVPL.877: Number of contentions signaled to SRM for this Subsystem type, Subsystem instance, and contention ID combination
68	(44)	CHARACTER		4		IRAEVPL.431: reserved
200	(C8)	CHARACTER		8		IRAEVPL.776: reserved
IRAEVPL.785: Return code 4 will be passed to the caller of SYSEVENT QRYCONT if there are no contentions.						
200	(C8)	X'4'		0	IRAQRYCN_RETURN_CODE_04	"4"
IRAEVPL.502: Return code 8 will be passed to the caller of SYSEVENT QRYCONT if an invalid enclave token was specified.						
200	(C8)	X'8'		0	IRAQRYCN_RETURN_CODE_08	"8"
IRAEVPL.794: Return code 10 will be passed to the caller of SYSEVENT QRYCONT if the specified ASID did not map to a valid, active address space.						
200	(C8)	X'A'		0	IRAQRYCN_RETURN_CODE_10	"10"
IRAEVPL.803: Return code 12 will be passed to the caller of SYSEVENT QRYCONT if the specified STOKEN did not map to a valid, active address space.						
200	(C8)	X'C'		0	IRAQRYCN_RETURN_CODE_12	"12"
IRAEVPL.812: Return code 14 will be passed to the caller of SYSEVENT QRYCONT if an invalid combination of ASID, STOKEN, or enclave token was specified in the parameter list.						
200	(C8)	X'E'		0	IRAQRYCN_RETURN_CODE_14	"14"
IRAEVPL.821: Return code 16 will be passed to the caller of SYSEVENT QRYCONT if there is additional resource contention information available						

IRAEVPL mapping

Table 837. Structure IRAQRYCN_PARMLIST (continued)

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
200	(C8) X'10'		0	IRAQRYCN_RETURN_CODE_16	"16" IRAEVPL.957: Return code 18 will be passed to the caller of SYSEVENT QRYCONT if an invalid version, length, or eye catcher was specified in the parameter list
200	(C8) X'12'		0	IRAQRYCN_RETURN_CODE_18	"18" IRAEVPL.992: Return code 20 will be passed to the caller of SYSEVENT QRYCONT if an invalid request type was specified in the parameter list
200	(C8) X'14'		0	IRAQRYCN_RETURN_CODE_20	"20" IRAEVPL.848: Contention caused by SYSEVENT ENQHOLD Standard
200	(C8) X'1'		0	IRAQRYCN_CONTENTION_ID_STD_ENQHOLD	"1" IRAEVPL.883: Contention caused by SYSEVENT ENQHOLD Short time promotion
200	(C8) X'2'		0	IRAQRYCN_CONTENTION_ID_STP_ENQHOLD	"2" IRAEVPL.892: Contention caused by Chronic resource contention service IWCNTN
200	(C8) X'3'		0	IRAQRYCN_CONTENTION_ID_CNTN	"3" IRAEVPL.946: Eyecatcher of query contention parmlist
200	(C8) X'D9C1D8'		0	IRAQRYCN_EYE_CATCHER_VALUE_0T03	"C'IRAQ'" This is the first 4-byte segment of an 8-byte constant.
200	(C8) X'E8C3D5'		0	IRAQRYCN_EYE_CATCHER_VALUE_4T07	"C'RYCN'" This is the second 4-byte segment of an 8-byte constant. IRAEVPL.499: Parmlist length value
200	(C8) X'D0'		0	IRAQRYCN_LENGTH_VALUE	"208" IRAEVPL.982: Parmlist version 01
200	(C8) X'1'		0	IRAQRYCN_VERSION_01	"1" IRAEVPL.1022: Request type 'All' returns contention information for Standard EnqHolds, Short time EnqHolds, and Chronic resource contentions
200	(C8) X'0'		0	IRAQRYCN_REQTYPE_ALL	"0" IRAEVPL.1013: Request type 'EnqHold' returns contention information for Standard EnqHolds and Short time EnqHolds
200	(C8) X'1'		0	IRAQRYCN_REQTYPE_ENQHOLD	"1" IRAEVPL.1031: Request type 'CNTN' returns contention information for Chronic resource contentions
200	(C8) X'2'		0	IRAQRYCN_REQTYPE_CNTN	"2"
200	(C8) X'D0'		0	IRAQRYCN_PARMLIST_LEN	"*-IRAQRYCN_PARMLIST"

Table 838. Cross Reference for IRAEVPL

Name	Offset	Hex Tag
IRAENCASSOC_FUNCTION_ASSOC	2	1
IRAENCASSOC_FUNCTION_CODE	0	
IRAENCASSOC_FUNCTION_DISASSOC	2	2
IRAENCASSOC_PARMLIST	0	
IRAENCASSOC_PARMLIST_LEN	2	18
IRAENCASSOC_RETURN_CODE_04	2	4
IRAENCASSOC_RETURN_CODE_10	2	10
IRAENCASSOC_RSV1	1	
IRAENCSTATE_FUNCTIONCODE	0	
IRAENCSTATE_IDLE	0	1
IRAENCSTATE_NONIDLE	0	2
IRAENCSTATE_PARMLIST	0	
IRAENCSTATE_PARMLIST_LEN	0	4
IRAENQHR_ASID	48	
IRAENQHR_ETOKEN	0	
IRAENQHR_FLAGS	44	
IRAENQHR_FLAGS_RHTERM	44	80
IRAENQHR_FUNCTION	40	
IRAENQHR_FUNCTION_STANDARD	54	0
IRAENQHR_FUNCTION_STP	54	1
IRAENQHR_MAXREQUESTTYPE	54	3
IRAENQHR_NOWORKUNITINFO	54	0
IRAENQHR_PARMLIST	0	
IRAENQHR_PARMLIST_LEN	54	58
IRAENQHR_RETURN_CODE_08	54	8
IRAENQHR_RETURN_CODE_10	54	A
IRAENQHR_RETURN_CODE_12	54	C
IRAENQHR_RETURN_CODE_14	54	E
IRAENQHR_RETURN_CODE_16	54	10
IRAENQHR_SHORT_TIME	54	3
IRAENQHR_STOKEN	4C	
IRAENQHR_SUBSYS	14	
IRAENQHR_SUBSYSNAME	18	
IRAENQHR_SUBSYSREQUEST	20	
IRAENQHR_SUBSYSTEMINFO	54	2
IRAENQHR_TCBPTR	8	
IRAENQHR_TOKEN	C	
IRAENQHR_WORKUNITINFO	54	1
IRAENQHR_WORKUNITINFORMATION	0	
IRAQRYCN_ASID	C	
IRAQRYCN_CI_RECORD	28	
IRAQRYCN_CONTENTION_ID	3C	
IRAQRYCN_CONTENTION_ID_CNTN	C8	3
IRAQRYCN_CONTENTION_ID_STD_ENQHOLD	C8	1
IRAQRYCN_CONTENTION_ID_STP_ENQHOLD	C8	2
IRAQRYCN_CONTENTION_INFORMATION	28	
IRAQRYCN_COUNT	40	
IRAQRYCN_CST	34	
IRAQRYCN_ETOKEN	18	

IRAEVPL mapping

Table 838. Cross Reference for IRAEVPL (continued)

Name	Offset	Hex Tag
IRAQRYCN_EYE_CATCHER	0	
IRAQRYCN_EYE_CATCHER_VALUE_0T03	C8	D9C1D8
IRAQRYCN_EYE_CATCHER_VALUE_4T07	C8	E8C3D5
IRAQRYCN_LEN	8	
IRAQRYCN_LENGTH_VALUE	C8	D0
IRAQRYCN_NUM_OF_CI_ENTRIES	E	
IRAQRYCN_PARMLIST	0	
IRAQRYCN_PARMLIST_LEN	C8	D0
IRAQRYCN_QUERY_CONTENTION	0	
IRAQRYCN_REQTYPE	20	
IRAQRYCN_REQTYPE_ALL	C8	0
IRAQRYCN_REQTYPE_CNTN	C8	2
IRAQRYCN_REQTYPE_ENQHOLD	C8	1
IRAQRYCN_RETURN_CODE_04	C8	4
IRAQRYCN_RETURN_CODE_08	C8	8
IRAQRYCN_RETURN_CODE_10	C8	A
IRAQRYCN_RETURN_CODE_12	C8	C
IRAQRYCN_RETURN_CODE_14	C8	E
IRAQRYCN_RETURN_CODE_16	C8	10
IRAQRYCN_RETURN_CODE_18	C8	12
IRAQRYCN_RETURN_CODE_20	C8	14
IRAQRYCN_STOKEN	10	
IRAQRYCN_SUBSYS	28	
IRAQRYCN_SUBSYSNAME	2C	
IRAQRYCN_VERSION	A	
IRAQRYCN_VERSION_01	C8	1

Chapter 222. IRAICSM Information

IRAICSM Programming Interface Information

IRAICSM is a programming interface.

IRAICSM Heading Information

Common Name: System Resource Manager Installation Control Specification Symbol Table Entry Mapping Macro

Macro ID: IRAICSM

DSECT Name: ICSM

Owning Component: SRM (SC1CX)

Eye-Catcher ID: None

Storage Attributes: Main Storage: N/A
Virtual Storage: N/A
Auxiliary Storage: N/A
Subpool: Storage must be non-pageable
Key: IWMRCOLL caller's key
Residency: N/A

Size: 48 Bytes (per ICSM entry)

Created by: As a result of IWMRCOLL invocation

Pointed to by: ICSMNDX is located within the RCAAICSS by adding an offset located in RCAAICSX to the start of RCAAICSS (the ICSMNDX contains an array of offsets). ICSM is located within the RCAAICSS by adding an offset located in RCAAICSM to the start of RCAAICSS. To access a particular PGN, the ICSMNDX(PGN) offset must also be added in.

Serialization: None

Function: The ICSM element contains information related to each unique performance group specified in the installation control specification parmlib member. The information is the subsystem name, transaction name, userid, transaction class, or service class name. If the data is unavailable, the field contains zeros. If multiple symbolic names are associated with the same performance group, the field contains blanks. An array is used to index into this table. The first index is for performance group 1. The last index is for the highest performance group number specified in the installation control specification. If a performance group is not specified, the index value is zero.

IRAICSM mapping

Table 839. Structure ICSM

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

IRAICSM mapping

Table 839. Structure ICSM (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
0	(0)	CHARACTER		4	ICSMSUBN	SUBSYSTEM NAME
4	(4)	CHARACTER		10	ICSMTRXN	TRANSACTION NAME
14	(E)	CHARACTER		10	ICSMUSR	USERID
24	(18)	CHARACTER		10	ICSMCLS	TRANSACTION CLASS
34	(22)	CHARACTER		10	ICSMRVC	SERVICE CLASS (SRVCLASS)
44	(2C)	BITSTRING		1	ICSMFLAG	FLAGS
		1... ..			ICSMACTN	"BIT0" ACCOUNT NUMBER SPECIFIED FOR PGN IN ICS
45	(2D)	BITSTRING		3	ICSMRSVD	RESERVED
48	(30)	SIGNED		4	ICSMEND(0)	END OF ICSM
48	(30)	X'30'		0	ICSMLN	"ICSMEND-ICSM" LENGTH OF ICSM

Table 840. Cross Reference for IRAICSM

Name	Offset	Hex Tag
ICSM	0	
ICSMACTN	2C	80
ICSMCLS	18	40404040
ICSMEND	30	
ICSMFLAG	2C	0
ICSMLN	30	30
ICSMRSVD	2D	0
ICSMRVC	22	40404040
ICSMSUBN	0	40404040
ICSMTRXN	4	40404040
ICSMUSR	E	40404040

Chapter 223. IRALPDAT Information

IRALPDAT Programming Interface Information

IRALPDAT is a programming interface.

IRALPDAT Heading Information

Common Name: Sysevent REQLPDAT parameter list
Macro ID: IRALPDAT
DSECT Name: LPDAT
Owning Component: System Resource Manager (SC1CX)
Eye-Catcher ID: None
Storage Attributes: Subpool: caller-defined, must be fixed
Key: 0
Residency: Between 16M and 2G
Size: See assembly listing
Created by: Caller of SYSEVENT REQLPDAT
Pointed to by: Register 1 on entry to SYSEVENT REQLPDAT
Serialization: None
Function: Maps data returned by SYSEVENT REQLPDAT (Request LPAR Data).
If the caller is running with z/OS V1.2 or lower system, the caller is required to invoke SYSEVENT REQRSMST to determine whether REQLPDAT sysevent is supported by the system.
The area returned by REQLPDAT consists of an area mapped by DSECT LPDATMAP and zero or more contiguous areas each mapped by DSECT LPDatServiceTableEntryMap.
The only input to REQLPDAT is field LPDATLEN in the parameter area. You must set LPDATLEN to the length of the provided parameter area before invoking the REQLPDAT SYSEVENT. You should either
o set LPDATLEN to 0,
o set LPDATLEN using equate LPDATPARMLENGTH and provide a parameter area that has a size of at least LPDATPARMLENGTH bytes, or
o obtain a sufficiently large parameter area of more than LPDATPARMLENGTH bytes and set LPDATLEN accordingly.
The parameter area contains variable data and its length can change at any time, not just with a new release of z/OS. Therefore, you must check the return code from REQLPDAT. If the input LPDATLEN value is smaller than the needed size of the parameter area, then the SYSEVENT will return with return code 4. In this case,
o the system will set the LPDATLEN field to the actual needed length of the parameter area.
o You must call REQLPDAT again with a parameter area that is at least LPDATLEN bytes long, making sure that the LPDATLEN field indicates the length of the area
On return the caller can inspect LpDatVer field to determine which fields have been filled in.

IRALPDAT mapping

IRALPDAT mapping

Table 841. Structure LPDATMAP

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	LPDATMAP	
0	(0)	CHARACTER	4	LPDATINOUT(0)	IRALPDAT.417: Input/Output fields
0	(0)	SIGNED	4	LPDATLEN	IRALPDAT.422: Length of area. If SYSEVENT REQLPDAT fails with return code of 4, this field can be examined to obtain correct size of the parameter list
4	(4)	CHARACTER	176	LPDATOUT(0)	IRALPDAT.428: Output fields for version 4
4	(4)	BITSTRING	1	LPDATVER	IRALPDAT.431: Version
5	(5)	BITSTRING	1	LPDATFLAGS(0)	IRALPDAT.437: flags
		1...		LPDATDEFCAPSET	"X'80'" IRALPDAT.443: Partition is set with defined capacity. Data contained in LpDatDefCapData section is valid
		.1..		LPDATDEFCAPDATAVALID	"X'40'" IRALPDAT.3: Data contained in LpDatDefCapData section is valid
6	(6)	SIGNED	2		IRALPDAT.449: Reserved
8	(8)	SIGNED	4	LPDATCECCAPACITY	IRALPDAT.455: CEC CPU capacity in millions of service units per hour
12	(C)	CHARACTER	8	LPDATIMGLOGICALPARTITIONNAME	IRALPDAT.461: Logical partition name
20	(14)	SIGNED	4	LPDATIMGCAPACITY	IRALPDAT.467: Logical partition CPU capacity in millions of service units per hour
24	(18)	SIGNED	4	LPDATPHYCPUADJFACTOR	IRALPDAT.473: Physical CPU adjustment factor (i.e. adjustment factor for converting CPU time to equivalent service in basic-mode with all processors online)
28	(1C)	SIGNED	4	LPDATCUMWEIGHT	IRALPDAT.479: Cumulative weight of the image since IPL for the local partition
32	(20)	SIGNED	4	LPDATWEIGHTACCUMCOUNTER	IRALPDAT.485: Number of times the current weight is accumulated
36	(24)	CHARACTER	60	LPDATDEFCAPDATA(0)	IRALPDAT.491: The following data section is available if the system provides licensing information. This is the case if the system is running in LPAR mode

Table 841. Structure LPDATMAP (continued)

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
36	(24)	SIGNED	4	LPDATAVGIMGSERVICE	IRALPDAT.494: Long-term average CPU service used by this logical partition, in millions of service units per hour. If this value is above the partition's defined capacity, the partition will be capped.
40	(28)	BITSTRING	8	LPDATCUMUNCAPPEDELAPESEDTIME	IRALPDAT.500: Cumulative uncapped elapsed time since defined capacity for the local partition was established, in micro seconds. Only valid if a defined capacity limit was specified
48	(30)	BITSTRING	8	LPDATCUMCAPPEDELAPESEDTIME	IRALPDAT.506: Cumulative capped elapsed time since defined capacity for the local partition was established, in micro seconds. Only valid if a defined capacity limit was specified
56	(38)	SIGNED	4	LPDATSERVICETABLEENTRYINTERVAL	IRALPDAT.512: Approximate time interval (in seconds) for each entry in the service table
60	(3C)	SIGNED	4	LPDATSERVICETABLEOFFSET	IRALPDAT.518: Offset from the beginning of the LPDatMap area. The Service Table Entries area consists of contiguous entries each mapped by DSECT LPDatService- eTableEntryMap. The number of entries is contained in field LPDatService- eTableEntries. Access the first entry by adding the value in LPDatService- eTableOffset to the address of the LPDatMap area.
64	(40)	SIGNED	4	LPDATSERVICETABLEENTRYLENGTH	IRALPDAT.524: Length of one service table entry
68	(44)	SIGNED	4	LPDATSERVICETABLEENTRIES	IRALPDAT.530: Number of service entries in the service table
72	(48)	CHARACTER	8	LPDATCAPACITYGROUPNAME	IRALPDAT.33: all partitions which have the same CapacityGroupName build the capacity group
80	(50)	SIGNED	4	LPDATCAPACITYGROUPMSULIMIT	IRALPDAT.309: The group limit in million service units per hour (MSU)
84	(54)	BITSTRING	8	LPDATGROUPJOINEDTOD	IRALPDAT.378: Timestamp when this lpar has joined its group (last change of group name)

IRALPDAT mapping

Table 841. Structure LPDATMAP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
92	(5C)	SIGNED	4	LPDATIMGMSULIMIT	IRALPDAT.85: Capacity in millions of service units per hour which is derived from defined capacity and group capacity
96	(60)	CHARACTER	76	LPDATINSTALLEDCAPDATA(0)	IRALPDAT.69: The following data section is always available with version 4 of the parameter area, but it contains non-zero data only on hardware that supplies this data. For more details about this data see the description in "Store System Information" in manual "z/Architecture Principles of Operation".
96	(60)	CHARACTER	16	LPDATMODELCAPIIDENT	IRALPDAT.72: The 16-character (0-9 or uppercase A-Z) EBCDIC model-capacity identifier of the configuration. The identifier is left-justified with trailing blank characters if necessary. Valid only if the first word of LPDatModel is zero.
112	(70)	CHARACTER	16	LPDATMODEL	IRALPDAT.319: The 16-character (0-9 or uppercase A-Z) EBCDIC model identifier of the configuration. The identifier is left-justified with trailing blank characters if necessary. Valid only if the first word is not zero. Otherwise field LPDatModelCapIdent represents both the model-capacity identifier and the model.
128	(80)	CHARACTER	16	LPDATMODELPERMCAPIDENT	IRALPDAT.108: The 16-character (0-9 or uppercase A-Z) EBCDIC model-permanent capacity identifier of the configuration. The identifier is left-justified with trailing blank characters if necessary. Valid only if non-zero.
144	(90)	CHARACTER	16	LPDATMODELTEMPCAPIDENT	IRALPDAT.276: The 16-character (0-9 or uppercase A-Z) EBCDIC model-temporary capacity identifier of the configuration. The identifier is left-justified with trailing blank characters if necessary. Valid only if non-zero.

Table 841. Structure LPDATMAP (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
160	(A0)	SIGNED		4	LPDATMODELCPRATING	IRALPDAT.282: When non-zero, an unsigned integer whose value is associated with the model capacity as identified by the model-capacity identifier. There is no formal description of the algorithm used to generate this integer.
164	(A4)	SIGNED		4	LPDATMODELPERMCPRATING	IRALPDAT.277: When non-zero, an unsigned integer whose value is associated with the model-permanent capacity as identified by the model-permanent- capacity identifier. There is no formal description of the algorithm used to generate this integer.
168	(A8)	SIGNED		4	LPDATMODELTEMPCPRATING	IRALPDAT.293: When non-zero, an unsigned integer whose value is associated with the model-temporary capacity as identified by the model-temporary- capacity identifier. There is no formal description of the algorithm used to generate this integer.
172	(AC)	BITSTRING		1	LPDATGROUPUNUSEDSCALEFACTOR	IRALPDAT.301: The scaling factor for the unused group capacity which part of the service table.
173	(AD)	CHARACTER		7	LPDATRESERVED	IRALPDAT.536: Reserved for future use
180	(B4)	CHARACTER		1	LPDATEND1(0)	IRALPDAT.542: End on a word boundary
180	(B4)	X'B4'		0	LPDATMAP_LEN	"*-LPDATMAP"

Table 842. Structure LPDATSERVICETABLEENTRYMAP

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
0	(0)	STRUCTURE		0	LPDATSERVICETABLEENTRYMAP	
0	(0)	SIGNED		4	LPDATSERVICEUNCAPPED	IRALPDAT.560: Basic-mode service units accumulated while the partition was uncapped.
4	(4)	SIGNED		4	LPDATSERVICEUNCAPPEDTIME	IRALPDAT.566: Elapsed time that the partition was uncapped, in 1.024 millisecond units
8	(8)	SIGNED		4	LPDATSERVICECAPPED	IRALPDAT.572: Basic-mode service units accumulated while the partition was capped.
12	(C)	SIGNED		4	LPDATSERVICECAPPEDTIME	IRALPDAT.578: Elapsed time that the partition was capped, in 1.024 millisecond units.
16	(10)	SIGNED		4	LPDATSERVICEUNUSEDGROUPCAPACITY	

IRALPDAT mapping

Table 842. Structure LPDATSERVICETABLEENTRYMAP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					IRALPDAT.324: Service units which would be allowed by the group capacity limit but are not consumed by the members of the group.
		IRALPDAT.630: Version 1			
16	(10)	X'1'	0	LPDATVER1	"1"
		IRALPDAT.16: Version 2			
16	(10)	X'2'	0	LPDATVER2	"2"
		IRALPDAT.44: Version 3 (additional fields) @LGCL2			
16	(10)	X'3'	0	LPDATVER3	"3"
		IRALPDAT.49: Version 4 (additional fields)			
16	(10)	X'4'	0	LPDATVER4	"4"
		IRALPDAT.639: Current Version			
16	(10)	X'4'	0	LPDATCURVER	"4"
		IRALPDAT.648: Service completed successfully			
16	(10)	X'0'	0	LPDATRCOK	"0"
		IRALPDAT.335: Parameter list is too small to contain current version data			
16	(10)	X'4'	0	LPDATRCTOOSMALL	"4"
		IRALPDAT.657: Current required length of Parameter list			
16	(10)	X'474'	0	LPDATPARMLENGTH	"1140"
16	(10)	X'14'	0	LPDATSERVICETABLEENTRYMAP_LEN	"*-LPDATSERVICETABLEENTRYMAP"

Table 843. Cross Reference for IRALPDAT

Name	Offset	Hex Tag
LPDATAVGIMGSERVICE	24	
LPDATCAPACITYGROUPMSULIMIT	50	
LPDATCAPACITYGROUPNAME	48	
LPDATCECCAPACITY	8	
LPDATCUMCAPPEDELAPESEDTIME	30	
LPDATCUMUNCAPPEDELAPESEDTIME	28	
LPDATCUMWEIGHT	1C	
LPDATCURVER	10	4
LPDATDEFCAPDATA	24	
LPDATDEFCAPDATAVALID	5	40
LPDATDEFCAPSET	5	80
LPDATEND1	B4	
LPDATFLAGS	5	
LPDATGROUPJOINEDTOD	54	
LPDATGROUPUNUSEDSCALEFACTOR	AC	
LPDATIMGCAPACITY	14	
LPDATIMGLOGICALPARTITIONNAME	C	

Table 843. Cross Reference for IRALPDAT (continued)

Name	Offset	Hex Tag
LPDATIMGMSLIMIT	5C	
LPDATINOUT	0	
LPDATINSTALLEDCApdata	60	
LPDATLEN	0	
LPDATMAP	0	
LPDATMAP_LEN	B4	B4
LPDATMODEL	70	
LPDATMODELCAPIIDENT	60	
LPDATMODELCAPRATING	A0	
LPDATMODELPERMCAPIIDENT	80	
LPDATMODELPERMCAPRATING	A4	
LPDATMODELTEMPCAPIIDENT	90	
LPDATMODELTEMPCAPRATING	A8	
LPDATOUT	4	
LPDATPARMLENGTH	10	474
LPDATPHYCPUADJFACTOR	18	
LPDATRCOK	10	0
LPDATRTOOSMALL	10	4
LPDATRESERVED	AD	
LPDATSERVICECAPPED	8	
LPDATSERVICECAPPEDTIME	C	
LPDATSERVICECABLEENTRIES	44	
LPDATSERVICECABLEENTRYINTERVAL	38	
LPDATSERVICECABLEENTRYLENGTH	40	
LPDATSERVICECABLEENTRYMAP	0	
LPDATSERVICECABLEENTRYMAP_LEN	10	14
LPDATSERVICECABLEOFFSET	3C	
LPDATSERVICEUNCAPPED	0	
LPDATSERVICEUNCAPPEDTIME	4	
LPDATSERVICEUNUSEDGROUPCAPACITY	10	
LPDATVER	4	
LPDATVER1	10	1
LPDATVER2	10	2
LPDATVER3	10	3
LPDATVER4	10	4
LPDATWEIGHTACCUMCOUNTER	20	

IRALPDAT mapping

Chapter 224. IRAOUCBX Information

IRAOUCBX Heading Information

Common Name: Resources Manager User Control Block Extension
 Macro ID: IRAOUCBX
 DSECT Name: Oucbx,OucbS,OucbSamples,OucbReptSamples
 Owing Component: SYSTEMS RESOURCE MANAGER (SC1CX)
 Eye-Catcher ID: OUCBS
 SOS
 RSOS
 Offset: OUCBS - 0 in OucbS
 SOS - 124 in OucbSamples
 RSOS - 124 in OucbReptSamples
 Length: OUCBS - 8 bytes
 SOS - 4 bytes
 RSOS - 4 bytes
 Storage Attributes: Main Storage: ESQA
 Subpool: 245
 Key: 0
 Residency: Above 16M line
 Size: 1152 bytes
 Created by: IRAEVMEM, IRARMERR
 Pointed to by: None
 Serialization: SRM lock, Compare and Swap (CS) instruction
 Function: This block contains address-space related data needed by SRM. It is contained within the OUCB and the length of the OUCB includes the storage required for this block.

IRAOUCBX mapping

Table 844. Structure OUCBX

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
0	(0)	STRUCTURE		1408	OUCBX	
0	(0)	CHARACTER		128	OUCB_CACHELINE3	3rd cache line of OUCB
0	(0)	ADDRESS		4	OUCBAPRQ	Address of record chain for APPC service requests
4	(4)	UNSIGNED		4	OUCBRSTB	BASE TIME FOR PAGE RES SECS
8	(8)	BITSTRING		8	OUCBEJST	Elapsed job step time for reduced preemption - elapsed jobstep time at first sample of sample cycle stored from the ASCBEJST
16	(10)	BITSTRING		8	OUCBSWPC	FIELD FOR SWAP PG CTS
16	(10)	SIGNED		4	OUCBPSO	PAGES SWAPPED AT LAST SWAPOUT
20	(14)	SIGNED		4	OUCBWSS	WORKING SET SIZE SWAP-IN
24	(18)	UNSIGNED		4	OUCBHOLD	HOLD COUNT
28	(1C)	UNSIGNED		4	OUCBOUTT	Time user should stay swapped out
32	(20)	SIGNED		4	OUCBFIX	CNT OF REQUIRED FIXED/LSQA

IRAUCBX mapping

Table 844. Structure OUCBX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
36	(24)	SIGNED	4	OUCBHSUM	BASE VALUE FOR HIPERSPACE PAGE-IN COUNT
40	(28)	SIGNED	4	OUCBCSUM	BASE VALUE FOR CACHE READ MISS COUNT
44	(2C)	UNSIGNED	2	OUCBCFCT	Number of samples taken to determine average central storage usage
46	(2E)	UNSIGNED	2	OUCBSWCB	short wait count base, base for ascbswct
48	(30)	UNSIGNED	4	OUCBWKTM	Time that work unit entered MVS system in SRM time format
52	(34)	SIGNED	4	OUCBSRRC	Count of Sysplex Router Registrations for space
56	(38)	UNSIGNED	4	OUCBPGTB	Base value for pages paged and pages moved that is updated when a point is plotted for this address space
60	(3C)	UNSIGNED	4	OUCBAUXB	Base value for auxiliary pages paged that is updated when a point is plotted for this address space
64	(40)	UNSIGNED	4	OUCBRESB	Base value for resident time that is updated when a point is plotted for this address space
68	(44)	UNSIGNED	4	OUCBPGIB	Base value for the count of pages paged in that is updated when a point is plotted for this address space
72	(48)	UNSIGNED	4	OUCBPU2B	Base value for pages paged and pages moved that is updated every RM2 interval if the address space is managed.
76	(4C)	SIGNED	4	OUCBBPIN	Base value for block page-in count
80	(50)	SIGNED	4	OUCBBPNE	Base value for block page-in from expanded count (ESA Mode Only, do not use in z/OS)
84	(54)	SIGNED	4	OUCBPINE	Base value for page-in from expanded count (ESA Mode Only, do not use in z/OS)
88	(58)	SIGNED	4	OUCBBKIA	Base value for blocks in aux count
92	(5C)	SIGNED	4	OUCBBKIE	Base value for blocks in expanded count (ESA Mode Only, do not use in z/OS)
96	(60)	SIGNED	2	OUCBSWFC	SWAP IN FAIL COUNT
98	(62)	SIGNED	2	OUCBSFEC	SWAP IN FAIL EVALUATION COUNT
100	(64)	SIGNED	2	OUCBSEEC	SWAP TO EXTENDED EVALUATION FAILURE COUNT
102	(66)	SIGNED	2	OUCBMTRM	COUNT OF TERMWAITES DETECTED BY MS6
104	(68)	ADDRESS	4	OUCBSQFP	secondary oucb queue forward pointer
108	(6C)	ADDRESS	4	OUCBSQBP	secondary oucb queue back pointer

Table 844. Structure OUCBX (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
112	(70)	ADDRESS		4	OUCBSPTR	Pointer to OUCBS sampling data
116	(74)	ADDRESS		4	OUCBSAMPLESPTR	Address of set-of-samples section
120	(78)	ADDRESS		4	OUCBREPTSAMPLESPTR	Address of reporting set-of-samples section
124	(7C)	UNSIGNED		4	OUCBXSPECIALFULLPREEMPTTIME	Time, when the OucbxSpecialFullPreempt flag was set or reset
128	(80)	CHARACTER		128	OUCB_CACHELINE4	4th cache line of OUCB
128	(80)	CHARACTER		8	OUCBXSFMF30EXPPAGERESIDENCYTIME	Page seconds for expanded storage, SMF30 interval (ESA Mode Only, do not use in z/OS)
136	(88)	CHARACTER		8	OUCBXDECPUTIMEFORWM1	CPU time, STCK format, accumulated by dependent enclaves owned by this space but not yet rolled up by WM1
144	(90)	UNSIGNED		2	OUCBXSERVINSTLIMIT	Architectural limit for the number of server instances per server which can be supported by the application
146	(92)	UNSIGNED		2	OUCBXSERVINSTINITIAL	Number of server instances started by WLM if this is the first server which binds to a work queue
148	(94)	UNSIGNED		2	OUCBSERVINSTCAPACITY	Maximum number of server instances, also the maximum number of concurrent IWMSEL requests
150	(96)	CHARACTER		2	*	reserved
152	(98)	ADDRESS		4	OUCBWORKQTOKEN	Server Environment Address Space Queue Entry pointer or 7FFFF000
156	(9C)	UNSIGNED		4	OUCBWAITTIMEBASE	Base for I/O wait time (ouxbwait)
160	(A0)	UNSIGNED		4	OUCBUSINGTIMEBASE	Base for I/O using time (ouxbcon + ouxbdisc)
164	(A4)	BITSTRING		1	OUCBWLMF	WLM flags, name used in IPCS formatter
		1... ..			OUCBXSPECIALFULLPREEMPT	Special full preemption requested via the FULLPRE sysevent
		.1.. ..			OUCBXMFT	Space target of xmem page faults during this policy interval
		..1.			OUCBXNOPR	If off, the address space is eligible for full preemption. The bit is copied to bit ASCBNOPR in module IRACPSRP depending on OPT parms and other conditions.
		...1			*	reserved

IRAUCBX mapping

Table 844. Structure OUCBX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		OUCBXWASHIDP	If on, indicates this address space was created with the ASCRE HIPRI attribute, aka oucbhidp was once on. Must be off unless the space is a started task.
		.... .1..		OUCBXRESTARTTRANATSWAPIN	An active transaction was stopped while the space was swapped out. Since some of the bookkeeping required cannot be completed until swap in, this will tweak the behavior in restore complete (RSTORCMP).
		.... ..1.		OUCBXWASPRIV	If on, indicates that in the absence of classification rules that specifically classify this space it would be privileged.
		.... ...1		OUCBXOLDPREEMPTION	Value of AscBNopr when the hidp attribute was removed due to classification of a started task. Meaningless for address spaces that were never hidp.
165	(A5)	CHARACTER	3	*	reserved
168	(A8)	UNSIGNED	4	OUCBXENCSSCHCOUNT	Start subchannel count for completed independent enclaves. Only start subchannels whose times are included in connect, disconnect, and wait measurement are included.
172	(AC)	SIGNED	4	OUCBXFIX_B2G	Count of fixed frames in between the 16M and 2G lines @64BITSRM
176	(B0)	UNSIGNED	1	OUCBESVP	expanded storage access policy for vio (ESA Mode Only, do not use in z/OS)
177	(B1)	UNSIGNED	1	OUCBESHP	expanded storage access policy for hiperspace (ESA Mode Only, do not use in z/OS)
178	(B2)	UNSIGNED	1	OUCBESTP	expanded storage access policy for swap trim (ESA Mode Only, do not use in z/OS)
179	(B3)	UNSIGNED	1	OUCBSONA	# of times a swap-out was not attempted due to lack of resources
180	(B4)	UNSIGNED	4	OUCBMDEL	MPL delay suffered over the current transaction
184	(B8)	UNSIGNED	4	OUCBSWSA	swap working set size accumulator including both primary and secondary working sets (accumulated at swap in time in goal mode)
188	(BC)	UNSIGNED	4	OUCBSWSC	swap working set count - count of working set sizes accumulate in OUCBSWSA
192	(C0)	UNSIGNED	4	OUCBESB1	UIC-expanded bucket 1 (ESA Mode Only, do not use in z/OS)

Table 844. Structure OUCBX (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
196	(C4)	UNSIGNED		4	OUCBESB2	UIC-expanded bucket 2 (ESA Mode Only, do not use in z/OS)
200	(C8)	UNSIGNED		4	OUCBESB3	UIC-expanded bucket 3 (ESA Mode Only, do not use in z/OS)
204	(CC)	UNSIGNED		4	OUCBESB4	UIC-expanded bucket 4 (ESA Mode Only, do not use in z/OS)
208	(D0)	UNSIGNED		4	OUCBAXPU	Base value for pages paged to aux that is updated when a point is plotted for this address space
212	(D4)	UNSIGNED		4	OUCBPLAB	Base for OUXBPIN to determine number of aux page faults per departure from the current period. For period paging plot.
216	(D8)	SIGNED		4	OUCBEFS	accumulated samples of RAXESCT for determining the average expanded storage allocated for an RM2 interval (ESA Mode Only, do not use in z/OS)
220	(DC)	UNSIGNED		4	OUCBSDAC	Swap delay accumulator
224	(E0)	SIGNED		4	OUCBAPDS	Saved copy of private area paging delay samples
228	(E4)	SIGNED		4	OUCBTMPS	Accumulated time address space is swap in processor storage
232	(E8)	SIGNED		4	OUCBTMCT	Count of times the address space is moved from being swapped in processor storage to aux
236	(EC)	SIGNED		4	OUCBTMSD	Start of time address space is delayed for a swap in from aux
240	(F0)	SIGNED		4	OUCBTMRD	Start of time an address space is experiencing MPL delay
244	(F4)	UNSIGNED		4	OUCBTMC	TIME OF SWAPOUT STAT CHG
248	(F8)	UNSIGNED		4	OUCBXREGISTRATIONCOUNT	number of active registrations owned by this address space
252	(FC)	CHARACTER		4	OUCBCRM	Chronic resource contention management related info
252	(FC)	BITSTRING		1	OUCBCRMFLAGS	CRM status flags
			1... ..		OUCBCRMPROA	CRM promotion caused by A/S resource holder
			.1.. ..		OUCBCRMPROE	CRM promotion caused by enclave resource holder
			..1.		OUCBCRMI	CRM promotion was on during PA interval
			...1		OUCBCRMR	CRM promotion was on during RA interval
			.... 1111		*	For future use
253	(FD)	UNSIGNED		1	OUCBCRMDP	CRM calculated dispatch priority
254	(FE)	UNSIGNED		2	OUCBCRMPROPAGATEDCOUNT	Number of propagated CRM promotions
256	(100)	CHARACTER		128	OUCB_CACHELINE5	5th cache line of OUCB
256	(100)	UNSIGNED		4	OUCBIATK	WLM Classification token from first INITATT sysevent
260	(104)	UNSIGNED		4	OUCBLRPS	RRPATOD last time in RPS
264	(108)	CHARACTER		1	OUCBQID	current queue id

IRAUCBX mapping

Table 844. Structure OUCBX (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
265	(109)	CHARACTER		1	OUCBPQID	previous queue id
266	(10A)	CHARACTER		1	OUCBIQFL	invalid queue flags
267	(10B)	BITSTRING		1	OUCBSMSK	Mask which represents which subsystem this job belongs to (see IWMAIFL mapping)
268	(10C)	UNSIGNED		4	OUCBPINB	policy count base for ouxbpin
272	(110)	UNSIGNED		4	OUCBPINT	policy time base for ouxbpin
276	(114)	UNSIGNED		4	OUCBTAXB	Base for blocked/unblocked page-in from aux (rm2 plotting interval)
280	(118)	UNSIGNED		4	OUCBVHDB	Base for vio & hiperspace page-in from aux (per departure)
284	(11C)	UNSIGNED		4	OUCBVHPB	Base for vio & hiperspace page in from aux (rm2 plotting interval)
288	(120)	UNSIGNED		4	OUCBVHUB	Base for vio & hiperspace aux page units
292	(124)	UNSIGNED		4	OUCBEXIB	Base for OUXBPINE (ESA Mode Only, do not use in z/OS)
296	(128)	UNSIGNED		4	OUCBEXOB	Base for OUXBPOTE (ESA Mode Only, do not use in z/OS)
300	(12C)	UNSIGNED		4	OUCBCRMB	Base for OUXBCRMS (cache hiperspace read miss count
304	(130)	UNSIGNED		1	OUCBCPUS	Number of CPUs currently running work in this space. Must be recomputed before each use!
305	(131)	CHARACTER		1	OUCBFLGX	More WLM Flags
		1... ..			OUCBACFL	Flag indicating MPL and SWAP delay is being accumulated during period switch. ON = accumulation should not be retried after abend.@0W23722
		.1..		*		Reserved
		..1.		*		Reserved
		...1		*		Reserved
		.... 1...			OUCBXSTGPROTNOW	Address space is currently storage-protected. If on, implies that the address space is running in a single period service class that does not have short response time goals _and_ either the space was assigned storage protection explicitly via a classification rule or the space is serving CICS/IMS transactions whose service class was assigned storage protection via a CICS/IMS classification rule
		.... .1..			OUCBXSTGCRIT_SPECIFIED_EXPLICIT	Address space was assigned explicit storage protection, meaning it matched a classification rule which specified storage-critical=yes.

Table 844. Structure OUCBX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ..1.		OUCBXIGNORETRXNSSPECIFIED	Address space is exempt from being a transaction server. It matched a classification rule which specified manage region to goals = Region. There is no equivalent ...now bit, SRM always observes this setting.
		.... ...1		OUCBTRXMGMTBOTHSPECIFIED	Address space matched a classification rule which specified "Manage Region Using Goals Of BOTH". Which means it is managed towards the velocity goal of the region. But, transaction completions are reported and used for management of the transaction service classes with response time goals. This option should only be used with CICS TORs, the associated AORs should remain at the default "Manage Region Using Goals Of TRANSACTION".
306	(132)	UNSIGNED	2	OUCBPROPAGATEDENQHOLD	Count of Enqholds propagated to the address space because of enclave tasks
308	(134)	UNSIGNED	4	OUCBTMF	time that the first swap-out was attempted for a reqswap/tswp/fixed storage shortage swap
312	(138)	SIGNED	4	OUCBEUB1	Unadjusted expanded uic bucket 1 (ESA Mode Only, do not use in z/OS)
316	(13C)	SIGNED	4	OUCBEUB2	Unadjusted expanded uic bucket 2 (ESA Mode Only, do not use in z/OS)
320	(140)	SIGNED	4	OUCBEUB3	Unadjusted expanded uic bucket 3 (ESA Mode Only, do not use in z/OS)
324	(144)	SIGNED	4	OUCBEUB4	Unadjusted expanded uic bucket 4 (ESA Mode Only, do not use in z/OS)
328	(148)	CHARACTER	1	OUCBWM2	Flags
		1...		OUCBDFRR	Dequeued by IRARMERR
		.1..		OUCBEFRR	Enqueued by IRARMERR
		..1.		OUCBGFRR	Getmained by IRARMERR
		...1		OUCBWSMT	WSM last set protective processor storage target
		.... 1...		OUCBMDAC	Indicates that the mpl delay for this space has been accumulated
		.... .1..		OUCBSSPS	Shared page second base (ouchspss) is non-zero
		.... ..1.		OUCBRSNS	OUCBNSWI bit set by SRM recovery

IRAUCBX mapping

Table 844. Structure OUCBX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ...1		OUCBPSRB	Preemptible SRB time attributable to this address space (AssbAsst) is non-zero
329	(149)	BITSTRING	1	OUCBWL2F	Flags used by WL2, clustered in one byte to reduce pathlength in service calculations
		1...		OUCBPSRV	Transaction service preemptible SRB time base (ouxbrps) is non-zero
		.1..		OUCBXDEPENCLTIMEEXISTS	Dependent enclave CPU time exists that may not have been merged into the owning address space's CPU time.
		..11 1111		*	reserved
330	(14A)	UNSIGNED	2	OUCBXDEPENCLCOUNT	Summary count of number of dependent enclaves owned by this address space. Halfword is enough as long as enclave pseudoids are limited to a halfword
332	(14C)	ADDRESS	4	OUCBENCH	Header of the ENCB queue owned by this address space
336	(150)	ADDRESS	4	OUCBENCL	Trailer of the ENCB queue owned by this address space
340	(154)	ADDRESS	4	OUCBETIM	Accumulate tx active time of completed enclaves owned by this space
344	(158)	ADDRESS	4	OUCBECPU	Accumulate CPU service of completed enclaves owned by this space
348	(15C)	BITSTRING	8	OUCBECPT	Accumulate total CPU time of completed enclaves owned by this space (STCK format)
356	(164)	ADDRESS	4	OUCBETRC	Accumulate transaction counts of completed enclaves owned by this space
360	(168)	CHARACTER	16	OUCBENQMANAGEMENT	Enq related info
360	(168)	BITSTRING	2	OUCBENQFLAGS	Enq status flags
		1...		OUCBENQP	Increase CPU DP for enqueue promotion
		.1..		OUCBPROA	Enqueue promotion due to A/S EnqHold
		..1.		OUCBPROE	Enqueue promotion due to enclave EnqHold
		...1		OUCBCQHASBEENCORRUPTED	Context queue had invalid elements
360	(168)	BITSTRING	1	*	For future use
362	(16A)	UNSIGNED	2	OUCBNQC	Number of enqueue hold elements in OUCB context queue
364	(16C)	SIGNED	4	OUCBNQT	ENQ residency start time
368	(170)	SIGNED	4	OUCBENQCPUTIMECONSUMEDBASE	Reference value to calculate OUCBEnqCPUtimeConsumed. 1.024 milliseconds unit@WLMPEMG

Table 844. Structure OUCBX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
372	(174)	SIGNED	4	OUCBENQCPUTIMECONSUMED	CPU time consumed for and A/S or Job while enqueue promoted. 1.024 milliseconds unit@WLMPEMG
376	(178)	CHARACTER	8	OUCBCONTEXTQUEUE	Queue of context elements
376	(178)	ADDRESS	4	OUCBCONTEXTQUEUEHEAD	address of 1st element in queue
380	(17C)	ADDRESS	4	OUCBCONTEXTQUEUETAILED	address of last element in queue
384	(180)	CHARACTER	128	OUCB_CACHELINE6	6th cache line of OUCB
384	(180)	ADDRESS	4	OUCBGR LU	Address of the Generic Resource LU Object
388	(184)	SIGNED	4	OUCB_RAW_SERVICE_ACCUM	Raw service accumulator. Note: This field is provided on a 10 second policy interval basis to represent the raw service (CPU & SRB) accumulated in the current policy interval. This field is cleared each time IRAPASDC is invoked
392	(188)	ADDRESS	4	OUCB_BPAH	Pointer to address space buffer pool header if address space has ever owned buffer pools
396	(18C)	SIGNED	4	OUCBFRAMESTOBESTOLENBYRSM	Number of frames that RSM is requested to steal from this address space
400	(190)	BITSTRING	8	OUCBSPSS	Shared page seconds
408	(198)	ADDRESS	4	OUCBXJAFBADDR	Pointer to Jafb sect
412	(19C)	UNSIGNED	4	OUCBX_RSTORCMP_TIME	Time when the address space came in (End of RSTORCMP).
416	(1A0)	BITSTRING	8	OUCBASST	Base Preemptable SRB time used in AP1, loaded from AssbAsst.
424	(1A8)	BITSTRING	8	OUCBSRST	Shared page residency time (central storage)
432	(1B0)	ADDRESS	4	OUCBSCLS	Service class & report class is saved during tso logon termination through change period to SRMG00D class
432	(1B0)	UNSIGNED	2	OUCBSSCI	goal mode: Workload reporting saved service class index
434	(1B2)	UNSIGNED	2	OUCBSRCI	goal mode: Workload reporting saved report class index
436	(1B4)	CHARACTER	8	OUCBETCBQ	DHDTC queue of IRAETCBs
436	(1B4)	ADDRESS	4	OUCBETCBFIRST	First ETCB on queue
440	(1B8)	ADDRESS	4	OUCBETCBLAST	Last ETCB on queue
444	(1BC)	CHARACTER	8	OUCBXDETOTALCPUTIME	CPU time, STCK format, accumulated by all completed dependent enclaves owned by this space during its current transaction as in CASE
452	(1C4)	UNSIGNED	2	OUCBSCPI	Service Class Period Index. Used by IOS as an index into the IOSDSCMT. Matches spte_number in the spte pointed to by OucbSpte. 0 is not a valid index.
454	(1C6)	CHARACTER	2	*	

IRAUCBX mapping

Table 844. Structure OUCBX (continued)

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
456	(1C8)	UNSIGNED	4	OUCBXIEIOCONNECTTIME	Sum of EncbCon for all completed independent enclaves, smf 30 interval
460	(1CC)	UNSIGNED	4	OUCBXIEIODISCONNECTTIME	Sum of EncbDisc for all completed independent enclaves, smf 30 interval
464	(1D0)	UNSIGNED	4	OUCBXIEIOWAITTIME	Sum of EncbWait for all completed independent enclaves, smf 30 interval
468	(1D4)	UNSIGNED	4	OUCBXIESSCHCOUNT	Sum of EncbIoSC for all completed independent enclaves, smf 30 interval
472	(1D8)	UNSIGNED	4	OUCBXDEIOCONNECTTIME	Sum of EncbCon for all completed dependent enclaves, smf 30 interval
476	(1DC)	UNSIGNED	4	OUCBXDEIODISCONNECTTIME	Sum of EncbDisc for all completed dependent enclaves, smf 30 interval
480	(1E0)	UNSIGNED	4	OUCBXDEIOWAITTIME	Sum of EncbWait for all completed dependent enclaves, smf 30 interval
484	(1E4)	UNSIGNED	4	OUCBXDESSCHCOUNT	Sum of EncbIoSC for all completed dependent enclaves, smf 30 interval
488	(1E8)	SIGNED	2	OUCBXPERFORMVALUE	Contains the value passed for the PERFORM= keyword. This value is preserved across a mode switch and is used during Goal Mode classification.
490	(1EA)	BITSTRING	2	OUCBXFLAGS	
		1...		OUCBXRESETBEFOREINITIATION	On if JobSelect passed in a RESET SRVCLASS for a batch job that would be used to override classification.
		.1..		OUCBXRESETAFTERINITIATION	On if address space was reset while it was running.
		..1.		OUCBXOPERATORFORCEDINITIATION	On if JobSelect said that the initiation was forced upon JES, e.g. via \$SJ
		...1		OUCBXJOBREINCARNATED	On if job has been restarted
		.... 1..		OUCBXSYST	System task, that is, the PPT and/or SCHEDxx specified SYST and it passed allocation checks.
		.... .1..		OUCBXHASREMOTESYSTEMDATA	This address space has Remote System Data. The data exists either at the address space level or at an owned original enclave level.
		.... ..1.		OUCBXREMOTESYSTEMDATAINCOMPLETE	

Table 844. Structure OUCBX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					Indicates the address space Remote System Data is not complete for the following reasons: Premature Undo Export - Subsystem deletes the enclave before the Undo Export - There are outstanding Imports (determined by WLM) at Undo Export time
		.... 1		OUCBXCANCEL	indicates that sysevent CANCEL was issued
491	(1EB)	1... ..		OUCBXNONCANCELABLE	The address space is non cancelable. In the PPT and/or SCHEDxx the NOCANCEL keyword is specified for the program
		.1... ..		OUCBX_RGROUP_TRICKLE	the AS was non-dispatchable when it should have gotten trickles @ME28059C
		..11 ..		*	reserved @ME28059C
		.... 1111		*	reserved
492	(1EC)	UNSIGNED	4	OUCBXDEENQCPUTIMECONSUMED	Sum of CPU time consumed while enqueue promoted for all completed dependent enclaves.
496	(1F0)	UNSIGNED	4	OUCBENQCPUTIMECONSUMEDI	Interval CPU time consumed while enqueue promoted. 1.024 milliseconds unit@WLMPEM2
500	(1F4)	BITSTRING	1	OUCBIRSWFLAGS	REALSWAP / TRANSWAP (ESAME mode) flags. See also REALSWAP / TRANSWAP sysevent, where the phase is explained.
		1... ..		OUCBGENERICIRS	The flag is set when a REALSWAP or Transwap request is passed to RCT (Phase R-P2 and T-P2).
		.1... ..		OUCBREALSWAPINRSM	The flag is set when a REALSWAP request is passed to RCT (R-P2) The address space should be logically swapped while this bit is on. Memory of the current realswap request moves from oucbirsw to here when RCT is told to execute it.
		..1.		OUCBTRANSWAPINRSM	The flag is set when a TRANSWAP request is passed to RCT (T-P2) The address space should be logically swapped while this bit is on. Memory of the current transwap request remains in oucbtwsp.
		...1		*	reserved
		.... 1...		OUCBXNOIARYBLSWCALL	Do not call in Realswap Type=Complete the RSM module IARYBLSW.

IRAUCBX mapping

Table 844. Structure OUCBX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
	....	.1..		OUCBREALSWAREDRIVE	This flag is set when a REALSWAP request has failed in RSM. The flag stays on while SRM redrives the request.
	....	..1.		OUCBTRANSWAREDRIVE	This flag is set when a TRANSWARE request has failed in RSM. The flag stays on while SRM redrives the request. 1@ME23305D
501	(1F5)	UNSIGNED	1	OUCBXOUCBSRCSAVE	Saved value of OUCBSRC during a REALSWAP
502	(1F6)	CHARACTER	1	*	Reserved
503	(1F7)	BITSTRING	1	OUCBXRAXSWAPREASON	This fields saves the RAX information, as long the REALSWAP is pending.
504	(1F8)	UNSIGNED	4	OUCBIRST	RRPATOD last time in REALSWAP
508	(1FC)	UNSIGNED	4	OUCBREALSWAREPRSMFAILEDTIME	Save the time when RCT notified SRM that RSM was unable to complete a REALSWAP or TRANSWARE in memory. Usually set in sysevent realswap,type=completion but can also be set via quiesce fail if the failure occurred while such a request was in progress. The TRANSWARE or REALSWAP fail flag is set simultaneously.
512	(200)	CHARACTER	0	*	fill up cache line
512	(200)	CHARACTER	128	OUCB_CACHELINE7	7th cache line of OUCB
512	(200)	SIGNED	4	OUCBXCLSFPRIORITY	Subsystem priority used for classification purposes, in binary format. Contains hexadecimal 80000000 if the subsystem did not provide a priority.
516	(204)	UNSIGNED	4	OUCBXQUEUEETIME	Duration of time work was eligible for execution. 1.024 millisecond units. Passed into JobSelect. Hex 0s if not supplied. OS390 R4 JES2 with reformatted spool is the first supplier.
520	(208)	UNSIGNED	4	OUCBXJCLCONVERSIONTIME	Duration of JCL conversion for batch job. 1.024 millisecond units. Passed into JobSelect. Hex 0s if not supplied. OS390 R4 JES2 with reformatted spool is the first supplier.
524	(20C)	UNSIGNED	4	OUCBXSYSORRESAFFTIME	Duration that batch job was ineligible for execution on every system in the MAS due to resource or system affinity. 1.024 millisecond units. Passed into JobSelect. Hex 0s if not supplied. OS390 R4 JES2 with reformatted spool is the first supplier.

Table 844. Structure OUCBX (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
528	(210)	UNSIGNED		4	OUCBXINELIGIBLETIME	Duration that batch job was ineligible for execution on every system in the MAS for reasons other than affinities. Examples: job hold, job class hold. TYPRUN=HOLD and TYPRUN=JCLHOLD times are excluded from all of these times. 1.024 millisecond units. Passed into JobSelect. Hex 0s if not supplied. OS390 R4 JES2 with reformatted spool is the first supplier.
532	(214)	CHARACTER		16	OUCBXSCHEDENV	Resource affinity scheduling environment requested in the JCL, or 00x if none was supplied
548	(224)	UNSIGNED		4	OUCBXEQUBATCHQDELAY	Equivalent batch queue delay samples.
552	(228)	UNSIGNED		4	OUCBXTOTALSERVICEBASE	Base for total service used by address space over a policy interval
556	(22C)	UNSIGNED		4	OUCBXIOWAITTIMEINTVBASE	Interval base for OUXBWAIT
560	(230)	UNSIGNED		4	OUCBXIOCONTIMEINTVBASE	Interval base for OUXBCON
564	(234)	UNSIGNED		4	OUCBXIOCOUNTIMEINTVBASE	Interval base for OUXBIOOSC
568	(238)	UNSIGNED		4	OUCBXIODISCTIMEINTVBASE	Interval base for OUXBDISC
572	(23C)	UNSIGNED		4	OUCBXIOSQTIMEINTVBASE	Interval base for OucbxIosQtime
576	(240)	ADDRESS		4	OUCBXCRRB	Pointer to CRRB for address space
580	(244)	ADDRESS		4	OUCBXCRA	Pointer to CRA
584	(248)	BITSTRING		8	OUCBCAPB	Base value for captured CPU time that is updated when a point is plotted for this address space.
592	(250)	UNSIGNED		4	OUCBXREMOTESERVICE	The number of service units consumed by multisystem dependent enclaves on other systems. Maintained in goal mode only.
596	(254)	ADDRESS		4	OUCBXREMOTESYSTEMDATAPTR	Pointer to the Foreign Enclave AcctData(FEAD) which is used for SMF30 data reporting
600	(258)	UNSIGNED		4	OUCBXLATCHCOUNT	Latch count that indicates whether address space is holding any latches
604	(25C)	UNSIGNED		4	OUCBXPERIODSTARTREMOTESERVICE	Amount of remote service attributed to starting the address space's current period
608	(260)	UNSIGNED		4	OUCBXARRIVALTIMESTCKWORD1	Time that work unit entered MVS system - STCK format, 1st word only
612	(264)	UNSIGNED		4	OUCBX_CONNTIME_BASE	RM2 interval base for OUXBCONN
616	(268)	CHARACTER		8	OUCBXSUBSYSTEMCOLLECTIONNAME	

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Table 844. Structure OUCBX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					Subsystem collection name corresponding to IWMCLSFY SUBCOLN value. For JES2/JES3, MAS/JESplex name. Blanks for other address spaces.
624	(270)	BITSTRING	4	OUCBX_GMI_F1	Flags
		1... ..		OUCBX_STCR_CHSK	Indicates, that storage critical housekeeping was the last who has set the central storage protective target
		.1.. ..		OUCBX_STCR_PHSK	Indicates, that storage critical housekeeping was the last who has set the processor storage protective target
		..1.		OUCBX_PA_PCS_TAR	Indicates, that policy adjustment was the last who has set the central storage protective target
		...1		OUCBX_PA_PPS_TAR	Indicates, that policy adjustment was the last who has set the processor storage protective target
624	(270)	BITSTRING	3	*	Reserved
628	(274)	UNSIGNED	4	OUCBX_PPS_CHANGETIME	Time of last processor protective storage target setting
632	(278)	UNSIGNED	4	OUCBX_PCS_CHANGETIME	Time of last central protective storage target setting
636	(27C)	UNSIGNED	4	OUCBX_QSCEST_TIME	Time when the OUCBQSS flag was set.
640	(280)	CHARACTER	128	OUCB_CACHELINE8	8th cache line of OUCB
640	(280)	BITSTRING	8	OUCBX_BASE_SERVTIME_ON_PRO(2)	base for service time calculation for special processor work
656	(290)	BITSTRING	8	OUCBX_BASE_SERVTIME_PRO_ON_CP(2)	base for service time calculation for special processor work that runs on a regular CP
672	(2A0)	CHARACTER	8	*	reserved
680	(2A8)	UNSIGNED	4	OUCBXPROTRXSERVICEUNITS(2)	accumulator for special processor transaction service units
688	(2B0)	BITSTRING	8	OUCBXDEPENCPROTIMEFORWM1(2)	special processor time spent for enclaves owned by this space but not yet rolled up by WM1
704	(2C0)	UNSIGNED	2	OUCBXPRESS	express user bits
		1... ..		OUCBCRMP	CRM promotion process is active
704	(2C0)	BITSTRING	1	*	reserved for future
706	(2C2)	BITSTRING	8	OUCBX_TIME_AT_PDP	time at promotion DP

Table 844. Structure OUCBX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
714	(2CA)	BITSTRING	8	OUCBX_TIME_AT_PDP_BASE	Base for time at promotion DP (STCK format)
722	(2D2)	CHARACTER	2	*	reserved for future
724	(2D4)	UNSIGNED	4	OUCBX_TIME_AT_PDP_LEFTOVER	time at prom. DP not yet converted
728	(2D8)	CHARACTER	8	*	Reserved
736	(2E0)	UNSIGNED	2	OUCBNQC_STANDARD	EnqHold counter for standard enqueue promotion
738	(2E2)	UNSIGNED	2	OUCBNQC_SHORTTIME	EnqHold counter for short time enqueue promotion
740	(2E4)	SIGNED	4	OUCBNQT_SHORTTIME	Start time of promotion interval for short time enqueue promotion
744	(2E8)	SIGNED	4	OUCBX403TOTFRAMES	Frame count at the time, the address space was selected to resolve the storage shortage.
744	(2E8)	SIGNED	4	OUCBX203TOTFRAMESSLOTS	Frame + slot count at the time, the address space was selected to resolve the axilliary shortage.
748	(2EC)	SIGNED	4	OUCBX403TOTFIXED	Fixed frame count at the time address space was selected to resolve the storage shortage.
748	(2EC)	SIGNED	4	OUCBX203RATE	Slot allocation rate at the time the address space is selected to resolve the AUX shortage.
752	(2F0)	BITSTRING	1	OUCBXX03FLAGS	Flag bits
		1...		OUCBX403REQUIRED	Set when the address space is selected to resolve a fixed storage shortage. The message is defered to swap out complete.
		.1...		OUCBX203REQUIRED	Set when the address space is selected to resolve a fixed storage shortage. The message is defered to swap out complete.
753	(2F1)	BITSTRING	1	OUCBFXSREASON	Reason why OUCBFXS and which shortage was already resolved
		1111		OUCBFXSRSV4	Reserved
		.... 1...		OUCBFXSBETWEEN16M2G	Between 16M and 2G
		.... .1..		OUCBFXSBELOW16M	Below 16M
		.... ..1.		OUCBFXSALL	In all real frames
		.... ...1		OUCBFXSDREF	In DREF and Fixed
754	(2F2)	CHARACTER	2	*	reserved for future
756	(2F4)	CHARACTER	4	*	reserved for future
760	(2F8)	CHARACTER	8	OUCBXSTEPSTARTTIME	Step start time used to calculate the in storage time
768	(300)	CHARACTER	128	OUCB_CACHELINE9	
768	(300)	CHARACTER	64	OUCBEWLMDATA	Block for EWLM Data
768	(300)	CHARACTER	8	OUCBEWLMTCBTIME	Total TCB time since address space started
776	(308)	CHARACTER	8	OUCBEWLMSRBTIME	Total SRB time since address space started
784	(310)	CHARACTER	16	OUCBEWLMPID	EWLM Process ID
800	(320)	BITSTRING	4	OUCBEWLMLFLAGS	EWLM flag bits

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Table 844. Structure OUCBX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		OUCBEWLMISARMREGED	Address space registered with ARM
		.1..		OUCBEWLMISEWLMAGENT	Address space has connected as EWLM managed svr@WLMPEW2
		..1.		OUCBEWLMARMNOTACTIVE	ARM has been disabled while this address space was registered with ARM
		...1		OUCBEWLMENCCONNYES	The workmanager connected with EWLM=YES
		.... 1...		OUCBEWLMWASDISABLED	ARM disable was issued during the lifetime of this address space while AS was registered with ARM. This bit will never be turned off until AS terminates
804	(324)	CHARACTER	8	OUCBEWLMTASKRM	Task RESMGR token
812	(32C)	CHARACTER	8	OUCBEWLMASRM	AS RESMGR token
820	(334)	CHARACTER	12	OUCBEWLMRESERVED	Reserved for EWLM
832	(340)	BITSTRING	8	OUCBX_BA_AS_TTIME_BASE	Base for balancer AS calculations
840	(348)	BITSTRING	8	OUCBX_BA_AS_IFA_TIME_BASE	Base for balancer AS IFA calculations
848	(350)	BITSTRING	8	OUCBXENCSTIMEQUAL	Qualified SUP time of enclaves owned by this space
856	(358)	BITSTRING	8	OUCBXDEPENCSUPTIMEQUAL	Qualified SUP time of dependent enclaves owned by this space
864	(360)	BITSTRING	8	OUCBX_BA_AS_IOC_TIME_BASE	Base for balancer AS IFA on CP calculations@WLMPECL
872	(368)	BITSTRING	8	OUCBX_BA_AS_SUP_TIME_BASE	Base for balancer AS SUP calculations
880	(370)	BITSTRING	8	OUCBX_BA_AS_SOC_TIME_BASE	Base for balancer AS SUP on CP calculations@LVCMZIA
888	(378)	CHARACTER	8	*	fill up cache line
896	(380)	CHARACTER	128	OUCB_CACHELINE10	
896	(380)	BITSTRING	8	OUCBX_TIME_ON_PRO(2)	Time spent for work running on special processor, in service units scaled with 2**20
912	(390)	BITSTRING	8	OUCBX_TIME_PRO_ON_CP(2)	Time spent on CP for special processor work, in service units scaled with 2**20
928	(3A0)	BITSTRING	8	OUCBX_TIME_ON_PRO_BASE(2)	Base for processor time calculation (STCK format)
944	(3B0)	BITSTRING	8	OUCBX_TIME_PRO_ON_CP_BASE(2)	Base for Processor_On_CP time calculation (STCK format)
960	(3C0)	BITSTRING	8	OUCBXENCTIMEONPRO(2)	Time of completed enclaves owned by this space
976	(3D0)	BITSTRING	8	OUCBXDEPENCTIMEONPRO(2)	Time of completed dependent enclaves owned by this space
992	(3E0)	BITSTRING	8	OUCBXENCTIMEPROONCP(2)	Processor_On_CP time of completed enclaves owned by this space
1008	(3F0)	BITSTRING	8	OUCBXDEPENCTIMEPROONCP(2)	Processor_On_CP time of dependent enclaves owned by this space

Table 844. Structure OUCBX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1024	(400)	CHARACTER	128	OUCB_CACHELINE11	
1024	(400)	BITSTRING	8	OUCBXTASKTIMEONCP	Time of TASK MODE on CP
1032	(408)	BITSTRING	8	OUCBXS RBTIMEONCP	Time of SRB MODE on CP
1040	(410)	BITSTRING	8	OUCBCPUL	Accumulate scaled CPU service
1048	(418)	BITSTRING	8	OUCBSRBL	Accumulate scaled SRB service
1056	(420)	BITSTRING	8	OUCBXRSTORFLTIME	Time the last RstorFl occured
1064	(428)	BITSTRING	1	OUCBXRSTORFLTYPE	Rstorfl type information
		1... ..		OUCBXRSTORFLTYPE1	Type=FramesNotRestored
1065	(429)	BITSTRING	1	OUCBXRSTORFLFLAG	Flags
		1... ..		OUCBXRSTORFLREDRIVE	Wait for redrive
1066	(42A)	CHARACTER	1	OUCBXRSTORFLRSV3	reserved
1067	(42B)	BITSTRING	1	OUCBXNSWDPREASON	Flags
		1... ..		OUCBXNSWDPREASONFIXED	Set non dispatchable, because system is in a pageable storage shortage
		.1... ..		OUCBXNSWDPREASONAUX	Set non dispatchable, because system is in a auxillary storage shortage
1068	(42C)	SIGNED	4	OUCBXRSTORFLRSV4	reserved
1072	(430)	CHARACTER	16	OUCBCRMCPUTIME	CRM fields
1072	(430)	SIGNED	4	OUCBCRMCPUTIMECONSUMEDBASE	Reference value to calculate OUCBCrmCPUtimeConsumed. 1.024 milliseconds unit@LENQP3I
1076	(434)	SIGNED	4	OUCBCRMCPUTIMECONSUMED	CPU time consumed for and A/S or Job while promoted due to resource contention. 1.024 milliseconds unit@LENQP3I
1080	(438)	UNSIGNED	4	OUCBXDECRMCPUTIMECONSUMED	Sum of CPU time consumed while promoted due to resource contention for all completed dependent enclaves.
1084	(43C)	UNSIGNED	4	OUCBCRMCPUTIMECONSUMEDI	Interval CPU time consumed while enqueue promoted. 1.024 milliseconds unit@LENQP3I
1088	(440)	BITSTRING	8	OUCBECPL	Accumulate scaled CPU service of completed enclaves owned by this space
1096	(448)	BITSTRING	8	OUCBMSOL	Accumulate scaled MSO service
1104	(450)	BITSTRING	8	OUCBTRSL	Accumulate scaled transaction service
1112	(458)	BITSTRING	8	OUCBWMSL	Interval service Accumulator long
1120	(460)	CHARACTER	16	*	reserved
1136	(470)	BITSTRING	8	OUCBCPUG	Interval CPU Service Accum long
1144	(478)	BITSTRING	8	OUCBSRBG	INTVL SRB SVCE ACCUM long
1152	(480)	CHARACTER	128	OUCB_CACHELINE12	Cache line reserved for Storage Monitoring
1152	(480)	BITSTRING	8	OUCBXSTMA	STMA pointer - 64bit pointer to move the STMA above 2G commom
1152	(480)	SIGNED	4	*	Higher half
1156	(484)	ADDRESS	4	OUCBXSTMA31	Pointer to STMA - Lower half
1160	(488)	SIGNED	4	OUCBXFIXEDINCVALUE	Fixed frame inc.

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Table 844. Structure OUCBX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1164	(48C)	SIGNED	4	OUCBXVIRTINCVALUE	Virtual increase
1168	(490)	SIGNED	4	*	
1172	(494)	SIGNED	4	*	
1176	(498)	SIGNED	4	*	
1180	(49C)	SIGNED	4	*	
1184	(4A0)	BITSTRING	8	OUCBX_IFA_TIME	IFA time for IRAEVREQ to get in synch. w. OUCBCPU in IRARMWL2
1192	(4A8)	BITSTRING	8	OUCBX_SUP_TIME	SUP time for IRAEVREQ to get in synch. w. OUCBCPU in IRARMWL2
1200	(4B0)	BITSTRING	8	OUCBX_IFACP_TIME	IFA on CP time for IRAEVREQ to get in synch. w. OUCBCPU in IRARMWL2
1208	(4B8)	BITSTRING	8	OUCBX_SUPCP_TIME	SUP on CP time for IRAEVREQ to get in synch. w. OUCBCPU in IRARMWL2
1216	(4C0)	BITSTRING	8	OUCBX_HDLOCKPROMOTION_TIME_AT_PDP	HD lock time at promotion DP
1224	(4C8)	BITSTRING	8	OUCBX_HDLOCK_TIME_AT_PDP_BASE	Base for HD lock time at PDP
1232	(4D0)	UNSIGNED	4	OUCBX_HDLOCK_TIME_AT_PDP_LEFTOVER	HD lock time at promotion DP not yet converted
1236	(4D4)	UNSIGNED	4	OUCBX_PROMOTIONBASE	Start time of A/S promotion in 1.024 millisecs
1240	(4D8)	SIGNED	4	OUCBX_PROMOTIONTIMEACCUM	Accumulated promotion time since last samples gathering invocation in 1.024 millisecs
1244	(4DC)	SIGNED	4	OUCBX_PROMOTIONADJF	Promotion adjustment factor. This is the proportion of the promotion time for the actual samples gathering interval * 1000
1248	(4E0)	UNSIGNED	4	OUCBX_TIMEOFLASTSAMPLESGATHERING	Invocation time of last samples gathering in 1.024 millisecs
1252	(4E4)	SIGNED	4	OUCBXHH_LOCK	Control word to serialize IWM4HLTH and IWM4QHLT calls
1256	(4E8)	CHARACTER	24	OUCBXHH	Health history
1256	(4E8)	UNSIGNED	4	OUCBXHH_UPDATE#	Update event counter of history queue
1260	(4EC)	UNSIGNED	2	OUCBXHH_ELEM#	Number of elements on the history queue
1262	(4EE)	BITSTRING	2	OUCBXHH_FLAGS	Flags
		1...		OUCBXHH_RESET	Current OucbHealthInd set by function=reset
1264	(4F0)	ADDRESS	8	OUCBXHH_ADDR	Address of queue with history elements, see / Oucbh_Elem
1272	(4F8)	CHARACTER	8	OUCBXHH_TIMEWHENRESET	Time when last reset of OucbHealthInd took place (STCK format)
1280	(500)	CHARACTER	128	OUCB_CACHELINE13	Cache line 13
1280	(500)	BITSTRING	8	OUCBX_VARTIME_AT_PDP	Time promoted to a variable dispatch priority by supervisor
1288	(508)	BITSTRING	8	OUCBX_VARTIME_AT_PDP_BASE	Base for time promoted to var DP

Table 844. Structure OUCBX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1296	(510)	BITSTRING	8	OUCBX_VARWEIGHTED_TIME_AT_PDP	Time promoted to variable dispatch priority by supervisor weighted by dispatch priority
1304	(518)	BITSTRING	8	OUCBX_VARWEIGHTED_TIME_AT_PDP_BASE	Base for time promoted to var DP weighted by dispatch priority
1312	(520)	BITSTRING	8	OUCBLPSS	Large page seconds
1320	(528)	BITSTRING	8	OUCBLRST	Large page residency time
1328	(530)	BITSTRING	4	OUCBX_BA_CI	HD control information area
1328	(530)	BITSTRING	2	OUCBX_BA_CIFLAGS	...Flags
		1...		OUCBX_BA_ASWASSPLIT	TCB sampling was active
1328	(530)	BITSTRING	1	*	reserved
1330	(532)	BITSTRING	2	*	reserved
1332	(534)	CHARACTER	76	*	reserved
1408	(580)	CHARACTER	0	OUCBXEND	end of OUCBX

Table 845. Structure OUCBS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	640	OUCBS	
0	(0)	CHARACTER	128	OUCBS_CACHELINE1	cache line of OUCB
0	(0)	CHARACTER	16	OUCBSHEADER	OUCBS header info
0	(0)	CHARACTER	8	OUCBSNAME	eyecatcher
8	(8)	UNSIGNED	1	OUCBSVER	Version id
9	(9)	CHARACTER	3	*	reserved
12	(C)	UNSIGNED	2	OUCBSLEN	length of OUCBS
14	(E)	CHARACTER	2	*	reserved
16	(10)	UNSIGNED	4	OUCBXIOCUQTTIMEINTVBASE	CUQT samps.
20	(14)	CHARACTER	1	OUCBFLGX2	More WLM Flags
		1...		*	Reserved
		.1..		OUCBXSERTASKSMANAGED	Flag that indicates whether the server instances for this address space are managed.
		..1.		*	Reserved
		...1		OUCBXVSDATACOLLECTED	Virtual Storage Data has been successfully collected
		.... 1...		OUCBXENDPERIOD	End of Period
		.... .111		*	Reserved
21	(15)	CHARACTER	3	*	Reserved
24	(18)	UNSIGNED	4	OUCBXIOSQTIME	IOS queue time from DASD. Note this time is converted from samples not directly measured. In 128 microsec units.@PSY0602
28	(1C)	UNSIGNED	4	OUCBXVSAVLBEL16MB	Percent of virtual storage available below 16MB line data is collected for queue servers with the managed tasks bit turned on only

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Table 845. Structure OUCBS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
32	(20)	UNSIGNED	4	OUCBXVSAVLAV16MB	Percent of virtual storage available above 16MB line data is collected for queue servers with the managed tasks bit turned on only
36	(24)	UNSIGNED	4	OUCBXLLOCKUTIL	Count which indicates how often the local lock was found util. data is collected for queue servers with the managed tasks bit turned on only
40	(28)	UNSIGNED	4	OUCBXINSTVSPLOT	Count which contains the number of active server instances found when the data for the virtual storage plots was obtained
44	(2C)	UNSIGNED	4	OUCBXINSTLLPLOT	Accumulator which is used to collect and calculate the avg. number of active server inst. for plotting local lock util.
48	(30)	UNSIGNED	4	OUCBDISCLEFTOVER	Remainder in Disc samples cal
52	(34)	UNSIGNED	4	OUCBDISCTIMEBASE	Disc Time Base
56	(38)	UNSIGNED	4	OUCBFDISTIMEBASE	FICON Disc Time Base
60	(3C)	UNSIGNED	4	OUCBDISCLEFTOVERSM	Remainder in Disc samples cal
64	(40)	UNSIGNED	4	OUCBDISCTIMEBASESM	Disc Time Base for sampling
68	(44)	UNSIGNED	4	OUCBFDISTIMEBASESM	FICON Disc Tm Base for samp
72	(48)	UNSIGNED	4	OUCBFMNOBASE	FMNO base
76	(4C)	UNSIGNED	4	OUCBCONTIMEBASE	connect time base
80	(50)	UNSIGNED	4	OUCBFWAITTIMEBASE	FICON wait time base
84	(54)	UNSIGNED	4	OUCBFMNOBASESM	FMNO base for sampling
88	(58)	UNSIGNED	4	OUCBCONTIMEBASESM	connect time base for sampling
92	(5C)	UNSIGNED	4	OUCBFWAITTIMEBASESM	FICON wait time base for sampling
96	(60)	UNSIGNED	4	OUCBXIOFMNOINTVBASE	FICON fmno interval base
100	(64)	UNSIGNED	4	OUCBXIOFWAITTIMEINTVBASE	FICON I/O wait time interval base
104	(68)	UNSIGNED	4	OUCBXIOFDISTIMEINTVBASE	FICON I/O disc. time interval base
108	(6C)	UNSIGNED	4	OUCBUSINGLEFTOVERSM	remainder in using samples calculation
112	(70)	UNSIGNED	4	OUCBWAITLEFTOVERSM	remainder in wait samples calculation
116	(74)	UNSIGNED	4	OUCBUSINGLEFTOVER	remainder in using samples calculation
120	(78)	UNSIGNED	4	OUCBWAITLEFTOVER	remainder in wait samples calculation
124	(7C)	UNSIGNED	4	OUCBXIOFCONTIMEINTVBASE	FICON I/O connect time interval base
128	(80)	CHARACTER	128	OUCBS_CACHELINE2	cache line of OUCB
128	(80)	UNSIGNED	2	OUCBSERVINSTACTIVE	Current number of server instances between IWMSTBGN (Begin) and IWMSTEND (End)
130	(82)	CHARACTER	2	*	reserved
132	(84)	UNSIGNED	4	OUCBFWAITTIMEBASESM	Base for I/O wait time, used by sampling

Table 845. Structure OUCBS (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
136	(88)	UNSIGNED		4	OUCBUSINGTIMEBASESM	Base for I/O using time, used by sampling
140	(8C)	ADDRESS		4	OUCBESMBPTR	Enclave Storage Management Block anchor or 7FFF000.
144	(90)	ADDRESS		4	OUCBSPT	SPT
148	(94)	ADDRESS		4	OUCBSHBP	Server history block ptr
152	(98)	ADDRESS		4	OUCBSXM1	sampling cross memory OUCB address 1
156	(9C)	ADDRESS		4	OUCBSXM2	sampling cross memory OUCB address 2
160	(A0)	ADDRESS		4	OUCBSXM	sampling cross memory exclude OUCB address
164	(A4)	CHARACTER		8	OUCBBUFFERPOOLTOKEN1	Buffer pool token whose delay samples are being kept in OucbBufferPool1
172	(AC)	CHARACTER		8	OUCBBUFFERPOOLTOKEN2	Buffer pool token whose delay samples are being kept in OucbBufferPool2
180	(B4)	CHARACTER		8	OUCBBUFFERPOOLTOKENEXCLUDE	Buffer pool token whose delay samples are being excluded from individual tracking
188	(BC)	BITSTRING		1	OUCBWL	WLM flags, name used in IPCS formatter
			1... ..		OUCBLSMP	Last sample complete
			.1.. ..		*	Reserved
			..1.		OUCBCPUR	Indicates the state sampler noted this space requesting CPU
			...1 1111		*	Reserved
189	(BD)	CHARACTER		1	OUCBSFLG	Flags used by sampling. Note that bits in this byte can be set by sampling without the SRM lock so any user of these flags must ensure proper serialization with sampling
			1... ..		OUCBXMSV	Sampling has saved this OUCB address as a target of xmem page faults. The OUCB must not be freemained while this bit is on
			.111 1111		OUCBRSV8	Reserved. Note see comment on OUCBSFLG before using
190	(BE)	UNSIGNED		2	OUCBASID	Address space ID
192	(C0)	CHARACTER		1	OUCBVALB	OUCB Valid Bits
			1... ..		OUCB_VALID_PB_SEEN	Valid PB seen bit, old field name is OUCBVAPB
			.1.. ..		OUCB_VALID_REPORTONLY_PB_SEEN	Valid report-only PB seen bit

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Table 845. Structure OUCBS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
	...1.			OUCB_VALID_BPMGMT_PB_SEEN	Valid buffer pool mgmt PB seen bit @ME21083A
	...1 1111			*	Reserved @ME21083C
193	(C1)	CHARACTER	3	*	reserved
196	(C4)	CHARACTER	16	OUCBWCFO	WLM Classification output area
196	(C4)	BITSTRING	4	OUCBWTKN	WLM Classification token
200	(C8)	ADDRESS	4	OUCBNSPT	WLM Service period pointer
204	(CC)	BITSTRING	4	OUCBXSRTOKEN	IWMCLSFY SRMTOKEN value
208	(D0)	ADDRESS	4	*	Reserved- was OUCBNSCT
212	(D4)	ADDRESS	4	OUCBSCTE	Pointer to the SCTE of the external class the address space is associated with.
216	(D8)	ADDRESS	4	OUCBXDAT	Address of XDAT for the address space or zero
220	(DC)	UNSIGNED	4	OUCBX_SERVTIME_LEFTOVER	service time to small to get converted to CPU usings
224	(E0)	UNSIGNED	4	OUCBX_CPU_SERVTIME_BASE	Base value for captured CPU time use for calculating CPU samples
228	(E4)	UNSIGNED	4	OUCBTEMPAFFINITYEXIST	Indicates whether temporal affinities are set or not.
232	(E8)	UNSIGNED	4	OUCBSERVINSTACTIVERGNWORK	Server instances active, aka between Begin and End for a IWMSEL request, processing region work.
236	(EC)	UNSIGNED	4	OUCBX_CPUU_AT_JOBEND	CPU using samples found when the step ends
240	(F0)	UNSIGNED	2	OUCBX_CPSRP_SAMP	total samples for this OUCB
242	(F2)	UNSIGNED	2	OUCBX_CPSRP_CUR_FP_SAMP	full pre. samples for this OUCB
244	(F4)	UNSIGNED	2	OUCBX_CPSRP_PREV_FP_SAMP	prev full pre. saml. for OUCB
246	(F6)	CHARACTER	2	*	Reserved
248	(F8)	UNSIGNED	4	OUCBXIEIOCUQTTIME	CUQT sampling
252	(FC)	UNSIGNED	4	OUCBXDEIOCUQTTIME	CUQT sampling
256	(100)	CHARACTER	128	OUCBS_CACHELINE3	Cache line reserved for EWLM samples
256	(100)	UNSIGNED	4	OUCBEWLMTIMESSAMPLED	Number of times this address space was sampled for EWLM
260	(104)	UNSIGNED	4	OUCBEWLMSERVTIMELO	Service time left from previous calculalation of CPU using samples
264	(108)	CHARACTER	40	OUCBEWLMTOTSAMPLES	AS total samples array
264	(108)	UNSIGNED	4	OUCBEWLMTOTCPUUSING	Total CPU using samples
268	(10C)	UNSIGNED	4	OUCBEWLMTOTCPUDELAY	Total CPU delay samples
272	(110)	UNSIGNED	4	OUCBEWLMTOTPAGEDELA	Total paging delay samples. This is the sum of private, common, VIO, hiperspace, shared and cross-memory paging from AUX storage
276	(114)	UNSIGNED	4	OUCBEWLMTOTIODELAY	Total DASD I/O Delay samples
280	(118)	UNSIGNED	4	OUCBEWLMTOTIDLE	Total idle samples
284	(11C)	UNSIGNED	4	OUCBEWLMTOTOTHER	Total other unknown samples
288	(120)	UNSIGNED	4	OUCBEWLMTOTIOUSING	Total DASD I/O Using samples
292	(124)	UNSIGNED	4	*(3)	Reserved for array
304	(130)	CHARACTER	70	OUCBEHIS	Enclave History

Table 845. Structure OUCBS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
304	(130)	UNSIGNED	4	OUCBEHIS_QTIME	Queue Time and
308	(134)	UNSIGNED	4	OUCBEHIS_ETIME	Elapsed Time of all ended enclaves of this space in the PA Int.
312	(138)	UNSIGNED	1	OUCBEHIS_LOW	index of entry with lowest long term average or of the first unused if not all in use
313	(139)	UNSIGNED	1	OUCBEHIS_HI	index of entry with highest long term average
314	(13A)	CHARACTER	6	OUCBEHIS_ENTRY(10)	One entry per service class if the space owned enclaves in that service class. Maximum the 10 SCs with the most enclaves
314	(13A)	SIGNED	2	OUCBEHIS_SC	Serv. Cl. number
316	(13C)	UNSIGNED	2	OUCBEHIS_A	# of enclaves this PA interval
318	(13E)	UNSIGNED	2	OUCBEHIS_LTA	long term average of enclaves
374	(176)	UNSIGNED	1	OUCBHEALTHIND	Health Indicator
375	(177)	CHARACTER	9	*	Reserved
384	(180)	CHARACTER	128	OUCBS_CACHELINE4	Cache line reserved for special processor sampling
-- Special processor (IFA,SUP) fields used to calculate processor usings from captured service times -----					
384	(180)	UNSIGNED	4	OUCBX_PRO_SERVTIME_LEFTOVER(2)	Time on processor that is not yet converted to usings
392	(188)	UNSIGNED	4	OUCBX_PRO_SERVTIME_BASE(2)	Base value for captured service time
400	(190)	UNSIGNED	4	OUCBX_PROCP_SERVTIME_LEFTOVER(2)	Time_on_cp that is not yet converted processor_on_CP usings
408	(198)	UNSIGNED	4	OUCBX_PROCP_SERVTIME_BASE(2)	Base value for captured processor_on_cp time
-- Special processor (IFA,SUP) samples found when jobstep ends -----					
416	(1A0)	UNSIGNED	4	OUCBX_PROU_AT_JOBEND(2)	processor using samples
424	(1A8)	UNSIGNED	4	OUCBX_PROCPU_AT_JOBEND(2)	processor_on_CP using samples
-- Blocked workloads (trickle) support -----					
432	(1B0)	UNSIGNED	4	OUCBX_AT_PDP_SERVTIME_LEFTOVER	time at promotion DP not yet converted to usings
436	(1B4)	UNSIGNED	4	OUCBX_AT_PDP_SERVTIME_BASE	Base value for time at PDP
440	(1B8)	UNSIGNED	4	OUCBX_TIME_AT_PDP_USING	time at prom. DP - samples
444	(1BC)	UNSIGNED	4	OUCBX_TIME_AT_PDP_USING_JOBEND	time at prom. DP - samples
448	(1C0)	UNSIGNED	4	OUCBX_AT_PDP_DELTA_TIME	time at prom. DP - delta
-- HD lock time at promotion DP -----					
452	(1C4)	UNSIGNED	4	OUCBX_HDLOCK_AT_PDP_SERVTIME_LEFTOVER	

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Table 845. Structure OUCBS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
456	(1C8)	UNSIGNED	4	OUCBX_HDLOCK_AT_PDP_SERVTIME_BASE	HD lock time at promotion DP not yet converted to usings Base value for HD lock time at PDP
460	(1CC)	UNSIGNED	4	OUCBX_HDLOCK_TIME_AT_PDP_USING	HD lock time at promotion DP - samples
464	(1D0)	UNSIGNED	4	OUCBX_HDLOCK_TIME_AT_PDP_USING_JOBEND	HD lock time at promotion DP - jobend
468	(1D4)	UNSIGNED	4	OUCBX_HDLOCK_AT_PDP_DELTA_TIME	HD lock time at promotion - DP - delta
-- Time promoted to a variable dispatch priority by supervisor -----					
472	(1D8)	UNSIGNED	4	OUCBX_VARTIME_AT_PDP_SERVTIME_LEFTOVER	Time promoted to a variable dispatch priority by supervisor
476	(1DC)	UNSIGNED	4	OUCBX_VARTIME_AT_PDP_SERVTIME_BASE	Base value for variable time at PDP
480	(1E0)	UNSIGNED	4	OUCBX_VARTIME_AT_PDP_DELTA_TIME	Variable time at promotion DP - delta
484	(1E4)	UNSIGNED	4	OUCBX_VARTIME_AT_PDP_USING_JOBEND	Variable time at promotion DP - usings
488	(1E8)	UNSIGNED	4	OUCBX_VARWEIGHTED_AT_PDP_SERVTIME_BASE	Base value for variable time at PDP
492	(1EC)	UNSIGNED	4	OUCBX_VARWEIGHTED_AT_PDP_DELTA_TIME	Variable time at promotion DP - delta
496	(1F0)	UNSIGNED	4	OUCBCUQTTIMEBASE	CUQT sampling
500	(1F4)	UNSIGNED	4	OUCBCUQTLEFTOVER	CUQT sampling
504	(1F8)	UNSIGNED	4	OUCBCUQTTIMEBASESM	CUQT sampling
508	(1FC)	UNSIGNED	4	OUCBCUQTLEFTOVERSM	CUQT sampling
-- New cacheline for future extensions in OucbS					
512	(200)	CHARACTER	128	OUCBS_CACHELINE5	
512	(200)	UNSIGNED	4	OUCBXIOTHROTIMEINTVBASE	Interval Bas
516	(204)	UNSIGNED	4	OUCBXIEIOTHROTIME	Independent
520	(208)	UNSIGNED	4	OUCBXDEIOTHROTIME	Dependent En
524	(20C)	UNSIGNED	4	OUCBTHROTIMEBASE	Time Base
528	(210)	UNSIGNED	4	OUCBTHROLEFTOVER	Left Overs
532	(214)	UNSIGNED	4	OUCBTHROTIMEBASESM	TB for sampl
536	(218)	UNSIGNED	4	OUCBTHROLEFTOVERSM	LO for sampl
540	(21C)	UNSIGNED	4	OUCBXIOCNTDIMEINTVBASE	Interval Bas
544	(220)	UNSIGNED	4	OUCBXIEIOCNTDIME	Independent
548	(224)	UNSIGNED	4	OUCBXDEIOCNTDIME	Dependent En
552	(228)	UNSIGNED	4	OUCBCNTDIMEBASE	Time Base

Table 845. Structure OUCBS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
556	(22C)	UNSIGNED	4	OUCBCNTDLEFTOVER	Left Overs
560	(230)	UNSIGNED	4	OUCBCNTDTIMEBASESM	TB for sampl
564	(234)	UNSIGNED	4	OUCBCNTDLEFTOVERSM	LO for sampl
568	(238)	CHARACTER	72	*	Reserved
640	(280)	CHARACTER	0	OUCBSEND	

Table 846. Structure OUCBSAMPLES

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	128	OUCBSAMPLES	
0	(0)	CHARACTER	128	OUCBSAMPLES_CACHELINE1	cache line of OUCB,
0	(0)	CHARACTER	124	OUCBSOS	set of state samples. Note new delays must be added before oucbxmo
0	(0)	UNSIGNED	4	OUCBIS	idle state
4	(4)	UNSIGNED	4	OUCBOUS	other unknown state
8	(8)	UNSIGNED	4	OUCBCU	cpu using
12	(C)	UNSIGNED	4	OUCBDASDIOUSING	DASD I/O using samples
16	(10)	UNSIGNED	4	OUCBIFAU	IFA using count
20	(14)	UNSIGNED	4	OUCBSUPU	SUP using count
24	(18)	UNSIGNED	4	OUCBCD	cpu delay
28	(1C)	UNSIGNED	4	OUCBAPPD	primary private area paging delay from aux
32	(20)	UNSIGNED	4	OUCBAPCD	common area paging delay from aux
36	(24)	UNSIGNED	4	OUCBAVD	vio delay from aux
40	(28)	UNSIGNED	4	OUCBASHD	scroll hiperspace delay from aux
44	(2C)	UNSIGNED	4	OUCBACHD	cache hiperspace delay from aux
48	(30)	UNSIGNED	4	OUCBASWD	Aux swap delay
52	(34)	UNSIGNED	4	OUCBMD	mpl delay
56	(38)	UNSIGNED	4	OUCBCCD	Address space delayed because it is in a resource group being capped
60	(3C)	UNSIGNED	4	OUCBASPD	Shared area paging delay from aux
64	(40)	UNSIGNED	4	OUCBDASDIODELAY	DASD I/O delay samples
68	(44)	UNSIGNED	4	OUCBWMQUEUEDELAY	Delay samples experienced while on WLM-managed work queue
72	(48)	UNSIGNED	4	OUCBENCLAVEPVTPAGING	Aux private paging delay samples experienced by enclave work units known to be associated with an address space
76	(4C)	UNSIGNED	4	OUCBENCLAVEVIOPAGING	Aux VIO paging delay samples experienced by enclave work units known to be associated with an address space
80	(50)	UNSIGNED	4	OUCBENCLAVEHSPAGING	Aux hiperspace paging delay samples experienced by enclave work units known to be associated with an address space
84	(54)	UNSIGNED	4	OUCBENCLAVEMPLDELAY	MPL delay samples experienced by enclaves known to be associated with an address space

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Table 846. Structure OUCBSAMPLES (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
88	(58)	UNSIGNED	4	OUCBENCLAVESWAPDELAY	Swap-in delay samples experienced by enclaves known to be associated with an address space
92	(5C)	UNSIGNED	4	OUCBIFADL	IFA delay count
96	(60)	UNSIGNED	4	OUCBSUPDL	SUP delay count
----- Add new non-xmem-type delays before OucbPxmo ---					
100	(64)	UNSIGNED	4	OUCBPXM0	cross memory other address space paging delay from aux.
104	(68)	UNSIGNED	4	OUCBBUFFERPOOLOTHERDELAY	Buffer pool delay samples not due to the buffer pools that are being individually tracked
108	(6C)	UNSIGNED	4	OUCBPXM1	cross memory address space 1 paging delay from aux
112	(70)	UNSIGNED	4	OUCBPXM2	cross memory address space 2 paging delay from aux
116	(74)	UNSIGNED	4	OUCBBUFFERPOOL1DELAY	Buffer pool delay samples due to the buffer pool identified by OucbBufferPoolToken1
120	(78)	UNSIGNED	4	OUCBBUFFERPOOL2DELAY	Buffer pool delay samples due to the buffer pool identified by OucbBufferPoolToken2
124	(7C)	CHARACTER	4	OUCBSOS_NAME	eyecatcher 'SOS '

Table 847. Structure OUCBREPTSAMPLES

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	128	OUCBREPTSAMPLES	
0	(0)	CHARACTER	128	OUCBREPTSAMPLES_CACHELINE1	cache line of OUCB
0	(0)	CHARACTER	88	OUCBRSOS	Set of state samples used by reporting. Cleared every policy interval (must be consistent with IRACONST)
0	(0)	UNSIGNED	4	OUCBRQCT	Count of times the address space was found in quiesce state during policy interval
4	(4)	UNSIGNED	4	OUCBCAP	Number of times during the policy interval that the address space was found capped during sampling
8	(8)	UNSIGNED	4	OUCBASMP	Count of times sampling saw this address space
12	(C)	UNSIGNED	4	OUCBNONDASDIO	Non-DASD I/O delay+using samples
16	(10)	UNSIGNED	4	OUCBDASDIODISC	DASD I/O disconnect samples. These should actually be reported in OUCBSamples, but there's no more place
20	(14)	UNSIGNED	4	OUCBCAMU	Asynchronous CAM using samples
24	(18)	UNSIGNED	4	OUCBCAMD	Asynchronous CAM delay samples
28	(1C)	UNSIGNED	4	OUCBAPU	Asynchronous AP using samples
32	(20)	UNSIGNED	4	OUCBAPD	Asynchronous AP delay samples
36	(24)	UNSIGNED	4	OUCBFQD	Feature queue delay samples

Table 847. Structure OUCBREPTSAMPLES (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
40	(28)	CHARACTER	16	*	Reserved for future crypto hardware
56	(38)	UNSIGNED	4	OUCBDASDIOPEN	DASD I/O pending samples
60	(3C)	UNSIGNED	4	OUCBDASDIOTHRO	DASD I/O induced throttle samples.
64	(40)	UNSIGNED	4	OUCBDASDIOCNTD	DASD I/O Contention Delta samples.
68	(44)	UNSIGNED	4	OUCBDASDIOCUQT	DASD I/O control unit queue samples.
72	(48)	UNSIGNED	4	OUCBRCS	Contention delay sample count of work waiting for resources as reported to WLM on the IWMCNTN interface by the resource manager
76	(4C)	UNSIGNED	4	OUCBRCSU	Contention delay sample count of work holding resources as reported to WLM on the IWMCNTN interface by the resource manager
80	(50)	UNSIGNED	4	OUCBIFACU	using count of IFA work running on regular CPs
84	(54)	UNSIGNED	4	OUCBSUPCU	using count of SUP work running on regular CPs
88	(58)	UNSIGNED	4	OUCB_NORMAL_COMPLETIONS_PA	Normal Completions last PA Interval if reported by IWMRPT
92	(5C)	UNSIGNED	4	OUCB_ABNORMAL_COMPLETIONS_PA	Abnormal Completions last PA Interval if reported by IWMRPT
96	(60)	UNSIGNED	2	OUCB_ABNORMAL_COMP_RATE_LTA	Abnormal Completions Rate, long term average
98	(62)	UNSIGNED	1	OUCB_ABNORMCOUNT_SKIPCLOCK_1	Skipclock counter for high abnormal rate level 1
99	(63)	UNSIGNED	1	OUCB_ABNORMCOUNT_SKIPCLOCK_2	Skipclock counter for high abnormal rate level 2
100	(64)	CHARACTER	24	*	unused
124	(7C)	CHARACTER	4	OUCBRSOS_NAME	eyecatcher 'RSOS'

Table 848. Structure OUCBH_ELEM

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	368	OUCBH_ELEM	Element on queue
0	(0)	CHARACTER	8	OUCBH_EYEC	Eyecatcher OUCBHLTH
8	(8)	ADDRESS	8	OUCBH_NEXT	Address of next element on queue
16	(10)	CHARACTER	352	OUCBH_BODY	Element body. See QHAR_Type in mapping macro IWMWQHAA
368	(170)	CHARACTER	0	OUCBH_END	

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Table 849. Structure OUCBJAFB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	256	OUCBJAFB	Job Accounting Sect. There is room between each jafb to allow for easy expansion of the Jafb. When the Jafb gets too big we'll get a compile error
0	(0)	CHARACTER	128	OUCBJAFB_ENCLAVE	
128	(80)	CHARACTER	128	OUCBJAFB_DEPENC	
256	(100)	CHARACTER	0	OUCBJAFB_END	

Table 850. Constants for IRAUCBX

Len	Type	Value	Name	Description
8	CHARACTER	OUCBS	OUCBSNAME_VAL	
1	DECIMAL	1	OUCBSVER_VAL	OUCBS Version
4	DECIMAL	1408	OUCBXLEN_VAL	
2	DECIMAL	640	OUCBSLEN_VAL	
4	CHARACTER	SOS	OUCBSOS_NAME_VAL	
4	DECIMAL	128	OUCBSAMPLESLEN_VAL	
4	CHARACTER	RSOS	OUCBRSOS_NAME_VAL	
4	DECIMAL	128	OUCBREPTSAMPLESLEN_VAL	
4	DECIMAL	256	OUCBJAFBLEN_VAL	
<p>Dcl constants to make sure length of oucbx is equal to space allocated for it. Fixed 32 fields cannot contain negative values so the only way for both declares to work is if both expressions evaluate to 0 (the two are equal). @WLMPEM</p>				
4	DECIMAL	0	OUCBXLESSTHANEQUALOUCBX1	
4	DECIMAL	0	OUCBX1LESSTHANEQUALOUCBX	

Table 851. Cross Reference for IRAUCBX

Name	Offset	Hex	Tag
OUCB_ABNORMAL_COMP_RATE_LTA	60		
OUCB_ABNORMAL_COMPLETIONS_PA	5C		
OUCB_ABNORMCOUNT_SKIPCLOCK_1	62		
OUCB_ABNORMCOUNT_SKIPCLOCK_2	63		
OUCB_BPAH	188		
OUCB_CACHELINE10	380		
OUCB_CACHELINE11	400		
OUCB_CACHELINE12	480		
OUCB_CACHELINE13	500		
OUCB_CACHELINE3	0		
OUCB_CACHELINE4	80		
OUCB_CACHELINE5	100		
OUCB_CACHELINE6	180		
OUCB_CACHELINE7	200		
OUCB_CACHELINE8	280		
OUCB_CACHELINE9	300		
OUCB_NORMAL_COMPLETIONS_PA	58		
OUCB_RAW_SERVICE_ACCUM	184		
OUCB_VALID_BPMGMT_PB_SEEN	C0		20

Table 851. Cross Reference for IRAUCBX (continued)

Name	Offset	Hex Tag
OUCB_VALID_PB_SEEN	C0	80
OUCB_VALID_REPORTONLY_PB_SEEN	C0	40
OUCBACFL	131	80
OUCBACHD	2C	
OUCBAPCD	20	
OUCBAPD	20	
OUCBAPDS	E0	
OUCBAPPD	1C	
OUCBAPRQ	0	
OUCBAPU	1C	
OUCBASHD	28	
OUCBASID	BE	
OUCBASMP	8	
OUCBASPD	3C	
OUCBASST	1A0	
OUCBASWD	30	
OUCBAUXB	3C	
OUCBAVD	24	
OUCBAXPU	D0	
OUCBBKIA	58	
OUCBBKIE	5C	
OUCBBPIN	4C	
OUCBBPNE	50	
OUCBBUFFERPOOLOTHERDELAY	68	
OUCBBUFFERPOOLTOKENEXCLUDE	B4	
OUCBBUFFERPOOLTOKEN1	A4	
OUCBBUFFERPOOLTOKEN2	AC	
OUCBBUFFERPOOL1DELAY	74	
OUCBBUFFERPOOL2DELAY	78	
OUCBCAMD	18	
OUCBCAMU	14	
OUCBCAP	4	
OUCBCAPB	248	
OUCBCCD	38	
OUCBCD	18	
OUCBCFCT	2C	
OUCBCNTDLEFTOVER	22C	
OUCBCNTDLEFTOVERSM	234	
OUCBCNTDTIMEBASE	228	
OUCBCNTDTIMEBASESM	230	
OUCBCONTEXTQUEUE	178	
OUCBCONTEXTQUEUEHEAD	178	
OUCBCONTEXTQUEUETAIL	17C	
OUCBCONTIMEBASE	4C	
OUCBCONTIMEBASESM	58	
OUCBCPUG	470	
OUCBCPUL	410	
OUCBCPUR	BC	20
OUCBCPUS	130	

IRAUCBX mapping

Table 851. Cross Reference for IRAUCBX (continued)

Name	Offset	Hex Tag
OUCBCQHASBEENCORRUPTED	168	10
OUCBCRM	FC	
OUCBCRMB	12C	
OUCBCRMCPUTIME	430	
OUCBCRMCPUTIMECONSUMED	434	
OUCBCRMCPUTIMECONSUMEDBASE	430	
OUCBCRMCPUTIMECONSUMEDI	43C	
OUCBCRMDP	FD	
OUCBCRMFLAGS	FC	
OUCBCRMI	FC	20
OUCBCRMP	2C0	80
OUCBCRMPROA	FC	80
OUCBCRMPROE	FC	40
OUCBCRMPROPAGATEDCOUNT	FE	
OUCBCRMR	FC	10
OUCBCSUM	28	
OUCBCU	8	
OUCBCUQTLEFTOVER	1F4	
OUCBCUQTLEFTOVERSM	1FC	
OUCBCUQTTIMEBASE	1F0	
OUCBCUQTTIMEBASESM	1F8	
OUCBDASDIOCNTD	40	
OUCBDASDIOCUQT	44	
OUCBDASDIODELAY	40	
OUCBDASDIODISC	10	
OUCBDASDIOPEND	38	
OUCBDASDIOTHRO	3C	
OUCBDASDIOUSING	C	
OUCBDFRR	148	80
OUCBDISCLEFTOVER	30	
OUCBDISCLEFTOVERSM	3C	
OUCBDISCTIMEBASE	34	
OUCBDISCTIMEBASESM	40	
OUCBECPL	440	
OUCBECPT	15C	
OUCBECPU	158	
OUCBEFRR	148	40
OUCBEFS	D8	
OUCBEHIS	130	
OUCBEHIS_A	13C	
OUCBEHIS_ENTRY	13A	
OUCBEHIS_ETIME	134	
OUCBEHIS_HI	139	
OUCBEHIS_LOW	138	
OUCBEHIS_LTA	13E	
OUCBEHIS_QTIME	130	
OUCBEHIS_SC	13A	
OUCBEJST	8	
OUCBENCH	14C	

Table 851. Cross Reference for IRAUCBX (continued)

Name	Offset	Hex Tag
OUCBENCL	150	
OUCBENCLAVEHSPPAGING	50	
OUCBENCLAVEEMPLDELAY	54	
OUCBENCLAVEPVTPAGING	48	
OUCBENCLAVESWAPDELAY	58	
OUCBENCLAVEVIOPAGING	4C	
OUCBENQCPUTIMECONSUMED	174	
OUCBENQCPUTIMECONSUMEDBASE	170	
OUCBENQCPUTIMECONSUMEDI	1F0	
OUCBENQFLAGS	168	
OUCBENQMANAGEMENT	168	
OUCBENQP	168	80
OUCBESB1	C0	
OUCBESB2	C4	
OUCBESB3	C8	
OUCBESB4	CC	
OUCBESHP	B1	
OUCBESMBPTR	8C	
OUCBESTP	B2	
OUCBESVP	B0	
OUCBETCBFIRST	1B4	
OUCBETCBLAST	1B8	
OUCBETCBQ	1B4	
OUCBETIM	154	
OUCBETRC	164	
OUCBEUB1	138	
OUCBEUB2	13C	
OUCBEUB3	140	
OUCBEUB4	144	
OUCBEWLMARMNOTACTIVE	320	20
OUCBEWLMASRM	32C	
OUCBEWLMDATA	300	
OUCBEWLMENCCONNYES	320	10
OUCBEWLMFLAGS	320	
OUCBEWLMISARMREGED	320	80
OUCBEWLMISEWLMAGENT	320	40
OUCBEWLMPID	310	
OUCBEWLMRESERVED	334	
OUCBEWLMSERVTIMEL0	104	
OUCBEWLMRSRBTIME	308	
OUCBEWLMTASKRM	324	
OUCBEWLMTCBTIME	300	
OUCBEWLMTIMESSAMPLED	100	
OUCBEWLMTOTCPUDELAY	10C	
OUCBEWLMTOTCPUUSING	108	
OUCBEWLMTOTIDLE	118	
OUCBEWLMTOTIODELAY	114	
OUCBEWLMTOTIOUSING	120	
OUCBEWLMTOTOTHER	11C	

IRAUCBX mapping

Table 851. Cross Reference for IRAUCBX (continued)

Name	Offset	Hex Tag
OUCBEWLMTOTPAGEDELA	110	
OUCBEWLMTOTSAMPLES	108	
OUCBEWLMWASDISABLED	320	08
OUCBEXIB	124	
OUCBEXOB	128	
OUCBFDISTIMEBASE	38	
OUCBFDISTIMEBASESM	44	
OUCBFIX	20	
OUCBFLGX	131	
OUCBFLGX2	14	
OUCBFMNOBASE	48	
OUCBFMNOBASESM	54	
OUCBFQD	24	
OUCBFRAMESTOBESTOLENBYRSM	18C	
OUCBFWAITTIMEBASE	50	
OUCBFWAITTIMEBASESM	5C	
OUCBGENERICIRS	1F4	80
OUCBGFRR	148	20
OUCBGRLU	180	
OUCBH_BODY	10	
OUCBH_ELEM	0	
OUCBH_END	170	
OUCBH_EYEC	0	
OUCBH_NEXT	8	
OUCBHEALTHIND	176	
OUCBHOLD	18	
OUCBHSUM	24	
OUCBIATK	100	
OUCBIFACU	50	
OUCBIFADL	5C	
OUCBIFAU	10	
OUCBIQFL	10A	
OUCBIRSFLAGS	1F4	
OUCBIRST	1F8	
OUCBIS	0	
OUCBJAFB	0	
OUCBJAFB_DEPENC	80	
OUCBJAFB_ENCLAVE	0	
OUCBJAFB_END	100	
OUCBLPSS	520	
OUCBLRPS	104	
OUCBLRST	528	
OUCBLSMP	BC	80
OUCBMD	34	
OUCBMDAC	148	08
OUCBMDEL	B4	
OUCBMSOL	448	
OUCBMTRM	66	
OUCBNONDASDIO	C	

Table 851. Cross Reference for IRAUCBX (continued)

Name	Offset	Hex Tag
OUCBNQC	16A	
OUCBNQC_SHORTTIME	2E2	
OUCBNQC_STANDARD	2E0	
OUCBNQT	16C	
OUCBNQT_SHORTTIME	2E4	
OUCBNSPT	C8	
OUCBOUS	4	
OUCBOUTT	1C	
OUCBPGIB	44	
OUCBPGTB	38	
OUCBPINB	10C	
OUCBPINE	54	
OUCBPINT	110	
OUCBPLAB	D4	
OUCBPQID	109	
OUCBPROA	168	40
OUCBPROE	168	20
OUCBPROPAGATEDENQHOLDCOUNT	132	
OUCBPSO	10	
OUCBPSRB	148	01
OUCBPSRV	149	80
OUCBPU2B	48	
OUCBPXM0	64	
OUCBPXM1	6C	
OUCBPXM2	70	
OUCBQID	108	
OUCBRCSO	48	
OUCBRCSU	4C	
OUCBREASWAPINRSM	1F4	40
OUCBREASWAPREDRIVE	1F4	04
OUCBREASWAPRSMFAILEDTIME	1FC	
OUCBREPTSAMPLES	0	
OUCBREPTSAMPLES_CACHELINE1	0	
OUCBREPTSAMPLESPTR	78	
OUCBRESB	40	
OUCBRQCT	0	
OUCBRSNS	148	02
OUCBRSOS	0	
OUCBRSOS_NAME	7C	
OUCBRSTB	4	
OUCBRSV8	BD	7F
OUCBS	0	
OUCBS_CACHELINE1	0	
OUCBS_CACHELINE2	80	
OUCBS_CACHELINE3	100	
OUCBS_CACHELINE4	180	
OUCBS_CACHELINE5	200	
OUCBSAMPLES	0	
OUCBSAMPLES_CACHELINE1	0	

IRAUCBX mapping

Table 851. Cross Reference for IRAUCBX (continued)

Name	Offset	Hex Tag
OUCBSAMPLESPTR	74	
OUCBSCLS	1B0	
OUCBSCPI	1C4	
OUCBSCTE	D4	
OUCBSDAC	DC	
OUCBSEEC	64	
OUCBSEND	280	
OUCBSERVINSTACTIVE	80	
OUCBSERVINSTACTIVERGNWORK	E8	
OUCBSERVINSTCAPACITY	94	
OUCBSFEC	62	
OUCBSFLG	BD	
OUCBSHBP	94	
OUCBSHEADER	0	
OUCBSLEN	C	
OUCBSMSK	10B	
OUCBSNAME	0	
OUCBSONA	B3	
OUCBSOS	0	
OUCBSOS_NAME	7C	
OUCBSPSS	190	
OUCBSPTE	90	
OUCBSPTR	70	
OUCBSQBP	6C	
OUCBSQFP	68	
OUCBSRBG	478	
OUCBSRBL	418	
OUCBSRCI	1B2	
OUCBSRRC	34	
OUCBSRST	1A8	
OUCBSSCI	1B0	
OUCBSSPS	148	04
OUCBSUPCU	54	
OUCBSUPDL	60	
OUCBSUPU	14	
OUCBSVER	8	
OUCBSWCB	2E	
OUCBSWFC	60	
OUCBSWPC	10	
OUCBSWSA	B8	
OUCBSWSC	BC	
OUCBSXMX	A0	
OUCBSXM1	98	
OUCBSXM2	9C	
OUCBTAXB	114	
OUCBTEMPAFFINITYEXIST	E4	
OUCBTHROLEFTOVER	210	
OUCBTHROLEFTOVERSM	218	
OUCBTHROTIMEBASE	20C	

Table 851. Cross Reference for IRAUCBX (continued)

Name	Offset	Hex Tag
OUCBTHROTIMEBASESM	214	
OUCBTMC	F4	
OUCBTMCT	E8	
OUCBTMF	134	
OUCBTMPS	E4	
OUCBTMRD	F0	
OUCBTMSD	EC	
OUCBTRANSWAPINRSM	1F4	20
OUCBTRANSWAPREDRIVE	1F4	02
OUCBTRSL	450	
OUCBUSINGLETOVER	74	
OUCBUSINGLETOVERSM	6C	
OUCBUSINGTIMEBASE	A0	
OUCBUSINGTIMEBASESM	88	
OUCBVALB	C0	
OUCBVHDB	118	
OUCBVHPB	11C	
OUCBVHUB	120	
OUCBWAITLEFTOVER	78	
OUCBWAITLEFTOVERSM	70	
OUCBWAITTIMEBASE	9C	
OUCBWAITTIMEBASESM	84	
OUCBWCFO	C4	
OUCBWKTM	30	
OUCBWLMF	A4	
OUCBWLMF	BC	
OUCBWLQUEUEDELAY	44	
OUCBWL2	148	
OUCBWL2F	149	
OUCBWMSL	458	
OUCBWORKQTOKEN	98	
OUCBWSMT	148	10
OUCBWSS	14	
OUCBWTKN	C4	
OUCBX	0	
OUCBX_AT_PDP_DELTA_TIME	1C0	
OUCBX_AT_PDP_SERVTIME_BASE	1B4	
OUCBX_AT_PDP_SERVTIME_LEFTOVER	1B0	
OUCBX_BA_AS_IFA_TIME_BASE	348	
OUCBX_BA_AS_IOC_TIME_BASE	360	
OUCBX_BA_AS_SOC_TIME_BASE	370	
OUCBX_BA_AS_SUP_TIME_BASE	368	
OUCBX_BA_AS_TTIME_BASE	340	
OUCBX_BA_ASWASSPLIT	530	80
OUCBX_BA_CI	530	
OUCBX_BA_CIFLAGS	530	
OUCBX_BASE_SERVTIME_ON_PRO	280	
OUCBX_BASE_SERVTIME_PRO_ON_CP	290	
OUCBX_CONNTIME_BASE	264	

IRAUCBX mapping

Table 851. Cross Reference for IRAUCBX (continued)

Name	Offset	Hex Tag
OUCBX_CPSRP_CUR_FP_SAMP	F2	
OUCBX_CPSRP_PREV_FP_SAMP	F4	
OUCBX_CPSRP_SAMP	F0	
OUCBX_CPU_SERVTIME_BASE	E0	
OUCBX_CPUU_AT_JOBEND	EC	
OUCBX_GMI_F1	270	
OUCBX_HDLOCK_AT_PDP_DELTA_TIME	1D4	
OUCBX_HDLOCK_AT_PDP_SERVTIME_BASE	1C8	
OUCBX_HDLOCK_AT_PDP_SERVTIME_LEFTOVER	1C4	
OUCBX_HDLOCK_TIME_AT_PDP_BASE	4C8	
OUCBX_HDLOCK_TIME_AT_PDP_LEFTOVER	4D0	
OUCBX_HDLOCK_TIME_AT_PDP_USING	1CC	
OUCBX_HDLOCK_TIME_AT_PDP_USING_JOBEND	1D0	
OUCBX_HDLOCKPROMOTION_TIME_AT_PDP	4C0	
OUCBX_IFA_TIME	4A0	
OUCBX_IFACP_TIME	4B0	
OUCBX_PA_PCS_TAR	270	20
OUCBX_PA_PPS_TAR	270	10
OUCBX_PCS_CHANGETIME	278	
OUCBX_PPS_CHANGETIME	274	
OUCBX_PRO_SERVTIME_BASE	188	
OUCBX_PRO_SERVTIME_LEFTOVER	180	
OUCBX_PROCP_SERVTIME_BASE	198	
OUCBX_PROCP_SERVTIME_LEFTOVER	190	
OUCBX_PROCPU_AT_JOBEND	1A8	
OUCBX_PROMOTIONADJF	4DC	
OUCBX_PROMOTIONBASE	4D4	
OUCBX_PROMOTIONTIMEACCUM	4D8	
OUCBX_PROU_AT_JOBEND	1A0	
OUCBX_QSCEST_TIME	27C	
OUCBX_RGROUP_TRICKLE	1EB	40
OUCBX_RSTORCMP_TIME	19C	
OUCBX_SERVTIME_LEFTOVER	DC	
OUCBX_STCR_CHSK	270	80
OUCBX_STCR_PHSK	270	40
OUCBX_SUP_TIME	4A8	
OUCBX_SUPCP_TIME	4B8	
OUCBX_TIME_AT_PDP	2C2	
OUCBX_TIME_AT_PDP_BASE	2CA	
OUCBX_TIME_AT_PDP_LEFTOVER	2D4	
OUCBX_TIME_AT_PDP_USING	1B8	
OUCBX_TIME_AT_PDP_USING_JOBEND	1BC	
OUCBX_TIME_ON_PRO	380	
OUCBX_TIME_ON_PRO_BASE	3A0	
OUCBX_TIME_PRO_ON_CP	390	
OUCBX_TIME_PRO_ON_CP_BASE	3B0	
OUCBX_TIMEOFLASTSAMPLESGATHERING	4E0	
OUCBX_VARTIME_AT_PDP	500	
OUCBX_VARTIME_AT_PDP_BASE	508	

Table 851. Cross Reference for IRAUCBX (continued)

Name	Offset	Hex Tag
OUCBX_VARTIME_AT_PDP_DELTA_TIME	1E0	
OUCBX_VARTIME_AT_PDP_SERVTIME_BASE	1DC	
OUCBX_VARTIME_AT_PDP_SERVTIME_LEFTOVER	1D8	
OUCBX_VARTIME_AT_PDP_USING_JOBEND	1E4	
OUCBX_VARWEIGHTED_AT_PDP_DELTA_TIME	1EC	
OUCBX_VARWEIGHTED_AT_PDP_SERVTIME_BASE	1E8	
OUCBX_VARWEIGHTED_TIME_AT_PDP	510	
OUCBX_VARWEIGHTED_TIME_AT_PDP_BASE	518	
OUCBXARRIVALTIMESTCKWORD1	260	
OUCBXCANCEL	1EA	01
OUCBXCLSFYPRIORITY	200	
OUCBXCRRAS	244	
OUCBXCRRB	240	
OUCBXDAT	D8	
OUCBXDECPUTIMEFORWM1	88	
OUCBXDECRMCPUTIMECONSUMED	438	
OUCBXDEENQCPUTIMECONSUMED	1EC	
OUCBXDEIOCNTDTIME	224	
OUCBXDEIOCONNECTTIME	1D8	
OUCBXDEIOCUQTTIME	FC	
OUCBXDEIODISCONNECTTIME	1DC	
OUCBXDEIOTHROTIME	208	
OUCBXDEIOWAITTIME	1E0	
OUCBXDEPENCLCOUNT	14A	
OUCBXDEPENCLTIMEEXISTS	149	40
OUCBXDEPENCPROTIMEFORWM1	2B0	
OUCBXDEPENCSUPTIMEQUAL	358	
OUCBXDEPENCTIMEONPRO	3D0	
OUCBXDEPENCTIMEPROONCP	3F0	
OUCBXDESSCHCOUNT	1E4	
OUCBXDETOTALCPUTIME	1BC	
OUCBXENCSSCHCOUNT	A8	
OUCBXENC SUPTIMEQUAL	350	
OUCBXENCTIMEONPRO	3C0	
OUCBXENCTIMEPROONCP	3E0	
OUCBXEND	580	
OUCBXENDPERIOD	14	08
OUCBXEQUBATCHQDELAY	224	
OUCBXEXPRESS	2C0	
OUCBXFIX_B2G	AC	
OUCBXFIXEDINCVALUE	488	
OUCBXFLAGS	1EA	
OUCBXFXSALL	2F1	02
OUCBXFXSBELOW16M	2F1	04
OUCBXFXSBETWEEN16M2G	2F1	08
OUCBXFXSDREF	2F1	01
OUCBXFXSREASON	2F1	
OUCBXFXSRSV4	2F1	F0
OUCBXHASREMOTESYSTEMDATA	1EA	04

IRAUCBX mapping

Table 851. Cross Reference for IRAUCBX (continued)

Name	Offset	Hex Tag
OUCBXHH	4E8	
OUCBXHH_ADDR	4F0	
OUCBXHH_ELEM#	4EC	
OUCBXHH_FLAGS	4EE	
OUCBXHH_LOCK	4E4	
OUCBXHH_RESET	4EE	80
OUCBXHH_TIMEWHENRESET	4F8	
OUCBXHH_UPDATE#	4E8	
OUCBXIEIOCNTDIME	220	
OUCBXIEIOCONNECTIME	1C8	
OUCBXIEIOCUQTTIME	F8	
OUCBXIEIODISCONNECTIME	1CC	
OUCBXIEIOTHROTIME	204	
OUCBXIEIOWAITIME	1D0	
OUCBXIESSCHCOUNT	1D4	
OUCBXIGNORETRXNSSPECIFIED	131	02
OUCBXINELIGIBLETIME	210	
OUCBXINSTLLPLOT	2C	
OUCBXINSTVSPLOT	28	
OUCBXIOCNTDIMEINTVBASE	21C	
OUCBXIOCONTIMEINTVBASE	230	
OUCBXIOCOUNTINTVBASE	234	
OUCBXIOCUQTTIMEINTVBASE	10	
OUCBXIODISCTIMEINTVBASE	238	
OUCBXIOFCONTIMEINTVBASE	7C	
OUCBXIOFDISTIMEINTVBASE	68	
OUCBXIOFMNOINTVBASE	60	
OUCBXIOFWAITIMEINTVBASE	64	
OUCBXIOSQTIME	18	
OUCBXIOSQTIMEINTVBASE	23C	
OUCBXIOTHROTIMEINTVBASE	200	
OUCBXIOWAITIMEINTVBASE	22C	
OUCBXJAFBADDR	198	
OUCBXJCLCONVERSIONTIME	208	
OUCBXJOBREINCARNATED	1EA	10
OUCBXLATCHCOUNT	258	
OUCBXLLOCKUTIL	24	
OUCBXMFT	A4	40
OUCBXMSV	BD	80
OUCBXNOIARYBLSWCALL	1F4	08
OUCBXNONCANCELABLE	1EB	80
OUCBXNOPR	A4	20
OUCBXNSWDPREASON	42B	
OUCBXNSWDPREASONAUX	42B	40
OUCBXNSWDPREASONFIXED	42B	80
OUCBXOLDPREEMPTION	A4	01
OUCBXOPERATORFORCEDINITIATION	1EA	20
OUCBXOUCBSRCSAVE	1F5	
OUCBXPERFORMVALUE	1E8	

Table 851. Cross Reference for IRAUCBX (continued)

Name	Offset	Hex Tag
OUCBXPERIODSTARTREMOTESERVICE	25C	
OUCBXPROTRXSERVICEUNITS	2A8	
OUCBXQUEUE TIME	204	
OUCBXRAXSWAPREASON	1F7	
OUCBXREGISTRATIONCOUNT	F8	
OUCBXREMOTESERVICE	250	
OUCBXREMOTESYSTEMDATAINCOMPLETE	1EA	02
OUCBXREMOTESYSTEMDATAPTR	254	
OUCBXRESETAFTERINITIATION	1EA	40
OUCBXRESETBEFOREINITIATION	1EA	80
OUCBXRESTARTTRANATSWAPIN	A4	04
OUCBXRSTORFLFLAG	429	
OUCBXRSTORFLREDRIVE	429	80
OUCBXRSTORFLRSV3	42A	
OUCBXRSTORFLRSV4	42C	
OUCBXRSTORFLTIME	420	
OUCBXRSTORFLTYPE	428	
OUCBXRSTORFLTYPE1	428	80
OUCBXSCHEDENV	214	
OUCBXSERVINSTINITIAL	92	
OUCBXSERVINSTLIMIT	90	
OUCBXSERVTASKSMANAGED	14	40
OUCBXSOF30EXPPAGERESIDENCYTIME	80	
OUCBXSPECIALFULLPREEMPT	A4	80
OUCBXSPECIALFULLPREEMPTTIME	7C	
OUCBXSRTIMEONCP	408	
OUCBXSRTOKEN	CC	
OUCBXSTEPSTARTTIME	2F8	
OUCBXSTGCRT_SPECIFIED_EXPLICIT	131	04
OUCBXSTGPROTNOW	131	08
OUCBXSTMA	480	
OUCBXSTMA31	484	
OUCBXSUBSYSTEMCOLLECTIONNAME	268	
OUCBXSYSORRESAFTTIME	20C	
OUCBXSYST	1EA	08
OUCBXTASKTIMEONCP	400	
OUCBXTOTALSERVICEBASE	228	
OUCBXTRXMGMTBOTHSPECIFIED	131	01
OUCBXVIRTINVALUE	48C	
OUCBXVSAVLAV16MB	20	
OUCBXVSAVLBEL16MB	1C	
OUCBXVSDATACOLLECTED	14	10
OUCBXWASHIDP	A4	08
OUCBXWASPRIV	A4	02
OUCBXX03FLAGS	2F0	
OUCBX203RATE	2EC	
OUCBX203REQUIRED	2F0	40
OUCBX203TOTFRAMESSLOTS	2E8	
OUCBX403REQUIRED	2F0	80

IRAUCBX mapping

Table 851. Cross Reference for IRAUCBX (continued)

Name	Offset	Hex Tag
OUCBX403TOTFIXED	2EC	
OUCBX403TOTFRAMES	2E8	

Chapter 225. IRAQVS Information

IRAQVS Programming Interface Information

IRAQVS is a programming interface.

IRAQVS Heading Information

Common Name: Sysevent QVS parameter list
 Macro ID: IRAQVS
 DSECT Name: QVS
 Owning Component: System Resource Manager (SC1CX)
 Eye-Catcher ID: None
 Storage Attributes: Subpool: Anywhere
 Key: Caller key
 Residency: Anywhere
 Size: See assembly listing
 Created by: Caller of SYSEVENT QVS
 Pointed to by: Register 1 on entry to SYSEVENT QVS
 Serialization: None
 Function: Maps data returned by SYSEVENT QVS (Query Virtual Server).
 The caller is required to set field QvsLen to the length
 of the entire parameter list before invoking the SYSEVENT.
 On return the caller can inspect fields QvsVer and QvsFlags
 to determine which fields have been filled in.

IRAQVS mapping

Table 852. Structure QVS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	QVS	
0	(0)	CHARACTER	4	QVSIN(0)	IRAQVS.185: Input fields
0	(0)	SIGNED	4	QVSLEN	IRAQVS.219: Length of area
4	(4)	CHARACTER	92	QVSOUT(0)	IRAQVS.191: Output fields for version 1
4	(4)	BITSTRING	1	QVSVER	IRAQVS.22: Version
5	(5)	BITSTRING	1	QVSFLAGS(0)	IRAQVS.188: Flags
		1...		QVSCECVALID	"X'80'" IRAQVS.72: Fields prefixed by QvsCec contain valid information
		.1..		QVSIMGVALID	"X'40'" IRAQVS.84: Fields prefixed by QvsImg contain valid information. This flag is off if MVS is not running in a logical partition.
		..1.		QVSMVALID	"X'20'" IRAQVS.81: Fields prefixed by QvsVm contain valid information. This flag is off if MVS is not running in a virtual machine.
6	(6)	BITSTRING	1		IRAQVS.265: Reserved

IRAQVS mapping

Table 852. Structure QVS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
7	(7)	BITSTRING	1	QVSCECCAPACITYSTATUS	IRAQVS.307: indicating if machine is running at nominal or reduced capacity
8	(8)	CHARACTER	4	QVSCECMACHINETYPE	IRAQVS.34: CEC machine type number in EBCDIC
12	(C)	CHARACTER	16	QVSCECMODELID	IRAQVS.276: CEC model identification in EBCDIC
28	(1C)	CHARACTER	16	QVSCECSEQUENCECODE	IRAQVS.77: CEC sequence code in EBCDIC. The sequence code is the portion of the CPU serial number that remains when the plant-of-manufacture portion of the serial number is excluded.
44	(2C)	CHARACTER	16	QVSCECMANUFACTURERNAME	IRAQVS.321: CEC manufacturer name
60	(3C)	CHARACTER	4	QVSCECPLANTOFMANUFACTURE	IRAQVS.262: Code that identifies the plant of manufacture
64	(40)	SIGNED	4	QVSCECCAPACITY	IRAQVS.41: CEC CPU capacity in millions of service units per hour
68	(44)	CHARACTER	8	QVSIMGLOGICALPARTITIONNAME	IRAQVS.317: Logical partition name
76	(4C)	SIGNED	2	QVSIMGLOGICALPARTITIONID	IRAQVS.207: Logical partition identifier in binary
78	(4E)	SIGNED	2		IRAQVS.213: Reserved
80	(50)	SIGNED	4	QVSIMGCAPACITY	IRAQVS.202: Logical partition CPU capacity in millions of service units per hour
84	(54)	CHARACTER	8	QVSVMNAME	IRAQVS.30: Virtual machine name
92	(5C)	SIGNED	4	QVSMCAPACITY	IRAQVS.141: Virtual machine CPU capacity in millions of service units per hour
96	(60)	CHARACTER	1	QVSEND1(0)	IRAQVS.21: End of version 1
IRAQVS.228: Version 1					
96	(60)	X'1'	0	QVSVER1	"1"
IRAQVS.370: Version 2 (includes QvsCecCapacityStatus)					
96	(60)	X'2'	0	QVSVER2	"2"
IRAQVS.246: Service completed successfully					
96	(60)	X'0'	0	QVSRCOK	"0"
IRAQVS.234: Parameter list is too small to contain version 1 data					
96	(60)	X'4'	0	QVSRCTOOSMALL	"4"
IRAQVS.292: QvsCecCapacityStatus is undefined (not supported by hardware)					
96	(60)	X'0'	0	QVSCECCAPSTATUNDEF	"0"
IRAQVS.304: Machine is running at nominal capacity					
96	(60)	X'1'	0	QVSCECCAPSTATNOMINAL	"1"

Table 852. Structure QVS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					IRAQVS.331: Machine is running with reduced capacity due to a manual control setting. (e.g. power saving mode, customer initiated)
96	(60)	X'2'	0	QVSCECCAPSTATREDMANUAL	"2"
					IRAQVS.340: Machine is running with reduced capacity due to a machine exception condition (e.g. cooling problem)
96	(60)	X'3'	0	QVSCECCAPSTATREDMACHEX	"3"
					IRAQVS.349: Machine is running with reduced capacity due to a non-exception machine condition (e.g. firmware update)
96	(60)	X'4'	0	QVSCECCAPSTATREDMACHNONEX	"4"
					IRAQVS.358: Machine is running with reduced capacity due to an exception condition external to the machine (e.g. ambient temperature exceeded specified maximum)
96	(60)	X'5'	0	QVSCECCAPSTATREDEXTCOND	"5"
96	(60)	X'60'	0	QVS_LEN	"*-QVS"

Table 853. Cross Reference for IRAQVS

Name	Offset	Hex	Tag
QVS	0		
QVS_LEN	60		60
QVSCECCAPACITY	40		
QVSCECCAPACITYSTATUS	7		
QVSCECCAPSTATNOMINAL	60		1
QVSCECCAPSTATREDEXTCOND	60		5
QVSCECCAPSTATREDMACHEX	60		3
QVSCECCAPSTATREDMACHNONEX	60		4
QVSCECCAPSTATREDMANUAL	60		2
QVSCECCAPSTATUNDEF	60		0
QVSCECMACHINETYPE	8		
QVSCECMANUFACTURERNAME	2C		
QVSCECMODELID	C		
QVSCECPLANTOFMANUFACTURE	3C		
QVSCECSEQUENCECODE	1C		
QVSCECVALID	5		80
QVSEND1	60		
QVSFLAGS	5		
QVSIMGCAPACITY	50		
QVSIMGLOGICALPARTITIONID	4C		
QVSIMGLOGICALPARTITIONNAME	44		
QVSIMGVALID	5		40
QVSIN	0		
QVSLN	0		
QVSOUT	4		
QVSRCK	60		0
QVSRCTOOSMALL	60		4
QVSVER	4		

IRAQVS mapping

Table 853. Cross Reference for IRAQVS (continued)

Name	Offset	Hex Tag
QVSVER1	60	1
QVSVER2	60	2
QVSVMCAPACITY	5C	
QVSVMNAME	54	
QVSVMVALID	5	20

Chapter 226. IRARASC Information

IRARASC Programming Interface Information

IRARASC is a programming interface.

IRARASC Heading Information

Common Name: Request Address Space Classification Information
Macro ID: IRARASC
DSECT Name: RASC
Owning Component: SYSTEMS RESOURCE MANAGER (SC1CX)
Eye-Catcher ID: RASC
Offset: 0
Length: 4

Storage Attributes: Main Storage: Must be fixed or DREF
Virtual Storage: n/a
Auxiliary Storage: n/a
Subpool: n/a
Key: sysevent caller's key
Residency: n/a

Size: See assembler listing
Created by: issuer of the REQASCL sysevent
Pointed to by: Register 1 on sysevent invocation
Serialization: none
Function: The RASC is the parameter list which is used when invoking the REQASCL sysevent. This sysevent returns classification information pertaining to a particular address space.
The caller must set the RASC_Acro, Rasc_Version, and Rasc_Length fields. This macro defines constants for this purpose. The following minimum MVS or OS/390 release is required to support each version:
Version 1 - MVS/SP 5.2.0
Version 2 - OS/390 1.3.0
Version 3 - OS/390 1.4.0
Version 4 - OS/390 3.1.0
The sysevent returns only the classification information that applies to the specified version. This may not be all of the available classification information if the specified version is less than the highest supported version.
The sysevent issuer must set register 1 to the address of the RASC parameter list.

IRARASC mapping

Table 854. Structure RASC

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

IRARASC mapping

Table 854. Structure RASC (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
0	(0)	CHARACTER		8	RASC_INPUTS(0)	
0	(0)	CHARACTER		4	RASC_ACRO	Acronym
4	(4)	BITSTRING		1	RASC_VERSION	Version
5	(5)	CHARACTER		1		Reserved.
6	(6)	SIGNED		2	RASC_LENGTH	Total size of RASC
8	(8)	CHARACTER		180	RASC_OUTPUTS(0)	
8	(8)	CHARACTER		8	RASCTRXN	Transaction program name
16	(10)	CHARACTER		8	RASCUSER	Userid
24	(18)	CHARACTER		8	RASCTRXC	Transaction class
32	(20)	CHARACTER		4	RASCSTBT	Subsystem Type
36	(24)	CHARACTER		8	RASCSTBN	Subsystem Name
44	(2C)	CHARACTER		144	RASC_ACCT_AREA(0)	Account Information area
44	(2C)	BITSTRING		1	RASCACCL	Account Information length (length of RASCACCT)
45	(2D)	CHARACTER		143	RASCACCT	Account Information
188	(BC)	CHARACTER		16	RASC_END_VERSION1(0)	
188	(BC)	CHARACTER		8	RASCERF	PERFORM value in EBCDIC. Blanks if there is no PERFORM value for this address space.
196	(C4)	CHARACTER		4	RASC_VERSION3_DATA(0)	The following field is returned only when the version is 3 or higher.
196	(C4)	SIGNED		4	RASCPRIO	Subsystem priority in binary format. Contains hexadecimal 80000000 if the subsystem did not provide a priority.
200	(C8)	CHARACTER		4	RASCERSV1	Reserved for future use
204	(CC)	CHARACTER		1	RASC_END_VERSION2(0)	
204	(CC)	CHARACTER		1	RASC_END_VERSION3(0)	
204	(CC)	CHARACTER		28	RASC_VERSION4_DATA(0)	The following field is returned only when the version is 4 or higher.
204	(CC)	CHARACTER		16	RASCSENV	Scheduling environment value for this address space
220	(DC)	CHARACTER		8	RASCSSCL	Subsystem collection name for this address space
228	(E4)	SIGNED		4	RASCSTRTK	IWMCLSFY SRMTOKEN value for this address space
232	(E8)	CHARACTER		1	RASC_END_VERSION4(0)	
232	(E8)	X'C1E2C3'		0	RASC_ID_CONSTANT	"C'RASC'" RASC eye catcher
232	(E8)	X'1'		0	RASC_VERSION1	"1" RASC version 1.
232	(E8)	X'2'		0	RASC_VERSION2	"2" RASC version 2.
232	(E8)	X'3'		0	RASC_VERSION3	"3" RASC version 3.
232	(E8)	X'4'		0	RASC_VERSION4	"4" RASC version 4.
232	(E8)	X'4'		0	RASC_CURRENTVERSION	"4" Current Version
232	(E8)	X'BC'		0	RASC_VERSION1_LEN	"188" Length of version 1 ASC.
232	(E8)	X'CC'		0	RASC_VERSION2_LEN	"204" Length of version 2 ASC.
232	(E8)	X'CC'		0	RASC_VERSION3_LEN	"204" Length of version 3 ASC.
232	(E8)	X'E8'		0	RASC_VERSION4_LEN	"232" Length of version 4 ASC.
232	(E8)	X'E8'		0	RASC_CURRENTVERSION_LEN	"232"
232	(E8)	X'E8'		0	RASC_LEN	"*-RASC"

Table 855. Cross Reference for IRARASC

Name	Offset	Hex Tag
RASC	0	
RASC_ACCT_AREA	2C	
RASC_ACRO	0	
RASC_CURRENTVERSION	E8	4
RASC_CURRENTVERSION_LEN	E8	E8
RASC_END_VERSION1	BC	
RASC_END_VERSION2	CC	
RASC_END_VERSION3	CC	
RASC_END_VERSION4	E8	
RASC_ID_CONSTANT	E8	C1E2C3
RASC_INPUTS	0	
RASC_LEN	E8	E8
RASC_LENGTH	6	
RASC_OUTPUTS	8	
RASC_VERSION	4	
RASC_VERSION1	E8	1
RASC_VERSION1_LEN	E8	BC
RASC_VERSION2	E8	2
RASC_VERSION2_LEN	E8	CC
RASC_VERSION3	E8	3
RASC_VERSION3_DATA	C4	
RASC_VERSION3_LEN	E8	CC
RASC_VERSION4	E8	4
RASC_VERSION4_DATA	CC	
RASC_VERSION4_LEN	E8	E8
RASCACCL	2C	
RASCACCT	2D	
RASCPERF	BC	
RASCPRIO	C4	
RASCRSV1	C8	
RASCSENV	CC	
RASCSTRK	E4	
RASCSSCL	DC	
RASCSubN	24	
RASCSubT	20	
RASCTRXC	18	
RASCTRXN	8	
RASCUSER	10	

IRARASC mapping

Chapter 227. IRARASD Information

IRARASD Programming Interface Information

IRARASD is a programming interface.

IRARASD Heading Information

Common Name: Request Address Space Data Parameter List
Macro ID: IRARASD
DSECT Name: RASD
Owning Component: SYSTEMS RESOURCE MANAGER (SC1CX)
Eye-Catcher ID: RASD
Offset: 0
Length: 4

Storage Attributes: Main Storage: n/a
Virtual Storage: n/a
Auxiliary Storage: n/a
Subpool: For REQASD, fixed or DREF. For REQFASD, any.
Key: sysevent caller's key
Residency: n/a

Size: See assembly listing
Created by: issuer of the REQASD sysevent
Pointed to by: Register 1 on sysevent invocation
Serialization: None
Function: The RASD is the parameter list which is used when invoking the REQASD or REQFASD sysevent. These sysevents return workload management information pertaining to a particular address space. The sysevents require the RASDLEN field to be filled in with the length of the RASD parameter list area that is to be used by the sysevent. The constant RASDSIZE can be used to fill in the RASDLEN field. Also, the sysevent issuer must set register 1 to the address of the RASD parameter list. For REQFASD sysevent issuers, register 13 must contain the address of a workarea which is necessary for the unserialized REQFASD processing. The size of the workarea required for REQFASD processing can be found in the constant RQFASDWA. Upon return from the sysevent, the bit RASDMODE indicates whether the system is running in goal mode (bit is off) or the system is running in compatibility mode (bit is on). The components of the structure which corresponds to the system mode will be filled in with data (the sub-structure for the other mode will be zeroed).

IRARASD mapping

Table 856. Structure RASD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	RASD	
0	(0)	CHARACTER	4	RASDACRO	IRARASD.46: Eyecatcher - RASD
4	(4)	CHARACTER	4	RASDIN(0)	IRARASD.52: RASD input fields
4	(4)	SIGNED	2	RASDLLEN	IRARASD.55: Length of RASD
6	(6)	SIGNED	2	RASDWALEN	IRARASD.61: Length of Workarea
8	(8)	CHARACTER	64	RASDOUT(0)	IRARASD.67: RASD output fields
8	(8)	BITSTRING	1	RASDPER#	IRARASD.70: Current period
9	(9)	BITSTRING	1	RASDBITS(0)	IRARASD.76: System mode indicators
		1... ..		RASDMODE	"X'80'" IRARASD.82: System mode indicators. Indicates workload management mode in effect. OFF - the system is operating in goal mode, ON - the system is operating in compatibility mode
10	(A)	CHARACTER	2	RASDRSV2	IRARASD.88: Reserved
12	(C)	CHARACTER	40	RASDGINF(0)	IRARASD.94: Goal mode information
12	(C)	CHARACTER	8	RASDSCL	IRARASD.97: Service class name
20	(14)	CHARACTER	8	RASDWKLD	IRARASD.103: Workload name
28	(1C)	CHARACTER	8	RASDRGRP	IRARASD.109: Resource group name. NOTE: This field will contain blanks if the address space does not belong to a resource group.
36	(24)	CHARACTER	8	RASDRCL	IRARASD.115: Report class name. NOTE: This field will contain blanks if the address space does not belong to a report class.
44	(2C)	BITSTRING	1	RASDSTAT(0)	IRARASD.121: Address space status
		1... ..		RASDSRV	"X'80'" IRARASD.127: Address space is a server (WLM goal is not being honored for this address space because it is a server)
		.1... ..		RASDQSC	"X'40'" IRARASD.133: Address space was quiesced by a RESET command or IWMRESET macro
		..1.		RASDRESET	"X'20'" IRARASD.414: Address space was reset to the service class or performance group by the RESET command or IWMRESET macro. NOTE: Although this flag is in the goal mode section of the output, it is set when appropriate in compatibility mode too.
		...1		RASDTAF	"X'10'" IRARASD.572: Address space has temporal affinities
45	(2D)	CHARACTER	3	RASDRSV3	IRARASD.139: Reserved
48	(30)	CHARACTER	4	RASDSCTK	IRARASD.409: Service class token

Table 856. Structure RASD (continued)

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
52	(34)	CHARACTER	4	RASDCINF(0)	IRARASD.145: Compatibility mode information
52	(34)	SIGNED	2	RASDPGN	IRARASD.148: Performance group number
54	(36)	SIGNED	2	RASDDMN	IRARASD.154: Domain number
56	(38)	BITSTRING	8	RASDIECPUTIME	IRARASD.250: Cumulative CPU time for all completed independent enclaves owned by the address space. Same units as AscbEjst.
64	(40)	BITSTRING	8	RASDDECPUTIME	IRARASD.271: Cumulative CPU time for all completed dependent and monenv enclaves owned by the address space. Same units as AscbEjst.
72	(48)	CHARACTER	1	RASDEND1(0)	IRARASD.160: end for version 1
72	(48)	CHARACTER	8	RASDOUT2(0)	IRARASD.383: RASD output fields added for version 2
72	(48)	CHARACTER	4	RASDSUBT	IRARASD.404: Subsystem type that owns the work
76	(4C)	CHARACTER	2	RASDMAXLEN	IRARASD.420: Length of highest version of RASD. When versions beyond 2 are added, a caller who has assembled at version 2 can use this field to dynamically obtain storage for the highest version of the RASD. Although the caller won't know what the extra fields are, the caller can include them in a raw dump or trace.
78	(4E)	CHARACTER	2	RASDRSV4	IRARASD.426: Reserved for future use
80	(50)	CHARACTER	1	RASDEND2(0)	IRARASD.395: end for version 2
80	(50)	CHARACTER	20	RASDOUT3(0)	IRARASD.386: RASD output fields added for version 3
80	(50)	SIGNED	4	RASDWSS	IRARASD.389: Number of primary working set pages
84	(54)	SIGNED	4	RASDTWSS	IRARASD.440: Target working set size
88	(58)	SIGNED	4	RASDPSO	IRARASD.433: Number of pages swapped at last swap out
92	(5C)	SIGNED	4	RASDFIX	IRARASD.439: Number of fixed frames
96	(60)	SIGNED	4	RASDTRR	IRARASD.446: Transaction residency time in 1024-microsecond units
100	(64)	CHARACTER	1	RASDEND3(0)	IRARASD.373: end for version 3
100	(64)	CHARACTER	12	RASDOUT4(0)	IRARASD.337: RASD output fields added for version 4
100	(64)	BITSTRING	4	RASDFLAGS1(0)	IRARASD.340: Flags
100	(64)	BITSTRING	1	RASDFLG1(0)	IRARASD.752: First flag byte

IRARASD mapping

Table 856. Structure RASD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		RASDCPROTCPU	"X'80'" IRARASD.747: Service class assigned by classification or RESET SRVCLASS was designated CPU-critical in the active policy
		.1...		RASDCPROTSTG	"X'40'" IRARASD.763: Address space is serving transactions which belong to a service class that was designated storage-critical in the active policy's classification rules
		..1.		RASDASPROTSTG	"X'20'" IRARASD.764: Address space matched a classification rule in the active policy which was designated storage-critical
		...1		RASDTRXNMGMTXEMPT	"X'10'" IRARASD.770: Address space matched a classification rule in the active policy which prevents managing the region based on the response time goals of its served transactions
		.... 1...		RASDCPUPROTECTED	"X'08'" IRARASD.776: CPU protection was assigned either to the address space (see RasdCProtCpu) or to transaction service classes being served by the space, and SRM is honoring the protection
		.... .1..		RASDSTGPROTECTED	"X'04'" IRARASD.782: Storage protection was assigned either to the address space (see RasdASProtStg) or to transaction service classes being served by the space (see RasdCProtStg), and SRM is honoring the protection
		.... ..1.		RASDTRXNMGMTBOTH	"X'02'" IRARASD.788: Address space matched a classification rule which specified "Manage Region Using Goals Of BOTH". Which means it is managed towards the velocity goal of the region. But, transaction completions are reported and used for management of the transaction service classes with response time goals. This option should only be used with CICS TORs, the associated AORs should remain at the default "Manage Region Using Goals Of TRANSACTION".
101	(65)	BITSTRING	1	RASDFLG2(0)	IRARASD.524: Second flag byte

Table 856. Structure RASD (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
		1...	....		RASDCIOPRIOGROUP	"X'80'" IRARASD.485: Service class assigned by classification or RESET SRVCLASS belongs to I/O priority group HIGH in the active policy
		.1...	....		RASDIOPRIORITYGROUP	"X'40'" IRARASD.491: I/O priority group HIGH was assigned either to the address space (see RasdCioPrioGroup) or to transaction service classes served by the space
104	(68)	BITSTRING		4	RASDSRMTOKEN	IRARASD.552: IWMCLSFY SRMTOKEN output value
108	(6C)	CHARACTER		4		IRARASD.582: Reserved
112	(70)	CHARACTER		1	RASDEND4(0)	IRARASD.513: end for version 4
112	(70)	CHARACTER		32	RASDOUT5(0)	IRARASD.341: RASD output fields added for version 5
112	(70)	BITSTRING		8	RASDENCTIMEONIFA	IRARASD.615: Cumulative IFA time for all completed independent enclaves owned by the address space (STCK format)
120	(78)	BITSTRING		8	RASDDEPENCTIMEONIFA	IRARASD.621: Cumulative IFA time for all completed dependent enclaves owned by the address space (STCK format)
128	(80)	BITSTRING		8	RASDENCTIMEIFAONCP	IRARASD.627: Cumulative IFA_on_CP time for all completed independent enclaves owned by the address space (STCK format)
136	(88)	BITSTRING		8	RASDDEPENCTIMEIFAONCP	IRARASD.633: Cumulative IFA_On_CP time for all completed independent enclaves owned by the address space (STCK format)
144	(90)	CHARACTER		1	RASDEND5(0)	IRARASD.606: end for version 5
144	(90)	CHARACTER		48	RASDOUT6(0)	IRARASD.642: RASD output fields added for version 6
144	(90)	BITSTRING		8	RASDENCTIMEONSUP	IRARASD.598: Cumulative SUP time for all completed independent enclaves owned by the address space (STCK format)
152	(98)	BITSTRING		8	RASDDEPENCTIMEONSUP	IRARASD.595: Cumulative SUP time for all completed dependent enclaves owned by the address space (STCK format)
160	(A0)	BITSTRING		8	RASDENCTIMESUPONCP	IRARASD.645: Cumulative SUP_on_CP time for all completed independent enclaves owned by the address space (STCK format)
168	(A8)	BITSTRING		8	RASDDEPENCTIMESUPONCP	IRARASD.652: Cumulative SUP_On_CP time for all completed independent enclaves owned by the address space (STCK format)

IRARASD mapping

Table 856. Structure RASD (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
176	(B0)	BITSTRING		8	RASDNCNTIMESUPQUAL	IRARASD.670: Cumulative time of independent enclave owned by the address space that was qualified for SUP (STCK format)
184	(B8)	BITSTRING		8	RASDDEPENCTIMESUPQUAL	IRARASD.676: Cumulative time of dependent enclave owned by the address space that was qualified for SUP (STCK format)
192	(C0)	CHARACTER		1	RASDEND6(0)	IRARASD.658: end for version 6
192	(C0)	CHARACTER		1	RASDEND(0)	IRARASD.563: insert new sections before thispoint
IRARASD.181: size of rasd						
192	(C0)	X'C0'		0	RASDSIZE	"192"
IRARASD.13: size of workarea for REQFASD						
192	(C0)	X'200'		0	RQFASDWA	"512"
IRARASD.334: size of IRARMF81's dynamic area						
192	(C0)	X'E8'		0	F81DSIZE	"232"
IRARASD.32: size of IRARMASD's dynamic area						
192	(C0)	X'A2'		0	ASDDSIZE	"162"
IRARASD.712: size of IRARMASD's dynamic area without savearea size						
192	(C0)	X'12'		0	ASDDSIZE_DYN	"18"
192	(C0)	X'C0'		0	RASD_LEN	"*-RASD"

Table 857. Cross Reference for IRARASD

Name	Offset	Hex Tag
ASDDSIZE	C0	A2
ASDDSIZE_DYN	C0	12
F81DSIZE	C0	E8
RASD	0	
RASD_LEN	C0	C0
RASDACRO	0	
RASDASPROTSTG	64	20
RASDBITS	9	
RASDCINF	34	
RASDCIOPRIOGROUP	65	80
RASDCPROTCPU	64	80
RASDCPROTSTG	64	40
RASDCPUPROTECTED	64	8
RASDDECPUTIME	40	
RASDDEPENCTIMEIFAONCP	88	
RASDDEPENCTIMEONIFA	78	
RASDDEPENCTIMEONSUP	98	
RASDDEPENCTIMESUPONCP	A8	
RASDDEPENCTIMESUPQUAL	B8	
RASDDMN	36	

Table 857. Cross Reference for IRARASD (continued)

Name	Offset	Hex Tag
RASDENCTIMEIFAONCP	80	
RASDENCTIMEONIFA	70	
RASDENCTIMEONSUP	90	
RASDENCTIMESUPONCP	A0	
RASDENCTIMESUPQUAL	B0	
RASDEND	C0	
RASDEND1	48	
RASDEND2	50	
RASDEND3	64	
RASDEND4	70	
RASDEND5	90	
RASDEND6	C0	
RASDFIX	5C	
RASDFLAGS1	64	
RASDFLG1	64	
RASDFLG2	65	
RASDGINF	C	
RASDIECPUTIME	38	
RASDIN	4	
RASDIOPRIORITYGROUP	65	40
RASDLEN	4	
RASDMAXLEN	4C	
RASDMODE	9	80
RASDOUT	8	
RASDOUT2	48	
RASDOUT3	50	
RASDOUT4	64	
RASDOUT5	70	
RASDOUT6	90	
RASDPER#	8	
RASDPGN	34	
RASDPSO	58	
RASDQSC	2C	40
RASDRCL	24	
RASDRESET	2C	20
RASDRGRP	1C	
RASDRSV2	A	
RASDRSV3	2D	
RASDRSV4	4E	
RASDSCL	C	
RASDSCTK	30	
RASDSIZE	C0	C0
RASDSRMTOKEN	68	
RASDSRV	2C	80
RASDSTAT	2C	
RASDSTGPROTECTED	64	4
RASDSUBT	48	
RASDTAF	2C	10
RASDTRR	60	

IRARASD mapping

Table 857. Cross Reference for IRARASD (continued)

Name	Offset	Hex Tag
RASDTRXNMGMTBOTH	64	2
RASDTRXNMGMTXEMPT	64	10
RASDTWSS	54	
RASDWALEN	6	
RASDWKLD	14	
RASDWSS	50	
RQFASDWA	C0	200

Chapter 228. IRARENF1 Information

IRARENF1 Programming Interface Information

IRARENF1 is a programming interface.

IRARENF1 Heading Information

Common Name: ENF signal 42 qualifiers
 Macro ID: IRARENF1
 DSECT Name: N/A
 Owning Component: SRM (SC1CX)
 Eye-Catcher ID: N/A
 Offset: N/A
 Length: N/A
 Storage Attributes: Subpool: Any
 Key: 0
 Residency: Above 16M line
 Size: 4 bytes
 Created by: Caller
 Pointed to by: N/A
 Serialization: None
 Function: Contains qualifiers for ENF signal 42

IRARENF1 mapping

Table 858. Structure SRMENF1

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	0	SRMENF1	ENF signal 42 qualifiers
0	(0)	BITSTRING	1	SRME1	Byte 1
1	(1)	BITSTRING	1	SRME2	Byte 2
2	(2)	BITSTRING	1	SRME3	Byte 3
3	(3)	BITSTRING	1	SRME4	Byte 4
		....		SRMENF11	"X'80000000'" MODIFY WLM, MODE=COMPAT command issued
		....		SRMENF12	"X'40000000'" MODIFY WLM, MODE=COMPAT command completed
		....		SRMENF13	"X'20000000'" MODIFY WLM, MODE=COMPAT command failed
		....		SRMENF14	"X'10000000'" MODIFY WLM, MODE=GOAL command issued
		....		SRMENF15	"X'08000000'" MODIFY WLM, MODE=GOAL command completed
		....		SRMENF16	"X'04000000'" MODIFY WLM, MODE=GOAL command failed
3	(3)	BITSTRING	0	SRMENF21	"X'00800000'" SET IPS command issued
3	(3)	BITSTRING	0	SRMENF22	"X'00400000'" SET IPS command completed
3	(3)	BITSTRING	0	SRMENF23	"X'00200000'" SET IPS command failed

IRARENF1 mapping

Table 858. Structure SRMENF1 (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
3	(3)	BITSTRING		0	SRMENF24	"X'00100000'" SET ICS command issued
3	(3)	BITSTRING		0	SRMENF25	"X'00080000'" SET ICS command completed
3	(3)	BITSTRING		0	SRMENF26	"X'00040000'" SET ICS command failed

Table 859. Cross Reference for IRARENF1

Name	Offset	Hex Tag
SRMENF1	0	
SRMENF11	3	0
SRMENF12	3	0
SRMENF13	3	0
SRMENF14	3	0
SRMENF15	3	0
SRMENF16	3	0
SRMENF21	3	800000
SRMENF22	3	400000
SRMENF23	3	200000
SRMENF24	3	100000
SRMENF25	3	80000
SRMENF26	3	40000
SRME1	0	
SRME2	1	
SRME3	2	
SRME4	3	

Chapter 229. IRARMCTZ Information

IRARMCTZ Programming Interface Information

IRARMCTZ is a programming interface.

IRARMCTZ Heading Information

Common Name: Resources Manager Control Table Extens. 3
 Macro ID: IRARMCTZ
 DSECT Name: Rmctz
 Owing Component: SYSTEMS RESOURCE MANAGER (SC1CX)
 Eye-Catcher ID: IRARMCTZ
 Offset: 0
 Length: 8
 Storage Attributes: Main Storage: ESQA
 Subpool: 245
 Key: 0
 Residency: Above 16M line
 Size: 1260 bytes @LRMFPCPU
 Created by: IEAVNP10
 Pointed to by: RMCTX3
 Serialization: NONE
 Function: This block contains programming interface data needed for customer use e.g. for RMF or vendor products

IRARMCTZ mapping

Table 860. Structure RMCTZ

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	RMCTZ	
0	(0)	CHARACTER	8	RMCTZ_NAME	control block acronym > IRARMCTZ <
8	(8)	BITSTRING	1	RMCTZ_VERSION	Rmctz version
9	(9)	BITSTRING	1		Reserved
10	(A)	SIGNED	2	RMCTZ_LENGTH	Size of RMCTZ
12	(C)	BITSTRING	1	RMCTZ_LPAR_FLAGS	LPAR Management flags updated by SRM.
Bit definitions:					
		1...		RMCTZ_LPARMGMT_ENABLED	"X'80'" ON if WLM LPAR Management Processing is enabled
		.1..		RMCTZ_LPAR_VARYCPU_ENABLED	"X'40'" ON if VARYCPU option is turned on either by default or is explicitly set to 'on'
13	(D)	BITSTRING	1	RMCTZ_FLAG1	RMCTZ Flag 1
Bit definitions:					
		1...		RMCTZ_ABN_OPT	"X'80'" 1:=ABNORMALTERM option set to NO
		.1..		RMCTZ_MANAGE_NONENCLAVE_WORK	

IRARMCTZ mapping

Table 860. Structure RMCTZ (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"X'40'" 1:=Manage address space transaction work of enclave servers
		..11 1111		RMCTZ_FLAG1_RSVD1	"X'3F'" reserved
14	(E)	BITSTRING	1	RMCTZ_FLAG2	RMCTZ Flag 2
Bit definitions:					
		1...		RMCTZ_VCM_OPT	"X'80'" 1:=VCM specified
		.1..		RMCTZ_VCM	"X'40'" 1:=Running in vertical CP management mode
		..1.		RMCTZ_IOMS	"X'20'" 1:= I/O management support turned on
		...1		RMCTZ_FULLPRESYSTEM	"X'10'" 1:=FullPreSystem specified
		.... 1111		RMCTZ_FLAG2_RSVD1	"X'0F'" reserved
15	(F)	BITSTRING	1	RMCTZ_RSVD1	reserved
16	(10)	SIGNED	2	RMCTZ_INITIMP_DP	Initiator dispatching priority
18	(12)	SIGNED	2	RMCTZ_INITIMP	INITIMP value specified in IEAOPTxx member
20	(14)	CHARACTER	1	RMCTZ_LPAR_WTMGMT	LPAR Weight management section
20	(14)	BITSTRING	1	RMCTZ_LPAR_VARYCPUMIN	Minimum number of CPs which must stay online
21	(15)	BITSTRING	1	RMCTZ_WASROUTINGLEVEL	Keeps status of WASROUTINGLEVEL IEAOPT parameter. If the routing level is 0, WLM uses the newest routing algorithm which is supported by all systems in the sysplex. Level 1 activates ROUNDROBIN algorithm, Level 2 uses only available CP capacity for routing recommendations and Level 3 uses CP, AAP and IIP capacity for routing decisions.
22	(16)	SIGNED	2		reserved
24	(18)	BITSTRING	8	RMCTZ_CAPACITY_CHANGE_TIME	Time when the capacity was last changed
32	(20)	BITSTRING	1	RMCTZ_CAPACITY_ADJUSTMENT_INDICATION	When zero, the indication is not reported. When in the range 1-99, some amount of reduction is indicated. When 100, the machine is operating at its normal capacity. Primary CPUs and all secondary-type CPUs are similarly affected
33	(21)	BITSTRING	1	RMCTZ_CAPACITY_CHANGE_REASON	indicates the reason which is associated with the present value contained in RMCTZ_Capacity_Adjustment_Indication
34	(22)	BITSTRING	1	RMCTZ_CAI_IPL	capacity adjustment indication at IPL
35	(23)	BITSTRING	1	RMCTZ_CCR_IPL	capacity change reason at IPL

Table 860. Structure RMCTZ (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
36	(24)	SIGNED		4	RMCTZ_NOMINAL_CPMP	nominal CPU adjustment factor (similar to RMCTCPMP but for nominal speed)
40	(28)	SIGNED		4	RMCTZ_RMF_CPU_SAMPLING_INDEX	index of RMF CPU samling area
44	(2C)	SIGNED		4	RMCTZ_ADJC_CEC	CPU rate adjustment factor based on the number of physical CPUs available for the logical partitions to share
48	(30)	SIGNED		4	RMCTZ_CEC_CAPACITY	Total CEC capacity derivated from <code>rmctz_adjc_CEC</code> service units per 10 seconds. The value is based on the number of physical CPUs available for the logical partitions to share
52	(34)	BITSTRING		1	RMCTZ_IOMS_OPT	STORAGESERVERMGT opt parameter: 0 : NO 1 : YES
53	(35)	CHARACTER		3		reserved
56	(38)	BITSTRING		8	RMCTZ_LAST_PA_TOD	Time when last PA interval finished
64	(40)	CHARACTER		192	RMCTZ_UNUSED	reserved
256	(100)	CHARACTER		24	RMCTZ_RMF_CPU_SAMPLING_AREA	area contains 40 CPU sampling table entries which where updated in IRASAPRO using IEAVEWDI. One entry contains CPU using and delay data per processor type (CP, IFA, SUP). The value 40 = (10 seconds * (4 * 250 milliseconds)). One entry= 24 (6 * 4).
256	(100)	CHARACTER		24	RMCTZ_RMF_CPU_SAMPLING_ENTRY	sampling entry containing cp/ifa/sup using and delay samples
256	(100)	SIGNED		4	RMCTZ_RMF_CP_USING_SAMPLES	CPU using samples
260	(104)	SIGNED		4	RMCTZ_RMF_IFA_USING_SAMPLES	IFA using sample
264	(108)	SIGNED		4	RMCTZ_RMF_SUP_USING_SAMPLES	SUP using sample
268	(10C)	SIGNED		4	RMCTZ_RMF_CP_DELAY_SAMPLES	CPU delay samples
272	(110)	SIGNED		4	RMCTZ_RMF_IFA_DELAY_SAMPLES	IFA delay sample
276	(114)	SIGNED		4	RMCTZ_RMF_SUP_DELAY_SAMPLES	SUP delay sample
1216	(4C0)	CHARACTER		44	RMCTZ_SRM_QUEUES_COUNTER	counters for all SRM queues
1216	(4C0)	SIGNED		4	RMCTZ_SRM_OUT_WAIT_QUEUE_COUNT	counter of SRM wait-queue
1220	(4C4)	SIGNED		4	RMCTZ_SRM_LOGICAL_OUT_WAIT_QUEUE_COUNT	counter of SRM logical-swap-wait queue
1224	(4C8)	SIGNED		4	RMCTZ_SRM_OUT_READY_QUEUE_COUNT	counter of SRM out-queue

IRARMCTZ mapping

Table 860. Structure RMCTZ (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
1228	(4CC)	SIGNED	4	RMCTZ_SRM_LOGICAL_OUT_READY_QUEUE_COUNT	counter of SRM out-queue for logical swapped out AS's
1232	(4D0)	SIGNED	4	RMCTZ_SRM_IN_QUEUE_COUNT	counter of SRM in-queue
1236	(4D4)	SIGNED	4	RMCTZ_SRM_INREADY_QUEUE_COUNT	counter of SRM in-queue with processor using and delays in the AS
1240	(4D8)	CHARACTER	20	RMCTZ_AS_CLASS_COUNTERS	address space class counters
1240	(4D8)	SIGNED	4	RMCTZ_STC_COUNT	number of Started Task address spaces
1244	(4DC)	SIGNED	4	RMCTZ_OMVS_COUNT	number of OMVS address spaces
1248	(4E0)	SIGNED	4	RMCTZ_ASCH_COUNT	number of APPC address spaces
1252	(4E4)	SIGNED	4	RMCTZ_BTCH_COUNT	number of Batch address spaces
1256	(4E8)	SIGNED	4	RMCTZ_TSO_COUNT	number of TSO address spaces
1260	(4EC)	BITSTRING	1	RMCTZ_ROUTING_PI_FACTOR_PERCENTAGE	How much % of the PI should we use in the routing calculation reserved
1261	(4ED)	CHARACTER	3		
1264	(4F0)	CHARACTER	12	RMCTZ_MT_AREA	SMT section
1264	(4F0)	BITSTRING	1	RMCTZ_MT_FLAGS	SMT Flags

Bit definitions:

		1...		RMCTZ_PROCVIEW	"X'80'" 1:=core
		.1..		RMCTZ_MT	"X'40'" 1:=Multiple Threads per Core
1265	(4F1)	CHARACTER	3		Reserved
1268	(4F4)	SIGNED	4	RMCTZ_MT_STAT	Current status
1268	(4F4)	BITSTRING	1	RMCTZ_MT_CP	for CPs
1269	(4F5)	BITSTRING	1	RMCTZ_MT_ZAAP	for zAAPs
1270	(4F6)	BITSTRING	1	RMCTZ_MT_ZIIP	for zIIPs
1271	(4F7)	BITSTRING	1		Reserved
1272	(4F8)	SIGNED	4	RMCTZ_MT_OPT	OPT
1272	(4F8)	BITSTRING	1	RMCTZ_MT_OPT_CP	for CPs
1273	(4F9)	BITSTRING	1	RMCTZ_MT_OPT_ZAAP	for zAAPs
1274	(4FA)	BITSTRING	1	RMCTZ_MT_OPT_ZIIP	for zIIPs
1275	(4FB)	BITSTRING	1		Reserved
1276	(4FC)	ADDRESS	4	RMCTZ_CPULIVEPREVOPTCOREMODE	
1280	(500)	CHARACTER	1	RMCTZEND(0)	End of RMCTZ Forced to DWORD boundary
1280	(500)	X'D9C1D9'	0	RMCTZ_EYECATCHER_0T03	"C'IRAR'" This is the first 4-byte segment of an 8-byte constant. eyecatcher
1280	(500)	X'C3E3E9'	0	RMCTZ_EYECATCHER_4T07	"C'MCTZ'" This is the second 4-byte segment of an 8-byte constant. eyecatcher
1280	(500)	X'4'	0	RMCTZ_CVERSION	"4" current RMCTZ version
1280	(500)	X'28'	0	RMCTZ_RMF_CPU_SAMPLING_TABLE_VALUE	"40"

Value of RMF CPU sampling table entries. It follows from sampling cycle 250 milliseconds, this means 4 samples in a second and this follows 40 entries in a 10 second RMF sampling interval

Table 860. Structure RMCTZ (continued)

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
1280	(500)	X'0'	0	RMCTZ_CAI_NO_INDICATION	"0" Capacity Adjustment Indication is not reported
1280	(500)	X'64'	0	RMCTZ_CAI_NORMAL	"100" The machine is operating at its normal capacity.
1280	(500)	X'0'	0	RMCTZ_CCR_NORMAL	"0" When the Capacity Adjustment Indication is non-zero, the System is running at nominal capacity.
1280	(500)	X'1'	0	RMCTZ_CCR_MANUAL	"1" The capacity change is due solely to the setting of a manual control (e.g. Power Savings Mode)
1280	(500)	X'2'	0	RMCTZ_CCR_MACHINE_EXCEPTION	"2" The capacity change is due to a machine-exception condition (e.g. MRU hard failure)
1280	(500)	X'3'	0	RMCTZ_CCR_MACHINE_NON_EXCEPTION	"3" The capacity change is due to a non-exception machine condition (e.g. firmware update)
1280	(500)	X'4'	0	RMCTZ_CCR_EXTERNAL_EXCEPTION	"4" The capacity change is due to an exception condition external to the machine (e.g. ambient temperature exceeded specified maximum value)
1280	(500)	X'500'	0	RMCTZ_LEN	"*-RMCTZ"

Table 861. Cross Reference for IRARMCTZ

Name	Offset	Hex	Tag
RMCTZ	0		
RMCTZ_ABN_OPT	D		80
RMCTZ_ADJC_CEC	2C		
RMCTZ_AS_CLASS_COUNTERS	4D8		
RMCTZ_ASCH_COUNT	4E0		
RMCTZ_BTCH_COUNT	4E4		
RMCTZ_CAI_IPL	22		
RMCTZ_CAI_NO_INDICATION	500		0
RMCTZ_CAI_NORMAL	500		64
RMCTZ_CAPACITY_ADJUSTMENT_INDICATION	20		
RMCTZ_CAPACITY_CHANGE_REASON	21		
RMCTZ_CAPACITY_CHANGE_TIME	18		
RMCTZ_CCR_EXTERNAL_EXCEPTION	500		4
RMCTZ_CCR_IPL	23		
RMCTZ_CCR_MACHINE_EXCEPTION	500		2
RMCTZ_CCR_MACHINE_NON_EXCEPTION	500		3
RMCTZ_CCR_MANUAL	500		1
RMCTZ_CCR_NORMAL	500		0
RMCTZ_CEC_CAPACITY	30		
RMCTZ_CPUALIVEPREVOPTCOREMODE	4FC		
RMCTZ_CVERSION	500		4

IRARMCTZ mapping

Table 861. Cross Reference for IRARMCTZ (continued)

Name	Offset	Hex Tag
RMCTZ_EYECATCHER_0T03	500	D9C1D9
RMCTZ_EYECATCHER_4T07	500	C3E3E9
RMCTZ_FLAG1	D	
RMCTZ_FLAG1_RSVD1	D	3F
RMCTZ_FLAG2	E	
RMCTZ_FLAG2_RSVD1	E	F
RMCTZ_FULLPRESYSTEM	E	10
RMCTZ_INITIMP	12	
RMCTZ_INITIMP_DP	10	
RMCTZ_IOMS	E	20
RMCTZ_IOMS_OPT	34	
RMCTZ_LAST_PA_TOD	38	
RMCTZ_LEN	500	500
RMCTZ_LENGTH	A	
RMCTZ_LPAR_FLAGS	C	
RMCTZ_LPAR_VARYCPU_ENABLED	C	40
RMCTZ_LPAR_VARYCPUMIN	14	
RMCTZ_LPAR_WTMGMT	14	
RMCTZ_LPARMGMT_ENABLED	C	80
RMCTZ_MANAGE_NONENCLAVE_WORK	D	40
RMCTZ_MT	4F0	40
RMCTZ_MT_AREA	4F0	
RMCTZ_MT_CP	4F4	
RMCTZ_MT_FLAGS	4F0	
RMCTZ_MT_OPT	4F8	
RMCTZ_MT_OPT_CP	4F8	
RMCTZ_MT_OPT_ZAAP	4F9	
RMCTZ_MT_OPT_ZIIP	4FA	
RMCTZ_MT_STAT	4F4	
RMCTZ_MT_ZAAP	4F5	
RMCTZ_MT_ZIIP	4F6	
RMCTZ_NAME	0	
RMCTZ_NOMINAL_CPMP	24	
RMCTZ_OMVS_COUNT	4DC	
RMCTZ_PROCVIEW	4F0	80
RMCTZ_RMF_CP_DELAY_SAMPLES	10C	
RMCTZ_RMF_CP_USING_SAMPLES	100	
RMCTZ_RMF_CPU_SAMPLING_AREA	100	
RMCTZ_RMF_CPU_SAMPLING_ENTRY	100	
RMCTZ_RMF_CPU_SAMPLING_INDEX	28	
RMCTZ_RMF_CPU_SAMPLING_TABLE_VALUE	500	28
RMCTZ_RMF_IFA_DELAY_SAMPLES	110	
RMCTZ_RMF_IFA_USING_SAMPLES	104	
RMCTZ_RMF_SUP_DELAY_SAMPLES	114	
RMCTZ_RMF_SUP_USING_SAMPLES	108	
RMCTZ_ROUTING_PI_FACTOR_PERCENTAGE	4EC	
RMCTZ_RSVD1	F	
RMCTZ_SRM_IN_QUEUE_COUNT	4D0	
RMCTZ_SRM_INREADY_QUEUE_COUNT	4D4	

Table 861. Cross Reference for IRARMCTZ (continued)

Name	Offset	Hex Tag
RMCTZ_SRM_LOGICAL_OUT_READY_QUEUE_COUNT	4CC	
RMCTZ_SRM_LOGICAL_OUT_WAIT_QUEUE_COUNT	4C4	
RMCTZ_SRM_OUT_READY_QUEUE_COUNT	4C8	
RMCTZ_SRM_OUT_WAIT_QUEUE_COUNT	4C0	
RMCTZ_SRM_QUEUES_COUNTER	4C0	
RMCTZ_STC_COUNT	4D8	
RMCTZ_TSO_COUNT	4E8	
RMCTZ_UNUSED	40	
RMCTZ_VCM	E	40
RMCTZ_VCM_OPT	E	80
RMCTZ_VERSION	8	
RMCTZ_WASROUTINGLEVEL	15	
RMCTZEND	500	

IRARMCTZ mapping

Chapter 230. IRASRCD Information

IRASRCD Programming Interface Information

IRASRCD is a programming interface.

IRASRCD Heading Information

Common Name: System Resource Manager Swapout Reason Codes
Macro ID: IRASRCD
DSECT Name: N/A
Owning Component: System Resource Manager (SC1CX)
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 IRASRCD macro defines the codes which describe the reasons for swapping users out of memory. The codes are placed in an OUCB field (OUCBSRC) prior to requesting that a user be swapped out.

IRASRCD mapping

Table 862. Structure

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

IRASRCD mapping

Table 862. Structure (continued)

Offset	Offset		Len	Name(Dim)	Description
Dec	Hex	Type			
		IRASRCD_1;;			
		START OF SPECIFICATIONS			
01		PROPRIETARY STATEMENT=			
		LICENSED MATERIALS - PROPERTY OF IBM			
		THIS MACRO IS "RESTRICTED MATERIALS OF IBM"			
		5655-068 (C) COPYRIGHT IBM CORP. 1982, 2001			
		Status= HBB7705			
		END_OF_PROPRIETARY_STATEMENT			
01		External classification: PSPI			
01		End of External classification			
01		Descriptive Name: System Resource Manager Swapout Reason Codes			
02		Acronym: SRCD			
01		Macro Name: IRASRCD			
01		DSECT Name: N/A			
01		Component: System Resource Manager (SC1CX)			
01		Eye-Catcher: None			
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:			
02					
		The IRASRCD macro defines the codes which describe the reasons for swapping users out of memory. The codes are placed in an OUCB field (OUCBSRC) prior to requesting that a user be swapped out.			
01		METHOD OF ACCESS:			
02		ASM:			
		IRASRCD			
02		PL/AS:			
		%REASONS='YES' If the reason table is to be included			
		%INCLUDE SYSLIB(IRASRD)			
		Default: %REASONS='NO' -- Do not include swapout reasons text			
01		Change Activity:			
		OY16627 - 880824 - CORRECT INPUT TERMINAL WAIT AND OUTPUT TERMINAL WAIT SWAP REASON CODES			
		\$L1=APPC1 HBB4420 890905 PD88CL: APPC RELEASE 1 SUPPORT FOR APPCREQ NEW SYSEVENT			
		\$L2=WSMGT HBB4420 900716 PD88CT: DEFINE NEW SWAP REASON CODES FOR WSMGT.			
		\$L3=POSIX HBB4430 911022 PD88AK: DEFINE NEW SWAP REASON CODE FOR OpenMVS SUPPORT.			
		\$D1=DKB0035 HBB4430 920501 PD88AK: DEFINE NEW SWAP REASON CODE FOR OpenMVS SUPPORT (OUTPUT WAIT).			
		\$P1=PN70768 HBB5520 940607 PD88AK: Make bilingual and showhdr compliant			
		\$WLMPIRS HBB7705 000717 3241KS: Gisela Kern-Sparrer In-Real Swap			
		\$PX00755 HBB7705 001108 3241DW: \$WLMPIRS - Dieter Wellerdiek Add REALSWAP swap reason code			
		END OF SPECIFICATIONS			
0	(0)	X'1'	0	SRCDTOSC	"1" TERM OUTPUT WAIT SWAPOUT
0	(0)	X'2'	0	SRCDTISC	"2" TERMINAL INPUT WAIT SWAPOUT
0	(0)	X'3'	0	SRCDLWSC	"3" LONG WAIT CAUSED SWAP

Table 862. Structure (continued)

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
0	(0)	X'4'	0	SRCDXSSC	"4" AUX STOR SHORTAGE CAUSED SWP
0	(0)	X'5'	0	SRCDRSSC	"5" REAL STOR SHORT CAUSED SWAP
0	(0)	X'6'	0	SRCDDWSC	"6" DETECTED WAIT CAUSED SWAP
0	(0)	X'7'	0	SRCDRSV7	"7" reserved, was REQSWAP
0	(0)	X'8'	0	SRCDNQSC	"8" CAP ENQ EXCHANGE SWAPOUT
0	(0)	X'9'	0	SRCDEXSC	"9" CAP EXCHANGE BASED UPON RECOMMENDATION VALUES
0	(0)	X'A'	0	SRCDUSSC	"10" CAP UNILATERAL SWAPOUT
0	(0)	X'B'	0	SRCDTSSC	"11" TRANSITION SWAP
0	(0)	X'C'	0	SRCDICSC	"12" SWAP TO IMPROVE CENTRAL STORAGE USAGE
0	(0)	X'D'	0	SRCDIPSC	"13" SWAP TO IMPROVE SYSTEM PAGING RATE
0	(0)	X'E'	0	SRCDMRSC	"14" SWAP TO MAKE ROOM FOR AN OUT TOO LONG ADDRESS SPACE
0	(0)	X'F'	0	SRCDAWSC	"15" APPC VERB SERVICE WAIT
0	(0)	X'10'	0	SRCDOISC	"16" WAITING TO PROCESS MORE OpenMVS WORK CAUSED THE SWAP (INPUT)
0	(0)	X'11'	0	SRCDOOSC	"17" WAITING TO OUTPUT MORE OpenMVS WORK CAUSED THE SWAP
0	(0)	X'12'	0	SRCIRSSC	"18" REALSWAP SYSEVENT CAUSED SWAP
0	(0)	X'12'	0	SRCDMAXN	"18" MAXIMUM VALID SWAP REASON CODE NUMBER

Table 863. Cross Reference for IRASRCD

Name	Offset	Hex Tag
SRCDAWSC	0	F
SRCDDWSC	0	6
SRCDEXSC	0	9
SRCDICSC	0	C
SRCDIPSC	0	D
SRCDLWSC	0	3
SRCDMAXN	0	12
SRCDMRSC	0	E
SRCDNQSC	0	8
SRCDOISC	0	10
SRCDOOSC	0	11
SRCDRSSC	0	5
SRCDRSV7	0	7
SRCDTISC	0	2
SRCDTOSC	0	1
SRCDTSSC	0	B
SRCDUSSC	0	A
SRCDXSSC	0	4
SRCIRSSC	0	12

IRASRCD mapping

Chapter 231. IRASRMST Information

IRASRMST Programming Interface Information

IRASRMST is a programming interface.

IRASRMST Heading Information

Common Name: Request SRM Status Sysevent Parameter List
Macro ID: IRASRMST
DSECT Name: SRMSTAT
Owning Component: SYSTEM RESOURCE MANAGER (SC1CX)
Eye-Catcher ID: none
Storage Attributes: Main Storage: n/a
Virtual Storage: n/a
Subpool: Storage must be non-pageable
Key: Sysevent caller's key
Residency: n/a
Size: 120 BYTES
Created by: Invoker of the REQSRMST sysevent
Pointed to by: Register 1 on sysevent invocation
Serialization: none
Function: This macro defines the parameter list of data that is returned via the REQSRMST sysevent. The storage for this parameter list must be obtained by the issuer of the sysevent and the storage must be non-pageable. The SRMSTLEN field must be filled in with the length of this parameter list. The constant SRMSTSIZ can be used to set this length. The issuer must place the address of the parameter list in register 1 prior to issuing the REQSRMST sysevent. If the REQSRMST sysevent is issued with the branch entry option, the caller must also provide the address of a 72 byte standard savearea in register 13. The SRMSTMDE bit should be interrogated to determine whether the system is in goal mode or compatibility mode. If SRMSTMDE is on then the system is running in compatibility mode, otherwise the system is in goal mode. Only information pertaining to the current system mode is returned by the sysevent (the data will be zeroes for the non-active mode). See individual field descriptions and notes for further details concerning the meaning of the actual data which is returned.

IRASRMST mapping

Table 864. Structure SRMSTAT

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	0	SRMSTAT	
0	(0)	CHARACTER	4	SRMSTIN(0)	SRMST input fields

IRASRMST mapping

Table 864. Structure SRMSTAT (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	SIGNED	2	SRMSTLEN	Length of SRMSTAT
2	(2)	CHARACTER	2	SRMSTRV1	Reserved
4	(4)	CHARACTER	116	SRMSTOUT(0)	SRMST output fields
4	(4)	BITSTRING	1	SRMSTFLG(0)	flags
		1... ..		SRMSTMDE	"X'80'" Mode of the system (OFF - the system is operating in goal mode, ON - the system is operating in compatibility mode)
5	(5)	BITSTRING	1	SRMSTFF1(0)	Function availability flags for new functions introduced via APARs
		1... ..		SRMSTERG	"X'80'" Enclave Registration
		.1.. ..		SRMSTTAF	"X'40'" Temporal affinity
		..1.		SRMSTCAP	"X'20'" Monitoring data for defined capacity
		...1		SRMSTDAE	"X'10'" Dynamic Application Env. supported
		.... 1...		SRMSTELM	"X'08'" eWLM support installed
		.... .1..		SRMSTSSP	"X'04'" Stateful Session Placement is supported
		.... ..1.		SRMSTEDS	"X'02'" EWLM Delay Monitoring Services supported
		.... ...1		SRMSTSUP	"X'01'" SUP support present
6	(6)	BITSTRING	1	SRMSTFF2(0)	Function availability flags for new functions introduced via APARs
		1... ..		SRMSTEAD	"X'80'" Enclave adjustment
		.1.. ..		SRMSTWDP	"X'40'" work-dependent enclaves
		..1.		SRMSTSTS	"X'20'" SUBTASKS processing 1@ME27386D
7	(7)	CHARACTER	1	SRMSTRV2	Reserved
8	(8)	BITSTRING	8	SRMSTTOC	Current time of day indicating when the REQSRMST sysevent was issued. The timestamp is in store clock (STCK) format.
16	(10)	CHARACTER	8	SRMSTOPT	OPT parmlib member in use. NOTE: "IEAOPT--" indicates no OPT member specified.
24	(18)	CHARACTER	16	SRMSTCM(0)	The fields within this structure are applicable to MVS Workload Management compatibility mode. NOTE: All of the fields contained in this structure will be zeroed when in goal mode.
24	(18)	CHARACTER	8	SRMSTIPS	IPS parmlib member in use. NOTE: "IEAIPS--" indicates the skeleton IPS is in affect.
32	(20)	CHARACTER	8	SRMSTICS	ICS parmlib member in use. NOTE: "IEAICS--" indicates no ICS member specified.

Table 864. Structure SRMSTAT (continued)

Offset	Offset					
Dec	Hex	Type	Len	Name(Dim)		Description
40	(28)	CHARACTER	64	SRMSTGM(0)		The fields within this structure are applicable to MVS Workload Management goal mode. NOTE: All of the fields contained in this structure will be zeroed when in compatibility mode.
40	(28)	CHARACTER	8	SRMSTAPN		Active service policy name.
48	(30)	BITSTRING	8	SRMSTAPT		A timestamp of when the active service policy was originally activated. The timestamp is in store clock (STCK) format.
56	(38)	CHARACTER	8	SRMSTAPU		Userid that activated the service policy.
64	(40)	CHARACTER	8	SRMSTAPS		Name of the system on which the service policy activation was initiated.
72	(48)	CHARACTER	8	SRMSTADN		Installed service definition name at the time the policy was activated
80	(50)	BITSTRING	8	SRMSTADT		A timestamp of when the service definition was installed. The timestamp is in store clock (STCK) format.
88	(58)	CHARACTER	8	SRMSTADU		Userid that installed the service definition.
96	(60)	CHARACTER	8	SRMSTADS		Name of the system on which the service definition was installed.
104	(68)	BITSTRING	1	SRMSTTYP		Most current sysevent type supported for EnqHold and EnqRlse
105	(69)	BITSTRING	1	SRMSTELV		Most current IWMEQTME parameter list version PLISTVER supported by the system: 0 = PLISTVER 0 or 1, 2 = PLISTVER 2
106	(6A)	BITSTRING	1	SRMSTQCN		Most current IRAEVPL parameter list version supported by the system for SYSEVENT QRYCONT. 0 = SYSEVENT QRYCONT is not supported
107	(6B)	BITSTRING	1			For future use
108	(6C)	CHARACTER	12	SRMSTRV3		Reserved
120	(78)	CHARACTER	1	SRMSTEND(0)		End
120	(78)	X'78'	0	SRMSTSIZ		"120"
120	(78)	X'78'	0	SRMSTAT_LEN		"*-SRMSTAT"

Table 865. Cross Reference for IRASRMST

Name	Offset	Hex Tag
SRMSTADN	48	
SRMSTADS	60	
SRMSTADT	50	
SRMSTADU	58	
SRMSTAPN	28	

IRASRMST mapping

Table 865. Cross Reference for IRASRMST (continued)

Name	Offset	Hex Tag
SRMSTAPS	40	
SRMSTAPT	30	
SRMSTAPU	38	
SRMSTAT	0	
SRMSTAT_LEN	78	78
SRMSTCAP	5	20
SRMSTCM	18	
SRMSTDAE	5	10
SRMSTEAD	6	80
SRMSTEDS	5	2
SRMSTELM	5	8
SRMSTELV	69	
SRMSTEND	78	
SRMSTERG	5	80
SRMSTFF1	5	
SRMSTFF2	6	
SRMSTFLG	4	
SRMSTGM	28	
SRMSTICS	20	
SRMSTIN	0	
SRMSTIPS	18	
SRMSTLEN	0	
SRMSTMDE	4	80
SRMSTOPT	10	
SRMSTOUT	4	
SRMSTQCN	6A	
SRMSTRV1	2	
SRMSTRV2	7	
SRMSTRV3	6C	
SRMSTSIZ	78	78
SRMSTSSP	5	4
SRMSTSTS	6	20
SRMSTSUP	5	1
SRMSTTAF	5	40
SRMSTTOC	8	
SRMSTTYP	68	
SRMSTWDP	6	40

Chapter 232. IRB Information

IRB Heading Information

Common Name: IRB - Interrupt Response Block
 Macro ID: IHAIRB
 DSECT Name: IRB
 Owning Component: I/O Supervisor (SC1C3)
 Eye-Catcher ID: NONE
 Storage Attributes: Main Storage: YES
 Virtual Storage: n/a
 Auxiliary Storage: n/a
 Subpool: Nucleus
 Key: 0
 Residency: Above 16M
 Size: 96 Bytes
 Created by: Modules that issue a TSCH.
 IOSVSLIH uses the IOWIRB in the IOWA
 IOSVIRBH uses the IOWRIRB in the IOWA
 Pointed to by: n/a
 Serialization: None.
 Function: The IRB is the operand of the Test Subchannel
 instruction and contains the subchannel status
 word.

IRB mapping

Table 866. Structure IRB

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	96	IRB	
0	(0)	CHARACTER	12	IRBSCSW	Subchannel Status Word
0	(0)	BITSTRING	4	IRBWORD1	First word of IRB
0	(0)	BITSTRING	1	IRBFLG0	Flags
		1111		IRBKEY	o Key
		.... 1...		IRBS	o Suspend control
		.... .1..		IRBL	o ESW contains logout data
		.... ..11		IRBCC	o Deferred Condition Code
1	(1)	BITSTRING	1	IRBFLG1	Flags
		111.		IRBFMT	IRB format, when the processor supports the FCX facility and IRBX is on indicating that this is a transport mode IRB
		1...		IRBF	o Format of channel pgm.
		.1..		IRBP	o Prefetch of CCWs allowed
		..1.		IRBI	o Initial status response requested
		...1		IRBA	o Address limit checking required.

IRB mapping

Table 866. Structure IRB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		...1		IRBX	o IRB format control, for processors that support the FCX facility. When this bit is on, it indicates that this is a transport mode IRB. When this bit is off, it indicates that this is a command mode IRB.
		.... 1...		IRBSI	o Suppress suspend interruption
		.... 1...		IRBINTER	o For FCX, Interrogate operation has completed. Defined in the architecture as IRBU.
		.... .1..		IRBZ	o Zero condition code to initial selection
		.... ..1.		IRBE	o IRBEDATA contains extended data
		.... ...1		IRBN	o Path not operational
2	(2)	BITSTRING	2	IRBSCHC0	Subchannel Control
		1...		*	
		.111		IRBFC	FUNCTION Control
		.1..		IRBFSSCH	o Start Subchannel
		..1.		IRBFHSCH	o Halt Subchannel
		...1		IRBFCSCH	o Clear Subchannel
2	(2)	BITSTRING	0	IRBAC	ACTIVITY Control
		.... 1...		IRBARSCH	o Resume pending
		.... .1..		IRBASSCH	o Start pending
		.... ..1.		IRBAHSCH	o Halt pending
		.... ...1		IRBACSCH	o Clear pending
3	(3)	1...		IRBASUBA	o Subchnanel active
		.1..		IRBADEVA	o Device active
		..1.		IRBSSPND	o Subchannel suspended
		...1 1111		IRBSC	STATUS Control
		...1		IRBSALRT	o Alert status
		.... 1...		IRBSINTR	o Intermediate status
		.... .1..		IRBSPRIM	o Primary status
		.... ..1.		IRBSSEC	o Secondary status
		.... ...1		IRBSPNDG	o Status pending
4	(4)	CHARACTER	8	IRBCSW	Channel Status Word (CSW)
4	(4)	ADDRESS	4	IRBCCWAD	CCW address
4	(4)	ADDRESS	4	IRBTCWAD	TCW address
8	(8)	BITSTRING	2	IRBSTAT	Device and Subchannel status
8	(8)	BITSTRING	1	IRBDSTAT	Device Status
		1...		IRBDSATN	o Attention
		.1..		IRBDSSM	o Status modifier
		..1.		IRBDSCUE	o Control unit end
		...1		IRBDSBSY	o Busy
		.... 1...		IRBDSCE	o Channel end
		.... .1..		IRBDSDE	o Device end
		.... ..1.		IRBDSUC	o Unit check
		.... ...1		IRBDSUEX	o Unit exception
9	(9)	BITSTRING	1	IRBSSTAT	Subchannel status
		1...		IRBSSPCI	o Program controlled interrupt
		.1..		IRBSSIL	o Incorrect length
		..1.		IRBSSPGC	o Program check

Table 866. Structure IRB (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
		...1	....		IRBSSPTC	o Protection check
		....	1...		IRBSSCDC	o Channel data check
		....	.1..		IRBSSCCC	o Channel control check
		....	..1.		IRBSSICC	o Interface control check
		....	..1.		IRBSSADM	o Async data move check
		....	...1		IRBSSCC	o Chaining check
		....	...1		IRBSSCRF	o Channel subsystem retry failed
10	(A)	UNSIGNED		2	IRBCOUNT	Residual count
10	(A)	BITSTRING		1	IRBFCXSTATUS	FCX status byte
		1111	111.		*	o Reserved
		....	...1		IRBTSBVALID	o The Transport Status Block has been stored. This bit is not set for I/O interrupts containing only interrogate status.
11	(B)	BITSTRING		1	IRBSESTAT	Subchannel extended status
		1...	....		IRBINTGFAILED	Interrogate failed
		.111	1111		IRBSESQ	Subchannel extended status qualifier - see macro IHASESQ
12	(C)	CHARACTER		20	IRBESWL	Extended status word long, mapped by IHAESWL.
12	(C)	CHARACTER		4	IRBESW	Extended Status Word - mapped by IHAESW
16	(10)	CHARACTER		16	IRBRSDV	Reserved
32	(20)	CHARACTER		32	IRBECW	Extended control word.
32	(20)	CHARACTER		32	IRBEDATA	Extended data area
64	(40)	CHARACTER		32	IRBEMW	Extended measurement word
64	(40)	UNSIGNED		4	IRBCONNT	Device connect time
68	(44)	UNSIGNED		4	IRBPENDT	Function pending time
72	(48)	UNSIGNED		4	IRBDISCT	Device disconnect time
76	(4C)	UNSIGNED		4	IRBCUQTA	Control Unit Queuing time
80	(50)	UNSIGNED		4	IRBDAO	Device active only time
84	(54)	UNSIGNED		4	IRBDEVBT	Device busy time
88	(58)	UNSIGNED		4	IRBICMR	Initial command response time
92	(5C)	UNSIGNED		4	*	Reserved

Table 867. Constants for IRB

Len	Type	Value	Name	Description
IRBCC field declares - Deferred Condition Codes				
0	BIT	00	IRBCC0	Deferred condition code 0
0	BIT	01	IRBCC1	Deferred condition code 1
0	BIT	11	IRBCC3	Deferred condition code 3
Miscellaneous constants				
1	DECIMAL	64	IRBNOEMW	The length of IRB without the IRBEMW

Table 868. Cross Reference for IRB

Name	Offset	Hex	Tag
IRB	0		
IRBA	1		10

IRB mapping

Table 868. Cross Reference for IRB (continued)

Name	Offset	Hex Tag
IRBAC	2	
IRBACSCH	2	01
IRBADEVA	3	40
IRBAHSCH	2	02
IRBARSCH	2	08
IRBASSCH	2	04
IRBASUBA	3	80
IRBCC	0	03
IRBCCWAD	4	
IRBCONNT	40	
IRBCOUNT	A	
IRBCSW	4	
IRBCUQTA	4C	
IRBDAO	50	
IRBDEVBT	54	
IRBDISCT	48	
IRBDSATN	8	80
IRBDSBSY	8	10
IRBDSCE	8	08
IRBDSQUE	8	20
IRBDSDE	8	04
IRBDSSM	8	40
IRBDSTAT	8	
IRBDSUC	8	02
IRBDSUEX	8	01
IRBE	1	02
IRBECW	20	
IRBEDATA	20	
IRBEMW	40	
IRBESW	C	
IRBESWL	C	
IRBF	1	80
IRBFC	2	70
IRBFCSCH	2	10
IRBFCXSTATUS	A	
IRBFHSCH	2	20
IRBFLG0	0	
IRBFLG1	1	
IRBFMT	1	E0
IRBFSSCH	2	40
IRBI	1	20
IRBICMR	58	
IRBINTER	1	08
IRBINTGFAILED	B	80
IRBKEY	0	F0
IRBL	0	04
IRBN	1	01
IRBP	1	40
IRBPENDT	44	

Table 868. Cross Reference for IRB (continued)

Name	Offset	Hex Tag
IRBRSVD	10	
IRBS	0	08
IRBSALRT	3	10
IRBSC	3	1F
IRBSCHC0	2	
IRBSCSW	0	
IRBSESQ	B	7F
IRBSESTAT	B	
IRBSI	1	08
IRBSINTR	3	08
IRBSPNDG	3	01
IRBSPRIM	3	04
IRBSSADM	9	02
IRBSSCC	9	01
IRBSSCCC	9	04
IRBSSCDC	9	08
IRBSSCRF	9	01
IRBSSEC	3	02
IRBSSICC	9	02
IRBSSIL	9	40
IRBSSPCI	9	80
IRBSSPGC	9	20
IRBSSPND	3	20
IRBSSPTC	9	10
IRBSSTAT	9	
IRBSTAT	8	
IRBTCWAD	4	
IRBTSBVALID	A	01
IRBWORD1	0	
IRBX	1	10
IRBZ	1	04

IRB mapping

Chapter 233. IRDDCE Information

IRDDCE Programming Interface Information

IRDDCE is a programming interface.

IRDDCE Heading Information

Common Name: FICON Switch UCB Device Class Extension
 Macro ID: IRDDCE
 DSECT Name: FsdDce
 Owning Component: ESCON Director Device Support (00101)
 Eye-Catcher ID: none
 Storage Attributes: Subpool: 245
 Key: 0
 Residency: ESQA
 Size: FSDDCE -- X'001C' bytes
 Created by: IOSIUCB, IOSVCMUB
 Pointed to by: UCBCLEXT
 Serialization: None
 Function: Maps the Switch device class extension.

IRDDCE mapping

Table 869. Structure FSDDCE

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
0	(0)	STRUCTURE		0	FSDDCE	UCB FICON Switch Device Class Extension
0	(0)	BITSTRING		1	FSDDCEVER	DCE Version
1	(1)	CHARACTER		2		Reserved
3	(3)	BITSTRING		1	FSDDCELEN	DCE Length
4	(4)	ADDRESS		4	FSDDCEFS	Address of FICON Switch Data, mapped by IRDDFSD macro, may be zero before FICON switch is brought online
8	(8)	ADDRESS		4	FSDDCEFACT	FRU code table address
12	(C)	CHARACTER		4	FSDDCEMISC1(0)	Miscellaneous information
12	(C)	BITSTRING		1	FSDDCENUMSTATCTRS	Number of statistical counters implemented
13	(D)	BITSTRING		1	FSDDCENUMPORTS	Number of external ports implemented/card
14	(E)	BITSTRING		1	FSDDCEFIRSTPORT	First port num implem.
15	(F)	BITSTRING		1	FSDDCELASTPORT	Last port number implem.
16	(10)	CHARACTER		4	FSDDCEMISC2(0)	Miscellaneous information
16	(10)	BITSTRING		1	FSDDCEFLAGS(0)	
		1... ..			FSDDCEPFINDICATOR	"X'80'" Device recommendation for CCW prefetching
17	(11)	BITSTRING		1	FSDDCEFLAGS2(0)	
		1... ..			FSDDCEDFSDSTATSEXIST	"X'80'" Some were obtained
		.1.. ..			FSDDCEBADPORTABEND	"X'40'" ABEND already issued

IRDDCE mapping

Table 869. Structure FSDDCE (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
		..1.	....		FSDDCESUPPORTDIAGCMD	"X'20'" Switch supports diagnostics command
		...1	....		FSDDCERCF	"X'10'" Refresh configuration information
		....	1...		FSDDCEDYNROUT	"X'08'" Switch is enabled for dynamic routing
18	(12)	BITSTRING		1	FSDDCEPRIORFIRSTPORT	To check for a change
19	(13)	BITSTRING		1	FSDDCEPRIORLASTPORT	To check for a change
20	(14)	ADDRESS		4	FSDDCEFSDAREAPTR	Address of MIR data mapped by IHAFSD
24	(18)	SIGNED		4	FSDDCEFSDAREALEN	Size of MIR data area
24	(18)	X'1C'		0	FSDDCE_LEN	"*-FSDDCE"

Table 870. Cross Reference for IRDDCE

Name	Offset	Hex	Tag
FSDDCE	0		
FSDDCE_LEN	18	1C	
FSDDCEBADPORTABEND	11	40	
FSDDCEDFSDSTATSEXIST	11	80	
FSDDCEDYNROUT	11	8	
FSDDCEFACT	8		
FSDDCEFIRSTPORT	E		
FSDDCEFLAGS	10		
FSDDCEFLAGS2	11		
FSDDCEFSD	4		
FSDDCEFSDAREALEN	18		
FSDDCEFSDAREAPTR	14		
FSDDCELASTPORT	F		
FSDDCELEN	3		
FSDDCEMISC1	C		
FSDDCEMISC2	10		
FSDDCENUMPORTS	D		
FSDDCENUMSTATCTRS	C		
FSDDCEPFINDICATOR	10	80	
FSDDCEPRIORFIRSTPORT	12		
FSDDCEPRIORLASTPORT	13		
FSDDCERCF	11	10	
FSDDCESUPPORTDIAGCMD	11	20	
FSDDCEVER	0		

Chapter 234. IRDDFSD Information

IRDDFSD Programming Interface Information

IRDDFSD is a programming interface.

IRDDFSD Heading Information

Common Name: FICON Switch Device Statistical Data Area
Macro ID: IRDDFSD
DSECT Name: Dfsd, DfsdStat
Owning Component: ESCON Director Device Support (00101)
Eye-Catcher ID: 'DFS'
Offset: 0
Length: 3
Storage Attributes: Subpool: 245
Key: 0
Residency: ESQA
Size: DFSD -- X'043C' bytes
DFSDSTAT -- X'0040' bytes
Created by: IOSIUCB, IOSVCMUB, IOSVFSD
Pointed to by: FsdDceFsd in IRDDCE UCB Class Extension
Serialization: None
Function: Maps the FICON Switch Device Statistical Data Area

IRDDFSD mapping

Table 871. Structure DFSD

Offset	Offset		Len	Name(Dim)	Description
Dec	Hex	Type			
0	(0)	STRUCTURE	0	DFSD	UCB FICON Switch Data Area
0	(0)	CHARACTER	60	DFSDHDR(0)	Header of Control Block
0	(0)	CHARACTER	3	DFSDEYE	Eye Catcher - 'DFS'
3	(3)	SIGNED	1	DFSDVER	Version Code
4	(4)	SIGNED	2	DFSDSIZE	Length of structure
6	(6)	SIGNED	2	DFSDPCNT	Ct of ports supported by switch (i.e., number of currently implemented ports)
8	(8)	CHARACTER	32	DFSDNED	Device Node Identifier
40	(28)	CHARACTER	8	DFSDTODU	Time of day at last update
48	(30)	SIGNED	2	DFSDERRU	Failure ct updating statistics
50	(32)	SIGNED	2	DFSDPSTS	Number of ports for which Statistics are being kept (i.e., number of currently installed ports)
52	(34)	CHARACTER	8	DFSDTALS(0)	These tallies are updated in consecutive disabled code
52	(34)	SIGNED	4	DFSDNUBT	Stat Updates Begun Tally
56	(38)	SIGNED	4	DFSDNUET	Stat Updates Ended Tally

IRDDFSD mapping

Table 871. Structure DFSD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
60	(3C)	ADDRESS	4	DFSDSTVP	Array of 256 pointers to ports' statistics (mapped by DFSDSTAT). DfsdStvP(n) may be 0 if port number n is not implemented
60	(3C)	X'40'	0	DFSD_LEN	"*-DFSD"

Table 872. Structure DFSDSTAT

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DFSDSTAT	Statistics, based on DfsdStvP(n)
0	(0)	SIGNED	2	DFSDSPTN	Port number
2	(2)	CHARACTER	1	DFSDFLG1(0)	Flags
		1... ..		DFSDMPIR	"X'80'" Port information was returned at least once for this port
		.1.. ..		DFSDNOTI	"X'40'" Port info. showed the port not installed
		..1.		DFSDLF	"X'20'" Port info. showed link failure condition
		...1		DFSDOFFL	"X'10'" Port info. showed the port offline
		.... 1...		DFSDSCR	"X'08'" Statistics were returned at least once for this port
		.... .111		DFSDRSV1	"X'07'" Reserved for future use
3	(3)	CHARACTER	1		Reserved for future use
4	(4)	SIGNED	8	DFSDSWTC	Ct of Words Transmitted
12	(C)	SIGNED	8	DFSDSWRC	Ct of Words Received
20	(14)	SIGNED	8	DFSDSFTC	Ct of Frames Transmitted
28	(1C)	SIGNED	8	DFSDSFRC	Ct of Frames Received
36	(24)	SIGNED	4	DFSDSF2C	Ct of Class 2 Frames received
40	(28)	SIGNED	4	DFSDSF3C	Ct of Class 3 Frames received
44	(2C)	SIGNED	4	DFSDSFLC	Ct of Link Ctl Frames Recvd
48	(30)	SIGNED	4	DFSDSMFC	Ct of Multicast Frames Recvd
52	(34)	SIGNED	4	DFSDSFPT	Frame Pacing Time
56	(38)	SIGNED	4	DFSDSFEC	not used
60	(3C)	SIGNED	4	DFSDSLEC	Error Summary Count
60	(3C)	X'40'	0	DFSDSTAT_LEN	"*-DFSDSTAT"

Table 873. Cross Reference for IRDDFSD

Name	Offset	Hex Tag
DFSD	0	
DFSD_LEN	3C	40
DFSDERRU	30	
DFSDEYE	0	
DFSDFLG1	2	
DFSDHDR	0	
DFSDLF	2	20
DFSDMPIR	2	80
DFSDNED	8	
DFSDNOTI	2	40

Table 873. Cross Reference for IRDDFSD (continued)

Name	Offset	Hex Tag
DFSDNUBT	34	
DFSDNUET	38	
DFSDOFFL	2	10
DFSDPCNT	6	
DFSDPSTS	32	
DFSDRSV1	2	7
DFSDSCR	2	8
DFSDSFEC	38	
DFSDSFCL	2C	
DFSDSFPT	34	
DFSDSFRC	1C	
DFSDSFTC	14	
DFSDSF2C	24	
DFSDSF3C	28	
DFSDSIZE	4	
DFSDSLEC	3C	
DFSDSMFC	30	
DFSDSPTN	0	
DFSDSTAT	0	
DFSDSTAT_LEN	3C	40
DFSDSTVP	3C	
DFSDSWRC	C	
DFSDSWTC	4	
DFSDTALS	34	
DFSDTODU	28	
DFSDVER	3	

IRDDFSD mapping

Chapter 235. ISGE51CN Information

ISGE51CN Programming Interface Information

ISGE51CN is a programming interface.

ISGE51CN Heading Information

Common Name: Global and Local Contention Data (ENF Event Code 51)
Macro ID: ISGE51CN
DSECT Name: ENF51C - Global and local contention data
Owning Component: Global Resource Serialization (SCSDS)
Eye-Catcher ID: ENF51C
Offset: 0
Length: 6 bytes
Storage Attributes: Main Storage: No
Virtual Storage: Yes
Auxiliary Storage: Yes
Subpool: 241
Key: 0
Data Space: No
Residency: ANY
Size: Variable
ENF51C -- X'0030' bytes
+ length of contention data
Created by: GRS or ENF
Pointed to by: First word of the address list pointed to by register 1 on
entry to an ENF listen exit
Serialization: None
Function: Maps global and local contention data provided
by ENF event code 51

ISGE51CN mapping

Table 874. Structure ENF51C

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ENF51C	Contention data
0	(0)	CHARACTER	16	ENF51C_HEADER	Header information
0	(0)	CHARACTER	6	ENF51CID	Control block identifier 'ENF51C'
6	(6)	SIGNED	2	ENF51CVERS	Version number. Current version is ENF51CCVER.
8	(8)	SIGNED	4	ENF51CLEN	Length of ENF51C control block, including the appended contention data beginning at ENF51C_RIB
12	(C)	CHARACTER	4		Reserved
16	(10)	CHARACTER	32	ENF51C_CONTENTION_DATA	Contention data
16	(10)	BITSTRING	1	ENF51C_FLAGS	Event description

Bit definitions:

ISGE51CN mapping

Table 874. Structure ENF51C (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
		1...	....		ENF51C_CONTENTION_EXISTS	"X'80'" Contention exists for this resource
		.1...	....		ENF51C_SYSTEM_FAILURE	"X'40'" The system named in ENF51C_FAILED_SYSTEM has failed and has no further interest in any resource
		..1.	....		ENF51C_SYSTEM_ERROR	"X'20'" Contention notifications may have been lost. This may be due to system errors or migration of the CNS. ENF51C_FAILED_SYSTEM will contain the name of the system in error or in the case of CNS migration, the old CNS.
		...1	....		ENF51C_DATA_INCOMPLETE	"X'10'" The amount of data exceeded the maximum amount that can be transmitted with a cross-system-capable ENF signal
		....	1...		ENF51C_SYSTEM_ERROR_CLEARED	"X'08'" Global resource contention data is once again valid.
17	(11)	CHARACTER		1		Reserved
18	(12)	SIGNED		2	ENF51C_EVENTS_COMBINED	Count of events that were combined into this notification. This field is valid when ENF51CVERS is at least ENF51CVER3
20	(14)	CHARACTER		8	ENF51C_TIMESTAMP	Time for which contention data is valid
28	(1C)	SIGNED		2	ENF51C_RIB_OFFSET	Offset from the beginning of the parameter list to the beginning of the RIB
30	(1E)	SIGNED		2	ENF51C_RIB_SIZE	Length of the fixed portion of the RIB (analogous to the first halfword returned by GQSCAN in register 0)
32	(20)	SIGNED		2	ENF51C_RIBE_SIZE	Length of each RIBE (analogous to the second halfword returned by GQSCAN in register 0)
34	(22)	CHARACTER		6		Reserved
40	(28)	CHARACTER		8	ENF51C_FAILED_SYSTEM	Name of failing system. Valid only for ENF51C_RECOVERY qualifier.
48	(30)	CHARACTER		1	ENF51C_RIB(0)	Beginning of RIB/RIBE data
Constant values						
48	(30)	X'1'		0	ENF51CVER1	"1" First version of ENF51C
48	(30)	X'2'		0	ENF51CVER2	"2" Second version of ENF51C
48	(30)	X'3'		0	ENF51CVER3	"3" Third version of ENF51C
48	(30)	X'3'		0	ENF51CCVER	"3" Current version of ENF51C

Table 874. Structure ENF51C (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
		....	....		ENF51C_ALL_CONT	"X'01000000'" ENFREQ qualifier value requesting all contention data, excluding "waitless contention" resulting from RET=USE and RET=CHNG type ENQs
		....	...1		ENF51C_LCONT	"X'01000001'" ENFREQ qualifier value requesting local contention data, excluding "waitless contention" resulting from RET=USE and RET=CHNG type ENQs
		....	...1.		ENF51C_GCONT	"X'01000002'" ENFREQ qualifier value requesting global contention data, excluding "waitless contention" resulting from RET=USE and RET=CHNG type ENQs
48	(30)	BITSTRING		0	ENF51C_ALL_CONTX	"X'01000100'" ENFREQ qualifier value requesting all contention data, specifically from "waitless contention" resulting from RET=USE and RET=CHNG type ENQs
48	(30)	BITSTRING		0	ENF51C_LCONTX	"X'01000101'" ENFREQ qualifier value requesting local contention data, specifically from "waitless contention" resulting from RET=USE and RET=CHNG type ENQs
48	(30)	BITSTRING		0	ENF51C_GCONTX	"X'01000102'" ENFREQ qualifier value requesting global contention data, specifically from "waitless contention" resulting from RET=USE and RET=CHNG type ENQs
		....	..11		ENF51C_RECOVERY	"X'01000003'" ENFREQ qualifier value requesting contention recovery data
48	(30)	X'30'		0	ENF51C_LEN	"*-ENF51C"

Table 875. Cross Reference for ISGE51CN

Name	Offset	Hex Tag
ENF51C	0	
ENF51C_ALL_CONT	30	0
ENF51C_ALL_CONTX	30	100
ENF51C_CONTENTION_DATA	10	
ENF51C_CONTENTION_EXISTS	10	80
ENF51C_DATA_INCOMPLETE	10	10
ENF51C_EVENTS_COMBINED	12	
ENF51C_FAILED_SYSTEM	28	
ENF51C_FLAGS	10	
ENF51C_GCONT	30	2
ENF51C_GCONTX	30	102

ISGE51CN mapping

Table 875. Cross Reference for ISGE51CN (continued)

Name	Offset	Hex Tag
ENF51C_HEADER	0	
ENF51C_LCONT	30	1
ENF51C_LCONTX	30	101
ENF51C_LEN	30	30
ENF51C_RECOVERY	30	3
ENF51C_RIB	30	
ENF51C_RIB_OFFSET	1C	
ENF51C_RIB_SIZE	1E	
ENF51C_RIBE_SIZE	20	
ENF51C_SYSTEM_ERROR	10	20
ENF51C_SYSTEM_ERROR_CLEARED	10	8
ENF51C_SYSTEM_FAILURE	10	40
ENF51C_TIMESTAMP	14	
ENF51CCVER	30	3
ENF51CID	0	
ENF51CLEN	8	
ENF51CVERS	6	
ENF51CVER1	30	1
ENF51CVER2	30	2
ENF51CVER3	30	3

Chapter 236. ISGE51RN Information

ISGE51RN Programming Interface Information

ISGE51RN is a programming interface.

ISGE51RN Heading Information

Common Name: Job Suspension/Resumption due to RNL Change (ENF Event Code 51)
Macro ID: ISGE51RN
DSECT Name: ENF51R - Job suspension due to RNL change ENF51R_RESOURCE_NAME
Owning Component: Global Resource Serialization (SCSDS)
Eye-Catcher ID: ENF51R
Offset: 0
Length: 6 bytes
Storage Attributes: Main Storage: No
Virtual Storage: Yes
Auxiliary Storage: Yes
Subpool: 241
Key: 0
Data Space: No
Residency: ANY
Size: ENF51R -- X'0020' bytes
ENF51R_RESOURCE_NAME -- X'0008' bytes
+ length of RNAME
Created by: GRS or ENF
Pointed to by: First word of the address list pointed to by register 1 on
entry to an ENF listen exit
Serialization: None
Function: Describes a resource request that causes a job
to be suspended because an RNL change is in
progress or resumed following the RNL change
(ENF event code 51).

ISGE51RN mapping

Table 876. Structure ENF51R

Offset	Offset			Len	Name(Dim)	Description
Dec	Hex	Type				
0	(0)	STRUCTURE		0	ENF51R	RNL job suspension/resumption data
0	(0)	CHARACTER		16	ENF51R_HEADER	Header information
0	(0)	CHARACTER		6	ENF51RID	Control block identifier 'ENF51R'
6	(6)	SIGNED		2	ENF51RVERS	Version number. Current version is ENF51RCVER.
8	(8)	SIGNED		2	ENF51RLEN	Length of ENF51R control block (including ENF51R_RESOURCE_DATA)
10	(A)	SIGNED		2	ENF51R_RES_OFFSET	Offset to the resource name (mapped by ENF51R_RESOURCE_DATA)
12	(C)	CHARACTER		4		Reserved

ISGE51RN mapping

Table 876. Structure ENF51R (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
16	(10)	CHARACTER	16	ENF51R_DATA	Data pertaining to job and resource
16	(10)	SIGNED	2	ENF51R_ASID	ASID of address space in which job was running
18	(12)	BITSTRING	1	ENF51R_JOB_FLAGS	Job-related flags
Bit definitions:					
		1... ..		ENF51R_JOB_SUSPENDED	"X'80'" On if job has been suspended, off if job has resumed
19	(13)	BITSTRING	1	ENF51R_RESOURCE_FLAGS	Resource description
Bit definitions:					
		1... ..		ENF51R_SYSTEM_SCOPE	"X'80'" Resource scope was SYSTEM
		.1... ..		ENF51R_SYSTEMS_SCOPE	"X'40'" Resource scope was SYSTEMS
		..1.		ENF51R_SHARED	"X'20'" On if requesting shared ownership, off if requesting exclusive ownership
20	(14)	BITSTRING	1	ENF51R_RNAME_LEN	Length of resource RNAME
21	(15)	CHARACTER	3		Reserved
24	(18)	CHARACTER	8	ENF51R_TIMESTAMP	Time at which job was suspended
32	(20)	CHARACTER	1	ENF51R_END(0)	End of base part of ENF51R parameter list
Constant values					
32	(20)	X'1'	0	ENF51RVER1	"1" First version of ENF51R
32	(20)	X'1'	0	ENF51RCVER	"1" Current version of ENF51R
32	(20)	X'F1'	0	ENF51R_KSUBPOOL	"241" Storage subpool for parameter list
		.... ....		ENF51R_ALL_RNL	"X'02000000'" ENFREQ qualifier value requesting all RNL data
		.... ...1		ENF51R_SUSPEND	"X'02000001'" ENFREQ qualifier value requesting job suspension data
		.... ..1.		ENF51R_RESUME	"X'02000002'" ENFREQ qualifier value requesting job resumption data
32	(20)	X'20'	0	ENF51R_LEN	"*-ENF51R"

Table 877. Structure ENF51R_RESOURCE_NAME

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ENF51R_RESOURCE_NAME	Resource requested when job was suspended
0	(0)	CHARACTER	8	ENF51R_QNAME	Resource QNAME
8	(8)	CHARACTER	1	ENF51R_RNAME(0)	Beginning of RNAME
8	(8)	X'8'	0	ENF51R_RESOURCE_NAME_LEN	"*-ENF51R_RESOURCE_NAME"

Table 878. Cross Reference for ISGE51RN

Name	Offset	Hex Tag
ENF51R	0	
ENF51R_ALL_RNL	20	0
ENF51R_ASID	10	
ENF51R_DATA	10	
ENF51R_END	20	
ENF51R_HEADER	0	
ENF51R_JOB_FLAGS	12	
ENF51R_JOB_SUSPENDED	12	80
ENF51R_KSUBPOOL	20	F1
ENF51R_LEN	20	20
ENF51R_QNAME	0	
ENF51R_RES_OFFSET	A	
ENF51R_RESOURCE_FLAGS	13	
ENF51R_RESOURCE_NAME	0	
ENF51R_RESOURCE_NAME_LEN	8	8
ENF51R_RESUME	20	2
ENF51R_RNAME	8	
ENF51R_RNAME_LEN	14	
ENF51R_SHARED	13	20
ENF51R_SUSPEND	20	1
ENF51R_SYSTEM_SCOPE	13	80
ENF51R_SYSTEMS_SCOPE	13	40
ENF51R_TIMESTAMP	18	
ENF51RCVER	20	1
ENF51RID	0	
ENF51RLEN	8	
ENF51RVERS	6	
ENF51RVER1	20	1

ISGE51RN mapping

Chapter 237. ISGLMASM Information

ISGLMASM Programming Interface Information

ISGLMASM is a programming interface.

ISGLMASM Heading Information

Common Name: GRS Latch Manager Services Assembler Declares
Macro ID: ISGLMASM
DSECT Name: N/A
Owning Component: Global Resource Serialization (SCSDS)
Eye-Catcher ID: None
Storage Attributes: Main Storage: N/A
Size: 0 bytes
Created by: N/A
Pointed to by: N/A
Serialization: None
Function: Defines assembler constants for the use of GRS Latch Manager

ISGLMASM mapping

Table 879. Structure

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0		
0	(0)	X'0'	0	ISGLCRT_PRIVATE	"0"
0	(0)	X'2'	0	ISGLCRT_LOWSTGUSAGE	"2"
0	(0)	X'40'	0	ISGLCRT_DEADLOCKDET1	"64"
0	(0)	X'80'	0	ISGLCRT_DEADLOCKDET2	"128"
GRS Latch Manager Latch Create Return Codes					
0	(0)	X'0'	0	ISGLCRT_SUCCESS	"0"
0	(0)	X'4'	0	ISGLCRT_DUPLICATE_NAME	"4"
0	(0)	X'10'	0	ISGLCRT_NO_STORAGE	"16"
GRS Latch Manager Latch Obtain Option Constants					
0	(0)	X'0'	0	ISGLOBT_SYNC	"0"
0	(0)	X'1'	0	ISGLOBT_COND	"1"
0	(0)	X'2'	0	ISGLOBT_ASYNC_ECB	"2"
GRS Latch Manager Latch Obtain Access Constants					
0	(0)	X'0'	0	ISGLOBT_EXCLUSIVE	"0"
0	(0)	X'1'	0	ISGLOBT_SHARED	"1"
GRS Latch Manager Latch Obtain Return Codes					
0	(0)	X'0'	0	ISGLOBT_SUCCESS	"0"
0	(0)	X'4'	0	ISGLOBT_CONTENTION	"4"
GRS Latch Manager Latch Release Option Constants					
0	(0)	X'0'	0	ISGLREL_UNCOND	"0"

ISGLMASM mapping

Table 879. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	X'1'	0	ISGLREL_COND	"1"
GRS Latch Manager Latch Release Return Codes					
0	(0)	X'0'	0	ISGLREL_SUCCESS	"0"
0	(0)	X'4'	0	ISGLREL_NOT_OWNED_ECB_REQUEST	"4"
0	(0)	X'8'	0	ISGLREL_STILL_SUSPENDED	"8"
0	(0)	X'C'	0	ISGLREL_INCORRECT_LATCH_TOKEN	"12"
GRS Latch Manager Latch Purge Return Codes					
0	(0)	X'0'	0	ISGLPRG_SUCCESS	"0"
0	(0)	X'4'	0	ISGLPRG_DAMAGE_DETECTED	"4"
GRS Latch Manager Latch Identity Return Codes					
0	(0)	X'0'	0	ISGLID_SUCCESS	"0"
0	(0)	BITSTRING	0	ISGLID_REPLACED	"X'00000401'"
GRS Latch Manager Latch Identity Entry Mapping					
0	(0)	DBL WORD	8	(0)	

Table 880. Structure ISGYLID_ENTRY

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ISGYLID_ENTRY	
<p>The following thresholds may be used either by GRS, or by an application requesting information from GRS about this latch. How these values will be used by applications is not discussed here. Please see the documentation for individual applications for details on if and how they are used</p>					
0	(0)	SIGNED	4	LIDHOLDTHRESHOLD	<p>The time in seconds that is not normal for this latch to be held. With this field, a value of x'00000000' is deemed to mean "take the default." This allows users to not have to specify the default value of x'FFFFFFFF' in every entry. The default value indicates that no matter how long this latch is held, it should not be treated as an exception. An example usage of this field would be for an application to issue a message if it were to find a latch held for a time period longer than that specified here, even if no contention exists.</p>

Table 880. Structure ISGYLID_ENTRY (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
4	(4)	SIGNED		4	LIDCONTTHRESHOLD	The time in seconds that is not out of the for this latch to be in contention. For example, when D GRS,ANALYZE,LATCH,BLOCKER and D GRS,ANALYZE,LATCH,WAITER process this element, it will be ignored unless the current longest waiter's wait time exceeds this threshold. A value greater than x'1D55600' (one year) will be treated by these commands as an indication to never display this latch.
8	(8)	ADDRESS		8	LIDPRINTABLESTRING@	address of printable (EBCDIC) string
16	(10)	SIGNED		2	LIDPRINTABLESTRINGLENGTH	length of printable (EBCDIC) string
18	(12)	CHARACTER		10		reserved for future use
18	(12)	X'1C'		0	ISGYLID_ENTRY_LEN	"*-ISGYLID_ENTRY"
18	(12)	X'1'		0	ISGYLID_VERSION1	"1" Version of the ISGYLID_Entry.
18	(12)	X'1'		0	ISGYLID_MAXVERSION	"ISGYLID_VERSION1" Maximum version of the ISGYLID_Entry.
End of GRS Latch Manager Services Declarations						

Table 881. Cross Reference for ISGLMASM

Name	Offset	Hex Tag
ISGLCRT_DEADLOCKDET1	0	40
ISGLCRT_DEADLOCKDET2	0	80
ISGLCRT_DUPLICATE_NAME	0	4
ISGLCRT_LOWSTGUSAGE	0	2
ISGLCRT_NO_STORAGE	0	10
ISGLCRT_PRIVATE	0	0
ISGLCRT_SUCCESS	0	0
ISGLID_REPLACED	0	401
ISGLID_SUCCESS	0	0
ISGLOBT_ASYNC_ECB	0	2
ISGLOBT_COND	0	1
ISGLOBT_CONTENTION	0	4
ISGLOBT_EXCLUSIVE	0	0
ISGLOBT_SHARED	0	1
ISGLOBT_SUCCESS	0	0
ISGLOBT_SYNC	0	0
ISGLPRG_DAMAGE_DETECTED	0	4
ISGLPRG_SUCCESS	0	0
ISGLREL_COND	0	1
ISGLREL_INCORRECT_LATCH_TOKEN	0	C
ISGLREL_NOT_OWNED_ECB_REQUEST	0	4
ISGLREL_STILL_SUSPENDED	0	8
ISGLREL_SUCCESS	0	0

ISGLMASM mapping

Table 881. Cross Reference for ISGLMASM (continued)

Name	Offset	Hex Tag
ISGLREL_UNCOND	0	0
ISGYLID_ENTRY	0	
ISGYLID_ENTRY_LEN	12	1C
ISGYLID_MAXVERSION	12	1
ISGYLID_VERSION1	12	1
LIDCONTTHRESHOLD	4	
LIDHOLDTHRESHOLD	0	
LIDPRINTABLESTRING@	8	
LIDPRINTABLESTRINGLENGTH	10	

Chapter 238. ISGYCNFP Information

ISGYCNFP Programming Interface Information

ISGYCNFP is a programming interface.

ISGYCNFP Heading Information

Common Name: Contention Notification Filter Parameter list
 Macro ID: ISGYCNFP
 DSECT Name: CNFP
 Owing Component: Global Resource Serialization (SCSDS)
 Eye-Catcher ID: CNFP
 Offset: 0
 Length: 4
 Storage Attributes: Subpool: 229
 Key: 0
 Residency: Above the 16M line
 Size: LENGTH(CNFP)
 CNFP -- X'00B0' bytes
 Created by: ISGGCN
 Pointed to by: R1 points to the CNFP on entry to the exit routine
 Serialization: N/A
 Function: The Contention Notification Filter Parameter list is passed to an installation provided exit routine installed at the ISGNQXITSYSTEM or ISGNQXITSYSPLX exit point, depending on the scope of the resource. It gives the installation the ability to filter out ENF 51 signal processing on a resource basis. The resource name information referenced in the parameter list should not be altered. Additional information about the request is also provided when available and can be used by contention monitors.

ISGYCNFP mapping

Table 882. Structure CNFP

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	CNFP	+00x----- -- -----
0	(0)	CHARACTER	4	CNFP_ID	Eyecatcher
4	(4)	BITSTRING	1	CNFP_VERSION	Version
5	(5)	CHARACTER	3		Reserved
8	(8)	ADDRESS	4	CNFP_WORKAREA@	Pointer to a 4K work area, usable by exit routines
12	(C)	CHARACTER	4	CNFP_FLAGS(0)	
12	(C)	CHARACTER	2	CNFP_OUTPUTFLAGS(0)	
		1...		CNFP_FILTER	"X'80'" When set to 1 by the exit routine, ENF 51 processing will be bypassed for this resource.
14	(E)	CHARACTER	2	CNFP_INPUTFLAGS(0)	

ISGYCNFP mapping

Table 882. Structure CNFP (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
		1...	....		CNFP_SYSTEM	"X'80'" When 1, the exit routine is being called for the ISGCNFXITSYSTEM entry point. When 0, the exit routine is being called for the ISGCNFXITSYSLEX entry point.
		.1..	....		CNFP_CONTENTIONSTART	"X'40'" When 1, this exit is being called for a start of contention event
		..1.	....		CNFP_CONTENTIONCHANGE	"X'20'" When 1, this exit is being called for a change of contention event
		...1	....		CNFP_CONTENTIONEND	"X'10'" When 1, this exit is being called for a end of contention event
		....	1...		CNFP_REQUESTDATAAVAILABLE	"X'08'" When 1, the fields in Cnfp_RequestData are valid. This bit is only valid when version is Cnfp_kVersion#2 and above. +10x----- -----
16	(10)	ADDRESS		4	CNFP_QNAME@	Pointer to resource Qname
20	(14)	ADDRESS		4	CNFP_RNAME@	Pointer to resource Rname
24	(18)	SIGNED		4	CNFP_RLEN	Length of resource Rname
28	(1C)	CHARACTER		4		Reserved ***** ***** Fields below this line only available with version 2 and higher ***** *****
32	(20)	CHARACTER		144	CNFP_REQUESTDATA(0)	ENQ/DEQ request state information, these values cannot be changed. These fields are only available when Cnfp_RequestDataAvailable is set. +20x----- -----
32	(20)	CHARACTER		32	CNFP_RSCTOKEN	Token uniquely identifying the resource. The token represents the local systems view of the resource and expires when no requests for the resource remain. Additionally, in Star mode the token expires when the local system no longer has interest in (i.e. requests for) the resource. +40x----- -----
64	(40)	CHARACTER		32	CNFP_ENQTOKEN	Token uniquely identifying the queued request to the resource. +60x----- -----

Table 882. Structure CNFP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
96	(60)	CHARACTER	16	CNFP_RD_REQUESTTOKEN	Unique token identifying the GRS exit call processing for the request. If needed, all exits driven for this request can use this token to identify the same request. See the prologue for more information. +70x----- ----- -- -----
112	(70)	BITSTRING 1...	1	REQUESTFLAGS(0) CNFP_ENDOFTASK	Flags about request "X'80'" When 1, this contention event is a result of task termination. Note that the only RequestData fields that are valid when Cnfp_EndOfTask is set are the above tokens, the ASCB, TCB, and final scope. All others are not applicable nor set.
		.1..		CNFP_ENDOFMEMORY	"X'40'" When 1, this contention event is a result of address space termination. Note that the only RequestData fields that are valid when Cnfp_EndOfMemory is set are the above tokens, the ASCB, and final scope. All others are not applicable nor set.
		..1.		CNFP_INTERNALREQUEST	"X'20'" When 1, this contention event is a result of an internal GRS request and is not a direct result of ENQ/DEQ on behalf of a caller. Note that the only RequestData fields that are valid when Cnfp_InternalRequest is set are the above tokens, the ASCB, TCB, and final scope. All others are not applicable nor set.
113	(71)	CHARACTER	7		Reserved
120	(78)	ADDRESS	4	CNFP_RD_ASCB@	Pointer to requester's ASCB
124	(7C)	ADDRESS	4	CNFP_RD_TCB@	Pointer to requester's TCB or directed TCB if TCB= was specified. Note that if Cnfp_RD_MASid is zero then the request is not treated as a MASID/MTCB request. +80x----- ----- -- -----
128	(80)	BITSTRING	1	CNFP_RD_SCOPE	Final resolved request scope after any exit and RNL changes. See Cnfp_kScope values.
129	(81)	BITSTRING	1	CNFP_RD_ORIGINALSCOPE	Scope before exit and RNL processing. See Cnfp_kScope values.

ISGYCNFP mapping

Table 882. Structure CNFP (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
130	(82)	BITSTRING		1	CNFP_RD_RET(0)	Request RET value, see Cnfp_kRET values
		.... .1..			CNFP_RD_RET1	"X'04'" Maps to PELRET1
		.... ..1.			CNFP_RD_RET2	"X'02'" Maps to PELRET2
		.... ...1			CNFP_RD_RET3	"X'01'" Maps to PELRET3
131	(83)	CHARACTER		1		Reserved
132	(84)	ADDRESS		4	CNFP_RD_UCB@	Request UCB address after ISGNQXIT/FAST and RNL processing. Only valid when Cnfp_SF1_ENQ is set. Note that the actual device RESERVE will not be issued when Cnfp_SF3_Converted is set
136	(88)	SIGNED		2	CNFP_RD_MASID	Request MASID value. This field might be cleared to zero indicating the request was not processed as a MASID request (such as when the targeted task was not found or the request could be a true owner).
138	(8A)	BITSTRING		1	CNFP_RD_NQXITSCOPE	Scope value after ISGNQXITFAST and ISGNQXIT processing. A comparison with Cnfp_RD_OriginalScope determines if the exit changed the scope. See Cnfp_kScope values.
139	(8B)	CHARACTER		1		Reserved
140	(8C)	ADDRESS		4	CNFP_RD_MTCB	Request MTCB value +90x----- -----
144	(90)	CHARACTER		8	CNFP_RD_JOBNAME	Requester's Jobname
152	(98)	CHARACTER		8	CNFP_RD_SYSNAME	Requester's Sysname +A0x----- -----
160	(A0)	ADDRESS		4	CNFP_RD_NSI@(0)	Requester's next sequential instruction address, when ENQ/DEQ ends, this is address of the next instruction in the calling program that will be executed
		1...			CNFP_RD_AMODE31	"X'80'" When set, ENQ caller is AMODE 31 or 64
164	(A4)	ADDRESS		4	CNFP_RD_ECB@	Pointer to original request ECB (set when ECB= specified on the request)
168	(A8)	CHARACTER		3	CNFP_STATEFLAGS(0)	ENQ/DEQ request state flags
168	(A8)	BITSTRING		1	CNFP_STATEFLAGS1(0)	First byte of state flags

Table 882. Structure CNFP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		1...		CNFP_SF1_ENQ	"X'80'" When 1, request is ENQ/RESERVE, when 0, request is DEQ. If Cnfp_SF1_ISGENQ is set then when 1, ISGENQ REQUEST=OBTAIN or CHANGE, when 0, REQUEST=RELEASE. See Cnfp_SF2_Change to distinguish between ISGENQ REQUEST=OBTAIN and REQUEST=CHANGE.
		.1..		CNFP_SF1_AUTHORIZED	"X'40'" Caller is authorized. That is the requester was at least one of the following: Supervisor state, PSW key 0-7, or APF authorized.
		..1.		CNFP_SF1_MATCHTASK	"X'20'" When 1, request specified MASID/MTCB. Note that if Cnfp_RD_MAsid is zero then the request is not treated as a MASID/MTCB request.
		...1		CNFP_SF1_SMCORRMC	"X'10'"
		...1		CNFP_SF1_STEPMUSTCOMPLETE	"X'10'" When 1, ENQ request specified SMC=YES
		...1		CNFP_SF1_RESETMUSTCOMPLETE	"X'10'" When 1, DEQ request specified RMC=YES
		.... 1...		CNFP_SF1_LINKAGE	"X'08'" When 1, request is PC entered when 0, request is SVC entered. As ISGENQ requests are all PC entered, this bit will be 1 for all ISGENQ requests.
		.... .1..		CNFP_SF1_ISGENQ	"X'04'" When 1, request is ISGENQ
		.... .1..		CNFP_SF1_ISGENQCONDYES	"X'02'" When 1, request is a conditional ISGENQ request (ISGENQ COND=YES)
169	(A9)	BITSTRING	1	CNFP_STATEFLAGS2(0)	Second byte of state flags
		1...		CNFP_SF2_SHARE	"X'80'" For ENQ/RESERVE requests, when 1 request is for shared access, when 0, request is for exclusive access
		.1..		CNFP_SF2_RNLEQNO	"X'40'" RNL=NO was specified on the request
		..1.		CNFP_SF2_CHANGE	"X'20'" When 1, request is a change (i.e. ENQ RET=CHNG or ISGENQ REQUEST=CHANGE).
		...1		CNFP_SF2_TEST_YES	"X'10'" When 1, ISGENQ with TEST=YES. When 0, Not ISGENQ with TEST=YES (i.e. TEST=NO if Cnfp_SF1_ISGENQ is set).
		.... 1...		CNFP_SF2_CONTENTIONACT_FAIL	"X'08'" When 1, ISGENQ with CONTENTIONACT=FAIL. When 0, not CONTENTIONACT=FAIL (i.e. CONTENTIONACT=WAIT if Cnfp_SF1_ISGENQ is set and Cnfp_SF2_TEST_YES is off).

ISGYCNFP mapping

Table 882. Structure CNFP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... .1..		CNFP_SF2_ECB	"X'04'" When 1, ECB keyword specified (i.e. ISGENQ WAITTYPE=ECB or or ENQ with ECB). When 0, No ECB specified (i.e. WAITTYPE=SUSPEND if Cnfp_SF1_ISGENQ is set and Cnfp_SF2_TEST_YES and Cnfp_SF2_CONTENTIONACT_FAIL are off).
170	(AA)	BITSTRING 1... .... .1.. .... ..1. .... ...1	1	CNFP_STATEFLAGS3(0) CNFP_SF3_INCLUDED CNFP_SF3_CONVERTED CNFP_SF3_EXCLUDED CNFP_SF3_GLOBAL	Third byte of state flags "X'80'" Resource promoted to SYSTEMS scope "X'40'" Resource converted from RESERVE to SYSTEMS ENQ only. As such, the device RESERVE will not be issued, but Cnfp_RD_Ucb@ will still be set "X'20'" Resource demoted to SYSTEM scope "X'10'" Resource request will be processed globally by GRS. Note Cnfp_SF3_Global will always be off in GRS=NONE mode.
171	(AB)	CHARACTER	5		Reserved +B0x----- -----
176	(B0)	CHARACTER	1	CNFP_END(0)	
CNFP Constants					
176	(B0)	X'D5C6D7'	0	CNFP_KID	"C'CNFP'" Eyecatcher
176	(B0)	X'1'	0	CNFP_KVERSION#1	"1" Original version (0W53323)
176	(B0)	X'2'	0	CNFP_KVERSION#2	"2" Version HBB7760
176	(B0)	X'2'	0	CNFP_KCURRENTVERSION	"2" Current version (same)
176	(B0)	X'0'	0	CNFP_KSCOPESTEP	"0" Scope=Step
176	(B0)	X'1'	0	CNFP_KSCOPESYSTEM	"1" Scope=System
176	(B0)	X'2'	0	CNFP_KSCOPESYSTEMS	"2" Scope=Systems
176	(B0)	X'0'	0	CNFP_KRETNONE	"0" Ret=None
176	(B0)	X'1'	0	CNFP_KRETHAVE	"1" Ret=Have
176	(B0)	X'2'	0	CNFP_KRETCHNG	"2" Ret=Chng
176	(B0)	X'3'	0	CNFP_KRETUSE	"3" Ret=Use
176	(B0)	X'7'	0	CNFP_KRETTEST	"7" Ret=Test
176	(B0)	X'4'	0	CNFP_KRETECB	"4" An ECB is specified for this ENQ request, via either the ECB= parameter on ENQ or the WAITTYPE=ECB parameter on ISGENQ REQUEST=OBTAIN
176	(B0)	X'F0'	0	CNFP_KSF3MASK	"240" Mask for copying from PelXFlg1 to Cnfp_StateFlags3
176	(B0)	X'B0'	0	CNFP_LEN	"*-CNFP"

Table 883. Cross Reference for ISGYCNFP

Name	Offset	Hex Tag
CNFP	0	

Table 883. Cross Reference for ISGYCNFP (continued)

Name	Offset	Hex Tag
CNFP_CONTENTIONCHANGE	E	20
CNFP_CONTENTIONEND	E	10
CNFP_CONTENTIONSTART	E	40
CNFP_END	B0	
CNFP_ENDOFMEMORY	70	40
CNFP_ENDOFTASK	70	80
CNFP_ENQTOKEN	40	
CNFP_FILTER	C	80
CNFP_FLAGS	C	
CNFP_ID	0	
CNFP_INPUTFLAGS	E	
CNFP_INTERNALREQUEST	70	20
CNFP_KCURRENTVERSION	B0	2
CNFP_KID	B0	D5C6D7
CNFP_KRETCNG	B0	2
CNFP_KRETECB	B0	4
CNFP_KRETHAVE	B0	1
CNFP_KRETNONE	B0	0
CNFP_KRETTEST	B0	7
CNFP_KRETUSE	B0	3
CNFP_KSCOPESTEP	B0	0
CNFP_KSCOPESYSTEM	B0	1
CNFP_KSCOPESYSTEMS	B0	2
CNFP_KSF3MASK	B0	F0
CNFP_KVERSION#1	B0	1
CNFP_KVERSION#2	B0	2
CNFP_LEN	B0	B0
CNFP_OUTPUTFLAGS	C	
CNFP_QNAME@	10	
CNFP_RD_AMODE31	A0	80
CNFP_RD_ASCB@	78	
CNFP_RD_ECB@	A4	
CNFP_RD_JOBNAME	90	
CNFP_RD_MASID	88	
CNFP_RD_MTCB	8C	
CNFP_RD_NQXITSCOPE	8A	
CNFP_RD_NSI@	A0	
CNFP_RD_ORIGINALSCOPE	81	
CNFP_RD_REQUESTTOKEN	60	
CNFP_RD_RET	82	
CNFP_RD_RET1	82	4
CNFP_RD_RET2	82	2
CNFP_RD_RET3	82	1
CNFP_RD_SCOPE	80	
CNFP_RD_SYSNAME	98	
CNFP_RD_TCB@	7C	
CNFP_RD_UCB@	84	
CNFP_REQUESTDATA	20	
CNFP_REQUESTDATAAVAILABLE	E	8

ISGYCNFP mapping

Table 883. Cross Reference for ISGYCNFP (continued)

Name	Offset	Hex Tag
CNFP_RLEN	18	
CNFP_RNAME@	14	
CNFP_RSCTOKEN	20	
CNFP_SF1_AUTHORIZED	A8	40
CNFP_SF1_ENQ	A8	80
CNFP_SF1_ISGENQ	A8	4
CNFP_SF1_ISGENQCONDYES	A8	2
CNFP_SF1_LINKAGE	A8	8
CNFP_SF1_MATCHTASK	A8	20
CNFP_SF1_RESETMUSTCOMPLETE	A8	10
CNFP_SF1_SMCORRMC	A8	10
CNFP_SF1_STEPMUSTCOMPLETE	A8	10
CNFP_SF2_CHANGE	A9	20
CNFP_SF2_CONTENTIONACT_FAIL	A9	8
CNFP_SF2_ECB	A9	4
CNFP_SF2_RNLEQNO	A9	40
CNFP_SF2_SHARE	A9	80
CNFP_SF2_TEST_YES	A9	10
CNFP_SF3_CONVERTED	AA	40
CNFP_SF3_EXCLUDED	AA	20
CNFP_SF3_GLOBAL	AA	10
CNFP_SF3_INCLUDED	AA	80
CNFP_STATEFLAGS	A8	
CNFP_STATEFLAGS1	A8	
CNFP_STATEFLAGS2	A9	
CNFP_STATEFLAGS3	AA	
CNFP_SYSTEM	E	80
CNFP_VERSION	4	
CNFP_WORKAREA@	8	
REQUESTFLAGS	70	

Chapter 239. ISGYCON Information

ISGYCON Programming Interface Information

ISGYCON is a programming interface.

ISGYCON Heading Information

Common Name: Constants for users of GRS services
Macro ID: ISGYCON
DSECT Name: N/A
Owning Component: Global Resource Serialization (SCSDS)
Eye-Catcher ID: None
Storage Attributes: Main Storage: N/A
Size: 0 bytes
Created by: N/A
Pointed to by: N/A
Serialization: None
Function: Provides a list of constants for users of GRS services and exits.

ISGYCON mapping

Table 884. Structure

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

ISGYCON mapping

Table 884. Structure (continued)

Offset	Offset		Len	Name(Dim)	Description
Dec	Hex	Type			
		ISGYCON 1;;			
		START OF SPECIFICATIONS			
01		PROPRIETARY STATEMENT =			
		Licensed Materials - Property of IBM			
		5650-ZOS Copyright IBM Corp. 2001, 2013			
01		STATUS = HBB7790			
01		END OF PROPRIETARY STATEMENT			
01		EXTERNAL CLASSIFICATION: PI			
01		END OF EXTERNAL CLASSIFICATION:			
02		NOTE: THIS IS A SET OF CONSTANTS NOT AN ACTUAL DATA AREA			
		DATA AREA INFORMATION IS NOT APPLICABLE.			
01		DESCRIPTIVE NAME: Constants for users of GRS services			
02		ACRONYM: N/A			
01		MACRO NAME: ISGYCON			
01		DSECT NAME:			
		N/A			
01		COMPONENT: Global Resource Serialization (SCSDS)			
01		EYE CATCHER: None			
02		OFFSET: N/A			
02		LENGTH: N/A			
01		STORAGE ATTRIBUTES:			
02		MAIN STORAGE: N/A			
01		SIZE: 0 bytes			
01		CREATED BY: N/A			
01		POINTED TO BY: N/A			
01		SERIALIZATION: None			
01		FUNCTION: Provides a list of constants for users of GRS			
		services and exits.			
01		METHOD OF ACCESS:			
		PL/X: %INCLUDE SYSLIB(ISGYCON)			
		ASM: ISGYCON			
		DELETED-BY: N/A			
		DEPENDENCIES: N/A			
		NOTES: None			
		CHANGE-ACTIVITY:			
		\$L0=GRSWC HBB7705 000419 PD2V: GRS Wildcard			
		\$L1=PCENQ HBB7705 010508 PDDV: Exits			
		\$L2=PCENQ HBB7705 010827 PDLG: Exits			
		\$P1=PYM0237 HBB7706 011008 PDWL: Add new Reason Codes for 4xx			
		ABENDS when QWA Global and Local			
		resource counts exceed 'FFFF'x			
		\$L3=PCENQ HBB7705 011212 PD2V: MASID reason codes			
		\$P2=PYV0363 HBB7707 020213 PDDV: use EAX for GRS ALET			
		\$P2=PYV0375 HBB7707 020405 PD2V: Add 43x Bad Pel Prefix			
		\$01=0W53321 HBB7707 020429 PDFX: ABEND for ENQ/DEQ parameter list			
		not in primary			
		\$L4=64GRS HBB7709 021125 PDFX: ISGQUERY return codes			
		\$L5=64GRS HBB7709 030623 PDBC: ENQ/DEQ return code updates			
		\$P3=PJK0722 HBB7709 030623 PDFX: Add ISGQUERYrsn_GRSNone			

Table 884. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
\$P4=PJK0888	HBB7709	030915	PDFX:	ISGENQ reason code update	
=PJK0906	HBB7709	030915	PDFX:	ISGENQ reason code update	
\$P5=PJK0902	HBB7709	030915	PDBC:	Add old ENQ ECB return codes	
\$P6=PJK1044	HBB7709	031021	PDFX:	Remove Synchres disabled RSN	
\$02=0A05229	HBB7708	031024	PDFX:	Add 73x reason for CSVSYNEX failed	
\$P7=PJK0875	HBB7709	031021	PDFX:	Remove unneeded ISGENQ RSN codes	
\$P8=PJK0745	HBB7709	031110	PDFX:	General doc changes	
\$P9=PJK1339	HBB7709	040310	PDFY:	Authorize ISGQUERY for MLS	
\$PA=ME01502	HBB7720	041105	PDFX:	Add ISGRsnCodeSmcInXmem	
\$L6=ENQAPI	HBB7730	050203	PDBC:	ISGADMIN return/reasons	
\$PB=ME03985	HBB7730	050721	PDBC:	Fix ISGADMIN rc C typo	
=ME03930	HBB7730	050808	PDCJ:	Fix copyright	
\$L7=GRSTOR2	HBB7730	050928	PDBC:	More ISGADMIN return/reasons, Updated reasons with typos	
\$L8=GRSTOR2	HBB7740	060515	PDGA:	New reason code	
\$L9=GRSTOR2	HBB7740	060524	PDBC:	New ISGADMIN reasons	
\$LA=GRSUDATA	HBB7750	070122	PDFY:	New ISGENQ/ISGQUERY Reasons	
\$PC=ME12166	HBB7760	080701	PDBC:	New ISGENQ reason	
\$LB=GRSSTAT3	HBB7780	100216	PDFY:	New ISGQuery reasons	
\$LC=GRSCHNG	HBB7790	110223	PDFY:	New ISGENQ reasons	
\$PD=ME20098	HBB7790	110603	PDFY:	New SRB mode ENQ/DEQ reason	
END OF SPECIFICATIONS					
Return Codes from ENQ/DEQ					
ENQ RET=TEST Return Codes					
0	(0)	X'0'	0	ENQ_KTESTRCRESOURCEISAVAILABLE	"0"
0	(0)	X'4'	0	ENQ_KTESTRCRESOURCEISNOTAVAILABLE	"4"
0	(0)	X'8'	0	ENQ_KTESTRCPREVIOUSREQALREADYOWNS	"8"
0	(0)	X'14'	0	ENQ_KTESTRCPREVIOUSREQDOESNOTOWN	"20"
0	(0)	X'20'	0	ENQ_KTESTRCMATCHINGTASKOWNS	"32"
ENQ RET=USE Return Codes					
0	(0)	X'0'	0	ENQ_KUSERCRESOURCEOWNED	"0"
0	(0)	X'4'	0	ENQ_KUSERCRESOURCENOTOWNED	"4"
0	(0)	X'8'	0	ENQ_KUSERCPREVIOUSREQALREADYOWNS	"8"
0	(0)	X'14'	0	ENQ_KUSERCPREVIOUSREQDOESNOTOWN	"20"
0	(0)	X'18'	0	ENQ_KUSERCENVIRONMENTALERROR	"24"
ENQ RET=CHNG Return Codes					
0	(0)	X'0'	0	ENQ_KCHNGRCRESOURCECHANGED	"0"
0	(0)	X'4'	0	ENQ_KCHNGRCRESOURCENOTCHANGED	"4"
0	(0)	X'8'	0	ENQ_KCHNGRCRESOURCENOTREQED	"8"
0	(0)	X'14'	0	ENQ_KCHNGRCRESOURCENOTOWNED	"20"
0	(0)	X'18'	0	ENQ_KCHNGRCENVIRONMENTALERROR	"24"

ISGYCON mapping

Table 884. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
ENQ RET=HAVE ReturnCodes					
0	(0)	X'0'	0	ENQ_KHAVERCRESOURCEOWNED	"0"
0	(0)	X'8'	0	ENQ_KHAVERCPREVIOUSREQALREADYOWNS	"8"
0	(0)	X'14'	0	ENQ_KHAVERCPREVIOUSREQDOESNOTOWN	"20"
0	(0)	X'18'	0	ENQ_KHAVERCENVIRONMENTALERROR	"24"
0	(0)	X'20'	0	ENQ_KHAVERCMATCHINGTASKOWNS	"32"
0	(0)	X'28'	0	ENQ_KHAVERCCALLERCANNOTUSE	"40"
0	(0)	X'44'	0	ENQ_KHAVERCMATCHINGTASKVIOLATION	"68"
ENQ RET=ECB ReturnCodes					
0	(0)	X'0'	0	ENQ_KECBRCRESOURCEOWNED	"0"
0	(0)	X'4'	0	ENQ_KECBRCWILLBEPOSTED	"4"
0	(0)	X'8'	0	ENQ_KECBRCPREVIOUSREQALREADYOWNS	"8"
0	(0)	X'14'	0	ENQ_KECBRCPREVIOUSREQDOESNOTOWN	"20"
0	(0)	X'18'	0	ENQ_KECBRCENVIRONMENTALERROR	"24"
0	(0)	X'24'	0	ENQ_KECBRCWAITTOOWNEXCLUSIVE	"36"
DEQ ReturnCodes					
0	(0)	X'0'	0	DEQ_KRCRESOURCERELEASED	"0"
0	(0)	X'4'	0	DEQ_KRCRESOURCEPREVIOUSREQDOESNOTOWN	"4"
0	(0)	X'8'	0	DEQ_KRCRESOURCENOTOWNED	"8"
Reason Codes -- GRS ABEND Reason Codes (Note that the reason codes are of the form "xxxxYYYY" where "xxxx" is used to contain the module id of the failing module. Module ids can be found in ISGYMT or ISGFID) Also see ISGCONST for internal reason codes.					
0	(0)	BITSTRING	0	ISGRSNCODEMASK	"X'0000FFFF'" Used to mask off the high half word to remove the module id from the ABEND and reason codes
3xx Abend Reason codes					
	....	...1		ISGRSNCODEUNAUTHNQDQOFAUTHRESOURCE	"X'00000001'" An unauthorized requester attempted to ENQ or DEQ an authorized resource
	....	...1.		ISGRSNCODEUNAUTHNQDQOFAUTHRESOURCEBYEXIT	"X'00000002'" An ISGNQXIT installation exit specified an authorized resource name for an unauthorized request

Table 884. Structure (continued)

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
....	..11			ISGRSNCODEUCBNOTALLOCATED	"X'00000003'" An unauthorized requester attempted to RESERVE a device that is not allocated to the requesting task
....	.1..			ISGRSNCODEUCBNOTALLOCATEDBYEXIT	"X'00000004'" An ISGNQXIT installation exit specified a UCB for a device that is not allocated to the requesting, unauthorized task
....	.1.1			ISGRSNCODEUNAUTHMASIDREQ	"X'00000005'" An unauthorized requester attempted a MASID request
....	.11.			ISGRSNCODEUNAUTHREQWITHTCBORPELSTPMC	"X'00000006'" An unauthorized requester specified TCB or Step Must Complete
....	.111			ISGRSNCODEUNAUTHGENERICREQUEST	"X'00000007'" An unauthorized (DEQ) requester attempted to issue a generic request
....	1...			ISGRSNCODEUNAUTHECBREQUEST	"X'00000008'" An unauthorized (ENQ) requester attempted to issue an ECB request
4xx Abend Reason codes					
....	...1			ISGRSNCODEPARMLISTALTEREDWHILEPROCESSING	"X'00000001'" The input parameter list was altered during ENQ/DEQ processing
....	...1.			ISGRSNCODERNLNOANDUCBSPECIFIED	"X'00000002'" The RESERVE request specified RNL=NO
....	...11			ISGRSNCODEINVALIDUCB	"X'00000003'" The storage specified by the input UCB address does not map to a valid UCB
....	.1..			ISGRSNCODEINVALIDUCBBYEXIT	"X'00000004'" The storage specified by the UCB address specified by an ISGNQXIT exit routine does not map to a valid UCB
....	.1.1			ISGRSNCODEBADUSERPEL	"X'00000005'" The storage passed to ENQ/DEQ processing could not be accessed in the caller's key
....	.11.			ISGRSNCODEBADQNAME	"X'00000006'" The storage containing the QNAME could not be accessed in the caller's key
....	.111			ISGRSNCODEBADRNAME	"X'00000007'" The storage containing the RNAME could not be accessed in the caller's key
....	1...			ISGRSNCODEBADUCBPTR	"X'00000008'" The storage containing the pointer to the UCB address could not be accessed in the caller's key

ISGYCON mapping

Table 884. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
	....	1..1		ISGRSNCODEBADUCBADDRESS	"X'00000009'" The storage containing the UCB address could not be accessed in the caller's key
	....	1.1.		ISGRSNCODELOCALRESOURCECOUNTOVERRUN	"X'0000000A'" The local resource count exceeded 'FFFF'x resources
	....	1.11		ISGRSNCODEGLOBALRESOURCECOUNTOVERRUN	"X'0000000B'" The global resource count exceeded 'FFFF'x resources
	....	11..		ISGRSNCODEINVALIDFORMATWORD	"X'0000000C'" The format word value was invalid
	....	11.1		ISGRSNCODEBADTCBSTORAGE	"X'0000000D'" The storage specified by the input TCB is invalid
	....	111.		ISGRSNCODENOTATCB	"X'0000000E'" The storage specified by the input TCB does not map to a valid TCB
	....	1111		ISGRSNCODEMASIDREQSPECIFIEDTCBORPELSTPMC	"X'0000000F'" A MASID request incorrectly specified TCB or Pe1StpMC
...1	....			ISGRSNCODEINVALIDMASIDRNAMELENGTH	"X'00000010'" A MASID request has an rname with a bad length
...1	...1			ISGRSNCODEMASIDREQINVALIDRET	"X'00000011'" A MASID request specified invalid RET= value
...1	...1.			ISGRSNCODEMASIDREQWITHNOTCB	"X'00000012'" A MASID request has no TCB associated with it
...1	...11			ISGRSNCODEMASIDREQSUBTASKOFTARGET	"X'00000013'" Issuing tasks TCB is a subtask of the target TCB, illegal
...1	...1..			ISGRSNCODEREQSETOBSOLETEFLAG	"X'00000014'" Request tried to set an obsolete bit in the Pe1
...1	...1.1			ISGRSNCODETCBSPECIFIEDANDPELSTPMC	"X'00000015'" Request illegally specified TCB with Pe1StpMC
...1	...11.			ISGRSNCODEDEQREQSPECIFIEDPELSAVE	"X'00000016'" Deq request illegally specified Pe1Save
...1	...111			ISGRSNCODEINVALIDRETSPECIFIED	"X'00000017'" Request specified invalid RET= value
...1	1...			ISGRSNCODEGENERICREQWITHINVALIDRET	"X'00000018'" Generic request specified invalid RET= value
...1	1..1			ISGRSNCODEENQREQSPECIFIEDGENERIC	

Table 884. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"X'00000019'" Enq request illegally specified PelGen2
...1	1.1.			ISGRSNCODEIRENQNOMATCHINGTCB	"X'0000001A'" A directed enq request was issued with no matching TCB in the requestor's address space
...1	1.11			ISGRSNCODEIRENQANDUCBSPECIFIED	"X'0000001B'" Directed enq request illegally specified UCB
...1	11..			ISGRSNCODEIRENQNOECBANDINVALIDRET	"X'0000001C'" Directed enq request illegally specified no ECB with an invalid RET= value
...1	11.1			ISGRSNCODEOECBREQWITHBADRET	"X'0000001D'" This label has a typo but is kept for compatibility
...1	11.1			ISGRSNCODEECBREQWITHBADRET	"X'0000001D'" An ECB request but RET does not specify ECB
...1	111.			ISGRSNCODEOECBREQWITHSTEPMUSTCOMPLETE	"X'0000001E'" This label has a typo but is kept for compatibility
...1	111.			ISGRSNCODEECBREQWITHSTEPMUSTCOMPLETE	"X'0000001E'" An ECB request illegally specified PelStpMC
...1	1111			ISGRSNCODEBADFORMATWORD	"X'0000001F'" The storage containing the format word could not be accessed in the caller's key
..1.	....			ISGRSNCODEBADFORMATVALUE	"X'00000020'" The storage containing the format value could not be accessed in the caller's key
..1.	...1			ISGRSNCODEPARMLISTALETNOTZERO	"X'00000021'" ENQ/DEQ parameter list was not in the primary address space
..1.	..1.			ISGRSNCODEBADPELPREFIX	"X'00000022'" The storage containing the format value could not be accessed in the caller's key
..1.	..11			ISGRSNCODESMCINXMEM	"X'00000023'" SMC or RMC was specified while P=H.
..1.	..1..			ISGRSNCODESRBMODE	"X'00000024'" PC-ENQ or PC-DEQ was entered in SRB mode.
7xx Abend Reason codes					
....	....			ISGRSNCODEGENERALFAILURE	"X'00000000'" General module failure in ENQ/DEQ processing
....	...1			ISGRSNCODEIOSVDSTFFFAILURE	"X'00000001'" Synchronous RESERVE failed during device state transition flushing
....	..1.			ISGRSNCODERESERVESTARTFAILURE	

ISGYCON mapping

Table 884. Structure (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
		....	..11		ISGRSNCODERESERVEDONEFAILURE	"X'00000002'" RESERVE start processing failed
		....	.1..		ISGRSNCODECOULDNOTOBTAINHOMESTORAGE	"X'00000003'" Synchronous RESERVE done processing failed
		....	.1.1		ISGRSNCODECOULDNOTOBTAINCOMMONSTORAGE	"X'00000004'" ENQ/DEQ processing could not obtain storage in the home address space
		....	.11.		ISGRSNCODECOULDNOTOBTAINPRIMARYALET	"X'00000005'" ENQ/DEQ processing could not obtain storage in the common area
		....	.111		ISGRSNCODECOULDNOTSUSPENDFORRNLCHANGE	"X'00000006'" ENQ/DEQ processing could not obtain the ALET of the caller's primary address space
		....	1...		ISGRSNCODECOULDNOTOBTAINGRSALET	"X'00000007'" ENQ processing could not obtain a DSQE to suspend a request for a RNL change
		....	1..1		ISGRSNCODECOULDNOTOBTAINPRIMARYSTORAGE	"X'00000008'" ENQ/DEQ processing could not obtain the ALET of the GRS address space
0	(0)	BITSTRING		0	ISGRSNCODECOULDNOTQUERYLSE	"X'00000009'" ENQ/DEQ processing could not obtain storage in the primary address space
0	(0)	BITSTRING		0	ISGRSNCODECOULDNOTUPDATELSE	"X'00000100'" ENQ/DEQ processing could not query the LSE of an ENQ requestor
						"X'00000200'" ENQ/DEQ processing could not update the LSE of an ENQ requestor
			1111 11.1		ISGRSNCODECSVDYNEXABEND	"X'000000FD'" Abend in CSVDYNEX
			1111 111.		ISGRSNCODEEXITABEND	"X'000000FE'" Abend in dynamic exit
			1111 1111		ISGRSNCODEUCBOVERFLOW	"X'000000FF'" RESERVE processing detected an overflow when updating the RESERVE count

ISGQUERY Return and Reason Codes

(Note that the reason codes are of the form "xxxxYYYY" where "xxxx" is used to contain the module id of the failing module.)

Module ids can be found in ISGYMT or ISGFID)

Use ISGRsnCodeMask to remove the module id from the reason codes

		....	....		ISGQUERYRC_OK	"X'00000000'"
		....	.1..		ISGQUERYRC_WARN	"X'00000004'"
0	(0)	BITSTRING		0	ISGQUERYRSN_NOMATCHINGRNL	"X'00000401'"
0	(0)	BITSTRING		0	ISGQUERYRSN_RNLCHANGEINPROGRESS	"X'00000402'"
0	(0)	BITSTRING		0	ISGQUERYRSN_GRSRNLXCLUDE	"X'00000403'"

Table 884. Structure (continued)

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
0	(0)	BITSTRING	0	ISGQUERYRSN_NOMATCHINGRESOURCES	"X'00000404'"
0	(0)	BITSTRING	0	ISGQUERYRSN_ANSWERAREAFULL	"X'00000405'"
0	(0)	BITSTRING	0	ISGQUERYRSN_GRSNONE	"X'00000406'"
		.... 1...		ISGQUERYRC_PARMERROR	"X'00000008'"
0	(0)	BITSTRING	0	ISGQUERYRSN_BADPLISTADDRESS	"X'00000801'"
0	(0)	BITSTRING	0	ISGQUERYRSN_BADPLISTALET	"X'00000802'"
0	(0)	BITSTRING	0	ISGQUERYRSN_BADPLISTVERSION	"X'00000803'"
0	(0)	BITSTRING	0	ISGQUERYRSN_RESERVEDFIELDNOTNULL	"X'00000804'"
0	(0)	BITSTRING	0	ISGQUERYRSN_BADREQINFO	"X'00000805'"
0	(0)	BITSTRING	0	ISGQUERYRSN_BADRNL	"X'00000806'"
0	(0)	BITSTRING	0	ISGQUERYRSN_BADRNAMEADDRESS	"X'00000807'"
0	(0)	BITSTRING	0	ISGQUERYRSN_BADRNAMEALET	"X'00000808'"
0	(0)	BITSTRING	0	ISGQUERYRSN_BADRNAMELEN	"X'00000809'"
0	(0)	BITSTRING	0	ISGQUERYRSN_BADRNLADDRESS	"X'0000080A'"
0	(0)	BITSTRING	0	ISGQUERYRSN_BADRNLALET	"X'0000080B'"
0	(0)	BITSTRING	0	ISGQUERYRSN_MUTUALLYEXCLUSIVE	"X'0000080C'"
0	(0)	BITSTRING	0	ISGQUERYRSN_BADANSAREAADDRESS	"X'0000080D'"
0	(0)	BITSTRING	0	ISGQUERYRSN_BADANSAREALET	"X'0000080E'"
0	(0)	BITSTRING	0	ISGQUERYRSN_BADSCANACTION	"X'0000080F'"
0	(0)	BITSTRING	0	ISGQUERYRSN_BADRESUMETOKENADDRESS	"X'00000810'"
0	(0)	BITSTRING	0	ISGQUERYRSN_BADRESUMETOKENALET	"X'00000811'"
0	(0)	BITSTRING	0	ISGQUERYRSN_BADGATHERFROM	"X'00000812'"
0	(0)	BITSTRING	0	ISGQUERYRSN_BADSEARCH	"X'00000813'"
0	(0)	BITSTRING	0	ISGQUERYRSN_BADENQTOKENADDRESS	"X'00000814'"
0	(0)	BITSTRING	0	ISGQUERYRSN_BADENQTOKENALET	"X'00000815'"
0	(0)	BITSTRING	0	ISGQUERYRSN_BADQNAMEMATCH	"X'00000816'"
0	(0)	BITSTRING	0	ISGQUERYRSN_BADRNAMEMATCH	"X'00000817'"
0	(0)	BITSTRING	0	ISGQUERYRSN_BADSCOPE	"X'00000818'"
0	(0)	BITSTRING	0	ISGQUERYRSN_BADSERIALIZEBY	"X'00000819'"
0	(0)	BITSTRING	0	ISGQUERYRSN_ANSLENTOSMALL	"X'0000081A'"
0	(0)	BITSTRING	0	ISGQUERYRSN_RESUMETOKENNOTVALID	"X'0000081B'"
0	(0)	BITSTRING	0	ISGQUERYRSN_RESUMETOKENTOOOLD	"X'0000081C'"
0	(0)	BITSTRING	0	ISGQUERYRSN_ENQTOKENNOTVALID	"X'0000081D'"
0	(0)	BITSTRING	0	ISGQUERYRSN_BADREQUESTERLIMIT	"X'0000081E'"
0	(0)	BITSTRING	0	ISGQUERYRSN_NOPOSSIBLEMATCH	"X'0000081F'"
0	(0)	BITSTRING	0	ISGQUERYRSN_BADANSDETAIL	"X'00000820'"

ISGYCON mapping

Table 884. Structure (continued)

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	BITSTRING	0	ISGQUERYRSN_NOTAUTHTOQSCAN	"X'00000821'"
0	(0)	BITSTRING	0	ISGQUERYRSN_BADASID	"X'00000822'"
0	(0)	BITSTRING	0	ISGQUERYRSN_BADUSERDATAADDRESS	"X'00000823'"
0	(0)	BITSTRING	0	ISGQUERYRSN_BADUSERDATAALET	"X'00000824'"
0	(0)	BITSTRING	0	ISGQUERYRSN_BADUSERDATALEN	"X'00000825'"
0	(0)	BITSTRING	0	ISGQUERYRSN_BADUSERDATAMATCH	"X'00000826'"
0	(0)	BITSTRING	0	ISGQUERYRSN_BADANALYZE	"X'00000827'"
0	(0)	BITSTRING	0	ISGQUERYRSN_NOTAUTHTOLATCHECA	"X'00000828'"
		.... 11..		ISGQUERYRC_ENVERROR	"X'0000000C'"
0	(0)	BITSTRING	0	ISGQUERYRSN_SRBMODE	"X'00000C01'"
0	(0)	BITSTRING	0	ISGQUERYRSN_NOTENABLED	"X'00000C02'"
0	(0)	BITSTRING	0	ISGQUERYRSN_COMPLEXMIGRATING	"X'00000C03'"
0	(0)	BITSTRING	0	ISGQUERYRSN_CANNOTOBTAINLOCKS	"X'00000C04'"
0	(0)	BITSTRING	0	ISGQUERYRSN_LOCKHELD	"X'00000C05'"
0	(0)	BITSTRING	0	ISGQUERYRSN_MAXCONCURRENTREQUESTS	"X'00000C06'"
0	(0)	BITSTRING	0	ISGQUERYRSN_RINGRESUMEINSTAR	"X'00000C07'"
0	(0)	BITSTRING	0	ISGQUERYRSN_INSUFFICIENTSTORAGE	"X'00000C08'"
0	(0)	BITSTRING	0	ISGQUERYRSN_FRRHELD	"X'00000C09'"
		...1		ISGQUERYRC_COMPERROR	"X'00000010'"
ISGENQ Return and Reason Codes					
(Note that the reason codes are of the form "xxxxYYYY" where					
"xxxx" is used to contain the module id of the failing module.					
Module ids can be found in ISGYMT or ISGFID)					
Use ISGRsnCodeMask to remove the module id from the reason codes					
		.... ....		ISGENQRC_OK	"X'00000000'"
		.... .1..		ISGENQRC_WARN	"X'00000004'"
0	(0)	BITSTRING	0	ISGENQRSN_NONZERORETURNCODES	"X'00000401'"
0	(0)	BITSTRING	0	ISGENQRSN_REQUESTNOTPROCESSED	"X'00000402'"
0	(0)	BITSTRING	0	ISGENQRSN_ECBWILLBEPOSTED	"X'00000403'"
0	(0)	BITSTRING	0	ISGENQRSN_NOTIMMEDIATELYAVAILABLE	"X'00000404'"
0	(0)	BITSTRING	0	ISGENQRSN_TASKOWNSEXCLUSIVE	"X'00000405'"
0	(0)	BITSTRING	0	ISGENQRSN_TASKOWNSSHARED	"X'00000406'"
0	(0)	BITSTRING	0	ISGENQRSN_TASKWAITING	"X'00000407'"
0	(0)	BITSTRING	0	ISGENQRSN_OTHERSHAREDOWNERS	"X'00000409'"
0	(0)	BITSTRING	0	ISGENQRSN_TASKDOESNOTOWN	"X'0000040A'"
0	(0)	BITSTRING	0	ISGENQRSN_TASKSUSPENDEDFORRESOURCE	"X'0000040B'"
0	(0)	BITSTRING	0	ISGENQRSN_UNPROTECTEDQNAME	"X'0000040D'"

Table 884. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	BITSTRING	0	ISGENQRSN_UNPROTECTEDEXITQNAME	"X'0000040E'"
0	(0)	BITSTRING	0	ISGENQRSN_ECBATLEASTONEREQUESTFAILED	"X'0000040F'"
		.... 1...		ISGENQRC_PARMERROR	"X'00000008'"
0	(0)	BITSTRING	0	ISGENQRSN_BADPLISTADDRESS	"X'00000801'"
0	(0)	BITSTRING	0	ISGENQRSN_BADPLISTALET	"X'00000802'"
0	(0)	BITSTRING	0	ISGENQRSN_BADPLISTVERSION	"X'00000803'"
0	(0)	BITSTRING	0	ISGENQRSN_RESERVEDFIELDNOTNULL	"X'00000804'"
0	(0)	BITSTRING	0	ISGENQRSN_MUTUALLYEXCLUSIVE	"X'00000805'"
0	(0)	BITSTRING	0	ISGENQRSN_BADREQUEST	"X'00000806'"
0	(0)	BITSTRING	0	ISGENQRSN_BADCONTENTIONACT	"X'00000807'"
0	(0)	BITSTRING	0	ISGENQRSN_BADOWNINGTTOKEN	"X'00000808'"
0	(0)	BITSTRING	0	ISGENQRSN_BADANSAREAADDRESS	"X'00000809'"
0	(0)	BITSTRING	0	ISGENQRSN_BADANSAREALET	"X'0000080A'"
0	(0)	BITSTRING	0	ISGENQRSN_ANSLENTTOOSMALL	"X'0000080B'"
0	(0)	BITSTRING	0	ISGENQRSN_BADRNAMEADDRESS	"X'0000080C'"
0	(0)	BITSTRING	0	ISGENQRSN_BADRNAMELET	"X'0000080D'"
0	(0)	BITSTRING	0	ISGENQRSN_BADRNAMELEN	"X'0000080E'"
0	(0)	BITSTRING	0	ISGENQRSN_BADSCOPE	"X'0000080F'"
0	(0)	BITSTRING	0	ISGENQRSN_BADUCB@	"X'00000810'"
0	(0)	BITSTRING	0	ISGENQRSN_BADCOND	"X'00000811'"
0	(0)	BITSTRING	0	ISGENQRSN_BADSYNCHRES	"X'00000812'"
0	(0)	BITSTRING	0	ISGENQRSN_BADENQTOKENADDRESS	"X'00000813'"
0	(0)	BITSTRING	0	ISGENQRSN_BADENQTOKENALET	"X'00000814'"
0	(0)	BITSTRING	0	ISGENQRSN_BADENQTOKEN	"X'00000815'"
0	(0)	BITSTRING	0	ISGENQRSN_BADNUMRES	"X'00000816'"
0	(0)	BITSTRING	0	ISGENQRSN_BADRESTABLEADDRESS	"X'00000817'"
0	(0)	BITSTRING	0	ISGENQRSN_BADRESTABLEALET	"X'00000818'"
0	(0)	BITSTRING	0	ISGENQRSN_BADRESTABLE	"X'00000819'"
0	(0)	BITSTRING	0	ISGENQRSN_BADENQTOKENTBLADDRESS	"X'0000081A'"
0	(0)	BITSTRING	0	ISGENQRSN_BADENQTOKENTBLALET	"X'0000081B'"
0	(0)	BITSTRING	0	ISGENQRSN_BADRETURNTABLEADDRESS	"X'0000081C'"
0	(0)	BITSTRING	0	ISGENQRSN_BADRETURNTABLEALET	"X'0000081D'"
0	(0)	BITSTRING	0	ISGENQRSN_NOTAUTHORIZEDFORQNAME	"X'0000081E'"
0	(0)	BITSTRING	0	ISGENQRSN_NOTAUTHORIZEDFOREXITQNAME	"X'0000081F'"
0	(0)	BITSTRING	0	ISGENQRSN_NOTAUTHORIZEDFORECB	"X'00000820'"
0	(0)	BITSTRING	0	ISGENQRSN_NOTAUTHORIZEDFOROWNINGTTOKEN	"X'00000821'"
0	(0)	BITSTRING	0	ISGENQRSN_BADUSERDATAADDRESS	

ISGYCON mapping

Table 884. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					"X'00000822'"
0	(0)	BITSTRING	0	ISGENQRSN_BADUSERDATAALET	"X'00000823'"
0	(0)	BITSTRING	0	ISGENQRSN_DEVICENOTALLOCATED	"X'00000824'"
0	(0)	BITSTRING	0	ISGENQRSN_EXITDEVICENOTALLOCATED	"X'00000825'"
0	(0)	BITSTRING	0	ISGENQRSN_BADCONTROL	"X'00000826'"
0	(0)	BITSTRING	0	ISGENQRSN_BADEXITUCB@	"X'00000827'"
0	(0)	BITSTRING	0	ISGENQRSN_NOTAUTHORIZEDFORENQMAX	"X'00000828'"
		.... 11..		ISGENQRC_ENVERROR	"X'0000000C'"
0	(0)	BITSTRING	0	ISGENQRSN_REQUESTLIMITEXCEEDED	"X'00000C01'"
0	(0)	BITSTRING	0	ISGENQRSN_ABENDINEXIT	"X'00000C05'"
0	(0)	BITSTRING	0	ISGENQRSN_TASKENDING	"X'00000C0A'"
0	(0)	BITSTRING	0	ISGENQRSN_FRRHELD	"X'00000C0B'"
0	(0)	BITSTRING	0	ISGENQRSN_LOCKHELD	"X'00000C0C'"
0	(0)	BITSTRING	0	ISGENQRSN_SRBMODE	"X'00000C0D'"
0	(0)	BITSTRING	0	ISGENQRSN_NOTENABLED	"X'00000C0E'"
0	(0)	BITSTRING	0	ISGENQRSN_MASIDTARGET	"X'00000C0F'"
0	(0)	BITSTRING	0	ISGENQRSN_UNSUPPORTEDMODE	"X'00000C10'"
0	(0)	BITSTRING	0	ISGENQRSN_MASIDNOTSUPPORTED	"X'00000C11'"
		...1		ISGENQRC_COMPERROR	"X'00000010'"
0	(0)	BITSTRING	0	ISGENQRSN_CANNOTOBTAINHOMESTORAGE	"X'00001002'"
0	(0)	BITSTRING	0	ISGENQRSN_CANNOTOBTAINCOMMONSTORAGE	"X'00001003'"
0	(0)	BITSTRING	0	ISGENQRSN_CANNOTOBTAINPRIMARYALET	"X'00001004'"
0	(0)	BITSTRING	0	ISGENQRSN_SYNCHRESFLUSHFAILED	"X'00001006'"
0	(0)	BITSTRING	0	ISGENQRSN_RESERVESTARTFAILED	"X'00001007'"
0	(0)	BITSTRING	0	ISGENQRSN_RESERVECOUNTOVERFLOW	"X'00001008'"
0	(0)	BITSTRING	0	ISGENQRSN_CANNOTOBTAINDSQE	"X'00001009'"
0	(0)	BITSTRING	0	ISGENQRSN_RESERVEDONEFAILED	"X'0000100A'"
0	(0)	BITSTRING	0	ISGENQRSN_CANNOTOBTAINPRIMARYSTORAGE	"X'0000100B'"

ISGADMIN Return and Reason Codes

(Note that the reason codes are of the form "xxxxYYYY" where

"xxxx" is used to contain the module id of the failing module.

Module ids can be found in ISGYMT or ISGFID)

Use ISGRsnCodeMask to remove the module id from the reason codes

		.... ....		ISGADMINRC_OK	"X'00000000'"
		.... .1..		ISGADMINRC_WARN	"X'00000004'"
0	(0)	BITSTRING	0	ISGADMINRSN_ENQMAXVALUELOW	"X'00000401'"
0	(0)	BITSTRING	0	ISGADMINRSN_RESETEENQMAXIGNORED	"X'00000402'"
		.... 1...		ISGADMINRC_PARMERROR	"X'00000008'"

Table 884. Structure (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	BITSTRING	0	ISGADMINRSN_BADPLISTADDRESS	"X'00000801'"
0	(0)	BITSTRING	0	ISGADMINRSN_BADPLISTALET	"X'00000802'"
0	(0)	BITSTRING	0	ISGADMINRSN_BADPLISTVERSION	"X'00000803'"
0	(0)	BITSTRING	0	ISGADMINRSN_RESERVEDFIELDNOTNULL	"X'00000804'"
0	(0)	BITSTRING	0	ISGADMINRSN_BADREQUEST	"X'00000805'"
0	(0)	BITSTRING	0	ISGADMINRSN_ENQMAXVALUETOLOW	"X'00000806'"
0	(0)	BITSTRING	0	ISGADMINRSN_BADMOVINGWAITERADDRESS	"X'00000807'"
0	(0)	BITSTRING	0	ISGADMINRSN_BADMOVINGWAITERALET	"X'00000808'"
0	(0)	BITSTRING	0	ISGADMINRSN_BADMOVINGWAITER	"X'00000809'"
0	(0)	BITSTRING	0	ISGADMINRSN_BADBEFOREREQUESTERADDRESS	"X'0000080A'"
0	(0)	BITSTRING	0	ISGADMINRSN_BADBEFOREREQUESTERALET	"X'0000080B'"
0	(0)	BITSTRING	0	ISGADMINRSN_BADBEFOREREQUESTER	"X'0000080C'"
0	(0)	BITSTRING	0	ISGADMINRSN_SAMEREQUESTER	"X'0000080D'"
0	(0)	BITSTRING	0	ISGADMINRSN_INCONSISTENTRESOURCE	"X'0000080E'"
0	(0)	BITSTRING	0	ISGADMINRSN_BADSCOPE	"X'0000080F'"
0	(0)	BITSTRING	0	ISGADMINRSN_BADCONTROL	"X'00000810'"
0	(0)	BITSTRING	0	ISGADMINRSN_CANNOTMOVEOWNER	"X'00000811'"
0	(0)	BITSTRING	0	ISGADMINRSN_ALREADYBEFOREREQUESTER	"X'00000812'"
0	(0)	BITSTRING	0	ISGADMINRSN_CANNOTMOVEBEFOREOWNER	"X'00000813'"
0	(0)	BITSTRING	0	ISGADMINRSN_CANNOTMOVEAFTERSHAREDOWNER	"X'00000814'"
0	(0)	BITSTRING	0	ISGADMINRSN_CANNOTMAKEANOTHEROWNER	"X'00000815'"
0	(0)	BITSTRING	0	ISGADMINRSN_ALREADYLASTREQUESTER	"X'00000816'"
0	(0)	BITSTRING	0	ISGADMINRSN_CANNOTMOVEMASIDUSER	"X'00000817'"
0	(0)	BITSTRING	0	ISGADMINRSN_MASIDCONTROLCONFLICT	"X'00000818'"
		.... 11..		ISGADMINRC_ENVERROR	"X'0000000C'"
0	(0)	BITSTRING	0	ISGADMINRSN_NOTAUTHORIZED	"X'00000C01'"
0	(0)	BITSTRING	0	ISGADMINRSN_FRRHELD	"X'00000C02'"
0	(0)	BITSTRING	0	ISGADMINRSN_LOCKHELD	"X'00000C03'"
0	(0)	BITSTRING	0	ISGADMINRSN_SRBMODE	"X'00000C04'"
0	(0)	BITSTRING	0	ISGADMINRSN_NOTENABLED	"X'00000C05'"
0	(0)	BITSTRING	0	ISGADMINRSN_QUEUEDAMAGE1	"X'00000C06'"
0	(0)	BITSTRING	0	ISGADMINRSN_QUEUEDAMAGE2	"X'00000C07'"
		...1		ISGADMINRC_COMPERROR	"X'00000010'"

ISGYCON mapping

Table 884. Structure (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
Declares for ENQMAXx values in GRSCNFxx, SETGRS, and ISGADMIN: These are smallest possible maximums for authorized and unauthorized requesters, to help prevent the installation from inadvertently causing excessive ABEND538s.						
0	(0)	X'3D090'		0	ENQMAXA_SMALLESTMAXIMUM	"250000"
0	(0)	X'4000'		0	ENQMAXU_SMALLESTMAXIMUM	"16384"

Table 885. Cross Reference for ISGYCON

Name	Offset	Hex Tag
DEQ_KRCRESOURCENOTOWNED	0	8
DEQ_KRCRESOURCEPREVIOUSREQDOESNOTOWN	0	4
DEQ_KRCRESOURCERELEASED	0	0
ENQ_KCHNGRCENVIRONMENTALERROR	0	18
ENQ_KCHNGRCRESOURCECHANGED	0	0
ENQ_KCHNGRCRESOURCENOTCHANGED	0	4
ENQ_KCHNGRCRESOURCENOTOWNED	0	14
ENQ_KCHNGRCRESOURCENOTREQED	0	8
ENQ_KECBRCENVIRONMENTALERROR	0	18
ENQ_KECBRCPREVIOUSREQALREADYOWNS	0	8
ENQ_KECBRCPREVIOUSREQDOESNOTOWN	0	14
ENQ_KECBRCRESOURCEOWNED	0	0
ENQ_KECBRCWAITTOOWNEXCLUSIVE	0	24
ENQ_KECBRCWILLBEPOSTED	0	4
ENQ_KHAVERCCALLERCANNOTUSE	0	28
ENQ_KHAVERCENVIRONMENTALERROR	0	18
ENQ_KHAVERCMATCHINGTASKOWNS	0	20
ENQ_KHAVERCMATCHINGTASKVIOLATION	0	44
ENQ_KHAVERCPREVIOUSREQALREADYOWNS	0	8
ENQ_KHAVERCPREVIOUSREQDOESNOTOWN	0	14
ENQ_KHAVERCRESOURCEOWNED	0	0
ENQ_KTESTRCMATCHINGTASKOWNS	0	20
ENQ_KTESTRCPREVIOUSREQALREADYOWNS	0	8
ENQ_KTESTRCPREVIOUSREQDOESNOTOWN	0	14
ENQ_KTESTRCRESOURCEISAVAILABLE	0	0
ENQ_KTESTRCRESOURCEISNOTAVAILABLE	0	4
ENQ_KUSERCENVIRONMENTALERROR	0	18
ENQ_KUSERCPREVIOUSREQALREADYOWNS	0	8
ENQ_KUSERCPREVIOUSREQDOESNOTOWN	0	14
ENQ_KUSERCRESOURCENOTOWNED	0	4
ENQ_KUSERCRESOURCEOWNED	0	0
ENQMAXA_SMALLESTMAXIMUM	0	3D090
ENQMAXU_SMALLESTMAXIMUM	0	4000
ISGADMINRC_COMPERROR	0	10
ISGADMINRC_ENVERROR	0	C
ISGADMINRC_OK	0	0
ISGADMINRC_PARMERROR	0	8
ISGADMINRC_WARN	0	4

Table 885. Cross Reference for ISGYCON (continued)

Name	Offset	Hex Tag
ISGADMINRSN_ALREADYBEFOREREQUESTER	0	812
ISGADMINRSN_ALREADYLASTREQUESTER	0	816
ISGADMINRSN_BADBEFOREREQUESTER	0	80C
ISGADMINRSN_BADBEFOREREQUESTERADDRESS	0	80A
ISGADMINRSN_BADBEFOREREQUESTERALET	0	80B
ISGADMINRSN_BADCONTROL	0	810
ISGADMINRSN_BADMOVINGWAITER	0	809
ISGADMINRSN_BADMOVINGWAITERADDRESS	0	807
ISGADMINRSN_BADMOVINGWAITERALET	0	808
ISGADMINRSN_BADPLISTADDRESS	0	801
ISGADMINRSN_BADPLISTALET	0	802
ISGADMINRSN_BADPLISTVERSION	0	803
ISGADMINRSN_BADREQUEST	0	805
ISGADMINRSN_BADSCOPE	0	80F
ISGADMINRSN_CANNOTMAKEANOTHEROWNER	0	815
ISGADMINRSN_CANNOTMOVEAFTERSHAREDOWNER	0	814
ISGADMINRSN_CANNOTMOVEBEFOREOWNER	0	813
ISGADMINRSN_CANNOTMOVEASIDUSER	0	817
ISGADMINRSN_CANNOTMOVEOWNER	0	811
ISGADMINRSN_ENQMAXVALUELOW	0	401
ISGADMINRSN_ENQMAXVALUETOLOW	0	806
ISGADMINRSN_FRRHELD	0	C02
ISGADMINRSN_INCONSISTENTRESOURCE	0	80E
ISGADMINRSN_LOCKHELD	0	C03
ISGADMINRSN_MASIDCONTROLCONFLICT	0	818
ISGADMINRSN_NOTAUTHORIZED	0	C01
ISGADMINRSN_NOTENABLED	0	C05
ISGADMINRSN_QUEUEDAMAGE1	0	C06
ISGADMINRSN_QUEUEDAMAGE2	0	C07
ISGADMINRSN_RESERVEDFIELDNOTNULL	0	804
ISGADMINRSN_RESETEENQMAXIGNORED	0	402
ISGADMINRSN_SAMEREQUESTER	0	80D
ISGADMINRSN_SRBMODE	0	C04
ISGENQRC_COMPERROR	0	10
ISGENQRC_ENVERROR	0	C
ISGENQRC_OK	0	0
ISGENQRC_PARMERROR	0	8
ISGENQRC_WARN	0	4
ISGENQRSN_ABENDINEXIT	0	C05
ISGENQRSN_ANSLENTOSMALL	0	80B
ISGENQRSN_BADANSAREAADDRESS	0	809
ISGENQRSN_BADANSAREALET	0	80A
ISGENQRSN_BADCOND	0	811
ISGENQRSN_BADCONTENTIONACT	0	807
ISGENQRSN_BADCONTROL	0	826
ISGENQRSN_BADENQTOKEN	0	815
ISGENQRSN_BADENQTOKENADDRESS	0	813
ISGENQRSN_BADENQTOKENALET	0	814
ISGENQRSN_BADENQTKENTBLADDRESS	0	81A

ISGYCON mapping

Table 885. Cross Reference for ISGYCON (continued)

Name	Offset	Hex Tag
ISGENQRSN_BADENQTOKENTBLALET	0	81B
ISGENQRSN_BADEXITUCB@	0	827
ISGENQRSN_BADNUMRES	0	816
ISGENQRSN_BADOWNINGTTOKEN	0	808
ISGENQRSN_BADPLISTADDRESS	0	801
ISGENQRSN_BADPLISTALET	0	802
ISGENQRSN_BADPLISTVERSION	0	803
ISGENQRSN_BADREQUEST	0	806
ISGENQRSN_BADRESTABLE	0	819
ISGENQRSN_BADRESTABLEADDRESS	0	817
ISGENQRSN_BADRESTABLEALET	0	818
ISGENQRSN_BADRETURNABLEADDRESS	0	81C
ISGENQRSN_BADRETURNABLEALET	0	81D
ISGENQRSN_BADRNAMEADDRESS	0	80C
ISGENQRSN_BADRNAMEALET	0	80D
ISGENQRSN_BADRNAMELEN	0	80E
ISGENQRSN_BADSCOPE	0	80F
ISGENQRSN_BADSYNCHRES	0	812
ISGENQRSN_BADUCB@	0	810
ISGENQRSN_BADUSERDATAADDRESS	0	822
ISGENQRSN_BADUSERDATAALET	0	823
ISGENQRSN_CANNOTOBTAINCOMMONSTORAGE	0	1003
ISGENQRSN_CANNOTOBTAINDSQE	0	1009
ISGENQRSN_CANNOTOBTAINHOMESTORAGE	0	1002
ISGENQRSN_CANNOTOBTAINPRIMARYALET	0	1004
ISGENQRSN_CANNOTOBTAINPRIMARYSTORAGE	0	100B
ISGENQRSN_DEVICENOTALLOCATED	0	824
ISGENQRSN_ECBATLEASTONEREQUESTFAILED	0	40F
ISGENQRSN_ECBWILLBEPOSTED	0	403
ISGENQRSN_EXITDEVICENOTALLOCATED	0	825
ISGENQRSN_FRRHELD	0	C0B
ISGENQRSN_LOCKHELD	0	C0C
ISGENQRSN_MASIDNOTSUPPORTED	0	C11
ISGENQRSN_MASIDTARGET	0	C0F
ISGENQRSN_MUTUALLYEXCLUSIVE	0	805
ISGENQRSN_NONZERORETURNCODES	0	401
ISGENQRSN_NOTAUTHORIZEDFORECB	0	820
ISGENQRSN_NOTAUTHORIZEDFORENQMAX	0	828
ISGENQRSN_NOTAUTHORIZEDFOREXITQNAME	0	81F
ISGENQRSN_NOTAUTHORIZEDFOROWNINGTTOKEN	0	821
ISGENQRSN_NOTAUTHORIZEDFORQNAME	0	81E
ISGENQRSN_NOTENABLED	0	C0E
ISGENQRSN_NOTIMMEDIATELYAVAILABLE	0	404
ISGENQRSN_OTHERSHAREDOWNERS	0	409
ISGENQRSN_REQUESTLIMITEXCEEDED	0	C01
ISGENQRSN_REQUESTNOTPROCESSED	0	402
ISGENQRSN_RESERVECOUNTOVERFLOW	0	1008
ISGENQRSN_RESERVEDFIELDNOTNULL	0	804
ISGENQRSN_RESERVEDONEFAILED	0	100A

Table 885. Cross Reference for ISGYCON (continued)

Name	Offset	Hex Tag
ISGENQRSN_RESERVESTARTFAILED	0	1007
ISGENQRSN_SRBMODE	0	C0D
ISGENQRSN_SYNCHRESFLUSHFAILED	0	1006
ISGENQRSN_TASKDOESNOTOWN	0	40A
ISGENQRSN_TASKENDING	0	C0A
ISGENQRSN_TASKOWNSEXCLUSIVE	0	405
ISGENQRSN_TASKOWNSHARED	0	406
ISGENQRSN_TASKSUSPENDEDFORRESOURCE	0	40B
ISGENQRSN_TASKWAITING	0	407
ISGENQRSN_UNPROTECTEDEXITQNAME	0	40E
ISGENQRSN_UNPROTECTEDQNAME	0	40D
ISGENQRSN_UNSUPPORTEDMODE	0	C10
ISGQUERYRC_COMPERROR	0	10
ISGQUERYRC_ENVERROR	0	C
ISGQUERYRC_OK	0	0
ISGQUERYRC_PARMERROR	0	8
ISGQUERYRC_WARN	0	4
ISGQUERYRSN_ANSLENTOSMALL	0	81A
ISGQUERYRSN_ANSWERAREAFULL	0	405
ISGQUERYRSN_BADANALYZE	0	827
ISGQUERYRSN_BADANSAREAADDRESS	0	80D
ISGQUERYRSN_BADANSAREALET	0	80E
ISGQUERYRSN_BADANSDETAIL	0	820
ISGQUERYRSN_BADASID	0	822
ISGQUERYRSN_BADENQTOKENADDRESS	0	814
ISGQUERYRSN_BADENQTOKENALET	0	815
ISGQUERYRSN_BADGATHERFROM	0	812
ISGQUERYRSN_BADPLISTADDRESS	0	801
ISGQUERYRSN_BADPLISTALET	0	802
ISGQUERYRSN_BADPLISTVERSION	0	803
ISGQUERYRSN_BADQNAMEMATCH	0	816
ISGQUERYRSN_BADREQINFO	0	805
ISGQUERYRSN_BADREQUESTERLIMIT	0	81E
ISGQUERYRSN_BADRESUMETOKENADDRESS	0	810
ISGQUERYRSN_BADRESUMETOKENALET	0	811
ISGQUERYRSN_BADRNAMEADDRESS	0	807
ISGQUERYRSN_BADRNAMEALET	0	808
ISGQUERYRSN_BADRNAMELEN	0	809
ISGQUERYRSN_BADRNAMEMATCH	0	817
ISGQUERYRSN_BADRNL	0	806
ISGQUERYRSN_BADRNLADDRESS	0	80A
ISGQUERYRSN_BADRNLALET	0	80B
ISGQUERYRSN_BADSCANACTION	0	80F
ISGQUERYRSN_BADSCOPE	0	818
ISGQUERYRSN_BADSEARCH	0	813
ISGQUERYRSN_BADSERIALIZEBY	0	819
ISGQUERYRSN_BADUSERDATAADDRESS	0	823
ISGQUERYRSN_BADUSERDATAALET	0	824
ISGQUERYRSN_BADUSERDATALEN	0	825

ISGYCON mapping

Table 885. Cross Reference for ISGYCON (continued)

Name	Offset	Hex Tag
ISGQUERYRSN_BADUSERDATAMATCH	0	826
ISGQUERYRSN_CANNOTOBTAINLOCKS	0	C04
ISGQUERYRSN_COMPLEXMIGRATING	0	C03
ISGQUERYRSN_ENQTOKENNOTVALID	0	81D
ISGQUERYRSN_FRRHELD	0	C09
ISGQUERYRSN_GRSNONE	0	406
ISGQUERYRSN_GRSRNLEXCLUDE	0	403
ISGQUERYRSN_INSUFFICIENTSTORAGE	0	C08
ISGQUERYRSN_LOCKHELD	0	C05
ISGQUERYRSN_MAXCONCURRENTREQUESTS	0	C06
ISGQUERYRSN_MUTUALLYEXCLUSIVE	0	80C
ISGQUERYRSN_NOMATCHINGRESOURCES	0	404
ISGQUERYRSN_NOMATCHINGRNLE	0	401
ISGQUERYRSN_NOPOSSIBLEMATCH	0	81F
ISGQUERYRSN_NOTAUTHOLATCHECA	0	828
ISGQUERYRSN_NOTAUTHTOQSCAN	0	821
ISGQUERYRSN_NOTENABLED	0	C02
ISGQUERYRSN_RESERVEDFIELDNOTNULL	0	804
ISGQUERYRSN_RESUMETOKENNOTVALID	0	81B
ISGQUERYRSN_RESUMETOKENTOOOLD	0	81C
ISGQUERYRSN_RINGRESUMEINSTAR	0	C07
ISGQUERYRSN_RNLCHANGEINPROGRESS	0	402
ISGQUERYRSN_SRBMODE	0	C01
ISGRSNCODEBADFORMATVALUE	0	20
ISGRSNCODEBADFORMATWORD	0	1F
ISGRSNCODEBADPELPREFIX	0	22
ISGRSNCODEBADQNAME	0	6
ISGRSNCODEBADRNAME	0	7
ISGRSNCODEBADTCBSTORAGE	0	D
ISGRSNCODEBADUCBADDRESS	0	9
ISGRSNCODEBADUCBPTR	0	8
ISGRSNCODEBADUSERPEL	0	5
ISGRSNCODECOULDNOTOBTAINCOMMONSTORAGE	0	5
ISGRSNCODECOULDNOTOBTAINGRSALET	0	8
ISGRSNCODECOULDNOTOBTAINHOMESTORAGE	0	4
ISGRSNCODECOULDNOTOBTAINPRIMARYALET	0	6
ISGRSNCODECOULDNOTOBTAINPRIMARYSTORAGE	0	9
ISGRSNCODECOULDNOTQUERYLSE	0	100
ISGRSNCODECOULDNOTSUSPENDFORRNLCHANGE	0	7
ISGRSNCODECOULDNOTUPDATELSE	0	200
ISGRSNCODECSVDYNEXABEND	0	FD
ISGRSNCODEDEQREQSPECIFIEDPELSAVE	0	16
ISGRSNCODEDIRENQANDUCBSPECIFIED	0	1B
ISGRSNCODEDIRENQNOECBANDINVALIDRET	0	1C
ISGRSNCODEDIRENQNOMATCHINGTCB	0	1A
ISGRSNCODEECBREQWITHBADRET	0	1D
ISGRSNCODEECBREQWITHSTEPMUSTCOMPLETE	0	1E
ISGRSNCODEENQREQSPECIFIEDGENERIC	0	19
ISGRSNCODEEXITABEND	0	FE

Table 885. Cross Reference for ISGYCON (continued)

Name	Offset	Hex Tag
ISGRSNCODEGENERALFAILURE	0	0
ISGRSNCODEGENERICREQWITHINVALIDRET	0	18
ISGRSNCODEGLOBALRESOURCECOUNTOVERRUN	0	B
ISGRSNCODEINVALIDFORMATWORD	0	C
ISGRSNCODEINVALIDMASIDRNAMELENGTH	0	10
ISGRSNCODEINVALIDRETSPECIFIED	0	17
ISGRSNCODEINVALIDUCB	0	3
ISGRSNCODEINVALIDUCBBYEXIT	0	4
ISGRSNCODEIOSVDSTFFAILURE	0	1
ISGRSNCODELOCALRESOURCECOUNTOVERRUN	0	A
ISGRSNCODEMASIDREQINVALIDRET	0	11
ISGRSNCODEMASIDREQSPECIFIEDTCBORPELSTPMC	0	F
ISGRSNCODEMASIDREQSUBTASKOFTARGET	0	13
ISGRSNCODEMASIDREQWITHNOTCB	0	12
ISGRSNCODEMASK	0	FFFF
ISGRSNCODENOTATCB	0	E
ISGRSNCODEOEGBREQWITHBADRET	0	1D
ISGRSNCODEOEGBREQWITHSTEPMUSTCOMPLETE	0	1E
ISGRSNCODEPARMLISTALETNOTZERO	0	21
ISGRSNCODEPARMLISTALTEREDWHILEPROCESSING	0	1
ISGRSNCODEREQSETOBSOLETEFLAG	0	14
ISGRSNCODERESERVEDONEFAILURE	0	3
ISGRSNCODERESERVESTARTFAILURE	0	2
ISGRSNCODERNLNOANDUCBSPECIFIED	0	2
ISGRSNCODESMCINXMEM	0	23
ISGRSNCODESRBMODE	0	24
ISGRSNCODETCBSPECIFIEDANDPELSTPMC	0	15
ISGRSNCODEUCBNOTALLOCATED	0	3
ISGRSNCODEUCBNOTALLOCATEDBYEXIT	0	4
ISGRSNCODEUCBOVERFLOW	0	FF
ISGRSNCODEUNAUTHECBREQUEST	0	8
ISGRSNCODEUNAUTHGENERICREQUEST	0	7
ISGRSNCODEUNAUTHMASIDREQ	0	5
ISGRSNCODEUNAUTHNQDQOFAUTHRESOURCE	0	1
ISGRSNCODEUNAUTHNQDQOFAUTHRESOURCEBYEXIT	0	2
ISGRSNCODEUNAUTHREQWITHTCBORPELSTPMC	0	6

ISGYCON mapping

Chapter 240. ISGYDSPX Information

ISGYDSPX Programming Interface Information

ISGYDSPX is a programming interface.

ISGYDSPX Heading Information

Common Name: Display GRS Resource Exit Parameter List
Macro ID: ISGYDSPX
DSECT Name: DSPX
Owning Component: Global Resource Serialization (SCSDS)
Eye-Catcher ID: DSPX
Offset: 0
Length: 4
Storage Attributes: Subpool: 229 in the address space where ISGCDSR runs
Key: 0
Residency: Above 16M line
Size: DSPX -- X'0070' bytes
Created by: ISGCDSR
Pointed to by: R1 points to the DSPX on entry to the exit routine
Serialization: N/A
Function: The DSPX parameter list describes a resource which is going to be reported in a DISPLAY GRS command. An exit routine can add information regarding the meaning of the resource. When setting DspX_ResourceInformation, the exit routine should identify the application/subsystem providing the information by setting the DspX_ResourceIdentifier value.

ISGYDSPX mapping

Table 886. Structure DSPX

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	DSPX	
0	(0)	CHARACTER	4	DSPX_ID	Eyecatcher
4	(4)	BITSTRING	1	DSPX_VERSION	DspX version
5	(5)	CHARACTER	2		Reserved
7	(7)	BITSTRING	1	DSPX_RFLGS(0)	Resource description flags
		1... ..		DSPX_SYS	"X'80'" SCOPE=SYSTEM
		.1.. ..		DSPX_SYSS	"X'40'" SCOPE=SYSTEMS
8	(8)	CHARACTER	8	DSPX_QNAME	Resource QName
16	(10)	SIGNED	2	DSPX_RNAMEL	RName length
18	(12)	CHARACTER	2		Reserved
20	(14)	ADDRESS	4	DSPX_RNAME@	Pointer to RName
24	(18)	CHARACTER	16	DSPX_RESOURCEIDENTIFIER	Identification of application/subsystem setting the resource information
40	(28)	CHARACTER	70	DSPX_RESOURCEINFORMATION	Additional information to describe resource
110	(6E)	CHARACTER	2		Reserved
112	(70)	CHARACTER	1	DSPX_END(0)	

ISGYDSPX mapping

Table 886. Structure DSPX (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
DSPX Constants						
112	(70)	X'E2D7E7'		0	DSPX_KID	"C'DSPX'" Used to identify control block
112	(70)	X'1'		0	DSPX_KVERSION#1	"1" Version constant - HBB7705
112	(70)	X'1'		0	DSPX_KCURRENTVERSION	"1" Current version
112	(70)	X'170'		0	DSPX_KLENGTH	"368" Maximum of length Dsp parameter list
112	(70)	X'70'		0	DSPX_LEN	"*-DSPX"

Table 887. Cross Reference for ISGYDSPX

Name	Offset	Hex	Tag
DSPX	0		
DSPX_END	70		
DSPX_ID	0		
DSPX_KCURRENTVERSION	70		1
DSPX_KID	70	E2D7E7	
DSPX_KLENGTH	70		170
DSPX_KVERSION#1	70		1
DSPX_LEN	70		70
DSPX_QNAME	8		
DSPX_RESOURCEIDENTIFIER	18		
DSPX_RESOURCEINFORMATION	28		
DSPX_RFLGS	7		
DSPX_RNAME@	14		
DSPX_RNAMEL	10		
DSPX_SYS	7		80
DSPX_SYSS	7		40
DSPX_VERSION	4		

Chapter 241. ISGYELF Information

ISGYELF Programming Interface Information

ISGYELF is a programming interface.

ISGYELF Heading Information

Common Name: ENF Listener Filter for ENF 51
 Macro ID: ISGYELF
 DSECT Name: ISGYELF
 Owing Component: Global Resource Serialization (SCSDS)
 Eye-Catcher ID: ISGYELF
 Offset: 0
 Length: 8
 Storage Attributes: Subpool: Determined by ENFREQ ACTION=LISTEN invoker
 or not applicable (copied above the bar)
 Key: Determined by ENFREQ ACTION=LISTEN invoker
 or 0
 Residency: Determined by ENFREQ ACTION=LISTEN invoker
 or above the bar in the GRS GRQA
 Size: LENGTH(ISGYELF)
 ISGYELF -- X'0128' bytes
 Created by: ENFREQ invoker and ISGGELF
 Pointed to by: ENFREQ parameter list
 Serialization: N/A
 Function: Provides additional filtering options for registered
 ENF 51 listeners.

ISGYELF mapping

Table 888. Structure ISGYELF

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ISGYELF	
0	(0)	CHARACTER	16	ISGYELF_HEADER(0)	+00x----- -----
0	(0)	CHARACTER	8	ISGYELF_ID	Control Block ID
8	(8)	SIGNED	4	ISGYELF_LENGTH	Control Block length
12	(C)	BITSTRING	1	ISGYELF_VERSION	Control Block version
13	(D)	CHARACTER	3	ISGYELF_RSVD	Reserved +10x----- -----
16	(10)	SIGNED	4	ISGYELF_REASONCODE	Event 51 specific reason code. This is valid when the ENFREQ return code is 68x.

ISGYELF mapping

Table 888. Structure ISGYELF (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
20	(14)	CHARACTER	8	ISGYELF_OWNINGSYSNAME	Owning system name filter. At least one owner of the resource must be from the specified system. Note that in the case of many shared owners where the ENF 51 signal does not have all requester information, this filter is ignored. Binary zeroes denote that this filter is unused.
28	(1C)	SIGNED	2	ISGYELF_OWNINGASID	Owning asid filter. Only applicable when ISGYELF_OwningSysname is used. See ISGYELF_Owning Sysname for notes on multiple shared owners.
30	(1E)	CHARACTER 1... ..	2	ISGYELF_FLAGS(0) ISGYELF_QNAMEPATTERN	"X'80" Only valid when ISGYELF_QName is non-zero. When On, the Elf51QName filter is a pattern. When Off, the ISGYELF_QName is specific.
		.1.. ..		ISGYELF_RNAMEPATTERN	"X'40" Only valid when ISGYELF_RName is non-zero. When On, the ElfRIRName filter is a pattern. When Off, the ISGYELF_RName is specific. +20x----- -----
32	(20)	CHARACTER	8	ISGYELF_QNAME	Qname filter. See ISGYELF_QNamePattern. Binary zeroes denote that this filter is unused.
40	(28)	CHARACTER	255	ISGYELF_RNAME	Rname filter. See ISGYELF_RNamePattern. Binary zeroes denote that this filter is unused.
295	(127)	BITSTRING	1	ISGYELF_RNAMELEN	Rname length filter. This is not applicable when ISGYELF_Rname is binary zeroes. Otherwise it is required. +128x----- -----
296	(128)	CHARACTER	1	ISGYELF_END(0)	
Constants					
296	(128)	X'E2C7E8'	0	ISGYELF_KID_0T03	"C'ISGY'" This is the first 4-byte segment of an 8-byte constant. Eye-catcher
296	(128)	X'D3C640'	0	ISGYELF_KID_4T07	"C'ELF '" This is the second 4-byte segment of an 8-byte constant. Eye-catcher
296	(128)	X'128'	0	ISGYELF_KLENGTH	"296"
296	(128)	X'1'	0	ISGYELF_KVERSION#1	"1" Version 1 - Initial version
296	(128)	X'1'	0	ISGYELF_KMAXVERSION	"1"
296	(128)	X'6801'	0	ISGYELF_KRSNBADID	"26625" Bad control block Id
296	(128)	X'6802'	0	ISGYELF_KRSNBADLENGTH	"26626" Bad length

Table 888. Structure ISGYELF (continued)

Offset		Offset	Len	Name(Dim)	Description
Dec	Hex	Type			
296	(128)	X'6803'	0	ISGYELF_KRSNBADVERSION	"26627" Bad version
296	(128)	X'6804'	0	ISGYELF_KRSNRESERVEDNONZERO	"26628" One or more reserved fields non-zero
296	(128)	X'6805'	0	ISGYELF_KRSNMISSINGSYSNAME	"26629" Asid specified but sysname is binary zeroes
296	(128)	X'6806'	0	ISGYELF_KRSNMISSINGQNAME	"26630" Qname pattern specified but qname filter is binary zeroes
296	(128)	X'6807'	0	ISGYELF_KRSNMISSINGRNAME	"26631" Rname pattern specified but rname filter is binary zeroes
296	(128)	X'6808'	0	ISGYELF_KRSNMISSINGRNAMELEN	"26632" Rname filter specified but RnameLen is binary zeroes
296	(128)	X'128'	0	ISGYELF_LEN	"*-ISGYELF"

Table 889. Cross Reference for ISGYELF

Name	Offset	Hex Tag
ISGYELF	0	
ISGYELF_END	128	
ISGYELF_FLAGS	1E	
ISGYELF_HEADER	0	
ISGYELF_ID	0	
ISGYELF_KID_0T03	128	E2C7E8
ISGYELF_KID_4T07	128	D3C640
ISGYELF_KLENGTH	128	128
ISGYELF_KMAXVERSION	128	1
ISGYELF_KRSNBADID	128	6801
ISGYELF_KRSNBADLENGTH	128	6802
ISGYELF_KRSNBADVERSION	128	6803
ISGYELF_KRSNMISSINGQNAME	128	6806
ISGYELF_KRSNMISSINGRNAME	128	6807
ISGYELF_KRSNMISSINGRNAMELEN	128	6808
ISGYELF_KRSNMISSINGSYSNAME	128	6805
ISGYELF_KRSNRESERVEDNONZERO	128	6804
ISGYELF_KVERSION#1	128	1
ISGYELF_LEN	128	128
ISGYELF_LENGTH	8	
ISGYELF_OWNINGASID	1C	
ISGYELF_OWNINGSYSNAME	14	
ISGYELF_QNAME	20	
ISGYELF_QNAMEPATTERN	1E	80
ISGYELF_REASONCODE	10	
ISGYELF_RNAME	28	
ISGYELF_RNAMELEN	127	
ISGYELF_RNAMEPATTERN	1E	40
ISGYELF_RSV0D	D	
ISGYELF_VERSION	C	

ISGYELF mapping

Chapter 242. ISGYENQ Information

ISGYENQ Programming Interface Information

ISGYENQ is a programming interface.

ISGYENQ Heading Information

Common Name: ISGENQ table and constant declares
 Macro ID: ISGYENQ
 DSECT Name: ISGYENQRes ISGYENQToken ISGYENQReturn ISGYENQAA
 Owing Component: Global Resource Serialization (SCSDS)
 Eye-Catcher ID: NONE
 Storage Attributes: Subpool: User-supplied
 Key: User-supplied
 Residency: User-supplied
 Size: Variable. Table size per request:
 ISGYENQRES -- X'0020' bytes
 ISGYENQTOKEN -- X'0020' bytes
 ISGYENQRETURN -- X'0008' bytes
 ISGYENQAA -- X'0030' bytes
 Created by: Created by user and passed as parameter on RESTABLE, ENQTOKENTBL, RETURNABLE, and ANSAREA for the ISGENQ macro.
 Pointed to by: RESTABLE_ADDR3164 field in ISGENQ parameter list
 ENQTOKENTBL_ADDR3164 field in ISGENQ parameter list
 RETURNABLE_ADDR3164 field in ISGENQ parameter list
 ANSAREA_ADDR3164 field in ISGENQ parameter list
 Serialization: None required
 Function: ISGYENQRES maps a table that specifies multiple ISGENQ Obtain requests.
 ISGYENQTOKEN maps a table of ENQTokens specified or returned by ISGENQ.
 ISGYENQRETURN maps a table of return and reason codes returned by ISGENQ.
 ISGYENQAA maps the data returned in the answer area by the ISGENQ service when TEST=YES.

ISGYENQ mapping

Table 890. Structure ISGYENQRES

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ISGYENQRES	ResTable
0	(0)	CHARACTER	8	ISGYENQRESQNAME	QName of the resource
8	(8)	ADDRESS	8	ISGYENQRESRNAMEADDR(0)	Addr of the RName
8	(8)	CHARACTER	4		First word of 64-bit field
12	(C)	ADDRESS	4	ISGYENQRESRNAMEADDR31	Value of ISGYENQResTableRNameAddr for AMODE 31 callers
16	(10)	SIGNED	4	ISGYENQRESRNAMEALET	ALET of the RName. Ignored for primary ASC mode callers

ISGYENQ mapping

Table 890. Structure ISGYENQRES (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
20	(14)	ADDRESS	4	ISGYENQRESUCB@	Addr of UCB. Zero for a non-reserve request.
24	(18)	BITSTRING	1	ISGYENQRESNAMELEN	Length of the RName
25	(19)	BITSTRING	1	ISGYENQRESSCOPE	Scope of the resource. Ignored if UCB address is set. One of either ISGYENQ_kSTEP, ISGYENQ_kSYSTEM, or ISGYENQ_kSYSTEMS
26	(1A)	BITSTRING	1	ISGYENQRESCONTROL	Control of request. One of either ISGYENQ_Exclusive or ISGYENQ_Shared.
27	(1B)	BITSTRING 1... ..	1	ISGYENQRESFLAGS1(0) ISGYENQRESRNLQNO	"X'80'" Set for RNL=NO, zero for RNL=YES. RNL=NO is mutually exclusive with non-zero UCB
		.1... ..		ISGYENQRESSYNCHRESYES	"X'40'" Set for SYNCHRES=YES. Mutually exclusive with ISGYENQResSynchResNo. If both ISGYENQResSynchResYes and ISGYENQResSynchResNo are zero, then SYNCHRES=SYSTEM.
		..1.		ISGYENQRESSYNCHRESNO	"X'20'" Set for SYNCHRES=NO. Mutually exclusive with ISGYENQResSynchResYes.
28	(1C)	CHARACTER	4		Reserved
28	(1C)	X'20'	0	ISGYENQRES_LEN	"*-ISGYENQRES"

Table 891. Structure ISGYENQTOKEN

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ISGYENQTOKEN	ENQToken
0	(0)	CHARACTER	32	ISGYENQTOKENENTRY	ENQToken of request
0	(0)	X'20'	0	ISGYENQTOKEN_LEN	"*-ISGYENQTOKEN"

Table 892. Structure ISGYENQRETURN

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ISGYENQRETURN	Return
0	(0)	SIGNED	4	ISGYENQRETURNRC	Return code of request
4	(4)	SIGNED	4	ISGYENQRETURNRSN	Reason code of request
4	(4)	X'8'	0	ISGYENQRETURN_LEN	"*-ISGYENQRETURN"

Table 893. Structure ISGYENQAA

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ISGYENQAA	AnswerArea
0	(0)	CHARACTER	4	ISGYENQAA_ID	NQAA eyecatcher
4	(4)	SIGNED	2	ISGYENQAVERSION	ISGYENQAA version
6	(6)	BITSTRING 1... ..	1	ISGYENQAFLAGS1(0) ISGYENQAANQXIT	"X'80'" The request was changed by an ISGNQXIT exit.

Table 893. Structure ISGYENQAA (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
		.1..	....		ISGYENQAABATCH	"X'40'" The request was changed by a batch exit.
		..1.	....		ISGYENQAASIRNL	"X'20'" The request scope was promoted by the system inclusion list
		...1	....		ISGYENQAASERNL	"X'10'" The request scope was demoted by the systems exclusion list
		1...		ISGYENQAARCRNL	"X'08'" The request was converted to only a global ENQ by the reserve conversion list
	1..		ISGYENQAABYPASSRNL	"X'04'" RNL checking was bypassed by an exit
	1.		ISGYENQAABRSVCONV	"X'02'" The request was converted to only a global ENQ by the batch exit
	1		ISGYENQAAALTSEREXTENDED	"X'01'" The request would have been managed at the global level by an alternate serialization product
7		(7)	BITSTRING	1	ISGYENQAAFINALSCOPE	Resulting scope after RNL and dynamic exit processing. One of either ISGENQ_STEP, ISGENQ_SYSTEM, or ISGENQ_SYSTEMS from ISGYCON.
8		(8)	ADDRESS	8	ISGYENQAANEXT(0)	Addr of next AnswerArea block or zero if last AA record
8		(8)	CHARACTER	4		First word of 64-bit field
12		(C)	ADDRESS	4	ISGYENQAANEXT31	Value of ISGYENQAANext for AMODE 31 callers
16		(10)	ADDRESS	8	ISGYENQAARNAMEADDR(0)	Addr of final RName
16		(10)	CHARACTER	4		First word of 64-bit field
20		(14)	ADDRESS	4	ISGYENQAARNAMEADDR31	Value of ISGYENQAARNameAddr for AMODE 31 callers
24		(18)	CHARACTER	8	ISGYENQAAFINALQNAME	qname after dynamic exit processing
32		(20)	SIGNED	4	ISGYENQAAFINALRNAMELEN	Length of RName after dynamic exit processing
36		(24)	ADDRESS	4	ISGYENQAAFINALUCB@	UCB@ after dynamic exit processing. Note that if ISGYENQAARCRNL or ISGYENQAABRSvConv is set the device was not reserved
40		(28)	CHARACTER	8		Reserved
40		(28)	X'30'	0	ISGYENQAA_LEN	"*-ISGYENQAA"

Table 894. Cross Reference for ISGYENQ

Name	Offset	Hex	Tag
ISGYENQAA	0		
ISGYENQAA_ID	0		
ISGYENQAA_LEN	28		30
ISGYENQAAALTSEREXTENDED	6		1
ISGYENQAABATCH	6		40

ISGYENQ mapping

Table 894. Cross Reference for ISGYENQ (continued)

Name	Offset	Hex Tag
ISGYENQAABRSVCONV	6	2
ISGYENQAABYPASSRNL	6	4
ISGYENQAAFINALQNAME	18	
ISGYENQAAFINALRNAMELEN	20	
ISGYENQAAFINALSCOPE	7	
ISGYENQAAFINALUCB@	24	
ISGYENQAFLAGS1	6	
ISGYENQAANEXT	8	
ISGYENQAANEXT31	C	
ISGYENQAANQXIT	6	80
ISGYENQAARCRNL	6	8
ISGYENQAARNAMEADDR	10	
ISGYENQAARNAMEADDR31	14	
ISGYENQAASERNL	6	10
ISGYENQAASIRNL	6	20
ISGYENQAAVERSION	4	
ISGYENQRES	0	
ISGYENQRES_LEN	1C	20
ISGYENQRESCONTROL	1A	
ISGYENQRESFLAGS1	1B	
ISGYENQRESQNAME	0	
ISGYENQRESRNAMEADDR	8	
ISGYENQRESRNAMEADDR31	C	
ISGYENQRESRNAMEALET	10	
ISGYENQRESRNAMELEN	18	
ISGYENQRESRNLEQNO	1B	80
ISGYENQRESSCOPE	19	
ISGYENQRESSYNCHRESNO	1B	20
ISGYENQRESSYNCHRESYES	1B	40
ISGYENQRESUCB@	14	
ISGYENQRETURN	0	
ISGYENQRETURN_LEN	4	8
ISGYENQRETURNRC	0	
ISGYENQRETURNRSN	4	
ISGYENQTOKEN	0	
ISGYENQTOKEN_LEN	0	20
ISGYENQTOKENENTRY	0	

Chapter 243. ISGYNQBP Information

ISGYNQBP Programming Interface Information

ISGYNQBP is a programming interface.

ISGYNQBP Heading Information

Common Name: GRS ISGNQXITBatch and ISGNQXITBatchCnd Exit Parameter List
Macro ID: ISGYNQBP
DSECT Name: NQBP
Owning Component: Global Resource Serialization (SCSDS)
Eye-Catcher ID: NQBP
Offset: 0
Length: 4
Storage Attributes: Subpool: 229 or 215
Key: 0
Residency: Above the 16M line
Size: LENGTH(NQBP)
NQBP -- X'0060' bytes
NQBPRSC_ENTRY -- X'0078' bytes
Created by: ISGGNX
Pointed to by: R1 points to the NQBP on entry to the exit routine
Serialization: N/A

ISGYNQBP Heading Information

Function: The Batched ENQ/DEQ Parameter list is passed to the ISGNQXITBATCH and ISGNQXITBATCHCND installation exits. These exits have the ability to interrogate and alter ENQ, RESERVE, DEQ or ISGENQ requests.

The parameter list consists of a header (Nqbp) and a queue of resources/entries. Each resource is mapped by NqbpRsc_Entry. The resources are queued via NqbpRsc_NextNqbpRsc. A zero value indicates the end of the queue. The number of resources is also indicated via Nqbp_#Resources.

These exits can only make the following changes to a request:

- 1.Reject the request, requesting GRS to ABEND. See Nqbp_RF1_SetABEND below for more information.
- 2.Reject the request, requesting GRS to set a return code and for ISGENQ a reason code. See Nqbp_RF1_SetRscRequest, NqbpRsc_RF1_SetReturnCode and NqbpRsc_RF1_SetReasonCode below for more information.
- 3.Convert a Reserve from a hardware Reserve to a global ENQ. See Nqbp_RF1_SetRscRequest and NqbpRsc_RF1_ConvertReserve below for more information.

Any other desired changes must be made through the ISGNQXIT or ISGNQXITFast exits.

Generic DEQ needs special consideration. A generic DEQ is denoted by a zero RNAME length (NqbpRsc_RNameLen =0). It DEQs all resources held by the requester for the given QNAME across all Scopes and RNAMEs. As the scope is irrelevant and not used, all scope fields presented to the exit must be ignored (however, the current scope will be set to SYSTEMS).

The exits are called after each of the individual resources have been processed by ISGNQXIT/ISGNQXITFAST exits and GRS RNLs. The RNLs are always processed with any alterations made by the ISGNQXIT/ISGNQXITFAST exits. A history of the changes made by the exits and RNLs is provided via the following fields:

Scope alteration history:

- 1.NqbpRsc_OriginalScope - The scope specified on the ENQ, DEQ, ISGENQ, or RESERVE.
- 2.NqbpRsc_NqxitScope - The scope after any ISGNQXIT/FAST exit alterations.
- 3.NqbpRsc_Scope - The scope after any RNL alterations.

Regardless of all other indicators, this is the final scope that will be used.

RNL processing history:

- NqbpRsc_SF1_Rn1EqNo - RNLs were not processed
- NqbpRsc_SF2_Included - A SYSTEM scope was promoted to SYSTEMS
- NqbpRsc_SF2_Excluded - A SYSTEMS scope was excluded to SYSTEM

This and NqbpRsc_SF2_Included can be on as it may have been promoted generically and then more specifically demoted.

- NqbpRsc_SF2_Converted - A RESERVE obtain/release was converted from a RESERVE-ENQ/DEQ to

a ENQ/DEQ only.

For all ENQ requests that specify a RET value or an ECB value the ISGNQXITBATCH exit routines can set a non-zero return code, overriding ENQ/RESERVE functionality. To set a return code, the exit routine sets:

Nqbp_RF1_SetRscRequest in the NQBP

NqbpRsc_RF1_SetReturnCode in the appropriate NqbpRsc entry

NqbpRsc_CP_ReturnCode to a non-zero value

If you would like GRS to represent a request set '0' (or do not set anything in the return code field, it will default to 0)

for the request. GRS will set the appropriate return code.

When one of the following return codes is set by the batch exit,

GRS will bypass processing of the resource and pass the return

code back to the caller. The request will not be represented by

GRS.

A batch exit routine is allowed to set the following return codes:

ENQ/RESERVE:

RET=TEST RC=4,8,14,20

RET=USE RC=4,8,14,18

RET=CHNG RC=4,8,14

RET=HAVE RC=8,14,18,28,44

RET=ECB RC=8,14,18,28,44

DEQ:

RET=HAVE RC=4,8

ISGENQ:

RC=4 RSN=0402,0404,0405,0406,0407,0409,040A,040B

RC=8 RSN=0815

RC=C RSN=0C05

RC=10 RSN=FFyy where yy are diagnostic bits set by the exit

ENQ/DEQ/RESERVE and ISGENQ return codes are documented in the

MVS: Authorized Assembler Reference books.

For all requests the ISGNQXITBATCH exit routine can set a one-byte

ABEND code and half-word reason code for the request. The one

byte ABEND code is used to generate the ABEND code. For example,

if the exit routine sets the ABEND code to 5 for an ENQ request,

a '538'x ABEND will be generated by ENQ processing.

To set an ABEND code, the exit routine sets:

Nqbp_RF1_SetABEND in the NQBP

Nqbp_CP_ABENDCode to a non-zero value

Nqbp_CP_ABENDReason to a non-zero value (optional)

ENQ/DEQ/RESERVE ABEND codes are documented in the MVS: System

Codes book.

Most of the exits that are driven for a request are provided a

unique "request token" which allows the exits to correlate any

required user information between exit callers. For example, the

Nqbp_RD_RequestToken will be the same as the Nqxp_RequestToken if

both the ISGNQXITBatchCnd and ISGNQXITFAST exits are driven for

the same request.

ISGYNQBP mapping

Table 895. Structure NQBP

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NQBP	
0	(0)	CHARACTER	4	NQBP_ID	Eyecatcher
4	(4)	BITSTRING	1	NQBP_VERSION	Version. See version constants below e.g. Nqbp_kVersion#1

ISGYNQBP mapping

Table 895. Structure NQBP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
5	(5)	CHARACTER	3		Reserved
8	(8)	ADDRESS	4	NQBP_WORKAREA@	Pointer to a 4K work area, usable by exit routines
12	(C)	CHARACTER	56	NQBP_REQUESTDATA	ENQ/DEQ request state information, these values cannot be changed
12	(C)	CHARACTER	16	NQBP_RD_REQUESTTOKEN	Unique token identifying the GRS exit call processing for the request. If needed, all exits driven for this request can use this token to identify the same request. See the prologue for more information.
28	(1C)	ADDRESS	4	NQBP_RD_ASCB@	Pointer to requester's ASCB
32	(20)	ADDRESS	4	NQBP_RD_TCB@	Pointer to requester's TCB or directed TCB if TCB= was specified
36	(24)	SIGNED	2	NQBP_RD_MASID	Request MASID value
38	(26)	CHARACTER	2		Reserved
40	(28)	ADDRESS	4	NQBP_RD_MTCB	Request MTCB value
44	(2C)	CHARACTER	8	NQBP_RD_JOBNAME	Requester's Jobname
52	(34)	CHARACTER	8	NQBP_RD_SYSNAME	Requester's Sysname
60	(3C)	ADDRESS	4	NQBP_RD_NSI@	Requester's next sequential instruction address, when ENQ/DEQ ends, this is address of the next instruction in the calling program that will be executed

Bit definitions:

	1... ..			NQBP_RD_AMODE31	"X'80'" When set, ENQ caller is AMODE 31
64	(40)	ADDRESS	4	NQBP_RD_ECB@	Pointer to original request ECB (set when ECB= specified on the request)
68	(44)	CHARACTER	4	NQBP_STATEFLAGS	ENQ/DEQ request state flags, these values cannot be changed
68	(44)	BITSTRING	1	NQBP_STATEFLAGS1	First byte of state flags

Bit definitions:

	1... ..			NQBP_SF1_ENQ	"X'80'" When 1, request is ENQ/RESERVE, when 0, request is DEQ. If Nqbp_SF1_ISGENQ is set then when 1, ISGENQ REQUEST=OBTAIN or CHANGE, when 0, REQUEST=RELEASE. See Nqbp_SF2_Change to distinguish between ISGENQ REQUEST=OBTAIN and REQUEST=CHANGE.
	.1..			NQBP_SF1_AUTHORIZED	"X'40'" Caller is authorized
	..1.			NQBP_SF1_MATCHTASK	"X'20'" When 1, request specified MASID/MTCB
	...1			NQBP_SF1_SMCORRM	"X'10'"
	...1			NQBP_SF1_STEPMUSTCOMPLETE	"X'10'" When 1, ENQ request specified SMC=YES

Table 895. Structure NQBP (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
		...1	....		NQBP_SF1_RESETMUSTCOMPLETE	"X'10'" When 1, DEQ request specified RMC=YES
		....	1...		NQBP_SF1_LINKAGE	"X'08'" When 1, request is PC entered when 0, request is SVC entered. As ISGENQ requests are all PC entered, this bit will be 1 for all ISGENQ requests.
		....	..1.		NQBP_SF1_ISGENQ	"X'02'" When 1, request is via ISGENQ service
		....	...1		NQBP_SF1_ISGENQCONDYES	"X'01'" When 1, request is a conditional ISGENQ request (ISGENQ COND=YES)
69	(45)	BITSTRING		1	NQBP_STATEFLAGS2	State flags byte two
Bit definitions:						
		..1.	....		NQBP_SF2_CHANGE	"X'20'" When 1, request is a change (i.e. ENQ RET=CHNG or ISGENQ REQUEST=CHANGE).
		...1	....		NQBP_SF2_TEST_YES	"X'10'" When 1, ISGENQ with TEST=YES. When 0, Not ISGENQ with TEST=YES (i.e. TEST=NO if Nqbp_SF1_ISGENQ is set).
		....	1...		NQBP_SF2_CONTENTIONACT_FAIL	"X'08'" When 1, ISGENQ with CONTENTIONACT=FAIL. When 0, not CONTENTIONACT=FAIL (i.e. CONTENTIONACT=WAIT if Nqbp_SF1_ISGENQ is set and Nqbp_SF2_TEST_YES is off).
		....	..1.		NQBP_SF2_ECB	"X'04'" When 1, ECB keyword specified (i.e. ISGENQ WAITTYPE=ECB or or ENQ with ECB). When 0, No ECB specified (i.e. WAITTYPE=SUSPEND if Nqbp_SF1_ISGENQ is set and Nqbp_SF2_TEST_YES and Nqbp_SF2_CONTENTIONACT_FAIL are off).
		....	..1.		NQBP_SF2_CHANGETOSHARED	"X'02'" When 1, ISGENQ REQUEST=CHANGE specified CONTROL=SHARED. If the request is successful, the requester will be converted from an exclusive owner to a shared owner. Only valid when Nqbp_SF2_Change is 1
70	(46)	CHARACTER		2		Reserved
72	(48)	CHARACTER		4	NQBP_REQUESTFLAGS	Request flags
72	(48)	BITSTRING		1	NQBP_REQUESTFLAGS1	First byte of flags
Bit definitions:						
		1...	....		NQBP_RF1_SETRSCREQUEST	"X'80'" When 1, indicates that a request was made in one or more NqbpRsc entries

ISGYNQBP mapping

Table 895. Structure NQBP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.1..		NQBP_RF1_SETABEND	"X'40'" When 1, indicates that an ABEND is requested from mainline processing
73	(49)	CHARACTER	3		Reserved
76	(4C)	SIGNED	4	NQBP_#RESOURCES	Number of resources in the request
80	(50)	ADDRESS	4	NQBP_FIRSTNQBP@	Pointer to first NqbpRsc entry (NqbpRsc_Entry)
84	(54)	CHARACTER	4	NQBP_CURRENTPARAMETERS	Parameters as changed by exit routines
84	(54)	BITSTRING	1	NQBP_CP_ABENDCODE	First digit of of the ABEND code (eg. x30 for DEQ and x38 for ENQ)
85	(55)	CHARACTER	1		Reserved
86	(56)	SIGNED	2	NQBP_CP_ABENDREASON	ABEND Reason Code
88	(58)	CHARACTER	8		Reserved
96	(60)	CHARACTER	1	NQBP_END(0)	
96	(60)	X'60'	0	NQBP_LEN	"*-NQBP"

Table 896. Structure NQBPRSC_ENTRY

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NQBPRSC_ENTRY	
0	(0)	ADDRESS	4	NQBPRSC_NEXTNQBP@	Pointer to next NqbpRsc entry, 0 indicates end of list
4	(4)	CHARACTER	8	NQBPRSC_TOKEN	For control program use only - defines which entry in the request corresponds to this NqbpRsc_Entry
12	(C)	CHARACTER	8	NQBPRSC_QNAME	Request QName
20	(14)	ADDRESS	4	NQBPRSC_RNAME@	Pointer to NQBP RNAME
24	(18)	BITSTRING	1	NQBPRSC_SCOPE	Final Scope after all possible alterations. See Nqbp_kScope for possible values and the prologue on how the scope can change. Only valid for non generic DEQ requests (i.e. NqbpRsc_RNameLen≠0).
25	(19)	BITSTRING	1	NQBPRSC_RET	Request RET value, see Nqbp_kRET values Note that this field will be the same for every NqbpRsc entry in the list.

Bit definitions:

		.... .1..		NQBPRSC_RET1	"X'04'" Maps to PELRET1
		.... ..1.		NQBPRSC_RET2	"X'02'" Maps to PELRET2
		.... ...1		NQBPRSC_RET3	"X'01'" Maps to PELRET3
26	(1A)	BITSTRING	1	NQBPRSC_RNAMELEN	Length of the RName. When 0, request is a generic DEQ

Table 896. Structure NQBPRSC_ENTRY (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
27	(1B)	BITSTRING	1	NQBPRSC_ORIGINALSCOPE	Original scope specified on the GRS API. See the prologue for information on which scopes are presented. See Nqbp_kScope for possible values. Only valid for non generic DEQ requests (NqbpRsc_RNameLen≠0).
28	(1C)	CHARACTER	4	NQBPRSC_STATEFLAGS	Resource state flags
28	(1C)	BITSTRING	1	NQBPRSC_STATEFLAGS1	First byte of resource state flags
Bit definitions:					
		1... ..		NQBPRSC_SF1_SHARE	"X'80'" For ENQ/RESERVE requests, when 1 request is for shared access, when 0, request is for exclusive access
		.1.. ..		NQBPRSC_SF1_RNLQNO	"X'40'" RNL=NO was specified on the GRS API (the request).
29	(1D)	BITSTRING	1	NQBPRSC_STATEFLAGS2	Second byte of resource flags
Bit definitions:					
		1... ..		NQBPRSC_SF2_INCLUDED	"X'80'" RNL history indicator: The Resource was promoted to SYSTEMS scope. It may have also been demoted back to SYSTEM level. See NqbpRsc_Scope for the final scope.
		.1.. ..		NQBPRSC_SF2_CONVERTED	"X'40'" RNL history indicator: The Resource was converted from a RESERVE to SYSTEMS ENQ only. Note that NqbpRsc_Ucb@ will still be set.
		..1.		NQBPRSC_SF2_EXCLUDED	"X'20'" RNL history indicator: The Resource was demoted to SYSTEM scope. Note that the NqbpRsc_Scope is the final scope.
		...1		NQBPRSC_SF2_GLOBAL	"X'10'" Resource request will be processed globally by GRS. Note NqbpRsc_SF2_Global will always be off in GRS=NONE mode even though NqbpRsc_Scope may be SYSTEMS.
30	(1E)	CHARACTER	2		
32	(20)	ADDRESS	4	NQBPRSC_UCB@	Request UCB address after ISGNQXIT/FAST and RNL processing. Only valid when Nqbp_SF1_ENQ is set. Note that the actual device RESERVE will not be issued when NqbpRsc_SF2_Converted or NqbpRsc_RF1_ConvertReserve is set.
36	(24)	CHARACTER	4	NQBPRSC_REQUESTFLAGS	
36	(24)	BITSTRING	1	NQBPRSC_REQUESTFLAGS1	

ISGYNQBP mapping

Table 896. Structure NQBPRSC_ENTRY (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
<p>For conditional (RET=CHNG, RET=USE) or test (RET=TEST) requests exit routines can override ENQ/DEQ functionality and substitute a return code (other than zero) to be returned to the caller. If the return code is set, ENQ/DEQ processing will NOT occur for the resource. This override is ignored for all other types of requests.</p> <p>Bit definitions:</p>					
	1...	....		NQBPRSC_RF1_SETRETURNCODE	"X'80'" When 1, request that the return code be set for this conditional/test request
<p>For a RESERVE request, exit routines can specify that the RESERVE be converted to an ENQ.</p>					
	.1..	....		NQBPRSC_RF1_CONVERTRESERVE	"X'40'" When 1, request that this RESERVE be converted to a ENQ only (no device reserve)
<p>For ISGENQ conditional (RET=CHNG, RET=USE) or test (RET=TEST) requests exit routines can override ENQ/DEQ functionality and substitute a reason code (other than zero) to be returned to the caller. This reason code must accompany a NON zero return code. This override is ignored for all other types of requests.</p>					
	..1.	....		NQBPRSC_RF1_SETREASONCODE	"X'20'" When 1, request that the reason code be set for this conditional/test request. Only processed when version is Nqbp_kVersion#2 or greater.
37	(25)	BITSTRING	1		Reserved
38	(26)	CHARACTER	2		Reserved
40	(28)	CHARACTER	4	NQBPRSC_CURRENTPARAMETERS	Parameters as changed by exit routines
40	(28)	BITSTRING	1	NQBPRSC_CP_RETURNCODE	Current value of return code to be passed to the requester
41	(29)	CHARACTER	3		Reserved
44	(2C)	SIGNED	4	NQBPRSC_CP_REASONCODE	Reason code set by exit Only processed when version is Nqbp_kVersion#2
44	(2C)	SIGNED	2		We ignore this since we append the exit id
46	(2E)	SIGNED	2	NQBPRSC_CP_LORSNCODE	
48	(30)	BITSTRING	1	NQBPRSC_NQXITSCOPE	Scope value after ISGNQXITFAST and ISGNQXIT processing. See Nqbp_kScope for possible values and the prologue for information on which scopes are presented. Only provided in version Nqbp_kVersion#3 and up. A comparison with NqbpRsc_OriginalScope determines if the exit changed the scope. Only valid for non generic DEQ requests (NqbpRsc_RNameLen≠0).
49	(31)	CHARACTER	7		Unused
56	(38)	CHARACTER	64		Reserved (see ISGYNQBP)
120	(78)	CHARACTER	1	NQBPRSC_END(0)	

Table 896. Structure NQBPRSC_ENTRY (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
NQBP Constants						
120	(78)	X'D8C2D7'		0	NQBP_KID	"C'NQBP'" Used to identify control block
120	(78)	X'1'		0	NQBP_KVERSION#1	"1" Version constant -HBB7705
120	(78)	X'2'		0	NQBP_KVERSION#2	"2" Version constant -HBB7709
120	(78)	X'3'		0	NQBP_KVERSION#3	"3" Version constant -HBB7740
120	(78)	X'4'		0	NQBP_KVERSION#4	"4" Version constant -HBB7750
120	(78)	X'4'		0	NQBP_KCURRENTVERSION	"4" Current version
120	(78)	X'1'		0	NQBP_KBATCHEXIT	"1" Parameter list is being passed to the batch exit
120	(78)	X'2'		0	NQBP_KQUEUEDEXIT	"2" Parameter list is being passed to the queued exit
120	(78)	X'0'		0	NQBP_KSCOPESTEP	"0" Scope=Step
120	(78)	X'1'		0	NQBP_KSCOPESYSTEM	"1" Scope=System
120	(78)	X'2'		0	NQBP_KSCOPESYSTEMS	"2" Scope=Systems
120	(78)	X'2'		0	NQBP_KSCOPESYSPLEX	"2" Scope=Sysplex
120	(78)	X'0'		0	NQBP_KRETNONE	"0" Ret=None
120	(78)	X'1'		0	NQBP_KRETHAVE	"1" Ret=Have
120	(78)	X'2'		0	NQBP_KRETCNG	"2" Ret=Chng
120	(78)	X'3'		0	NQBP_KRETUSE	"3" Ret=Use
120	(78)	X'4'		0	NQBP_KRETECB	"4" An ECB is specified for this ENQ request, via either the ECB= parameter on ENQ or the WAITTYPE=ECB parameter on ISGENQ REQUEST=OBTAIN
120	(78)	X'7'		0	NQBP_KRETTEST	"7" Ret=Test
120	(78)	X'60'		0	NQBP_KLENGTH	"96" Maximum length of Nqbp
120	(78)	X'E5'		0	NQBP_KSUBPOOL	"229" Subpool 229
120	(78)	X'78'		0	NQBPRSC_ENTRY_LEN	"*-NQBPRSC_ENTRY"

Table 897. Cross Reference for ISGYNQBP

Name	Offset	Hex Tag
NQBP	0	
NQBP_#RESOURCES	4C	
NQBP_CP_ABENDCODE	54	
NQBP_CP_ABENDREASON	56	
NQBP_CURRENTPARAMETERS	54	
NQBP_END	60	
NQBP_FIRSTNQBPRSC@	50	
NQBP_ID	0	
NQBP_KBATCHEXIT	78	1
NQBP_KCURRENTVERSION	78	4
NQBP_KID	78	D8C2D7
NQBP_KLENGTH	78	60
NQBP_KQUEUEDEXIT	78	2
NQBP_KRETCNG	78	2
NQBP_KRETECB	78	4
NQBP_KRETHAVE	78	1
NQBP_KRETNONE	78	0

ISGYNQBP mapping

Table 897. Cross Reference for ISGYNQBP (continued)

Name	Offset	Hex Tag
NQBP_KRETTEST	78	7
NQBP_KRETUSE	78	3
NQBP_KSCOPESTEP	78	0
NQBP_KSCOPESTEP	78	2
NQBP_KSCOPESTEP	78	1
NQBP_KSCOPESTEP	78	2
NQBP_KSUBPOOL	78	E5
NQBP_KVERSION#1	78	1
NQBP_KVERSION#2	78	2
NQBP_KVERSION#3	78	3
NQBP_KVERSION#4	78	4
NQBP_LEN	60	60
NQBP_RD_AMODE31	3C	80
NQBP_RD_ASCB@	1C	
NQBP_RD_ECB@	40	
NQBP_RD_JOBNAME	2C	
NQBP_RD_MASID	24	
NQBP_RD_MTCB	28	
NQBP_RD_NSI@	3C	
NQBP_RD_REQUESTTOKEN	C	
NQBP_RD_SYSNAME	34	
NQBP_RD_TCB@	20	
NQBP_REQUESTDATA	C	
NQBP_REQUESTFLAGS	48	
NQBP_REQUESTFLAGS1	48	
NQBP_RF1_SETABEND	48	40
NQBP_RF1_SETRSCREQUEST	48	80
NQBP_SF1_AUTHORIZED	44	40
NQBP_SF1_ENQ	44	80
NQBP_SF1_ISGENQ	44	2
NQBP_SF1_ISGENQCONDYES	44	1
NQBP_SF1_LINKAGE	44	8
NQBP_SF1_MATCHTASK	44	20
NQBP_SF1_RESETMUSTCOMPLETE	44	10
NQBP_SF1_SMCORRMC	44	10
NQBP_SF1_STEPMUSTCOMPLETE	44	10
NQBP_SF2_CHANGE	45	20
NQBP_SF2_CHANGETOSHARED	45	2
NQBP_SF2_CONTENTIONACT_FAIL	45	8
NQBP_SF2_ECB	45	4
NQBP_SF2_TEST_YES	45	10
NQBP_STATEFLAGS	44	
NQBP_STATEFLAGS1	44	
NQBP_STATEFLAGS2	45	
NQBP_VERSION	4	
NQBP_WORKAREA@	8	
NQBPRSC_CP_LORSNCODE	2E	
NQBPRSC_CP_REASONCODE	2C	
NQBPRSC_CP_RETURNCODE	28	

Table 897. Cross Reference for ISGYNQBP (continued)

Name	Offset	Hex Tag
NQBPRSC_CURRENTPARAMETERS	28	
NQBPRSC_END	78	
NQBPRSC_ENTRY	0	
NQBPRSC_ENTRY_LEN	78	78
NQBPRSC_NEXTNQBPRSC@	0	
NQBPRSC_NQXITSCOPE	30	
NQBPRSC_ORIGINALSCOPE	1B	
NQBPRSC_QNAME	C	
NQBPRSC_REQUESTFLAGS	24	
NQBPRSC_REQUESTFLAGS1	24	
NQBPRSC_RET	19	
NQBPRSC_RET1	19	4
NQBPRSC_RET2	19	2
NQBPRSC_RET3	19	1
NQBPRSC_RF1_CONVERTRESERVE	24	40
NQBPRSC_RF1_SETREASONCODE	24	20
NQBPRSC_RF1_SETRETURNCODE	24	80
NQBPRSC_RNAME@	14	
NQBPRSC_RNAMELEN	1A	
NQBPRSC_SCOPE	18	
NQBPRSC_SF1_RNLEQNO	1C	40
NQBPRSC_SF1_SHARE	1C	80
NQBPRSC_SF2_CONVERTED	1D	40
NQBPRSC_SF2_EXCLUDED	1D	20
NQBPRSC_SF2_GLOBAL	1D	10
NQBPRSC_SF2_INCLUDED	1D	80
NQBPRSC_STATEFLAGS	1C	
NQBPRSC_STATEFLAGS1	1C	
NQBPRSC_STATEFLAGS2	1D	
NQBPRSC_TOKEN	4	
NQBPRSC_UCB@	20	

ISGYNQBP mapping

Chapter 244. ISGYNQPB Information

ISGYNQPB Programming Interface Information

ISGYNQPB is a programming interface.

ISGYNQPB Heading Information

Common Name:	Pre-Batch ENQ Exit Parameter List
Macro ID:	ISGYNQPB
DSECT Name:	NQPB
Owning Component:	Global Resource Serialization (SCSDS)
Eye-Catcher ID:	NQPB
	Offset: 0
	Length: 4
Storage Attributes:	Subpool: 215
	Key: 0
	Residency: Above the 16M line
Size:	LENGTH(NQPB)
	NQPB -- X'0060' bytes
	NQPB_RSC_ENTRY -- X'0030' bytes
Created by:	ISGGNX
Pointed to by:	R1 points to the NQPB on entry to the exit routine
Serialization:	N/A

ISGYNQPB Heading Information

Function: The Pre-Batched ENQ/DEQ Parameter list is passed to an installation provided exit (installed at the ISGNQXITPREBATCH exit point) to determine if the request should be presented to the ISGNQXITBATCHCND, ISGNQXITQUEUED1, or ISGNQXITQUEUED2 exits. If an exit routine for any resource in a list request indicates that an exit be called, the entire resource list will be presented to that exit.

Note: If there are no ISGNQXITPREBATCH exit routines, the ISGNQXITBATCHCND exit will never be invoked. The ISGNQXITQUEUED1 and ISGNQXITQUEUED2 exits are called only if either of the batch exits (ISGNQXITBATCH and ISGNQXITBATCHCND) are called. If the request is to be globally managed by an alternate serialization product, then NQPB_ER_AltSerExtended should be set. This indication will be returned on an ISGQUERY request, or by an ISGENQ TEST=YES request.

The data presented in this parameter list are read only. Changes to an ENQ/DEQ/RESERVE request can only be made through the ISGNQXIT exit point. Altering the data in the parameter list can result in severe consequences, including ABENDs, data integrity errors, and/or system wait states.

The exits are called after each of the individual resources have been processed by ISGNQXIT/ISGNQXITFAST exits and GRS RNLs. The RNLs are always processed with any alterations made by the ISGNQXIT/ISGNQXITFAST exits. A history of the changes made by the exits and RNLs is provided via the following fields:

Scope alteration history:

- 1.Nqpb_RD_OriginalScope - The scope specified on the ENQ, DEQ, ISGENQ, or RESERVE.
- 2.Nqpb_RD_NqxitScope - The scope after any ISGNQXIT/FAST exit alterations.
- 3.Nqpb_RD_Scope - The scope after any RNL alterations.

Regardless of all other indicators, this is the final scope that will be used.

RNL processing history:

Nqpb_SF2_Rn1EqNo - RNLs were not processed

Nqpb_SF3_Included - A SYSTEM scope was promoted to SYSTEMS

Nqpb_SF3_Excluded - A SYSTEMS scope was excluded to SYSTEM

This and Nqpb_SF3_Included can be on as it may have been promoted generically and then more specificall demoted.

Nqpb_SF3_Converted - A RESERVE obtain/release was converted from a RESERVE-ENQ/DEQ to a ENQ/DEQ only.

Most of the exits that are driven for a request are provided a unique "request token" which allows the exits to correlate any required user information between exit callers. For example, the Nqpb_RD_RequestToken will be the same as the Nqxp_RequestToken if both the ISGNQXITPREBATCH and ISGNQXITFAST exits are driven for the same request.

ISGYNQPB mapping

Table 898. Structure NQPB

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

Table 898. Structure NQPB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	CHARACTER	4	NQPB_ID	Eyecatcher
4	(4)	BITSTRING	1	NQPB_VERSION	Version. See version constants below e.g. Nqpb_kVersion#1
5	(5)	CHARACTER	3		Reserved
8	(8)	ADDRESS	4	NQPB_WORKAREA@	Pointer to a 4K work area, usable by exit routines
12	(C)	CHARACTER	72	NQPB_REQUESTDATA(0)	ENQ/DEQ request state information, these values cannot be changed
12	(C)	CHARACTER	16	NQPB_RD_REQUESTTOKEN	Unique token identifying the GRS exit call processing for the request. If needed, all exits driven for this request can use this token to identify the same request. See the prologue for more information.
28	(1C)	ADDRESS	4	NQPB_RD_QNAME@	Pointer to request QNAME
32	(20)	ADDRESS	4	NQPB_RD_RNAME@	Pointer to request RNAME
36	(24)	ADDRESS	4	NQPB_RD_UCB@	Request UCB address after ISGNQXIT/FAST and RNL processing. Only valid when Nqpb_SF1_ENQ is set. Note that the actual device RESERVE will not be issued when Nqpb_SF3_Converted is set
40	(28)	BITSTRING	1	NQPB_RD_SCOPE	Request scope, see Nqpb_kScope values
41	(29)	BITSTRING	1	NQPB_RD_ORIGINALSCOPE	Scope before exit and RNL processing, see Nqpb_kScope
42	(2A)	BITSTRING	1	NQPB_RD_RET(0)	Request RET value, see Nqpb_kRET values
		.... .1..		NQPB_RD_RET1	"X'04'" Maps to PELRET1
		.... ..1.		NQPB_RD_RET2	"X'02'" Maps to PELRET2
		.... ...1		NQPB_RD_RET3	"X'01'" Maps to PELRET3
43	(2B)	BITSTRING	1	NQPB_RD_RNAMELEN	Length of the RName. When 0, request is a generic DEQ
44	(2C)	ADDRESS	4	NQPB_RD_ASCB@	Pointer to requester's ASCB
48	(30)	ADDRESS	4	NQPB_RD_TCB@	Pointer to requester's TCB or directed TCB if TCB= was specified
52	(34)	SIGNED	2	NQPB_RD_MASID	Request MASID value
54	(36)	BITSTRING	1	NQPB_RD_NQXITSCOPE	Scope value after ISGNQXITFAST and ISGNQXIT processing. See Nqpb_kScope for possible values and the prologue for information on which scopes are presented. Only provided in version Nqpb_kVersion#3 and up. A comparison with Nqpb_RD_OriginalScope determines if the exit changed the scope.
55	(37)	CHARACTER	1		Reserved
56	(38)	ADDRESS	4	NQPB_RD_MTCB	Request MTCB value
60	(3C)	CHARACTER	8	NQPB_RD_JOBNAME	Requester's Jobname
68	(44)	CHARACTER	8	NQPB_RD_SYSNAME	Requester's Sysname

ISGYNQPB mapping

Table 898. Structure NQPB (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
76	(4C)	ADDRESS	4	NQPB_RD_NSI@ (0)	Requester's next sequential instruction address, when ENQ/DEQ ends, this is address of the next instruction in the calling program that will be executed
		1... ..		NQPB_RD_AMODE31	"X'80'" When set, ENQ caller is AMODE 31
80	(50)	ADDRESS	4	NQPB_RD_ECB@	Pointer to original request ECB (set when ECB= specified on the request)
84	(54)	CHARACTER	3	NQPB_STATEFLAGS (0)	ENQ/DEQ request state flags, these values cannot be changed
84	(54)	BITSTRING	1	NQPB_STATEFLAGS1 (0) NQPB_SF1_ENQ	First byte of state flags "X'80'" When 1, request is ENQ/RESERVE, when 0, request is DEQ. If Nqpb_SF1_ISGENQ is set then when 1, ISGENQ REQUEST=OBTAIN or CHANGE, when 0, REQUEST=RELEASE. See Nqpb_SF2_Change to distinguish between ISGENQ REQUEST=OBTAIN and REQUEST=CHANGE.
		.1.. ..		NQPB_SF1_AUTHORIZED	"X'40'" Caller is authorized
		..1.		NQPB_SF1_MATCHTASK	"X'20'" When 1, request specified MASID/MTCB
		...1		NQPB_SF1_SMCORRM	"X'10'"
		...1		NQPB_SF1_STEPMUSTCOMPLETE	"X'10'" When 1, ENQ request specified SMC=YES
		...1		NQPB_SF1_RESETMUSTCOMPLETE	"X'10'" When 1, DEQ request specified RMC=YES
		.... 1...		NQPB_SF1_LINKAGE	"X'08'" When 1, request is PC entered when 0, request is SVC entered. As ISGENQ requests are all PC entered, this bit will be 1 for all ISGENQ requests.
		.... .1..		NQPB_SF1_ISGENQ	"X'04'" When 1, request is ISGENQ
		.... ..1.		NQPB_SF1_ISGENQCONDYES	"X'02'" When 1, request is a conditional ISGENQ request (ISGENQ COND=YES)
85	(55)	BITSTRING	1	NQPB_STATEFLAGS2 (0) NQPB_SF2_SHARE	Second byte of state flags "X'80'" For ENQ/RESERVE requests, when 1 request is for shared access, when 0, request is for exclusive access
		.1..		NQPB_SF2_RNLQNO	"X'40'" RNL=NO was specified on the request
		..1.		NQPB_SF2_CHANGE	"X'20'" When 1, request is a change (i.e. ENQ RET=CHNG or ISGENQ REQUEST=CHANGE).
		...1		NQPB_SF2_TEST_YES	"X'10'" When 1, ISGENQ with TEST=YES. When 0, Not ISGENQ with TEST=YES (i.e. TEST=NO if Nqpb_SF1_ISGENQ is set).

Table 898. Structure NQPB (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
		....	1...		NQPB_SF2_CONTENTIONACT_FAIL	"X'08'" When 1, ISGENQ with CONTENTIONACT=FAIL. When 0, not CONTENTIONACT=FAIL (i.e. CONTENTIONACT=WAIT if Nqpb_SF1_ISGENQ is set and Nqpb_SF2_TEST_YES is off).
		....	.1..		NQPB_SF2_ECB	"X'04'" When 1, ECB keyword specified (i.e. ISGENQ WAITTYPE=ECB or or ENQ with ECB). When 0, No ECB specified (i.e. WAITTYPE=SUSPEND if Nqpb_SF1_ISGENQ is set and Nqpb_SF2_TEST_YES and Nqpb_SF2_CONTENTIONACT_FAIL are off).
		....	..1.		NQPB_SF2_CHANGETOSHARED	"X'02'" When 1, ISGENQ REQUEST=CHANGE specified CONTROL=SHARED. If the request is successful, the requester will be converted from an exclusive owner to a shared owner. Only valid when Nqpb_SF2_Change is 1
86	(56)	BITSTRING		1	NQPB_STATEFLAGS3(0)	Third byte of state flags
			1... ..		NQPB_SF3_INCLUDED	"X'80'" Resource promoted to SYSTEMS scope
			.1.. ..		NQPB_SF3_CONVERTED	"X'40'" Resource converted from RESERVE to SYSTEMS ENQ only. As such, the device RESERVE will not be issued, but Nqpb_RD_Ucb@ will still be set
			..1.		NQPB_SF3_EXCLUDED	"X'20'" Resource demoted to SYSTEM scope
			...1		NQPB_SF3_GLOBAL	"X'10'" Resource request will be processed globally by GRS. Note Nqpb_SF3_Global will always be off in GRS=NONE mode.
87	(57)	CHARACTER		1		Reserved
88	(58)	CHARACTER		4	NQPB_EXITRESPONSEFLAGS(0)	Response from exit routines
88	(58)	BITSTRING		1	NQPB_EXITRESPONSEFLAGS1(0)	First byte of exit response flags
			1... ..		NQPB_ER_CALLISGNQXITBATHCND	"X'80'" Drive this request through the ISGNQXITBATHCND exit point
			.1.. ..		NQPB_ER_ALTSEREXTENDED	"X'40'" Used by alternate serialization products to show that this request is being managed at the global (SYSTEMS) level. Only processed when version is Nqpb_kVersion#2 and above.
			.... 1...		NQPB_ER_INTERESTINPREB	"X'08'"
			.... .1..		NQPB_ER_CALLPREBFORTHISRESOURCE	

ISGYNQPB mapping

Table 898. Structure NQPB (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
89	(59)	CHARACTER		3		"X'04'" Reserved
92	(5C)	CHARACTER		4		Reserved
96	(60)	CHARACTER		1	NQPB_END(0)	
NQPB Constants						
96	(60)	X'D8D7C2'		0	NQPB_KID	"C'NQPB'" Used to identify control block
96	(60)	X'1'		0	NQPB_KVERSION#1	"1" Version constant - HBB7705
96	(60)	X'2'		0	NQPB_KVERSION#2	"2" Version constant - HBB7709
96	(60)	X'3'		0	NQPB_KVERSION#3	"3" Version constant - HBB7740
96	(60)	X'4'		0	NQPB_KVERSION#4	"4" Version constant - HBB7750
96	(60)	X'4'		0	NQPB_KCURRENTVERSION	"4" Current version
96	(60)	X'0'		0	NQPB_KSCOPESTEP	"0" Scope=Step
96	(60)	X'1'		0	NQPB_KSCOPESTEP	"1" Scope=System
96	(60)	X'2'		0	NQPB_KSCOPESTEP	"2" Scope=Systems
96	(60)	X'0'		0	NQPB_KRETNONE	"0" Ret=None
96	(60)	X'1'		0	NQPB_KRETHAVE	"1" Ret=Have
96	(60)	X'2'		0	NQPB_KRETHAVE	"2" Ret=Chng
96	(60)	X'3'		0	NQPB_KRETHAVE	"3" Ret=Use
96	(60)	X'7'		0	NQPB_KRETHAVE	"7" Ret=Test
96	(60)	X'F0'		0	NQPB_KSF3MASK	"240" Mask for copying from PeIXFlg1 to Nqpb_StateFlags3
96	(60)	X'60'		0	NQPB_KLENGTH	"96" Length of NQPB
96	(60)	X'60'		0	NQPB_LEN	"*-NQPB"

Table 899. Cross Reference for ISGYNQPB

Name	Offset	Hex	Tag
NQPB	0		
NQPB_END	60		
NQPB_ER_ALTSEEXTENDED	58		40
NQPB_ER_CALLISGNQXITBATCHCND	58		80
NQPB_ER_CALLPREBFORTHISRESOURCE	58		4
NQPB_ER_INTERESTINPREB	58		8
NQPB_EXITRESPONSEFLAGS	58		
NQPB_EXITRESPONSEFLAGS1	58		
NQPB_ID	0		
NQPB_KCURRENTVERSION	60		4
NQPB_KID	60	D8D7C2	
NQPB_KLENGTH	60		60
NQPB_KRETHAVE	60		2
NQPB_KRETHAVE	60		1
NQPB_KRETHAVE	60		0
NQPB_KRETHAVE	60		7
NQPB_KRETHAVE	60		3
NQPB_KSCOPESTEP	60		0
NQPB_KSCOPESTEP	60		1
NQPB_KSCOPESTEP	60		2
NQPB_KSF3MASK	60		F0

Table 899. Cross Reference for ISGYNQPB (continued)

Name	Offset	Hex Tag
NQPB_KVERSION#1	60	1
NQPB_KVERSION#2	60	2
NQPB_KVERSION#3	60	3
NQPB_KVERSION#4	60	4
NQPB_LEN	60	60
NQPB_RD_AMODE31	4C	80
NQPB_RD_ASCB@	2C	
NQPB_RD_ECB@	50	
NQPB_RD_JOBNAME	3C	
NQPB_RD_MASID	34	
NQPB_RD_MTCB	38	
NQPB_RD_NQXITSCOPE	36	
NQPB_RD_NSI@	4C	
NQPB_RD_ORIGINALSCOPE	29	
NQPB_RD_QNAME@	1C	
NQPB_RD_REQUESTTOKEN	C	
NQPB_RD_RET	2A	
NQPB_RD_RET1	2A	4
NQPB_RD_RET2	2A	2
NQPB_RD_RET3	2A	1
NQPB_RD_RNAME@	20	
NQPB_RD_RNAMELEN	2B	
NQPB_RD_SCOPE	28	
NQPB_RD_SYSNAME	44	
NQPB_RD_TCB@	30	
NQPB_RD_UCB@	24	
NQPB_REQUESTDATA	C	
NQPB_SF1_AUTHORIZED	54	40
NQPB_SF1_ENQ	54	80
NQPB_SF1_ISGENQ	54	4
NQPB_SF1_ISGENQCONDYES	54	2
NQPB_SF1_LINKAGE	54	8
NQPB_SF1_MATCHTASK	54	20
NQPB_SF1_RESETMUSTCOMPLETE	54	10
NQPB_SF1_SMCORRMC	54	10
NQPB_SF1_STEPMUSTCOMPLETE	54	10
NQPB_SF2_CHANGE	55	20
NQPB_SF2_CHANGETOSHARED	55	2
NQPB_SF2_CONTENTIONACT_FAIL	55	8
NQPB_SF2_ECB	55	4
NQPB_SF2_RNLEQNO	55	40
NQPB_SF2_SHARE	55	80
NQPB_SF2_TEST_YES	55	10
NQPB_SF3_CONVERTED	56	40
NQPB_SF3_EXCLUDED	56	20
NQPB_SF3_GLOBAL	56	10
NQPB_SF3_INCLUDED	56	80
NQPB_STATEFLAGS	54	
NQPB_STATEFLAGS1	54	

ISGYNQPB mapping

Table 899. Cross Reference for ISGYNQPB (continued)

Name	Offset	Hex Tag
NQPB_STATEFLAGS2	55	
NQPB_STATEFLAGS3	56	
NQPB_VERSION	4	
NQPB_WORKAREA@	8	

Chapter 245. ISGYNQQP Information

ISGYNQQP Programming Interface Information

ISGYNQQP is a programming interface.

ISGYNQQP Heading Information

Common Name: Queued ENQ Exit Parameter List
Macro ID: ISGYNQQP
DSECT Name: NQQP
Owning Component: Global Resource Serialization (SCSDS)
Eye-Catcher ID: NQQP
Offset: 0
Length: 4
Storage Attributes: Subpool: 229 or 215
Key: 0
Residency: Above the 16M line
Size: LENGTH(NQQP)
NQQP -- X'0060' bytes
NQQPRSC_ENTRY -- X'0078' bytes
Created by: ISGGNX
Pointed to by: R1 points to the NQQP on entry to the exit routine
Serialization: N/A
Function: The Queued ENQ parameter list is passed to an installation provided exit routine (installed at the ISGNQXITQUEUED1 or ISGNQXITQUEUED2 exits) to indicate that all of the elements have been queued. At the time of the ISGNQXITQUEUED1 exit local processing has completed and global requests have been queued to the global processor. When ISGNQXITQUEUED2 is invoked all requests have been processed. These exits are called just prior to waiting for contention (for unconditional requests that have not been promoted) or returning to the ENQ requester. The request data presented in this exit are read only. Most of the exits that are driven for a request are provided a unique "request token" which allows the exits to correlate any required user information between exit callers. For example, the Nqqp_RD_RequestToken will be the same as the Nqxp_RequestToken if both the ISGNQXITQUEUED1 and ISGNQXITFAST exits are driven for the same request.

ISGYNQQP mapping

Table 900. Structure NQQP

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NQQP	
0	(0)	CHARACTER	4	NQQP_ID	Eyecatcher
4	(4)	BITSTRING	1	NQQP_VERSION	Version. See version constants below e.g. Nqqp_kVersion#1

ISGYNQQP mapping

Table 900. Structure NQQP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
5	(5)	BITSTRING	1	NQQP_EXITTYPE	Indicates which exit is being called. See ExitType constants below e.g. Nqqp_kExitTypeQ1. Valid for Nqqp_Version of Nqqp_kVersion#5 or higher.
6	(6)	CHARACTER	2		Reserved
8	(8)	ADDRESS	4	NQQP_WORKAREA@	Pointer to a 4K work area, usable by exit routines
12	(C)	CHARACTER	56	NQQP_REQUESTDATA(0)	ENQ request state information, these values cannot be changed
12	(C)	CHARACTER	16	NQQP_RD_REQUESTTOKEN	Unique token identifying the GRS exit call processing for the request. If needed, all exits driven for this request can use this token to identify the same request. See the prologue for more information.
28	(1C)	ADDRESS	4	NQQP_RD_ASCB@	Pointer to requester's ASCB
32	(20)	ADDRESS	4	NQQP_RD_TCB@	Pointer to requester's TCB or directed TCB if TCB= was specified
36	(24)	SIGNED	2	NQQP_RD_MASID	Request MASID value
38	(26)	CHARACTER	2		Reserved
40	(28)	ADDRESS	4	NQQP_RD_MTCB	Request MTCB value
44	(2C)	CHARACTER	8	NQQP_RD_JOBNAME	Requester's Jobname
52	(34)	CHARACTER	8	NQQP_RD_SYSNAME	Requester's Sysname
60	(3C)	ADDRESS	4	NQQP_RD_NSI@ (0)	Requester's next sequential instruction address, when ENQ ends, this is address of the next instruction in the calling program that will be executed
		1... ..		NQQP_RD_AMODE31	"X'80" When set, ENQ caller is AMODE 31
64	(40)	ADDRESS	4	NQQP_RD_ECB@	Pointer to original request ECB (set when ECB= specified on the request)
68	(44)	CHARACTER	4	NQQP_STATEFLAGS(0)	ENQ request state flags, these values cannot be changed
68	(44)	BITSTRING	1	NQQP_STATEFLAGS1(0) NQQP_SF1_ENQ	First byte of state flags "X'80" When 1, request is ENQ/RESERVE. This bit is never off. If Nqqp_SF1_ISGENQ is set then when 1, ISGENQ REQUEST=OBTAIN or CHANGE. See Nqqp_SF2_Change to distinguish between ISGENQ REQUEST=OBTAIN and REQUEST=CHANGE.
		1... ..		NQQP_SF1_AUTHORIZED	"X'40" Caller is authorized
		..1.		NQQP_SF1_MATCHTASK	"X'20" When 1, request specified MASID/MTCB
		...1		NQQP_SF1_SMCORRM	"X'10"
		...1		NQQP_SF1_STEPMUSTCOMPLETE	"X'10" When 1, ENQ request specified SMC=YES
		...1		NQQP_SF1_RESETMUSTCOMPLETE	"X'10" Unused

Table 900. Structure NQQP (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
		....	1...		NQQP_SF1_LINKAGE	"X'08'" When 1, request is PC entered when 0, request is SVC entered. As ISGENQ requests are all PC entered, this bit will be 1 for all ISGENQ requests.
		....	.1..		NQQP_SF1_REDRIIVEFORRNLCHANGE	"X'04'" When 1, this request is being redriven because a dynamic RNL change has occurred. Note that none of the Rsc entries associated with this Nqqp will contain valid return code information as none of the resource requests were queued. If a batch exit exists when the request is redriven, it will get control with a new request token and each of the Rsc entries will reflect the resource scope using the new RNLs.
		....	..1.		NQQP_SF1_ISGENQ	"X'02'" When 1, request via ISGENQ service
		....	...1		NQQP_SF1_ISGENQCONDYES	"X'01'" When 1, request is a conditional ISGENQ request (ISGENQ COND=YES)
69	(45)	BITSTRING	..1.	1	NQQP_STATEFLAGS2(0) NQQP_SF2_CHANGE	State flags byte two "X'20'" When 1, request is a change (i.e. ENQ RET=CHNG or ISGENQ REQUEST=CHANGE).
		...1	....		NQQP_SF2_TEST_YES	"X'10'" When 1, ISGENQ with TEST=YES. When 0, Not ISGENQ with TEST=YES (i.e. TEST=NO if Nqqp_SF1_ISGENQ is set).
		....	1...		NQQP_SF2_CONTENTIONACT_FAIL	"X'08'" When 1, ISGENQ with CONTENTIONACT=FAIL. When 0, not CONTENTIONACT=FAIL (i.e. CONTENTIONACT=WAIT if Nqqp_SF1_ISGENQ is set and Nqqp_SF2_TEST_YES is off).
		....	.1..		NQQP_SF2_ECB	"X'04'" When 1, ECB keyword specified (i.e. ISGENQ WAITTYPE=ECB or or ENQ with ECB). When 0, No ECB specified (i.e. WAITTYPE=SUSPEND if Nqqp_SF1_ISGENQ is set and Nqqp_SF2_TEST_YES and Nqqp_SF2_CONTENTIONACT_FAIL are off).

ISGYNQQP mapping

Table 900. Structure NQQP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ..1.		NQQP_SF2_CHANGETOSHARED	"X'02'" When 1, ISGENQ REQUEST=CHANGE specified CONTROL=SHARED. If the request is successful, the requester will be converted from an exclusive owner to a shared owner. Only valid when Nqqp_SF2_Change is 1
70	(46)	CHARACTER	2		Reserved
72	(48)	CHARACTER	4	NQQP_REQUESTFLAGS(0)	Batch request flags
72	(48)	BITSTRING	1	NQQP_REQUESTFLAGS1(0)	First byte of flags
		1...		NQQP_RF1_SETRSCREQUEST	"X'80'" When 1, indicates that a module on the ISGNQXITBATCH exit requested a change to one or more NqqpRsc entries
		.1...		NQQP_RF1_SETABEND	"X'40'" When 1, indicates that a module on the ISGNQXITBATCH exit requested to ABEND mainline processing. See Nqqp_ABENDInformation for the requested ABEND
73	(49)	CHARACTER	3		Reserved
76	(4C)	SIGNED	4	NQQP_#RESOURCES	Number of resources in the request
80	(50)	ADDRESS	4	NQQP_FIRSTNQQPRSC@	Pointer to first NqqpRsc entry
84	(54)	CHARACTER	4	NQQP_ABENDINFORMATION(0)	ABEND state of request
84	(54)	SIGNED	2	NQQP_ABENDCD(0)	Abend code. Zero if the request is not ABENDING
84	(54)	BITSTRING	1	NQQP_ABENDCODE	First digit of the ABEND code
85	(55)	BITSTRING	1	NQQP_ABENDCODELO	Second and third digits of the ABEND code
86	(56)	SIGNED	2	NQQP_ABENDREASON	ABEND Reason Code
88	(58)	CHARACTER	8		Reserved
96	(60)	CHARACTER	1	NQQP_END(0)	
96	(60)	X'60'	0	NQQP_LEN	"*-NQQP"

Table 901. Structure NQQPRSC_ENTRY

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	NQQPRSC_ENTRY	
0	(0)	ADDRESS	4	NQQPRSC_NEXTNQQPRSC@	Pointer to next NqqpRsc entry, 0 indicates end of list
4	(4)	CHARACTER	8	NQQPRSC_TOKEN	For control program use only - defines which entry in the request corresponds to this NqqpRsc_Entry
12	(C)	CHARACTER	8	NQQPRSC_QNAME	Request QName
20	(14)	ADDRESS	4	NQQPRSC_RNAME@	Pointer to Nqqp RNAME
24	(18)	BITSTRING	1	NQQPRSC_SCOPE	Request scope, see Nqqp_kScope values

Table 901. Structure NQQPRSC_ENTRY (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
25	(19)	BITSTRING		1	NQQPRSC_RET(0)	Request RET value, see Nqqp_kRET values Note that this field will be the same for every NqqpRsc entry in the list.
			.... .1..		NQQPRSC_RET1	"X'04'" Maps to PELRET1
			.... ..1.		NQQPRSC_RET2	"X'02'" Maps to PELRET2
			.... ...1		NQQPRSC_RET3	"X'01'" Maps to PELRET3
26	(1A)	BITSTRING		1	NQQPRSC_RNAMELEN	Length of the RName.
27	(1B)	BITSTRING		1	NQQPRSC_ORIGINALSCOPE	Original scope specified on the GRS API. See Nqqp_kScope for possible values.
28	(1C)	CHARACTER		4	NQQPRSC_STATEFLAGS(0)	Resource state flags
28	(1C)	BITSTRING		1	NQQPRSC_STATEFLAGS1(0)	First byte of resource state flags
			1...		NQQPRSC_SF1_SHARE	"X'80'" For ENQ/RESERVE requests, when 1 request is for shared access, when 0, request is for exclusive access
			.1..		NQQPRSC_SF1_RNLEQNO	"X'40'" RNL=NO was specified on the request
29	(1D)	BITSTRING		1	NQQPRSC_STATEFLAGS2(0)	Second byte of resource flags
			1...		NQQPRSC_SF2_INCLUDED	"X'80'" RNL history indicator: The Resource was promoted to SYSTEMS scope. It may have also been demoted back to SYSTEM level. See NqqpRsc_Scope for the final scope.
			.1..		NQQPRSC_SF2_CONVERTED	"X'40'" RNL history indicator: The Resource was converted from a RESERVE to SYSTEMS ENQ only. Note that NqqpRsc_Ucb@ will still be set.
			..1.		NQQPRSC_SF2_EXCLUDED	"X'20'" RNL history indicator: The Resource was demoted to SYSTEM scope. Note that the NqqpRsc_Scope is the final scope.
			...1		NQQPRSC_SF2_GLOBAL	"X'10'" Resource request will be processed globally by GRS. Note NqqpRsc_SF2_Global will always be off in GRS=NONE mode even though NqqpRsc_Scope may be SYSTEMS.

ISGYNQQP mapping

Table 901. Structure NQQPRSC_ENTRY (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		NQQPRSC_SF2_CONTENTION	"X'08'" Contention was encountered for this request. This bit is set for any request where contention exists or would have been created for the resource. This includes TEST requests where the resource is already owned. Likewise it includes RET=USE and CONTENTIONACT=FAIL requests that encountered a resource that was already owned. Valid for Nqqp_Version of Nqqp_kVersion#5 or higher.
30	(1E)	CHARACTER	2		
32	(20)	ADDRESS	4	NQQPRSC_UCB@	Request UCB address
36	(24)	CHARACTER	4	NQQPRSC_REQUESTFLAGS(0)	Batch request flags
36	(24)	BITSTRING	1	NQQPRSC_REQUESTFLAGS1(0)	First flags byte
		1...		NQQPRSC_RF1_SETRETURNCODE	"X'80'" When 1, indicates that a module on the ISGNQXITBATCH exit requested a change to the return code for this conditional/test request
		.1..		NQQPRSC_RF1_CONVERTRESERVE	"X'40'" When 1, indicates that a module on the ISGNQXITBATCH exit requested that this RESERVE be converted to a SYSTEMS ENQ only
		..1.		NQQPRSC_RF1_SETREASONCODE	"X'20'" When 1, indicates that a module on the ISGNQXITBATCH exit requested a change to the reason code for this conditional/test request.
37	(25)	BITSTRING	1		Reserved
38	(26)	CHARACTER	2		Reserved
40	(28)	BITSTRING	1	NQQPRSC_RETURNCODE	Return code to the requester, if applicable. Note that for ENQ/RESERVE this will be an ENQ-style return code and for ISGENQ this will be an ISGENQ-style return code which corresponds to the reason in NqqpRsc_ReasonCode. However, a value of 1 indicates that this resource is global and a return code has not yet been determined. This value should be ignored if Nqqp_ABENDCd is non-zero.
41	(29)	CHARACTER	3		Unused
44	(2C)	SIGNED	4	NQQPRSC_REASONCODE(0)	Reason code for ISGENQ request. Only valid when Nqqp_SF1_ISGENQ is set. This value should be ignored if Nqqp_ABENDCd is non-zero.
44	(2C)	SIGNED	2		Internal diag field

Table 901. Structure NQQPRSC_ENTRY (continued)

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
46	(2E)	SIGNED	2	NQQPRSC_LORSNCODE	
48	(30)	CHARACTER	1		Reserved (see ISGYNQBP)
49	(31)	CHARACTER	7		Unused
56	(38)	CHARACTER	32	NQQPRSC_RSCTOKEN	Token uniquely identifying the resource. Valid for Nqqp_Version of Nqqp_kVersion#3 or higher and when its value is non-zero
88	(58)	CHARACTER	32	NQQPRSC_ENQTOKEN	Token uniquely identifying the queued request to the resource. Valid for Nqqp_Version of Nqqp_kVersion#3 or higher and when its value is non-zero
120	(78)	CHARACTER	1	NQQPRSC_END(0)	
Nqqp Constants					
120	(78)	X'D8D8D7'	0	NQQP_KID	"C'NQQP'" Used to identify control block
120	(78)	X'1'	0	NQQP_KVERSION#1	"1" Version - HBB7705
120	(78)	X'2'	0	NQQP_KVERSION#2	"2" Version - HBB7709
120	(78)	X'3'	0	NQQP_KVERSION#3	"3" Version - HBB7740
120	(78)	X'4'	0	NQQP_KVERSION#4	"4" Version - HBB7750
120	(78)	X'5'	0	NQQP_KVERSION#5	"5" Version - HBB7760
120	(78)	X'5'	0	NQQP_KCURRENTVERSION	"5" Current version
120	(78)	X'1'	0	NQQP_KEXITTYPEQ1	"1" Exit ISGNXITQUEUED1
120	(78)	X'2'	0	NQQP_KEXITTYPEQ2	"2" Exit ISGNXITQUEUED2
120	(78)	X'0'	0	NQQP_KSCOPESTEP	"0" Scope=Step
120	(78)	X'1'	0	NQQP_KSCOPESYSTEM	"1" Scope=System
120	(78)	X'2'	0	NQQP_KSCOPESYSTEMS	"2" Scope=Systems
120	(78)	X'0'	0	NQQP_KRETNONE	"0" Ret=None
120	(78)	X'1'	0	NQQP_KRETHAVE	"1" Ret=Have
120	(78)	X'2'	0	NQQP_KRETCNG	"2" Ret=Chng
120	(78)	X'3'	0	NQQP_KRETUSE	"3" Ret=Use
120	(78)	X'4'	0	NQQP_KRETECB	"4" An ECB is specified for this ENQ request, via either the ECB= parameter on ENQ or the WAITTYPE=ECB parameter on ISGENQ REQUEST=OBTAIN
120	(78)	X'7'	0	NQQP_KRETTEST	"7" Ret=Test
120	(78)	X'1'	0	NQQP_KRCGLOBAL	"1" Return code value when a request is global and not yet been determined
120	(78)	X'60'	0	NQQP_KLENGTH	"96" Maximum length of Nqqp
120	(78)	X'78'	0	NQQPRSC_ENTRY_LEN	"*-NQQPRSC_ENTRY"

Table 902. Cross Reference for ISGYNQQP

Name	Offset	Hex Tag
NQQP	0	
NQQP_#RESOURCES	4C	
NQQP_ABENDCD	54	
NQQP_ABENDCODE	54	
NQQP_ABENDCODELO	55	
NQQP_ABENDINFORMATION	54	

ISGYNQQP mapping

Table 902. Cross Reference for ISGYNQQP (continued)

Name	Offset	Hex Tag
NQQP_ABENDREASON	56	
NQQP_END	60	
NQQP_EXITTYPE	5	
NQQP_FIRSTNQQPRSC@	50	
NQQP_ID	0	
NQQP_KCURRENTVERSION	78	5
NQQP_KEXITTYPEQ1	78	1
NQQP_KEXITTYPEQ2	78	2
NQQP_KID	78	D8D8D7
NQQP_KLENGTH	78	60
NQQP_KRCGLOBAL	78	1
NQQP_KRETCHNG	78	2
NQQP_KRETECB	78	4
NQQP_KRETHAVE	78	1
NQQP_KRETNONE	78	0
NQQP_KRETTEST	78	7
NQQP_KRETUSE	78	3
NQQP_KSCOPESTEP	78	0
NQQP_KSCOPESYSTEM	78	1
NQQP_KSCOPESYSTEMS	78	2
NQQP_KVERSION#1	78	1
NQQP_KVERSION#2	78	2
NQQP_KVERSION#3	78	3
NQQP_KVERSION#4	78	4
NQQP_KVERSION#5	78	5
NQQP_LEN	60	60
NQQP_RD_AMODE31	3C	80
NQQP_RD_ASCB@	1C	
NQQP_RD_ECB@	40	
NQQP_RD_JOBNAME	2C	
NQQP_RD_MASID	24	
NQQP_RD_MTCB	28	
NQQP_RD_NSI@	3C	
NQQP_RD_REQUESTTOKEN	C	
NQQP_RD_SYSNAME	34	
NQQP_RD_TCB@	20	
NQQP_REQUESTDATA	C	
NQQP_REQUESTFLAGS	48	
NQQP_REQUESTFLAGS1	48	
NQQP_RF1_SETABEND	48	40
NQQP_RF1_SETRSCREQUEST	48	80
NQQP_SF1_AUTHORIZED	44	40
NQQP_SF1_ENQ	44	80
NQQP_SF1_ISGENQ	44	2
NQQP_SF1_ISGENQCONDYES	44	1
NQQP_SF1_LINKAGE	44	8
NQQP_SF1_MATCHTASK	44	20
NQQP_SF1_REDRIIVEFORRNLCCHANGE	44	4
NQQP_SF1_RESETMUSTCOMPLETE	44	10

Table 902. Cross Reference for ISGYNQQP (continued)

Name	Offset	Hex Tag
NQQP_SF1_SMCORRM	44	10
NQQP_SF1_STEPMUSTCOMPLETE	44	10
NQQP_SF2_CHANGE	45	20
NQQP_SF2_CHANGETOSHARED	45	2
NQQP_SF2_CONTENTIONACT_FAIL	45	8
NQQP_SF2_ECB	45	4
NQQP_SF2_TEST_YES	45	10
NQQP_STATEFLAGS	44	
NQQP_STATEFLAGS1	44	
NQQP_STATEFLAGS2	45	
NQQP_VERSION	4	
NQQP_WORKAREA@	8	
NQQPRSC_END	78	
NQQPRSC_ENQTOKEN	58	
NQQPRSC_ENTRY	0	
NQQPRSC_ENTRY_LEN	78	78
NQQPRSC_LORSNCODE	2E	
NQQPRSC_NEXTNQQPRSC@	0	
NQQPRSC_ORIGINALSCOPE	1B	
NQQPRSC_QNAME	C	
NQQPRSC_REASONCODE	2C	
NQQPRSC_REQUESTFLAGS	24	
NQQPRSC_REQUESTFLAGS1	24	
NQQPRSC_RET	19	
NQQPRSC_RETURNCODE	28	
NQQPRSC_RET1	19	4
NQQPRSC_RET2	19	2
NQQPRSC_RET3	19	1
NQQPRSC_RF1_CONVERTRESERVE	24	40
NQQPRSC_RF1_SETREASONCODE	24	20
NQQPRSC_RF1_SETRETURNCODE	24	80
NQQPRSC_RNAME@	14	
NQQPRSC_RNAMELEN	1A	
NQQPRSC_RSCTOKEN	38	
NQQPRSC_SCOPE	18	
NQQPRSC_SF1_RNLEQNO	1C	40
NQQPRSC_SF1_SHARE	1C	80
NQQPRSC_SF2_CONTENTION	1D	8
NQQPRSC_SF2_CONVERTED	1D	40
NQQPRSC_SF2_EXCLUDED	1D	20
NQQPRSC_SF2_GLOBAL	1D	10
NQQPRSC_SF2_INCLUDED	1D	80
NQQPRSC_STATEFLAGS	1C	
NQQPRSC_STATEFLAGS1	1C	
NQQPRSC_STATEFLAGS2	1D	
NQQPRSC_TOKEN	4	
NQQPRSC_UCB@	20	

ISGYNQQP mapping

Chapter 246. ISGYNQXP Information

ISGYNQXP Programming Interface Information

ISGYNQXP is a programming interface.

ISGYNQXP Heading Information

Common Name: ENQ Exit Parameter List
Macro ID: ISGYNQXP
DSECT Name: NQXP
Owning Component: Global Resource Serialization (SCSDS)
Eye-Catcher ID: NQXP
Offset: 0
Length: 4
Storage Attributes: Subpool: 215
Key: 0
Residency: Above the 16M line
Size: LENGTH(NQXP)
NQXP -- X'0088' bytes
Created by: ISGGNX
Pointed to by: R1 points to the NQXP on entry to the exit routine
Serialization: N/A
Function: The ENQ Exit Parameter List provides an installation provided exit (installed at the ISGNQXIT or ISGNQXITFAST exit point) the ability to modify attributes of an ENQ, RESERVE or DEQ request. However, on an ISGENQ Request (Release) or (Change) the installation exit will be presented with the request, but any changes to the attributes will not be honored. The exit routine may change any of the following values in the NQXP. Appropriate changes will be made to the request.

Value	Flag
Nqxp_CP_QName	Nqxp_RF1_ChangeQName
Nqxp_CP_RName, Nqxp_CP_RNameLen	Nqxp_RF1_ChangeRName (1)
Nqxp_CP_Scope	Nqxp_RF1_ChangeScope
Nqxp_CP_UCB@	Nqxp_RF1_ChangeUCB
(to bypass RNL processing)	Nqxp_RF1_BypassRNLs

(1) When changing the RName, do not alter the virtual storage address value contained in Nqxp_CP_RName. Instead, alter the RName at the virtual storage area designated by Nqxp_CP_RName@ virtual storage address value. The routine calling the exit provides enough storage to save a 255 byte RName at that address.

The Nqxp_RequestToken is used to correlate the different exits called by ENQ/DEQ processing. Each request is assigned a unique 8 byte token that will be propagated to each exit point called for the ENQ/DEQ request. Nqxp_WorkArea@ points to a 4K work area that can be used as working storage by exit routines. However, this area CANNOT be used to pass information between exit routines or other ENQ/DEQ exit points.

ISGYNQXP mapping

Table 903. Structure NQXP

Offset	Offset		Len	Name(Dim)	Description
Dec	Hex	Type			
0	(0)	STRUCTURE	0	NQXP	
0	(0)	CHARACTER	4	NQXP_ID	Eyecatcher
4	(4)	BITSTRING	1	NQXP_VERSION	Version
5	(5)	CHARACTER	3		Reserved
8	(8)	CHARACTER	40	NQXP_REQUESTDATA(0)	ENQ/DEQ request state information, these values cannot be changed
8	(8)	ADDRESS	4	NQXP_RD_ASCB@	Pointer to requester's ASCB
12	(C)	ADDRESS	4	NQXP_RD_TCB@	Pointer to requester's TCB or directed TCB if TCB= was specified
16	(10)	CHARACTER	6	NQXP_RD_VOLSER	VOLSER of requested UCB, see Nqxp_OP_Ucb@. Only valid when Nqxp_SF1_ENQ is set.
22	(16)	SIGNED	2	NQXP_RD_MASID	Request MASID value
24	(18)	ADDRESS	4	NQXP_RD_MTCB	Request MTCB value
28	(1C)	BITSTRING	1	NQXP_RD_RET(0)	Request RET value, see Nqxp_kRET values
		.... .1..		NQXP_RD_RET1	"X'04'" Maps to PELRET1
		.... ..1.		NQXP_RD_RET2	"X'02'" Maps to PELRET2
		.... ...1		NQXP_RD_RET3	"X'01'" Maps to PELRET3
29	(1D)	CHARACTER	3		Reserved
32	(20)	CHARACTER	8	NQXP_RD_JOBNAME	Requester's Jobname
40	(28)	CHARACTER	8	NQXP_RD_SYSNAME	Requester's Sysname
48	(30)	CHARACTER	8	NQXP_STATEFLAGS(0)	ENQ/DEQ request state flags, these values cannot be changed
48	(30)	BITSTRING	1	NQXP_STATEFLAGS1(0)	First byte of state flags
		1...		NQXP_SF1_ENQ	"X'80'" When 1, request is ENQ/RESERVE, when 0, request is DEQ. If Nqxp_SF1_ISGENQ is set then when 1, ISGENQ REQUEST=OBTAIN or CHANGE, when 0, REQUEST=RELEASE. See Nqxp_SF2_Change to distinguish between ISGENQ REQUEST=OBTAIN and REQUEST=CHANGE.
		.1..		NQXP_SF1_RNLEQNO	"X'40'" RNL=NO was specified on the request: a change to the scope or UCB@ by the exit will not be honored
		..1.		NQXP_SF1_AUTHORIZED	"X'20'" Caller is authorized
		...1		NQXP_SF1_SHARE	"X'10'" For ENQ/RESERVE requests, when 1 request is for shared access, when 0, request is for exclusive access
		.... 1...		NQXP_SF1_MATCHTASK	"X'08'" When 1, request specified MASID/MTCB
		.... .1..		NQXP_SF1_STEPMUSTCOMPLETE	"X'04'" When 1, ENQ request specified SMC=YES
		.... .1..		NQXP_SF1_RESETMUSTCOMPLETE	"X'04'" When 1, DEQ request specified RMC=YES

Table 903. Structure NQXP (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
		....	..1.		NQXP_SF1_LINKAGE	"X'02'" When 1, request is PC entered, When 0, request is SVC entered. As ISGENQ requests are all PC entered, this bit will be 1 for all ISGENQ requests.
		....	...1		NQXP_SF1_ISGENQ	"X'01'" When 1, request is ISGENQ request
49	(31)	BITSTRING	1...	1	NQXP_STATEFLAGS2(0)	State flags byte two
			1...		NQXP_SF2_ISGENQCONDYES	"X'80'" When 1, request is a conditional ISGENQ request (ISGENQ COND=YES)
		..1.	....		NQXP_SF2_CHANGE	"X'20'" When 1, request is a change (i.e. ENQ RET=CHNG or ISGENQ REQUEST=CHANGE).
		...1	....		NQXP_SF2_TEST_YES	"X'10'" When 1, ISGENQ with TEST=YES. When 0, Not ISGENQ with TEST=YES (i.e. TEST=NO if Nqxp_SF1_ISGENQ is set).
		....	1...		NQXP_SF2_CONTENTIONACT_FAIL	"X'08'" When 1, ISGENQ with CONTENTIONACT=FAIL. When 0, not CONTENTIONACT=FAIL (i.e. CONTENTIONACT=WAIT if Nqxp_SF1_ISGENQ is set and Nqxp_SF2_TEST_YES is off).
		....	.1..		NQXP_SF2_ECB	"X'04'" When 1, ECB keyword specified (i.e. ISGENQ WAITTYPE=ECB or or ENQ with ECB). When 0, No ECB specified (i.e. WAITTYPE=SUSPEND if Nqxp_SF1_ISGENQ is set and Nqxp_SF2_TEST_YES and Nqxp_SF2_CONTENTIONACT_FAIL are off).
		....	..1.		NQXP_SF2_CHANGETOSHARED	"X'02'" When 1, ISGENQ REQUEST=CHANGE specified CONTROL=SHARED. If the request is successful, the requester will be converted from an exclusive owner to a shared owner. Only valid when Nqxp_SF2_Change is 1.
50	(32)	CHARACTER		6		Reserved
56	(38)	CHARACTER		20	NQXP_ORIGINALPARAMETERS(0)	Original parameters specified on the request
56	(38)	CHARACTER		8	NQXP_OP_QNAME	Original request QNAME
64	(40)	ADDRESS		4	NQXP_OP_RNAME@	Pointer to original request RNAME
68	(44)	BITSTRING		1	NQXP_OP_RNAMELEN	Length of original request RNAME. When 0, request is a generic DEQ
69	(45)	BITSTRING		1	NQXP_OP_SCOPE	Original request scope, see Nqxp_kScope values
70	(46)	CHARACTER		2		Reserved

ISGYNQXP mapping

Table 903. Structure NQXP (continued)

Offset	Offset	Type	Len	Name(Dim)	Description
Dec	Hex				
72	(48)	ADDRESS	4	NQXP_OP_UCB@	Pointer to original request UCB (set for RESERVE). Only valid when Nqxp_SF1_ENQ is set
76	(4C)	CHARACTER	4	NQXP_REQUESTFLAGS(0)	Request flags
76	(4C)	BITSTRING	1	NQXP_REQUESTFLAGS1(0)	First byte of request flags
		1...		NQXP_RF1_BYPASSRNL	"X'80'" When 1, request that RNL processing is to be bypassed
		.1..		NQXP_RF1_CHANGEQNAME	"X'40'" When 1, request that the QNAME be changed
		..1.		NQXP_RF1_CHANGENAME	"X'20'" When 1, request that the RNAME be changed
		...1		NQXP_RF1_CHANGESCOPE	"X'10'" When 1, request that the Scope be changed
		.... 1...		NQXP_RF1_CHANGEUCB@	"X'08'" When 1, request that the UCB address be changed
77	(4D)	CHARACTER	3		Reserved
80	(50)	CHARACTER	4		Reserved
84	(54)	CHARACTER	20	NQXP_CURRENTPARAMETERS(0)	Parameters as changed by the exit routines
84	(54)	CHARACTER	8	NQXP_CP_QNAME	Current request QNAME
92	(5C)	ADDRESS	4	NQXP_CP_RNAME@	Pointer to current request RNAME
96	(60)	BITSTRING	1	NQXP_CP_RNAMELEN	Length of current request RNAME
97	(61)	BITSTRING	1	NQXP_CP_SCOPE	Current request scope, see Nqxp_kScope values
98	(62)	CHARACTER	2		Reserved
100	(64)	ADDRESS	4	NQXP_CP_UCB@	Current request UCB address
104	(68)	CHARACTER	8	NQXP_REQUESTDATA2(0)	More request data
104	(68)	ADDRESS	4	NQXP_RD_NSI@(0)	Requester's next sequential instruction address, when ENQ/DEQ ends, this is address of the next instruction in the calling program that will be executed
		1...		NQXP_RD_AMODE31	"X'80'" When set, ENQ caller is AMODE 31
108	(6C)	CHARACTER	4		Reserved
112	(70)	ADDRESS	4	NQXP_WORKAREA@	Pointer to a 4K work area, usable by exit routines
116	(74)	CHARACTER	16	NQXP_REQUESTTOKEN	Unique token for this request, all exits driven for this request can be identified by this token
132	(84)	CHARACTER	4		Reserved
136	(88)	CHARACTER	1	NQXP_END(0)	End of NQXP
NQXP Constants					
136	(88)	X'D8E7D7'	0	NQXP_KID	"C'NQXP'" Used to identify control block
136	(88)	X'0'	0	NQXP_KVERSION#0	"0" Version 0 - base
136	(88)	X'1'	0	NQXP_KVERSION#1	"1" Version 1 - ISGNQXITFAST support available
136	(88)	X'2'	0	NQXP_KVERSION#2	"2" Version constant - HBB7709
136	(88)	X'3'	0	NQXP_KVERSION#3	"3" Version constant- HBB7750
136	(88)	X'3'	0	NQXP_KCURRENTVERSION	"3" Current version

Table 903. Structure NQXP (continued)

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
136	(88)	X'1'	0	NQXP_KSCOPESYSTEM	"1" Scope=System
136	(88)	X'2'	0	NQXP_KSCOPESYSTEMS	"2" Scope=Systems
136	(88)	X'2'	0	NQXP_KSCOPESYSPLEX	"2" Scope=Sysplex
136	(88)	X'0'	0	NQXP_KRETNONE	"0" Ret=None
136	(88)	X'1'	0	NQXP_KRETHAVE	"1" Ret=Have
136	(88)	X'2'	0	NQXP_KRETCHNG	"2" Ret=Chng
136	(88)	X'3'	0	NQXP_KRETUSE	"3" Ret=Use
136	(88)	X'7'	0	NQXP_KRETTEST	"7" Ret=Test
136	(88)	X'100'	0	NQXP_KRNAMELEN	"256" Maximum RName length
136	(88)	X'288'	0	NQXP_KLENGTH	"648" Maximum length Nqxp, parameter list and 2 RNames
136	(88)	X'88'	0	NQXP_LEN	"*-NQXP"

Table 904. Cross Reference for ISGYNQXP

Name	Offset	Hex	Tag
NQXP	0		
NQXP_CP_QNAME	54		
NQXP_CP_RNAME@	5C		
NQXP_CP_RNAMELEN	60		
NQXP_CP_SCOPE	61		
NQXP_CP_UCB@	64		
NQXP_CURRENTPARAMETERS	54		
NQXP_END	88		
NQXP_ID	0		
NQXP_KCURRENTVERSION	88		3
NQXP_KID	88	D8E7D7	
NQXP_KLENGTH	88	288	
NQXP_KRETCHNG	88	2	
NQXP_KRETHAVE	88	1	
NQXP_KRETNONE	88	0	
NQXP_KRETTEST	88	7	
NQXP_KRETUSE	88	3	
NQXP_KRNAMELEN	88	100	
NQXP_KSCOPESYSPLEX	88	2	
NQXP_KSCOPESYSTEM	88	1	
NQXP_KSCOPESYSTEMS	88	2	
NQXP_KVERSION#0	88	0	
NQXP_KVERSION#1	88	1	
NQXP_KVERSION#2	88	2	
NQXP_KVERSION#3	88	3	
NQXP_LEN	88	88	
NQXP_OP_QNAME	38		
NQXP_OP_RNAME@	40		
NQXP_OP_RNAMELEN	44		
NQXP_OP_SCOPE	45		
NQXP_OP_UCB@	48		
NQXP_ORIGINALPARAMETERS	38		
NQXP_RD_AMODE31	68	80	

ISGYNQXP mapping

Table 904. Cross Reference for ISGYNQXP (continued)

Name	Offset	Hex Tag
NQXP_RD_ASCB@	8	
NQXP_RD_JOBNAME	20	
NQXP_RD_MASID	16	
NQXP_RD_MTCB	18	
NQXP_RD_NSI@	68	
NQXP_RD_RET	1C	
NQXP_RD_RET1	1C	4
NQXP_RD_RET2	1C	2
NQXP_RD_RET3	1C	1
NQXP_RD_SYSNAME	28	
NQXP_RD_TCB@	C	
NQXP_RD_VOLSER	10	
NQXP_REQUESTDATA	8	
NQXP_REQUESTDATA2	68	
NQXP_REQUESTFLAGS	4C	
NQXP_REQUESTFLAGS1	4C	
NQXP_REQUESTTOKEN	74	
NQXP_RF1_BYPASSRNL	4C	80
NQXP_RF1_CHANGEQNAME	4C	40
NQXP_RF1_CHANGENAME	4C	20
NQXP_RF1_CHANGESCOPE	4C	10
NQXP_RF1_CHANGEUCB@	4C	8
NQXP_SF1_AUTHORIZED	30	20
NQXP_SF1_ENQ	30	80
NQXP_SF1_ISGENQ	30	1
NQXP_SF1_LINKAGE	30	2
NQXP_SF1_MATCHTASK	30	8
NQXP_SF1_RESETMUSTCOMPLETE	30	4
NQXP_SF1_RNLEQNO	30	40
NQXP_SF1_SHARE	30	10
NQXP_SF1_STEPMUSTCOMPLETE	30	4
NQXP_SF2_CHANGE	31	20
NQXP_SF2_CHANGETOSHARED	31	2
NQXP_SF2_CONTENTIONACT_FAIL	31	8
NQXP_SF2_ECB	31	4
NQXP_SF2_ISGENQCONDYES	31	80
NQXP_SF2_TEST_YES	31	10
NQXP_STATEFLAGS	30	
NQXP_STATEFLAGS1	30	
NQXP_STATEFLAGS2	31	
NQXP_VERSION	4	
NQXP_WORKAREA@	70	

Chapter 247. ISGYQCBP Information

ISGYQCBP Programming Interface Information

ISGYQCBP is a programming interface.

ISGYQCBP Heading Information

Common Name: QCB Destroy Exit Parameter List
Macro ID: ISGYQCBP
DSECT Name: QCBP
Owning Component: Global Resource Serialization (SCSDS)
Eye-Catcher ID: QCBP
Offset: 0
Length: 4
Storage Attributes: Subpool: 127 in the GRS private area
Key: 0
Residency: Above 16M line
Size: QCBP -- X'0050' bytes
Created by: ISGGNX
Pointed to by: R1 points to the QCBP on entry to the exit routine
Serialization: N/A
Function: The QCBP parameter list describes a resource for which the last requester on this system has been DEQueued. The exit is only called for SCOPE=SYSTEM(S) resources that are not global.

ISGYQCBP mapping

Table 905. Structure QCBP

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	QCBP	
0	(0)	CHARACTER	40	QCBP_BASIC(0)	QCBP Basic Section
0	(0)	CHARACTER	4	QCBP_ID	Eyecatcher
4	(4)	BITSTRING	1	QCBP_VERSION	QCBP version
5	(5)	CHARACTER	3		Reserved
8	(8)	ADDRESS	4	QCBP_RNAME@	Pointer to RName
12	(C)	CHARACTER	14		Reserved
26	(1A)	BITSTRING	1	QCBP_RFLGS(0)	Resource description flags
		1...		QCBP_SYS	"X'80'" SCOPE=SYSTEM
		.1..		QCBP_SYSS	"X'40'" SCOPE=SYSTEMS

ISGYQCBP mapping

Table 905. Structure QCBP (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
27	(1B)	BITSTRING	1	QCBP_ER_FLAGS(0)	***** ** ***** Exit Caching: The following bits are used to determine if the ISGENDOFLQCB exit should be called again for a particular resource. The protocol for setting these bits is as described: To indicate the EndofLqcb exit should be called you must code: 0I Qcbp_ER_FLags,Qcbp_ER_InterestInLQCB+ Qcbp_ER_CallLQCBForThisResource To indicate the EndofLqcb exit should NOT be called you must code: 0I Qcbp_ER_FLags,Qcbp_ER_InterestInLQCB Turning on these bits in any other combination other than what is describe will result in a call to the ISGEndoflqcb exit. NOTE: Adding or activating an ISGENDOFLQCB exit will result in the clearing of the GRS Exit Cache. ***** ***** ** *****
		1...		QCBP_ER_INTERESTINLQCB	"X'80'"
		.1..		QCBP_ER_CALLLQCBFORTHISRESOURCE	"X'40'"
28	(1C)	SIGNED	2	QCBP_RNAML	RName length
30	(1E)	CHARACTER	2		Reserved
32	(20)	CHARACTER	8	QCBP_QNAME	Resource QName
40	(28)	ADDRESS	4	QCBP_WORKAREA@	Pointer to a 4K work area, usable by exit routines
44	(2C)	CHARACTER	4		Reserved
48	(30)	CHARACTER	32	QCBP_RSCTOKEN	Token unique to this resource pending deletion. Valid for Qcbp_Version of Qcbp_kVersion#2 or higher
80	(50)	CHARACTER	1	QCBP_END(0)	
QCBP Constants					
80	(50)	X'C3C2D7'	0	QCBP_KID	"C'QCBP'" Used to identify control block
80	(50)	X'1'	0	QCBP_KVERSION#1	"1" Version - HBB7705
80	(50)	X'2'	0	QCBP_KVERSION#2	"2" Version - HBB7740
80	(50)	X'2'	0	QCBP_KCURRENTVERSION	"2" Current version
80	(50)	X'E0'	0	QCBP_KRFLGSMASK	"224" Mask to remove extraneous data from QCBRFLGS
80	(50)	X'150'	0	QCBP_KLENGTH	"336" Maximum of length Qcbp parameter list
80	(50)	X'50'	0	QCBP_LEN	"*-QCBP"

Table 906. Cross Reference for ISGYQCBP

Name	Offset	Hex Tag
QCBP	0	
QCBP_BASIC	0	
QCBP_END	50	
QCBP_ER_CALLLQCBFORTHISRESOURCE	1B	40
QCBP_ER_FLAGS	1B	
QCBP_ER_INTERESTINLQCB	1B	80
QCBP_ID	0	
QCBP_KCURRENTVERSION	50	2
QCBP_KID	50	C3C2D7
QCBP_KLENGTH	50	150
QCBP_KRFLGSMASK	50	E0
QCBP_KVERSION#1	50	1
QCBP_KVERSION#2	50	2
QCBP_LEN	50	50
QCBP_QNAME	20	
QCBP_RFLGS	1A	
QCBP_RNAME@	8	
QCBP_RNAML	1C	
QCBP_RSCTOKEN	30	
QCBP_SYS	1A	80
QCBP_SYSS	1A	40
QCBP_VERSION	4	
QCBP_WORKAREA@	28	

ISGYQCBP mapping

Chapter 248. ISGYQUAA Information

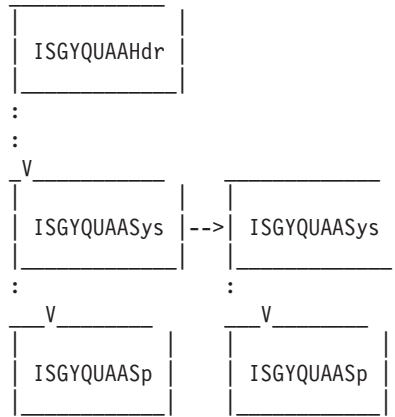
ISGYQUAA Programming Interface Information

ISGYQUAA is a programming interface.

ISGYQUAA Heading Information

Common Name: ISGQUERY Answer Area
Macro ID: ISGYQUAA
DSECT Name: ISGYQUAAHdr ISGYQUAARs ISGYQUAARsx ISGYQUAARq ISGYQUAARqx
ISGYQUAASys ISGYQUAASp
Owning Component: Global Resource Serialization (SCSDS)
Eye-Catcher ID: ISGYQUAA
Offset: X'0000' bytes
Length: X'0008' bytes
Storage Attributes: Subpool: User-supplied
Key: User-supplied
Residency: User-supplied
Size: Variable
ISGYQUAAHDRBASE -- X'0028' bytes
ISGYQUAARSBASE -- X'0050' bytes
ISGYQUAARSXBASE -- X'0030' bytes
ISGYQUAARQBASE -- X'0040' bytes
ISGYQUAARQXBASE -- X'0068' bytes
ISGYQUAASYSBASE -- X'0028' bytes
ISGYQUAASPBASE -- X'0010' bytes
ISGYQUAARSXFULL2 -- X'0030' bytes
ISGYQUAARQXFULL2 -- X'0088' bytes
ISGYQUAARQXFULL -- X'0068' bytes
ISGYQUAAHDR -- X'0028' bytes
ISGYQUAARS -- X'0050' bytes
ISGYQUAARSX -- X'0030' bytes
ISGYQUAARQ -- X'0040' bytes
ISGYQUAARQX -- X'0088' bytes
ISGYQUAASYS -- X'0028' bytes
ISGYQUAASP -- X'0010' bytes
Created by: Created by user and passed as parameter on ANSAREA keyword
for ISGQUERY macro.
Pointed to by: ANSAREA_ADDR3164 field in ISGQUERY parameter list
Serialization: None required

the following format. Note: Use addresses to locate each record-- the offset to the next record is not guaranteed because the length and order of the records may change. length and order of the records may change.



ISGYQUAA mapping

Table 907. Structure ISGYQUAAHDR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ISGYQUAAHDR	Resource Data Record
0	(0)	CHARACTER	40	ISGYQUAAHDRMAX(0)	The max length map
0	(0)	CHARACTER	8	ISGYQUAAHDRID	
8	(8)	SIGNED	2	ISGYQUAAHDRVERSION	
10	(A)	SIGNED	2	ISGYQUAAHDRREQINFO	
12	(C)	SIGNED	4	ISGYQUAAHDRNUMRECORDS	
16	(10)	ADDRESS	8	ISGYQUAAHDRFIRSTRECORD(0)	
16	(10)	CHARACTER	4		
20	(14)	ADDRESS	4	ISGYQUAAHDRFIRSTRECORD31	
24	(18)	SIGNED	8	ISGYQUAAHDRTOTALLEN(0)	
24	(18)	CHARACTER	4		
28	(1C)	SIGNED	4	ISGYQUAAHDRTOTALLEN31	
32	(20)	CHARACTER	8		
ISGYQUAAHDR Constants					
32	(20)	X'E2C7E8'	0	ISGYQUAAHDR_KID_0T03	"C'ISGY'" This is the first 4-byte segment of an 8-byte constant.
32	(20)	X'E4C1C1'	0	ISGYQUAAHDR_KID_4T07	"C'QUAA'" This is the second 4-byte segment of an 8-byte constant.
32	(20)	X'1'	0	ISGYQUAAHDR_KMAXVERSION	"1"
32	(20)	X'1'	0	ISGYQUAAHDR_KHBB7709	"1"
32	(20)	X'1'	0	ISGYQUAAHDR_KVERSION1	"1"
32	(20)	X'1'	0	ISGYQUAAHDR_KREQINFO_QSCAN	"1"
32	(20)	X'2'	0	ISGYQUAAHDR_KREQINFO_ENQSTATS	"2"
32	(20)	X'28'	0	ISGYQUAAHDR_LEN	"*-ISGYQUAAHDR"

ISGYQUAA mapping

Table 908. Structure ISGYQUAARS

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ISGYQUAARS	Resource Data Record
0	(0)	CHARACTER	80	ISGYQUAARSMAX(0)	The max length map
0	(0)	SIGNED	2	ISGYQUAARSVERSION	
2	(2)	BITSTRING	1	ISGYQUAARSFLAGS1(0)	
		1... ..		ISGYQUAARSRQSOMITTED	"X'80'"
		.1.. ..		ISGYQUAARSRSXVALID	"X'40'"
3	(3)	CHARACTER	5		
8	(8)	ADDRESS	8	ISGYQUAARSNEXT(0)	
8	(8)	CHARACTER	4		
12	(C)	ADDRESS	4	ISGYQUAARSNEXT31	
16	(10)	ADDRESS	8	ISGYQUAARSFIRSTRQ(0)	
16	(10)	CHARACTER	4		
20	(14)	ADDRESS	4	ISGYQUAARSFIRSTRQ31	
24	(18)	ADDRESS	8	ISGYQUAARSRNAME(0)	
24	(18)	CHARACTER	4		
28	(1C)	ADDRESS	4	ISGYQUAARSRNAME31	
32	(20)	CHARACTER	8	ISGYQUAARSQNAME	
40	(28)	SIGNED	4	ISGYQUAARSNUMRQ	
44	(2C)	SIGNED	4	ISGYQUAARSTOTALRQ	
48	(30)	SIGNED	4	ISGYQUAARSNUMOWNERS	
52	(34)	SIGNED	4	ISGYQUAARSNUMWAITERS	
56	(38)	SIGNED	4	ISGYQUAARSNUMSWAITERS	
60	(3C)	SIGNED	4	ISGYQUAARSNUMEUSERS	
64	(40)	SIGNED	4	ISGYQUAARSNUMSUSERS	
68	(44)	SIGNED	2	ISGYQUAARSRNAMELEN	
70	(46)	BITSTRING	1	ISGYQUAARSSCOPE	
71	(47)	CHARACTER	1		
72	(48)	ADDRESS	8	ISGYQUAARSRSX(0)	
72	(48)	CHARACTER	4		
76	(4C)	ADDRESS	4	ISGYQUAARSRSX31	
ISGYQUAARS Constants					
76	(4C)	X'2'	0	ISGYQUAARS_KMAXVERSION	"2"
76	(4C)	X'1'	0	ISGYQUAARS_KHBB7709	"1"
76	(4C)	X'2'	0	ISGYQUAARS_KHBB7740	"2"
76	(4C)	X'1'	0	ISGYQUAARS_KVERSION1	"1"
76	(4C)	X'2'	0	ISGYQUAARS_KVERSION2	"2"
76	(4C)	X'50'	0	ISGYQUAARS_LEN	"*-ISGYQUAARS"

Table 909. Structure ISGYQUAARSX

Offset	Offset				
Dec	Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ISGYQUAARSX	Resource Data Record Ext.
0	(0)	CHARACTER	48	ISGYQUAARSXMAX(0)	The max length map
0	(0)	SIGNED	2	ISGYQUAARSXVERSION	
2	(2)	BITSTRING	1	ISGYQUAARSXFLAGS1(0)	
		1... ..		ISGYQUAARSXRSTOKENVALID	"X'80'"
3	(3)	CHARACTER	1		
4	(4)	CHARACTER	32	ISGYQUAARSXRSTOKEN	
36	(24)	CHARACTER	12		
ISGYQUAARSx Constants					

Table 909. Structure ISGYQUAARSX (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
36	(24)	X'1'		0	ISGYQUAARSX_KMAXVERSION	"1"
36	(24)	X'1'		0	ISGYQUAARSX_KHBB7740	"1"
36	(24)	X'1'		0	ISGYQUAARSX_KVERSION1	"1"
36	(24)	X'30'		0	ISGYQUAARSX_LEN	"*-ISGYQUAARSX"

Table 910. Structure ISGYQUAARQ

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
0	(0)	STRUCTURE		0	ISGYQUAARQ	Requester Data Record
0	(0)	CHARACTER		64	ISGYQUAARQMAX(0)	The max length map
0	(0)	SIGNED		2	ISGYQUAARQVERSION	
2	(2)	BITSTRING		1	ISGYQUAARQFLAGS1(0)	
		1... ..			ISGYQUAARQCONTROL	"X'80'"
		.1.. ..			ISGYQUAARQRESERVE	"X'40'"
		..1.			ISGYQUAARQRESERVECONVERTED	"X'20'"
		...1			ISGYQUAARQSYNCHRES	"X'10'"
		.... 1...			ISGYQUAARQOWNER	"X'08'"
		.... .1..			ISGYQUAARQMATU	"X'04'"
		.... ..1.			ISGYQUAARQPOSTED	"X'02'"
		.... ...1			ISGYQUAARQMISC64VALID	"X'01'"
3	(3)	BITSTRING		1	ISGYQUAARQFLAGS2(0)	
		1... ..			ISGYQUAARQRQXVALID	"X'80'"
4	(4)	ADDRESS		4	ISGYQUAARQTCB	
8	(8)	ADDRESS		8	ISGYQUAARQNEXT(0)	
8	(8)	CHARACTER		4		
12	(C)	ADDRESS		4	ISGYQUAARQNEXT31	
16	(10)	ADDRESS		8	ISGYQUAARQRQX(0)	
16	(10)	CHARACTER		4		
20	(14)	ADDRESS		4	ISGYQUAARQRQX31	
24	(18)	CHARACTER		32	ISGYQUAARQENQTOKEN	
56	(38)	CHARACTER		8		
ISGYQUAARQ Constants						
56	(38)	X'1'		0	ISGYQUAARQ_KMAXVERSION	"1"
56	(38)	X'1'		0	ISGYQUAARQ_KHBB7709	"1"
56	(38)	X'1'		0	ISGYQUAARQ_KVERSION1	"1"
56	(38)	X'40'		0	ISGYQUAARQ_LEN	"*-ISGYQUAARQ"

Table 911. Structure ISGYQUAARQX

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
0	(0)	STRUCTURE		0	ISGYQUAARQX	Requester Data Record Extension
0	(0)	CHARACTER		136	ISGYQUAARQXMAX(0)	The max len map
0	(0)	CHARACTER		104	ISGYQUAARQXFULL2FULL(0)	
0	(0)	SIGNED		2	ISGYQUAARQXVERSION	
2	(2)	BITSTRING		1	ISGYQUAARQXFLAGS1(0)	
		1... ..			ISGYQUAARQXNQXITCHANGED	"X'80'"
		.1.. ..			ISGYQUAARQXBATCHCHANGED	"X'40'"
		..1.			ISGYQUAARQXRNLCHANGED	"X'20'"
		...1			ISGYQUAARQXORIGQNAMEVALID	"X'10'"

ISGYQUAA mapping

Table 911. Structure ISGYQUAARQX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... 1...		ISGYQUAARQXORIGRNAMEVALID	"X'08'"
		.... .1..		ISGYQUAARQXORIGUCB@VALID	"X'04'"
		.... ..1.		ISGYQUAARQXORIGSCOPEVALID	"X'02'"
		.... ...1		ISGYQUAARQXSERVICEASIDVALID	"X'01'"
3	(3)	BITSTRING	1	ISGYQUAARQXFLAGS2(0)	
		1...		ISGYQUAARQXMUSTCOMPLETE	"X'80'"
		.1..		ISGYQUAARQXAUTHORIZED	"X'40'"
		..1.		ISGYQUAARQXALTSEREXTENDED	"X'20'"
		...1		ISGYQUAARQXMATCHINGTASK	"X'10'"
		.... 1...		ISGYQUAARQXECBREQUEST	"X'08'"
		.... .1..		ISGYQUAARQXUSERDATAVALID	"X'04'"
		.... ..1.		ISGYQUAARQXUSERDATAOMITTED	"X'02'"
4	(4)	CHARACTER	2		
6	(6)	CHARACTER	42	ISGYQUAARQXREQUESTERDATA(0)	
6	(6)	SIGNED	2	ISGYQUAARQXASID	
8	(8)	CHARACTER	8	ISGYQUAARQXSTOKEN	
16	(10)	CHARACTER	16	ISGYQUAARQXTTOKEN	
32	(20)	CHARACTER	8	ISGYQUAARQXJOBNAME	
40	(28)	CHARACTER	8	ISGYQUAARQXSYSNAME	
48	(30)	ADDRESS	4	ISGYQUAARQXMTCB	
52	(34)	SIGNED	2	ISGYQUAARQXMASID	
54	(36)	SIGNED	2	ISGYQUAARQXSERVICEASID	
56	(38)	ADDRESS	4	ISGYQUAARQXECB(0)	
56	(38)	ADDRESS	4	ISGYQUAARQXSVRB	
60	(3C)	ADDRESS	4	ISGYQUAARQXUCB	
64	(40)	CHARACTER	4	ISGYQUAARQXDEVICENUM	
68	(44)	CHARACTER	4		
72	(48)	CHARACTER	8	ISGYQUAARQXORIGQNAME	
80	(50)	ADDRESS	8	ISGYQUAARQXORIGRNAME(0)	
80	(50)	CHARACTER	4		
84	(54)	ADDRESS	4	ISGYQUAARQXORIGRNAME31	
88	(58)	ADDRESS	4	ISGYQUAARQXORIGUCB@	
92	(5C)	BITSTRING	1	ISGYQUAARQXORIGRNAMELEN	
93	(5D)	BITSTRING	1	ISGYQUAARQXORIGSCOPE	
94	(5E)	SIGNED	2	ISGYQUAARQXUSERDATALEN	
96	(60)	ADDRESS	8	ISGYQUAARQXUSERDATA(0)	
96	(60)	CHARACTER	4		
100	(64)	ADDRESS	4	ISGYQUAARQXUSERDATA31	
104	(68)	CHARACTER	16	ISGYQUAARQXENQTIME	
120	(78)	CHARACTER	16		
ISGYQUAARQX Constants					
120	(78)	X'2'	0	ISGYQUAARQX_KMAXVERSION	"2"
120	(78)	X'1'	0	ISGYQUAARQX_KHBB7709	"1"
120	(78)	X'2'	0	ISGYQUAARQX_KHBB7740	"2"
120	(78)	X'1'	0	ISGYQUAARQX_KVERSION1	"1"
120	(78)	X'2'	0	ISGYQUAARQX_KVERSION2	"2"
120	(78)	X'88'	0	ISGYQUAARQX_LEN	"*-ISGYQUAARQX"

Table 912. Structure ISGYQUAASYS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ISGYQUAASYS	REQINFO=ENQSTATS system data
0	(0)	CHARACTER	40	ISGYQUAASYSMAX(0)	The max length map
0	(0)	SIGNED	2	ISGYQUAASYSVERSION	
2	(2)	BITSTRING	1	ISGYQUAASYSFLAGS1(0)	
		1... ..		ISGYQUAASYSAUTHORIZED	"X'80'"
3	(3)	CHARACTER	5		
8	(8)	ADDRESS	8	ISGYQUAASYSNEXT(0)	
8	(8)	CHARACTER	4		
12	(C)	ADDRESS	4	ISGYQUAASYSNEXT31	
16	(10)	ADDRESS	8	ISGYQUAASYS SP(0)	
16	(10)	CHARACTER	4		
20	(14)	ADDRESS	4	ISGYQUAASYS SP31	
24	(18)	CHARACTER	8	ISGYQUAASYSPEAKENQDATA(0)	
24	(18)	SIGNED	4	ISGYQUAASYSPEAKENQCOUNT	
28	(1C)	SIGNED	2	ISGYQUAASYSPEAKENQASID	
30	(1E)	CHARACTER	2		
32	(20)	SIGNED	4	ISGYQUAASYS ENQMAX	
36	(24)	CHARACTER	4		
ISGYQUAASys Constants					
36	(24)	X'1'	0	ISGYQUAASYS_KMAXVERSION	"1"
36	(24)	X'1'	0	ISGYQUAASYS_KHBB7730	"1"
36	(24)	X'1'	0	ISGYQUAASYS_KVERSION1	"1"
36	(24)	X'28'	0	ISGYQUAASYS_LEN	"*-ISGYQUAASYS"

Table 913. Structure ISGYQUAASP

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ISGYQUAASP	REQINFO=ENQSTATS address space specific data
0	(0)	CHARACTER	16	ISGYQUAASPMAX(0)	The max length map
0	(0)	SIGNED	2	ISGYQUAASPVERSION	
2	(2)	CHARACTER	2		
4	(4)	SIGNED	4	ISGYQUAASPCURRENQCOUNT	
8	(8)	SIGNED	4	ISGYQUAASPPEAKENQCOUNT	
12	(C)	SIGNED	4	ISGYQUAASPENQMAX	
ISGYQUAASp Constants					
12	(C)	X'1'	0	ISGYQUAASP_KMAXVERSION	"1"
12	(C)	X'1'	0	ISGYQUAASP_KHBB7730	"1"
12	(C)	X'1'	0	ISGYQUAASP_KVERSION1	"1"
12	(C)	X'20'	0	ISGYQUAAUSERDATA_KINITIALLEN	"32" The initial length of ISGYQUAAUserdata
12	(C)	X'10'	0	ISGYQUAASP_LEN	"*-ISGYQUAASP"

Table 914. Cross Reference for ISGYQUAA

Name	Offset	Hex	Tag
ISGYQUAAHDR	0		
ISGYQUAAHDR_KHBB7709	20		1

ISGYQUAA mapping

Table 914. Cross Reference for ISGYQUAA (continued)

Name	Offset	Hex Tag
ISGYQUAAHDR_KID_0T03	20	E2C7E8
ISGYQUAAHDR_KID_4T07	20	E4C1C1
ISGYQUAAHDR_KMAXVERSION	20	1
ISGYQUAAHDR_KREQINFO_ENQSTATS	20	2
ISGYQUAAHDR_KREQINFO_QSCAN	20	1
ISGYQUAAHDR_KVERSION1	20	1
ISGYQUAAHDR_LEN	20	28
ISGYQUAAHDRFIRSTRECORD	10	
ISGYQUAAHDRFIRSTRECORD31	14	
ISGYQUAAHDRID	0	
ISGYQUAAHDRMAX	0	
ISGYQUAAHDRNUMRECORDS	C	
ISGYQUAAHDRREQINFO	A	
ISGYQUAAHDRTOTALLLEN	18	
ISGYQUAAHDRTOTALLLEN31	1C	
ISGYQUAAHDRVERSION	8	
ISGYQUAARQ	0	
ISGYQUAARQ_KHBB7709	38	1
ISGYQUAARQ_KMAXVERSION	38	1
ISGYQUAARQ_KVERSION1	38	1
ISGYQUAARQ_LEN	38	40
ISGYQUAARQCONTROL	2	80
ISGYQUAARQENQTOKEN	18	
ISGYQUAARQFLAGS1	2	
ISGYQUAARQFLAGS2	3	
ISGYQUAARQMATU	2	4
ISGYQUAARQMAX	0	
ISGYQUAARQMISC64VALID	2	1
ISGYQUAARQNEXT	8	
ISGYQUAARQNEXT31	C	
ISGYQUAARQOWNER	2	8
ISGYQUAARQPOSTED	2	2
ISGYQUAARQRESERVE	2	40
ISGYQUAARQRESERVECONVERTED	2	20
ISGYQUAARQRQX	10	
ISGYQUAARQRQXVALID	3	80
ISGYQUAARQRQX31	14	
ISGYQUAARQSYNCHRES	2	10
ISGYQUAARQTCB	4	
ISGYQUAARQVERSION	0	
ISGYQUAARQX	0	
ISGYQUAARQX_KHBB7709	78	1
ISGYQUAARQX_KHBB7740	78	2
ISGYQUAARQX_KMAXVERSION	78	2
ISGYQUAARQX_KVERSION1	78	1
ISGYQUAARQX_KVERSION2	78	2
ISGYQUAARQX_LEN	78	88
ISGYQUAARQXALTSEREXTENDED	3	20
ISGYQUAARQXASID	6	

Table 914. Cross Reference for ISGYQUAA (continued)

Name	Offset	Hex Tag
ISGYQUAARQXAUTHORIZED	3	40
ISGYQUAARQXBATCHCHANGED	2	40
ISGYQUAARQXDEVICENUM	40	
ISGYQUAARQXECB	38	
ISGYQUAARQXECBREQUEST	3	8
ISGYQUAARQXENQTIME	68	
ISGYQUAARQXFLAGS1	2	
ISGYQUAARQXFLAGS2	3	
ISGYQUAARQXFULL2FULL	0	
ISGYQUAARQXJOBNAME	20	
ISGYQUAARQXMASID	34	
ISGYQUAARQXMATCHINGTASK	3	10
ISGYQUAARQXMAX	0	
ISGYQUAARQXMTCB	30	
ISGYQUAARQXMUSTCOMPLETE	3	80
ISGYQUAARQXNQTCHANGED	2	80
ISGYQUAARQXORIGQNAME	48	
ISGYQUAARQXORIGQNAMEVALID	2	10
ISGYQUAARQXORIGRNAME	50	
ISGYQUAARQXORIGRNAMELEN	5C	
ISGYQUAARQXORIGRNAMEVALID	2	8
ISGYQUAARQXORIGRNAME31	54	
ISGYQUAARQXORIGSCOPE	5D	
ISGYQUAARQXORIGSCOPEVALID	2	2
ISGYQUAARQXORIGUCB@	58	
ISGYQUAARQXORIGUCB@VALID	2	4
ISGYQUAARQXREQUESTERDATA	6	
ISGYQUAARQXRNLCHANGED	2	20
ISGYQUAARQXSERVICEASID	36	
ISGYQUAARQXSERVICEASIDVALID	2	1
ISGYQUAARQXSTOKEN	8	
ISGYQUAARQXSVRB	38	
ISGYQUAARQXSYSNAME	28	
ISGYQUAARQXTTOKEN	10	
ISGYQUAARQXUCB	3C	
ISGYQUAARQXUSERDATA	60	
ISGYQUAARQXUSERDATALEN	5E	
ISGYQUAARQXUSERDATAOMITTED	3	2
ISGYQUAARQXUSERDATAVALID	3	4
ISGYQUAARQXUSERDATA31	64	
ISGYQUAARQXVERSION	0	
ISGYQUAARS	0	
ISGYQUAARS_KHBB7709	4C	1
ISGYQUAARS_KHBB7740	4C	2
ISGYQUAARS_KMAXVERSION	4C	2
ISGYQUAARS_KVERSION1	4C	1
ISGYQUAARS_KVERSION2	4C	2
ISGYQUAARS_LEN	4C	50
ISGYQUAARSFIRSTRQ	10	

ISGYQUAA mapping

Table 914. Cross Reference for ISGYQUAA (continued)

Name	Offset	Hex Tag
ISGYQUAARSFIRSTRQ31	14	
ISGYQUAARSFLAGS1	2	
ISGYQUAARSMAX	0	
ISGYQUAARSNEXT	8	
ISGYQUAARSNEXT31	C	
ISGYQUAARSNUMEUSERS	3C	
ISGYQUAARSNUMEWAITERS	34	
ISGYQUAARSNUMOWNERS	30	
ISGYQUAARSNUMRQ	28	
ISGYQUAARSNUMSUSERS	40	
ISGYQUAARSNUMSWAITERS	38	
ISGYQUAARSQNAME	20	
ISGYQUAARSRNAME	18	
ISGYQUAARSRNAMELEN	44	
ISGYQUAARSRNAME31	1C	
ISGYQUAARSRQSOMITTED	2	80
ISGYQUAARSRSX	48	
ISGYQUAARSRSXVALID	2	40
ISGYQUAARSRSX31	4C	
ISGYQUAARSSCOPE	46	
ISGYQUAARSTOTALRQ	2C	
ISGYQUAARSVERSION	0	
ISGYQUAARSX	0	
ISGYQUAARSX_KHBB7740	24	1
ISGYQUAARSX_KMAXVERSION	24	1
ISGYQUAARSX_KVERSION1	24	1
ISGYQUAARSX_LEN	24	30
ISGYQUAARSXFLAGS1	2	
ISGYQUAARSXMAX	0	
ISGYQUAARSXRCTOKEN	4	
ISGYQUAARSXRCTOKENVALID	2	80
ISGYQUAARSXVERSION	0	
ISGYQUAASP	0	
ISGYQUAASP_KHBB7730	C	1
ISGYQUAASP_KMAXVERSION	C	1
ISGYQUAASP_KVERSION1	C	1
ISGYQUAASP_LEN	C	10
ISGYQUAASPCURRENQCOUNT	4	
ISGYQUAASPENQMAX	C	
ISGYQUAASPMAX	0	
ISGYQUAASPPEAKENQCOUNT	8	
ISGYQUAASPVERSION	0	
ISGYQUAASYS	0	
ISGYQUAASYS_KHBB7730	24	1
ISGYQUAASYS_KMAXVERSION	24	1
ISGYQUAASYS_KVERSION1	24	1
ISGYQUAASYS_LEN	24	28
ISGYQUAASYSAUTHORIZED	2	80
ISGYQUAASYSENQMAX	20	

Table 914. Cross Reference for ISGYQUAA (continued)

Name	Offset	Hex Tag
ISGYQUAASYSFLAGS1	2	
ISGYQUAASYSMAX	0	
ISGYQUAASYSNEXT	8	
ISGYQUAASYSNEXT31	C	
ISGYQUAASYSPEAKENQASID	1C	
ISGYQUAASYSPEAKENQCOUNT	18	
ISGYQUAASYSPEAKENQDATA	18	
ISGYQUAASYSSP	10	
ISGYQUAASYSSP31	14	
ISGYQUAASYSVERSION	0	
ISGYQUAAUSERDATA_KINITIALLEN	C	20

ISGYQUAA mapping

Chapter 249. ISGYQUAC Information

ISGYQUAC Programming Interface Information

ISGYQUAC is a programming interface.

ISGYQUAC Heading Information

Common Name: ISGQUERY Answer area, Compatibility remap
Macro ID: ISGYQUAC
DSECT Name: ISGYQUAAHdr ISGYQUAARs ISGYQUAARsx ISGYQUAARq ISGYQUAARqx
ISGYQUAASys ISGYQUAASp IsgyQuaaLd IsgyQuaaLrd IsgyQuaaHdrUs IsgyQuaaUs
Owning Component: Global Resource Serialization (SCSDS)
Eye-Catcher ID: ISGYQUAA
Offset: X'0000' bytes
Length: X'0008' bytes
Storage Attributes: Subpool: User-supplied
Key: User-supplied
Residency: User-supplied
Size: Variable (and can expand in higher versions)
ISGYQUAAHDR -- X'0058' bytes
ISGYQUAARS -- X'0050' bytes
ISGYQUAARSX -- X'0030' bytes
ISGYQUAARQ -- X'0040' bytes
ISGYQUAARQX -- X'0088' bytes
ISGYQUAASYS -- X'0028' bytes
ISGYQUAASP -- X'0010' bytes
ISGYQUAALD -- X'0090' bytes
ISGYQUAALRD -- X'0048' bytes
ISGYQUAAHDRUS -- X'0060' bytes
ISGYQUAAUS -- X'0148' bytes
Created by: Created by user and passed as parameter on ANSAREA keyword
for ISGQUERY macro.
Pointed to by: ANSAREA_ADDR3164 field in ISGQUERY parameter list
Serialization: None required

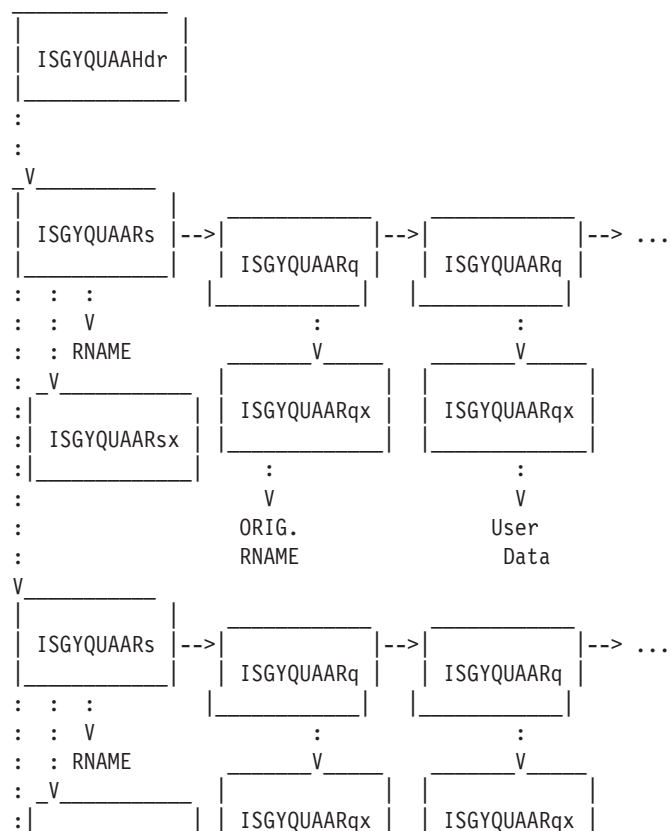
ISGYQUAC Heading Information

Function:

Maps the data returned by the ISGQUERY macro. This data represents an unserialized view of system resources. The ISGQUERY returns the ISGYQUAAHdr plus the records for each resource and requesters that match the query request. The answer area was originally mapped by ISGYQUAA but has been remapped here due to compatibility issues with reversioning. The fields here still begin with ISGYQUAA to minimize rework. The following structures may expand in size with reversioning: ISGYQUAAHdr, ISGYQUAARs, ISGYQUAARsx, ISGYQUAARq, ISGYQUAARqx, ISGYQUAASys, ISGYQUAASp, ISGYQUAALd, ISGYQUAALrd, ISGYQUAAHdrUs, ISGYQUAAUs. Constants are available for the minimum answer area sizes and for specific versions of blocks to avoid data expansions if desired.

Note: Use addresses to locate each record-- the offset to the next record is not guaranteed because the length and order of the records may change.

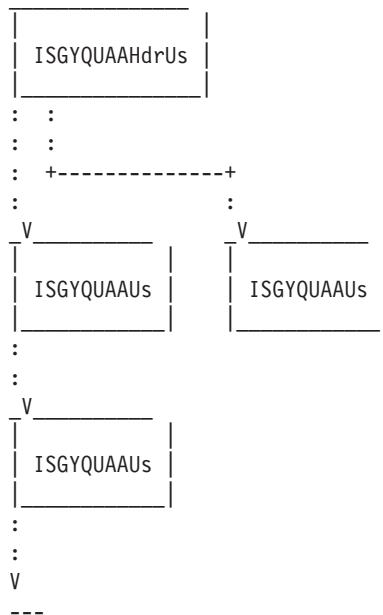
The answer area written for REQINFO=QSCAN queries is in the following format. ISGYQUAARqx records are only included if ANSDetail=FULL|FULL2|FULL3. ISGYQUAARsx records are only included if ANSDetail=FULL2|FULL3. ISGYQUAARqxv2 fields are only included if ANSDetail=FULL2|FULL3.



ISGYQUAC Heading Information

: _____ | _____ |

 The answer area written for REQINFO=USAGESTATS queries is in the following format. Note: Use addresses to locate each record-- the offset to the next record is not guaranteed because the length and order of the records may change.



ISGYQUAC mapping

Table 915. Structure ISGYQUAAHDR

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ISGYQUAAHDR	Header Section
0	(0)	CHARACTER	40	ISGYQUAAHDRV1(0)	
0	(0)	CHARACTER	8	ISGYQUAAHDRID	ISGYQUAA eyecatcher
8	(8)	SIGNED	2	ISGYQUAAHDRVERSION	Header version
10	(A)	SIGNED	2	ISGYQUAAHDRREQINFO	The REQINFO of the request
12	(C)	SIGNED	4	ISGYQUAAHDRNUMRECORDS	Number of ISGYQUAARs or ISGYQUAASys records returned
16	(10)	ADDRESS	8	ISGYQUAAHDRFIRSTRECORD(0)	Addr of first data record
16	(10)	CHARACTER	4		First word of 64-bit field
20	(14)	ADDRESS	4	ISGYQUAAHDRFIRSTRECORD31	Value of ISGYQUAAHDRFirstRecord for AMODE 31 callers
24	(18)	SIGNED	8	ISGYQUAAHDRTOTALLEN(0)	Total Answer Area length of the header and all the data records returned
24	(18)	CHARACTER	4		First word of 64-bit field
28	(1C)	SIGNED	4	ISGYQUAAHDRTOTALLEN31	Value of ISGYQUAAHDRTotalLen for AMODE 31 callers
32	(20)	CHARACTER	8		Reserved
40	(28)	CHARACTER	48	ISGYQUAAHDRV2(0)	
40	(28)	ADDRESS	8	ISGYQUAAHDRV2LASTRECORD(0)	Addr of last data record
40	(28)	CHARACTER	4		First word of 64-bit field

Table 915. Structure ISGYQUAAHDR (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
44	(2C)	ADDRESS	4	ISGYQUAAHDRV2LASTRECORD31	Value of ISGYQUAAHDRV2LastRecord for AMODE 31 callers
48	(30)	CHARACTER	16	ISGYQUAAHDRV2STARTTIME	STCKE taken when this data collection started
64	(40)	CHARACTER	16	ISGYQUAAHDRV2ENDTIME	STCKE taken when this data collection finished
80	(50)	BITSTRING .1..	1	ISGYQUAAHDRV2FLAGS1(0) ISGYQUAAHDRV2WAITER	First Flags byte "X'40'" Indicates if this represents a waiter request
81	(51)	CHARACTER	7		Reserved
ISGYQUAAHDR Constants					
81	(51)	X'E2C7E8'	0	ISGYQUAAHDR_KID_0T03	"C'ISGY'" This is the first 4-byte segment of an 8-byte constant.
81	(51)	X'E4C1C1'	0	ISGYQUAAHDR_KID_4T07	"C'QUAA'" This is the second 4-byte segment of an 8-byte constant.
81	(51)	X'2'	0	ISGYQUAAHDR_KMAXVERSION	"2"
81	(51)	X'2'	0	ISGYQUAAHDR_KHBB7780	"2"
81	(51)	X'1'	0	ISGYQUAAHDR_KHBB7709	"1"
81	(51)	X'1'	0	ISGYQUAAHDR_KVERSION1	"1"
81	(51)	X'2'	0	ISGYQUAAHDR_KVERSION2	"2"
81	(51)	X'1'	0	ISGYQUAAHDR_KREQINFO_QSCAN	"1"
81	(51)	X'2'	0	ISGYQUAAHDR_KREQINFO_ENQSTATS	"2"
81	(51)	X'3'	0	ISGYQUAAHDR_KREQINFO_LATCHECA	"3"
81	(51)	X'28'	0	ISGYQUAAHDRV1_KLEN	"40"
81	(51)	X'30'	0	ISGYQUAAHDRV2_KPARTIALLEN	"48"
81	(51)	X'58'	0	ISGYQUAAHDRV2_KLEN	"88"
81	(51)	X'58'	0	ISGYQUAAHDRMAX_KLEN	"88"
81	(51)	X'58'	0	ISGYQUAAHDR_LEN	"*-ISGYQUAAHDR"

Table 916. Structure ISGYQUAAHDRUS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ISGYQUAAHDRUS	Usage Statistics Header
0	(0)	CHARACTER	96	ISGYQUAAHDRUSV1(0)	
0	(0)	CHARACTER	8	ISGYQUAAHDRUSID	ISGYQUAA eyecatcher
8	(8)	SIGNED	2	ISGYQUAAHDRUSVERSION	Header version
10	(A)	SIGNED	2	ISGYQUAAHDRUSREQINFO	The REQINFO of the request
12	(C)	SIGNED	4	ISGYQUAAHDRUSNUMASRECORDS	Number of ISGYQUAAUs records returned for active address spaces
16	(10)	ADDRESS	8	ISGYQUAAHDRUSFIRSTASRECORD(0)	Addr of first address space data record
16	(10)	CHARACTER	4		First word of 64-bit field
20	(14)	ADDRESS	4	ISGYQUAAHDRUSFIRSTASRECORD31	

ISGYQUAC mapping

Table 916. Structure ISGYQUAAHDRUS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					Value of ISGYQUAAHDRUSFirstAsRecord for AMODE 31 callers
24	(18)	SIGNED	8	ISGYQUAAHDRUSTOTALLEN(0)	Total Answer Area length of the header and all the data records returned
24	(18)	CHARACTER	4		First word of 64-bit field
28	(1C)	SIGNED	4	ISGYQUAAHDRUSTOTALLEN31	Value of ISGYQUAAHDRTotalLen for AMODE 31 callers
32	(20)	ADDRESS	8	ISGYQUAAHDRUSTERMINATEDSPACESRECORD(0)	Addr of the Terminated Spaces Record
32	(20)	CHARACTER	4		First word of 64-bit field
36	(24)	ADDRESS	4	ISGYQUAAHDRUSTERMINATEDSPACESRECORD31	Value of ISGYQUAAHDRUSTerminatedSpacesRecord for AMODE 31 callers
40	(28)	CHARACTER	24		Reserved for future use
64	(40)	CHARACTER	16	ISGYQUAAHDRUSSTARTTIME	STCKE taken when this data collection started
80	(50)	CHARACTER	16	ISGYQUAAHDRUSENDTIME	STCKE taken when this data collection finished
ISGYQUAAHDRUS Constants					
80	(50)	X'E2C7E8'	0	ISGYQUAAHDRUS_KID_0T03	"C'ISGY'" This is the first 4-byte segment of an 8-byte constant.
80	(50)	X'E4C1C1'	0	ISGYQUAAHDRUS_KID_4T07	"C'QUAA'" This is the second 4-byte segment of an 8-byte constant.
80	(50)	X'1'	0	ISGYQUAAHDRUS_KMAXVERSION	"1"
80	(50)	X'1'	0	ISGYQUAAHDRUS_KHBB7780	"1"
80	(50)	X'1'	0	ISGYQUAAHDRUS_KVERSION1	"1"
80	(50)	X'4'	0	ISGYQUAAHDRUS_KREQINFO_USAGESTATS	"4"
80	(50)	X'60'	0	ISGYQUAAHDRUSV1_KLEN	"96"
80	(50)	X'60'	0	ISGYQUAAHDRUSMAX_KLEN	"96"
80	(50)	X'60'	0	ISGYQUAAHDRUS_LEN	"*-ISGYQUAAHDRUS"

Table 917. Structure ISGYQUAARS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ISGYQUAARS	Resource Data Record
0	(0)	CHARACTER	80	ISGYQUAARSV1(0)	
0	(0)	SIGNED	2	ISGYQUAARSVERSION	ISGYQUAARS version
2	(2)	BITSTRING	1	ISGYQUAARSFLAGS1(0)	First Flags byte
		1... ..		ISGYQUAARSRSQSOMITTED	"X'80'" Indicates if RQs were left out because of insufficient Answer Area Space
		.1.. ..		ISGYQUAARSRSXVALID	"X'40'" Indicates that the ISGYQUAARSrsx field is valid
3	(3)	CHARACTER	5		Reserved

Table 917. Structure ISGYQUAARS (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
8	(8)	ADDRESS		8	ISGYQUAARSNEXT(0)	Address of next RS record returned
8	(8)	CHARACTER		4		First word of 64-bit field
12	(C)	ADDRESS		4	ISGYQUAARSNEXT31	Value of ISGYQUAARSNext for AMODE 31 callers
16	(10)	ADDRESS		8	ISGYQUAARSFIRSTRQ(0)	Addr of first QReq address
16	(10)	CHARACTER		4		First word of 64-bit field
20	(14)	ADDRESS		4	ISGYQUAARSFIRSTRQ31	Value of ISGYQUAARSFirstRq for AMODE 31 callers
24	(18)	ADDRESS		8	ISGYQUAARSRNAME(0)	Address of final Rname for the resource
24	(18)	CHARACTER		4		First word of 64-bit field
28	(1C)	ADDRESS		4	ISGYQUAARSRNAME31	Value of ISGYQUAARSRName for AMODE 31 callers
32	(20)	CHARACTER		8	ISGYQUAARSQNAME	Final QName of the resource
40	(28)	SIGNED		4	ISGYQUAARSNUMRQ	Number of Requester records returned for this Resource
44	(2C)	SIGNED		4	ISGYQUAARSTOTALRQ	Total number of matching requesters associated with this resource. Check ISGYQUAARSRQsOmitted to see if some RQs were not included because of insufficient answer area space. If this number differs from ISGYQUAARSNumRq and ISGYQUAARSRQsOmitted is off then not all matching requester information was returned for this resource because the number exceeded the Requester Limit. To obtain a count of all requesters for this resource (matching and not), add ISGYQUAARSNumOwners, ISGYQUAARSNumEWaiters, ISGYQUAARSNumSWaiters, ISGYQUAARSNumEUsers, and ISGYQUAARSNumSUsers. Note: If SERIALIZEBY=ENQ_ONLY or SERIALIZEBY_RESERVE was specified on the query, then the counts only reflect requests that match the SERIALIZEBY filter.
48	(30)	SIGNED		4	ISGYQUAARSNUMOWNERS	Number of matching requesters that own this resource. This number does not include owners that have control of the resource by a MASID request. Note: If SERIALIZEBY=ENQ_ONLY or SERIALIZEBY_RESERVE was specified on the query, then the counts only reflect requests that match the SERIALIZEBY filter.

ISGYQUAC mapping

Table 917. Structure ISGYQUAARS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
52	(34)	SIGNED	4	ISGYQUAARSNUMEWAITERS	Number of requesters waiting for exclusive control of this resource. Note: If SERIALIZEBY=ENQ_ONLY or SERIALIZEBY_RESERVE was specified on the query, then the counts only reflect requests that match the SERIALIZEBY filter.
56	(38)	SIGNED	4	ISGYQUAARSNUMSWAITERS	Number of requesters waiting for shared control of this resource. Note: If SERIALIZEBY=ENQ_ONLY or SERIALIZEBY_RESERVE was specified on the query, then the counts only reflect requests that match the SERIALIZEBY filter.
60	(3C)	SIGNED	4	ISGYQUAARSNUMEUSERS	Number of MASID requests that have exclusive control of this resource. Note: If SERIALIZEBY=ENQ_ONLY or SERIALIZEBY_RESERVE was specified on the query, then the counts only reflect requests that match the SERIALIZEBY filter.
64	(40)	SIGNED	4	ISGYQUAARSNUMSUSERS	Number of MASID requests that have shared control of this resource. Note: If SERIALIZEBY=ENQ_ONLY or SERIALIZEBY_RESERVE was specified on the query, then the counts only reflect requests that match the SERIALIZEBY filter.
68	(44)	SIGNED	2	ISGYQUAARSNAMELEN	Length of resource RName
70	(46)	BITSTRING	1	ISGYQUAARSCOPE	Final scope of resource. One of either ISGYQUAA_kSTEP, ISGYQUAA_kSYSTEM, or ISGYQUAA_kSYSPLEX
71	(47)	CHARACTER	1		Reserved
72	(48)	ADDRESS	8	ISGYQUAARSRSX(0)	Address of resource record extension. Valid only if ISGYQUAARsRxValid is set.
72	(48)	CHARACTER	4		First word of 64-bit field
76	(4C)	ADDRESS	4	ISGYQUAARSRSX31	Value of ISGYQUAARsRx for AMODE 31 callers
ISGYQUAARS Constants					
76	(4C)	X'2'	0	ISGYQUAARS_KMAXVERSION	"2"
76	(4C)	X'1'	0	ISGYQUAARS_KHBB7709	"1"
76	(4C)	X'2'	0	ISGYQUAARS_KHBB7740	"2"
76	(4C)	X'1'	0	ISGYQUAARS_KVERSION1	"1"
76	(4C)	X'2'	0	ISGYQUAARS_KVERSION2	"2"
76	(4C)	X'50'	0	ISGYQUAARSV1_KLEN	"80"

Table 917. Structure ISGYQUAARS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
76	(4C)	X'50'	0	ISGYQUAARS_MAX_KLEN	"80"
76	(4C)	X'50'	0	ISGYQUAARS_LEN	"*-ISGYQUAARS"

Table 918. Structure ISGYQUAARSX

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ISGYQUAARSX	Resource extension
0	(0)	CHARACTER	48	ISGYQUAARSXV1(0)	
0	(0)	SIGNED	2	ISGYQUAARSXVERSION	ISGYQUAARSx version
2	(2)	BITSTRING	1	ISGYQUAARSXFLAGS1(0)	Flags byte
		1... ..		ISGYQUAARSXRSTOKENVALID	"X'80'" Indicates that the ISGYQUAARSxRscToken is valid. Currently, for Star mode globals the token is only valid for resources for which the local system has interest. Ring mode globals and all locals will always have a valid token
3	(3)	CHARACTER	1		Reserved
4	(4)	CHARACTER	32	ISGYQUAARSXRSTOKEN	This token can be used to identify an instance of the resource identified by ISGYQUAARS. The token represents the local systems view of the resource and expires when no requests for the resource remain. Additionally, in Star mode the token expires when the local system no longer has interest in (i.e. requests for) the resource. Only valid if ISGYQUAARSxRscTokenValid is on.
36	(24)	CHARACTER	12		Reserved
ISGYQUAARSx Constants					
36	(24)	X'1'	0	ISGYQUAARSX_KMAXVERSION	"1"
36	(24)	X'1'	0	ISGYQUAARSX_KHBB7740	"1"
36	(24)	X'1'	0	ISGYQUAARSX_KVERSION1	"1"
36	(24)	X'30'	0	ISGYQUAARSXV1_KLEN	"48"
36	(24)	X'30'	0	ISGYQUAARSX_MAX_KLEN	"48"
36	(24)	X'30'	0	ISGYQUAARSX_LEN	"*-ISGYQUAARSX"

Table 919. Structure ISGYQUAARQ

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ISGYQUAARQ	Requester Data Record
0	(0)	CHARACTER	64	ISGYQUAARQV1(0)	
0	(0)	SIGNED	2	ISGYQUAARQVERSION	ISGYQUAARQ version
2	(2)	BITSTRING	1	ISGYQUAARQFLAGS1(0)	First flags byte
		1... ..		ISGYQUAARQCONTROL	"X'80'" Type of serialization for request, where 0 = exclusive control and 1 = shared control

ISGYQUAC mapping

Table 919. Structure ISGYQUAARQ (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type				
		.1..	....		ISGYQUAARQRESERVE	"X'40'" Request specified (or was changed by a dynamic exit) to obtain a device reserve. The device is known to be reserved when ISGYQUAARqReserveConverted is off and ISGYQUAARqSynchRes and ISGYQUAARqPosted are on and one of the following two conditions are true. 1) The request originated from the local system 2) Global Resource Serialization is operating in Star mode. The device will be setup to be reserved on the first I/O (which may have completed) if ISGYQUAARqReserveConverted is off, ISGYQUAARqSynchRes is off, and ISGYQUAARqPosted is on.
		..1.	....		ISGYQUAARQRESERVECONVERTED	"X'20'" Request specified to obtain a device reserve, but request was converted to a global (SYSTEMS) ENQ
		...1	....		ISGYQUAARQSYNCHRES	"X'10'" Request specified to obtain a device reserve, the device was already reserved by the same system image or it was committed to being done synchronously (SYNCHRES). Only valid if ISGYQUAARqMisc64Valid is set.
		1...		ISGYQUAARQOWNER	"X'08'" Requester is an owner of the resource. If the requester is not an owner, and also not a Matching task user (See ISGYQUAARqMATU) then the requester is a waiter. Note that if a non-converted reserve (ISGYQUAARqReserve is on and ISGYQUAARqReserveConverted is off) then see ISGYQUAARqSynchRes to determine the state of the reserve processing.
	1..		ISGYQUAARQMATU	"X'04'" Matching task use indicator. Requester is using the resource as the result of a MASID/MTCB request

Table 919. Structure ISGYQUAARQ (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
		.... ..1.		ISGYQUAARQPOSTED	"X'02'" The requester has been informed that the request has completed. The ECB has been posted or the requester's suspended TCB RB has been posted. Note that in Ring mode, when the request originated on another system and ISGYQUAARqSynchRes is on, the requester may be waiting for synchronous reserve processing to complete.
		.... ...1		ISGYQUAARQMISC64VALID	"X'01'" In some cases not all the information is available from remote systems. This bit indicates that the following fields are valid: ISGYQUAARQEnqToken and ISGYQUAARQSynchRes. Also, when this bit and the ISGYQUAARqRqxValid bit is on, the following fields are valid: ISGYQUAARqxAltSerExtended, ISGYQUAARqxNQXITChanged, ISGYQUAARqxBatchChanged, ISGYQUAARqxEnqTime, ISGYQUAARqxRNLChanged, ISGYQUAARqxOrigQNameValid, ISGYQUAARqxOrigRNameValid, ISGYQUAARqxOrigScopeValid, ISGYQUAARqxOrigUCB, ISGYQUAARqxSToken, ISGYQUAARqxTToken, ISGYQUAARqxUserDataValid, and ISGYQUAARqxUserDataOmitted
3	(3)	BITSTRING 1...	1	ISGYQUAARQFLAGS2(0) ISGYQUAARQRQXVALID	Second flags byte "X'80'" Indicates that the ISGYQUAARqRQX field is valid
4	(4)	ADDRESS	4	ISGYQUAARQTCB	TCB address of requester
8	(8)	ADDRESS	8	ISGYQUAARQNEXT(0)	Address of next requester record returned
8	(8)	CHARACTER	4		First word of 64-bit field
12	(C)	ADDRESS	4	ISGYQUAARQNEXT31	Value of ISGYQUAARqNext for AMODE 31 callers
16	(10)	ADDRESS	8	ISGYQUAARQRQX(0)	Address of requester record extension. Valid only if ISGYQUAARqRQXValid is set.
16	(10)	CHARACTER	4		First word of 64-bit field
20	(14)	ADDRESS	4	ISGYQUAARQRQX31	Value of ISGYQUAARqRQX for AMODE 31 callers
24	(18)	CHARACTER	32	ISGYQUAARQENQTOKEN	ENQToken that represents this request. Only valid if ISGYQUAARqMisc64Valid is set.
56	(38)	CHARACTER	8		Reserved
ISGYQUAARQ Constants					

ISGYQUAC mapping

Table 919. Structure ISGYQUAARQ (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
56	(38)	X'1'	0	ISGYQUAARQ_KMAXVERSION	"1"
56	(38)	X'1'	0	ISGYQUAARQ_KHBB7709	"1"
56	(38)	X'1'	0	ISGYQUAARQ_KVERSION1	"1"
56	(38)	X'40'	0	ISGYQUAARQV1_KLEN	"64"
56	(38)	X'40'	0	ISGYQUAARQMAX_KLEN	"64"
56	(38)	X'40'	0	ISGYQUAARQ_LEN	"*-ISGYQUAARQ"

Table 920. Structure ISGYQUAARQX

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ISGYQUAARQX	Rqx of ANSDetail=FULL
0	(0)	CHARACTER	104	ISGYQUAARQXV1(0)	
0	(0)	SIGNED	2	ISGYQUAARQXVERSION	ISGYQUAARQX version
2	(2)	BITSTRING	1	ISGYQUAARQXFLAGS1(0)	Flags byte
		1... ..		ISGYQUAARQXNQXITCHANGED	"X'80" Indicates that the request was modified by an ENQ exit. ISGNQXIT or ISGNQXITFAST Only valid if ISGYQUAARqMisc64Valid is set.
		.1.. ..		ISGYQUAARQXBATCHCHANGED	"X'40" Indicates that the request was modified by a batch exit. ISGNQXITBATCH, ISGNQXITPREBATCH, or ISGNQXITBATCHCND. Only valid if ISGYQUAARqMisc64Valid is set.
		..1.		ISGYQUAARQXRNLCHANGED	"X'20" Indicates that the scope was modified by the RNLs Only valid if ISGYQUAARqMisc64Valid is set.
		...1		ISGYQUAARQXORIGQNAMEVALID	"X'10" Indicates that the ISGYQUAARqxOrigQName field is valid. If off then the original QName is the same as the final. This bit is only valid if ISGYQUAARqMisc64Valid is set.
		.... 1...		ISGYQUAARQXORIGRNAMEVALID	"X'08" Indicates that the ISGYQUAARqxOrigRName field is valid. If off then the original RName is the same as the final. This bit is only valid if ISGYQUAARqMisc64Valid is set.
		.... .1..		ISGYQUAARQXORIGUCB@VALID	"X'04" Indicates that the ISGYQUAARqxOrigUCB field is valid. If off then the original UCB@ is the same as the final. This bit is only valid if ISGYQUAARqMisc64Valid is set.
		.... ..1.		ISGYQUAARQXORIGSCOPEVALID	"X'02" Indicates that the ISGYQUAARqxOrigScope field is valid. If off then the original scope is the same as the final. This bit is only valid if ISGYQUAARqMisc64Valid is set.
		.... ...1		ISGYQUAARQXSERVICEASIDVALID	

Table 920. Structure ISGYQUAARQX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
3	(3)	BITSTRING	1	ISGYQUAARQXFLAGS2(0)	"X'01'" ISGYQUAARqxServiceAsid field is valid
		1...		ISGYQUAARQXMUSTCOMPLETE	Second flags byte "X'80'" Request set must complete
		.1..		ISGYQUAARQXAUTHORIZED	"X'40'" Requester was authorized
		..1.		ISGYQUAARQXALTSEREXTENDED	"X'20'" This request is being managed by an alternate serialization product at the global level. This bit is only valid if ISGYQUAARqMisc64Valid is set.
		...1		ISGYQUAARQXMATCHINGTASK	"X'10'" This is a matching task (MTCB/MASID) request. ISGYQUAARqxMTcb and ISGYQUAARqxMASid contain the TCB and ASID of the matching task
		.... 1...		ISGYQUAARQXECBREQUEST	"X'08'" ECB was specified on ENQ request
		.... .1..		ISGYQUAARQXUSERDATAVALID	"X'04'" Userdata was specified on the ISGENQ request and ANSDetail=FULL3 was specified on this ISGQUERY request. This bit is only valid if ISGYQUAARqMisc64Valid is set. If Userdata was expected for this requester, and ISGYQUAARqMisc64Valid is set, but this bit is off, one of the following conditions is true: 1)GRS is operating in STAR mode, this resource is global, and the ISGQUERY request specified GATHERFROM=SYSPLEX. If the resource request originated on the current system, issue another ISGQUERY specifying GATHERFROM=SYSTEM to obtain the Userdata. 2) The ISGYQUAARqxUserdataOmitted bit is set. See the declaration for details.
		.... ..1.		ISGYQUAARQXUSERDATAOMITTED	"X'02'" Userdata was specified on the ISGENQ request and ANSDetail=FULL3 was specified on this ISGQUERY request, however, there was not enough room in the answer area to return the userdata. Allocate a larger answer area space. Use the following formula to determine the amount of storage needed: (ISGYQUAA_kQScanMinFull13AnsLen + ISGYQUAARqxUserdataLen - ISGYQUAAUserDataInitialLen)
4	(4)	CHARACTER	2		Reserved

ISGYQUAC mapping

Table 920. Structure ISGYQUAARQX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
6	(6)	CHARACTER	42	ISGYQUAARQXREQUESTERDATA(0)	
6	(6)	SIGNED	2	ISGYQUAARQXASID	ASID of ENQ requester
8	(8)	CHARACTER	8	ISGYQUAARQXSTOKEN	SToken of requester. Only valid if ISGYQUAARqMisc64Valid is set.
16	(10)	CHARACTER	16	ISGYQUAARQXTTOKEN	TToken of requester. Only valid if ISGYQUAARqMisc64Valid is set.
32	(20)	CHARACTER	8	ISGYQUAARQXJOBNAME	Job name of requester
40	(28)	CHARACTER	8	ISGYQUAARQXSYSNAME	System name of requester
48	(30)	ADDRESS	4	ISGYQUAARQXMTCB	Matching task TCB (MTCB) specified by requester. Valid only if ISGYQUAARqxMatchingTask is set
52	(34)	SIGNED	2	ISGYQUAARQXMASID	Matching task ASID (MASID) specified by requester. Valid only if ISGYQUAARqxMatchingTask is set
54	(36)	SIGNED	2	ISGYQUAARQXSERVICEASID	ASID of the task for which a service PROVIDER performed this ENQ request. If ISGYQUAARqxServiceAsidValid is set then ISGYQUAARqxAsid is the ASID of the service PROVIDER and ISGYQUAARqServiceAsid is the ASID of the service REQUESTER. If ISGYQUAARqxServiceAsid is zero, the service REQUESTER's ASID is not available
56	(38)	ADDRESS	4	ISGYQUAARQXECB(0)	ECB address if ISGYQUAARqxECBRequest is set
56	(38)	ADDRESS	4	ISGYQUAARQXSVRB	SVRB address if ISGYQUAARqxECBRequest is zero
60	(3C)	ADDRESS	4	ISGYQUAARQXUCB	Final UCB address if request was for a device reserve on this system for a three-digit device-number device. Otherwise, arithmetic zero. Note that if ISGYQUAARqReserveConverted is set the device was not reserved
64	(40)	CHARACTER	4	ISGYQUAARQXDEVICENUM	If the request was for a device reserve from the current system then this field contains the EBCDIC device number of the the target of the reserve, Otherwise it is arithmetic zero
68	(44)	CHARACTER	4		Reserved
72	(48)	CHARACTER	8	ISGYQUAARQXORIGQNAME	Original QName specified on request. Only valid if ISGYQUAARqxOrigQNameValid and ISGYQUAARqMisc64Valid are set.
80	(50)	ADDRESS	8	ISGYQUAARQXORIGRNAME(0)	Address of original RName specified on request. Only valid if ISGYQUAARqxOrigRNameValid and ISGYQUAARqMisc64Valid are set.
80	(50)	CHARACTER	4		First word of 64-bit field

Table 920. Structure ISGYQUAARQX (continued)

Offset	Offset					
Dec	Hex	Type	Len	Name(Dim)	Description	
84	(54)	ADDRESS	4	ISGYQUAARQXORIGRNAME31	Value of ISGYQUAARqxOrigRName for AMODE 31 callers	
88	(58)	ADDRESS	4	ISGYQUAARQXORIGUCB@	Original UCB@ specified on request if the UCB address was changed by a dynamic exit. Note that a reserve conversion does not change the UCB@, but causes the device reserve request to be ignored. Only valid if if ISGYQUAARqxOrigUCB@Valid and ISGYQUAARqMisc64Valid are set.	
92	(5C)	BITSTRING	1	ISGYQUAARQXORIGRNAMELEN	Length of original RName specified on request. Only valid if ISGYQUAARqxOrigRNameValid and ISGYQUAARqMisc64Valid are set.	
93	(5D)	BITSTRING	1	ISGYQUAARQXORIGSCOPE	Original scope specified on request. One of either ISGYQUAA_kSTEP, ISGYQUAA_kSYSTEM, or ISGYQUAA_kSYSPLEX. Only valid if ISGYQUAARqxOrigScopeValid and ISGYQUAARqMisc64Valid are set.	
94	(5E)	SIGNED	2	ISGYQUAARQXUSERDATALEN	Length of Userdata specified on request. Only valid if ISGYQUAARqxUserdataValid and ISGYQUAARqMisc64Valid are set.	
96	(60)	ADDRESS	8	ISGYQUAARQXUSERDATA(0)	Address of userdata specified on request. Only valid if ISGYQUAARqxUserdataValid and ISGYQUAARqMisc64Valid are set. Note: The length, ISGYQUAARqxUserdataLen, should always be used when accessing the userdata, as its length may change in the future	
96	(60)	CHARACTER	4		First word of 64-bit field	
100	(64)	ADDRESS	4	ISGYQUAARQXUSERDATA31	Value of ISGYQUAARqxUserData for AMODE 31 callers	
104	(68)	CHARACTER	32	ISGYQUAARQXV2(0)		
104	(68)	CHARACTER	16	ISGYQUAARQXV2ENQTIME	This is the time, in extended TOD format, of when the ENQ request was originally made. Only valid if ISGYQUAARqMisc64Valid is set.	
120	(78)	CHARACTER	16		Reserved	
ISGYQUAARQX Constants						
120	(78)	X'2'	0	ISGYQUAARQX_KMAXVERSION	"2"	
120	(78)	X'1'	0	ISGYQUAARQX_KHBB7709	"1"	
120	(78)	X'2'	0	ISGYQUAARQX_KHBB7740	"2"	
120	(78)	X'1'	0	ISGYQUAARQX_KVERSION1	"1"	
120	(78)	X'2'	0	ISGYQUAARQX_KVERSION2	"2"	
120	(78)	X'68'	0	ISGYQUAARQXV1_KLEN	"104"	
120	(78)	X'20'	0	ISGYQUAARQXV2_KPARTIALLEN	"32"	
120	(78)	X'88'	0	ISGYQUAARQXV2_KLEN	"136"	

ISGYQUAC mapping

Table 920. Structure ISGYQUAARQX (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
120	(78)	X'88'	0	ISGYQUAARQXMAX_KLEN	"136"
120	(78)	X'88'	0	ISGYQUAARQX_LEN	"*-ISGYQUAARQX"

Table 921. Structure ISGYQUAASYS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ISGYQUAASYS	The REQINFO=ENQSTATS system data
0	(0)	CHARACTER	40	ISGYQUAASYSV1(0)	
0	(0)	SIGNED	2	ISGYQUAASYSVERSION	ISGYQUAASys version
2	(2)	BITSTRING	1	ISGYQUAASYSFLAGS1(0)	First Flags byte
		1...		ISGYQUAASYSAUTHORIZED	"X'80'" Indicates whether this block refers to the authorized or unauthorized counts
3	(3)	CHARACTER	5		Reserved
8	(8)	ADDRESS	8	ISGYQUAASYSNEXT(0)	Address of next system record returned
8	(8)	CHARACTER	4		First word of 64-bit field
12	(C)	ADDRESS	4	ISGYQUAASYSNEXT31	Value of ISGYQUAASysNext for AMODE 31 callers
16	(10)	ADDRESS	8	ISGYQUAASYS SP(0)	Address of address-space specific data (the ISGYQUAASysAuthorized flag applies to it as well)
16	(10)	CHARACTER	4		1st word of 64-bit field
20	(14)	ADDRESS	4	ISGYQUAASYS SP31	Value of ISGYQUAASysSp for AMODE 31 callers
24	(18)	CHARACTER	8	ISGYQUAASYSPEAKENQDATA(0)	
24	(18)	SIGNED	4	ISGYQUAASYSPEAKENQCOUNT	Peak ENQ count of requesters for any address space for the life of the system
28	(1C)	SIGNED	2	ISGYQUAASYSPEAKENQASID	ASID associated with with the overall peak for ENQ requests. Note that ASIDs are reusable and the address space may not still be active.
30	(1E)	CHARACTER	2		unused
32	(20)	SIGNED	4	ISGYQUAASYS ENQMAX	System-wide maximum limit of ENQs from any one address space
36	(24)	CHARACTER	4		unused
ISGYQUAASys Constants					
36	(24)	X'1'	0	ISGYQUAASYS_KMAXVERSION	"1"
36	(24)	X'1'	0	ISGYQUAASYS_KHBB7730	"1"
36	(24)	X'1'	0	ISGYQUAASYS_KVERSION1	"1"
36	(24)	X'28'	0	ISGYQUAASYSV1_KLEN	"40"
36	(24)	X'28'	0	ISGYQUAASYSMAX_KLEN	"40"
36	(24)	X'28'	0	ISGYQUAASYS_LEN	"*-ISGYQUAASYS"

Table 922. Structure ISGYQUAASP

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ISGYQUAASP	REQINFO=ENQSTATS address space specific data
0	(0)	CHARACTER	16	ISGYQUAASPV1(0)	
0	(0)	SIGNED	2	ISGYQUAASPVERSION	ISGYQUAASp version
2	(2)	CHARACTER	2		Reserved
4	(4)	SIGNED	4	ISGYQUAASPCURRENQCOUNT	Current ENQ count for the specified address space
8	(8)	SIGNED	4	ISGYQUAASPPEAKENQCOUNT	Peak ENQ count of requesters for the life of the specified address space.
12	(C)	SIGNED	4	ISGYQUAASPENQMAX	If non-zero, the address- space specific maximum number of ENQs, set via ISGADMIN. If zero, none exists and the system maximum is used.
ISGYQUAASp Constants					
12	(C)	X'1'	0	ISGYQUAASP_KMAXVERSION	"1"
12	(C)	X'1'	0	ISGYQUAASP_KHBB7730	"1"
12	(C)	X'1'	0	ISGYQUAASP_KVERSION1	"1"
12	(C)	X'10'	0	ISGYQUAASPV1_KLEN	"16"
12	(C)	X'10'	0	ISGYQUAASPMAX_KLEN	"16"
12	(C)	X'20'	0	ISGYQUAAUSERDATA_KINITIALLEN	"32" The initial length of ISGYQUAAUserdata
12	(C)	X'10'	0	ISGYQUAASP_LEN	"*-ISGYQUAASP"

Table 923. Structure ISGYQUAALD

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ISGYQUAALD	Latch Data
0	(0)	CHARACTER	144	ISGYQUAALDV1(0)	
0	(0)	SIGNED	2	ISGYQUAALDVERSION	IsgyQuaaLD version
2	(2)	BITSTRING	1	ISGYQUAALDFLAGS1(0)	First Flags byte
		1...		ISGYQUAALDLATCHIDVALID	"X'80" Indicates if there is a LID for this latch
		.1..		ISGYQUAALDDATANOTAVAIL	"X'40" Indicates that there was a problem obtaining information on the requesters of this latch. When set no waiter or blocker LRDs are returned and IsgyQuaaLDDiag1 and IsgyQuaaLDDiag2 hold diagnostic information. If the data for this latch is vital, re-issue the ISGQUERY Request
3	(3)	CHARACTER	5		Reserved
8	(8)	ADDRESS	8	ISGYQUAALDNEXT(0)	Address of next latch record returned
8	(8)	CHARACTER	4		First word of 64-bit field
12	(C)	ADDRESS	4	ISGYQUAALDNEXT31	Value of IsgyQuaaLdNext for AMODE 31 callers

ISGYQUAC mapping

Table 923. Structure ISGYQUAALD (continued)

Offset		Offset		Len	Name(Dim)	Description
Dec	Hex	Type	Type			
16	(10)	ADDRESS		8	ISGYQUAALDPREV(0)	Address of Prev latch record returned
16	(10)	CHARACTER		4		First word of 64-bit field
20	(14)	ADDRESS		4	ISGYQUAALDPREV31	Value of IsgyQuaaLdPrev for AMODE 31 callers
24	(18)	ADDRESS		8	ISGYQUAALDWAITERLRD(0)	Address of first latch requester data for a waiter
24	(18)	CHARACTER		4		1st word of 64-bit field
28	(1C)	ADDRESS		4	ISGYQUAALDWAITERLRD31	Value of IsgyQuaaLdWaiterLrd for AMODE 31 callers
32	(20)	ADDRESS		8	ISGYQUAALDBLOCKERLRD(0)	Address of first latch requester data for a blocker
32	(20)	CHARACTER		4		1st word of 64-bit field
36	(24)	ADDRESS		4	ISGYQUAALDBLOCKERLRD31	Value of IsgyQuaaLdBlockerLrd for AMODE 31 callers
40	(28)	SIGNED		4	ISGYQUAALDLATCHNUM	The latch number
44	(2C)	SIGNED		2	ISGYQUAALDLATCHIDLEN	The length of the latch Identity entry for this latch. Only valid if IsgyQuaaLdLatchIDValid is ON
46	(2E)	BITSTRING		1	ISGYQUAALDLATCHIDVERSION	The version of the latch Identity entry for this latch. Only valid if IsgyQuaaLdLatchIDValid is ON
47	(2F)	CHARACTER		1		Reserved
48	(30)	ADDRESS		8	ISGYQUAALDLATCHID(0)	The address of the latch Identity entry for this latch. Only valid if IsgyQuaaLdLatchIDValid is ON. See ISGYLID_Entry defined in the language specific latch macro for more details on the control block pointed to by this field
48	(30)	CHARACTER		4		1st word of 64-bit field
52	(34)	ADDRESS		4	ISGYQUAALDLATCHID31	Value of IsgyQuaaLdLatchID for AMODE 31 callers
56	(38)	SIGNED		2	ISGYQUAALDCASID	ASID of the latch set creator
58	(3A)	SIGNED		2	ISGYQUAALDRETURNEDLIDPSLEN	Length of the Latch ID printable string that is returned. Normally this will be the same as LidPrintableStringLength, unless it has been truncated to IsgyQuaa_kLidPrintableStringMaxLen
60	(3C)	CHARACTER		4		Unused
64	(40)	SIGNED		4	ISGYQUAALDNUMBLOCKERS(0)	Total number of owners of this latch
64	(40)	SIGNED		4	ISGYQUAALDDIAG1	Diag field when flag IsgyQuaaLdDataNotAvail is set
68	(44)	SIGNED		4	ISGYQUAALDDIAG2(0)	Diag field when flag IsgyQuaaLdDataNotAvail is set
68	(44)	SIGNED		4	ISGYQUAALDNUMWAITERS	Total number of waiters for this latch (valid only for BLOCKER requests)
72	(48)	CHARACTER		8		Unused

Table 923. Structure ISGYQUAALD (continued)

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
80	(50)	CHARACTER	8	ISGYQUAALDCJOBNAME	Jobname of the latch set creator
88	(58)	CHARACTER	8	ISGYQUAALDLATCHSETOKEN	The latch set token
96	(60)	CHARACTER	48	ISGYQUAALDLATCHSETNAME	The latch set name
96	(60)	X'1'	0	ISGYQUAALD_KMAXVERSION	"1"
96	(60)	X'1'	0	ISGYQUAALD_KVERSION1	"1"
96	(60)	X'90'	0	ISGYQUAALDV1_KLEN	"144"
96	(60)	X'90'	0	ISGYQUAALDMAX_KLEN	"144"
96	(60)	X'90'	0	ISGYQUAALD_LEN	"*-ISGYQUAALD"

Table 924. Structure ISGYQUAALRD

Offset		Type	Len	Name(Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	0	ISGYQUAALRD	
0	(0)	CHARACTER	72	ISGYQUAALRDV1(0)	
0	(0)	SIGNED	2	ISGYQUAALRDVERSION	IsgyQuaaLRD version
2	(2)	BITSTRING	1	ISGYQUAALRDFLAGS1(0)	First Flags byte
		1...		ISGYQUAALRDEXCLUSIVE	"X'80'" If ON, latch was requested exclusive. If OFF latch was requested shared.
		.1..		ISGYQUAALRDTASKMODE	"X'40'" If ON, this latch requester was in Task mode at the time of the request. If OFF requestor was in SRB mode
3	(3)	CHARACTER	5		Reserved
8	(8)	ADDRESS	8	ISGYQUAALRDNEXT(0)	Address of next latch requester returned
8	(8)	CHARACTER	4		First word of 64-bit field
12	(C)	ADDRESS	4	ISGYQUAALRDNEXT31	Value of IsgyQuaaLrdNext for AMODE 31 callers
16	(10)	ADDRESS	8	ISGYQUAALRDPREV(0)	Address of Prev latch requester returned
16	(10)	CHARACTER	4		First word of 64-bit field
20	(14)	ADDRESS	4	ISGYQUAALRDPREV31	Value of IsgyQuaaLrdPrev for AMODE 31 callers
24	(18)	CHARACTER	8	ISGYQUAALRDJOBNAME	Jobname of this latch requester
32	(20)	SIGNED	2	ISGYQUAALRDASID	ASID of this latch requester
34	(22)	CHARACTER	2		Reserved
36	(24)	ADDRESS	4	ISGYQUAALRDWORKUNIT@	If IsgyQuaaLrdTcbMode is ON, this is the address of the requesting TCB. Otherwise this is the WEB address of the requesting SRB.
40	(28)	BITSTRING	8	ISGYQUAALRDOWNTOD	Timestamp of when this requester became an owner of this latch. This field will be binary zero if this requester is not an owner of this latch. This value has not been adjusted for leap seconds

ISGYQUAC mapping

Table 924. Structure ISGYQUAALRD (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
48	(30)	BITSTRING	8	ISGYQUAALRDWAITREQTOD	This is the time that the request was made and is only set when there is contention. A value of zero indicates that there was no contention and thus IsgyQuaaLrdOwnTOD is also the request time. The value has not been adjusted for leap seconds.
56	(38)	BITSTRING	8	ISGYQUAALRDRESUMEDTOD	This is the time that the requester's unit of work was resumed. It is only set when there is contention for an UNCOND request and represents the time that the requester's unit of work started executing with the latch held. The value has not been adjusted for leap seconds.
64	(40)	CHARACTER	8	ISGYQUAALRDLATCHTOKEN	The latch token
64	(40)	X'1'	0	ISGYQUAALRD_KMAXVERSION	"1"
64	(40)	X'1'	0	ISGYQUAALRD_KVERSION1	"1"
64	(40)	X'48'	0	ISGYQUAALRDV1_KLEN	"72"
64	(40)	X'48'	0	ISGYQUAALRDMAX_KLEN	"72"
64	(40)	X'48'	0	ISGYQUAALRD_LEN	"*-ISGYQUAALRD"

Table 925. Structure ISGYQUAAUS

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
0	(0)	STRUCTURE	0	ISGYQUAAUS	
0	(0)	CHARACTER	328	ISGYQUAAUSV1(0)	
0	(0)	SIGNED	2	ISGYQUAAUS_VERSION	IsgyQuaaUs Version
2	(2)	SIGNED	2	ISGYQUAAUS_ASID	Valid if the IsgyQuaaUs is on the IsgyQuaaHdrUsFirstAsRecord Chain. This field indicates the Address space number for which the following data was collected. All of the statistics that follow represent requests that were made when this was the Home address space
4	(4)	CHARACTER	4		
8	(8)	ADDRESS	8	ISGYQUAAUS_NEXT(0)	Address of next US record returned
8	(8)	CHARACTER	4		First word of 64-bit field
12	(C)	ADDRESS	4	ISGYQUAAUS_NEXT31	Value of ISGYQUAAUSNext for AMODE 31 callers
16	(10)	CHARACTER	8	ISGYQUAAUS_STOKEN	Valid if the is on the IsgyQuaaHdrUsFirstAsRecord Chain. This field indicates the STOKEN for which the following data was collected.
24	(18)	CHARACTER	32	ISGYQUAAUS_LATCHCREATORCONTSTATS(0)	

Table 925. Structure ISGYQUAAUS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
					Statistics for Latch requests against Latch sets created by this address space
24	(18)	SIGNED	8	ISGYQUAAUS_LC_CONTCOUNT	Number of contention generating requests
32	(20)	SIGNED	8	ISGYQUAAUS_LC_CONTTIME	Total time of contention
40	(28)	CHARACTER	16	ISGYQUAAUS_LC_CONTTIMESQ	Sum of the squares of the individual contention times
56	(38)	CHARACTER	32	ISGYQUAAUS_LATCHREQUESTERCONTSTATS(0)	Statistics for Latch requests that occurred in this address space
56	(38)	SIGNED	8	ISGYQUAAUS_LR_CONTCOUNT	Number of contention generating requests
64	(40)	SIGNED	8	ISGYQUAAUS_LR_CONTTIME	Total time of contention
72	(48)	CHARACTER	16	ISGYQUAAUS_LR_CONTTIMESQ	Sum of the squares of the individual contention times
88	(58)	CHARACTER	48	ISGYQUAAUS_ENQSTEPSTATS(0)	Statistics for requests that generated STEP scope ENQs from this address space
88	(58)	SIGNED	8	ISGYQUAAUS_ESTEPTOTALCOUNT	Total number of requests that resulted in GRS queuing an element (contention and non-contention cases)
96	(60)	SIGNED	8	ISGYQUAAUS_ESTEPCONTCOUNT	Total number of contention generating requests that resulted in GRS queuing a waiting element
104	(68)	SIGNED	8	ISGYQUAAUS_ESTEPCONTTIME	Total time of contention
112	(70)	CHARACTER	8		
120	(78)	CHARACTER	16	ISGYQUAAUS_ESTEPCONTTIMESQ	Sum of the squares of the individual contention times
136	(88)	CHARACTER	48	ISGYQUAAUS_ENQSYSTEMSTATS(0)	Statistics for requests that generated SYSTEM scope ENQs from this address space
136	(88)	SIGNED	8	ISGYQUAAUS_ESYSTEMTOTALCOUNT	Total number of requests that resulted in GRS queuing an element (contention and non-contention cases)
144	(90)	SIGNED	8	ISGYQUAAUS_ESYSTEMCONTCOUNT	Total number of contention generating requests that resulted in GRS queuing a waiting element
152	(98)	SIGNED	8	ISGYQUAAUS_ESYSTEMCONTTIME	Total time of contention
160	(A0)	CHARACTER	8		
168	(A8)	CHARACTER	16	ISGYQUAAUS_ESYSTEMCONTTIMESQ	Sum of the squares of the individual contention times
184	(B8)	CHARACTER	48	ISGYQUAAUS_ENQSYSTEMSSTATS(0)	

ISGYQUAC mapping

Table 925. Structure ISGYQUAAUS (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
184	(B8)	SIGNED	8	ISGYQUAAUS_ESYSTEMSTOTALCOUNT	Statistics for requests that generated SYSTEMS scope ENQs from this address space Total number of requests that resulted in GRS queuing an element (contention and non-contention cases)
192	(C0)	SIGNED	8	ISGYQUAAUS_ESYSTEMSCONTCOUNT	Total number of contention generating requests that resulted in GRS queuing a waiting element
200	(C8)	SIGNED	8	ISGYQUAAUS_ESYSTEMSCONTTIME	Total time of contention
208	(D0)	CHARACTER	8		
216	(D8)	CHARACTER	16	ISGYQUAAUS_ESYSTEMSCONTTIMESQ	Sum of the squares of the individual contention times
232	(E8)	CHARACTER	64	ISGYQUAAUS_QSCANSTATS(0)	Statistics for Qscan requests (GQSCAN and ISGQUERY REQINFO=QSCAN) issued from this address space
232	(E8)	SIGNED	8	ISGYQUAAUS_QTOTALCOUNT	Count of requests including (START and RESUME, but not QUITs
240	(F0)	SIGNED	8	ISGYQUAAUS_QSPECCOUNT	Count of requests that are specific. This includes requests with a specific QNAME and RNAME or ISGQUERY specifying a search by EnqToken
248	(F8)	CHARACTER	16	ISGYQUAAUS_QRESCOUNTSQ	Sum of the squares of number of resources returned.
264	(108)	SIGNED	8	ISGYQUAAUS_QRESCOUNT	Sum of all resources returned by QScans.
272	(110)	SIGNED	8	ISGYQUAAUS_QTIME	Sum of request times (in TOD-format) for QScan requests
280	(118)	CHARACTER	16	ISGYQUAAUS_QTIMESQ	Sum of the squares of request times for QScan requests
296	(128)	CHARACTER	32		Reserved for future use
296	(128)	X'148'	0	ISGYQUAAUSV1_KLEN	"328"
296	(128)	X'1'	0	ISGYQUAAUS_KMAXVERSION	"1"
296	(128)	X'1'	0	ISGYQUAAUS_KVERSION1	"1"
296	(128)	X'148'	0	ISGYQUAAUS_LEN	"*-ISGYQUAAUS"

Table 926. Cross Reference for ISGYQUAC

Name	Offset	Hex Tag
ISGYQUAAHDR	0	
ISGYQUAAHDR_KHBB7709	51	1
ISGYQUAAHDR_KHBB7780	51	2
ISGYQUAAHDR_KID_0T03	51	E2C7E8
ISGYQUAAHDR_KID_4T07	51	E4C1C1
ISGYQUAAHDR_KMAXVERSION	51	2

Table 926. Cross Reference for ISGYQUAC (continued)

Name	Offset	Hex Tag
ISGYQUAAHDR_KREQINFO_ENQSTATS	51	2
ISGYQUAAHDR_KREQINFO_LATCHECA	51	3
ISGYQUAAHDR_KREQINFO_QSCAN	51	1
ISGYQUAAHDR_KVERSION1	51	1
ISGYQUAAHDR_KVERSION2	51	2
ISGYQUAAHDR_LEN	51	58
ISGYQUAAHDRFIRSTRECORD	10	
ISGYQUAAHDRFIRSTRECORD31	14	
ISGYQUAAHDRID	0	
ISGYQUAAHDRMAX_KLEN	51	58
ISGYQUAAHDRNUMRECORDS	C	
ISGYQUAAHDRREQINFO	A	
ISGYQUAAHDRTOTALLLEN	18	
ISGYQUAAHDRTOTALLLEN31	1C	
ISGYQUAAHDRUS	0	
ISGYQUAAHDRUS_KHBB7780	50	1
ISGYQUAAHDRUS_KID_0T03	50	E2C7E8
ISGYQUAAHDRUS_KID_4T07	50	E4C1C1
ISGYQUAAHDRUS_KMAXVERSION	50	1
ISGYQUAAHDRUS_KREQINFO_USAGESTATS	50	4
ISGYQUAAHDRUS_KVERSION1	50	1
ISGYQUAAHDRUS_LEN	50	60
ISGYQUAAHDRUSENDTIME	50	
ISGYQUAAHDRUSFIRSTASRECORD	10	
ISGYQUAAHDRUSFIRSTASRECORD31	14	
ISGYQUAAHDRUSID	0	
ISGYQUAAHDRUSMAX_KLEN	50	60
ISGYQUAAHDRUSNUMASRECORDS	C	
ISGYQUAAHDRUSREQINFO	A	
ISGYQUAAHDRUSSTARTTIME	40	
ISGYQUAAHDRUSTERMINATEDSPACESRECORD	20	
ISGYQUAAHDRUSTERMINATEDSPACESRECORD31	24	
ISGYQUAAHDRUSTOTALLLEN	18	
ISGYQUAAHDRUSTOTALLLEN31	1C	
ISGYQUAAHDRUSVERSION	8	
ISGYQUAAHDRUSV1	0	
ISGYQUAAHDRUSV1_KLEN	50	60
ISGYQUAAHDRVERSION	8	
ISGYQUAAHDRV1	0	
ISGYQUAAHDRV1_KLEN	51	28
ISGYQUAAHDRV2	28	
ISGYQUAAHDRV2_KLEN	51	58
ISGYQUAAHDRV2_KPARTIALLEN	51	30
ISGYQUAAHDRV2ENDTIME	40	
ISGYQUAAHDRV2FLAGS1	50	
ISGYQUAAHDRV2LASTRECORD	28	
ISGYQUAAHDRV2LASTRECORD31	2C	
ISGYQUAAHDRV2STARTTIME	30	
ISGYQUAAHDRV2WAITER	50	40

ISGYQUAC mapping

Table 926. Cross Reference for ISGYQUAC (continued)

Name	Offset	Hex Tag
ISGYQUAALD	0	
ISGYQUAALD_KMAXVERSION	60	1
ISGYQUAALD_KVERSION1	60	1
ISGYQUAALD_LEN	60	90
ISGYQUAALDBLOCKERLRD	20	
ISGYQUAALDBLOCKERLRD31	24	
ISGYQUAALDCASID	38	
ISGYQUAALDCJOBNAME	50	
ISGYQUAALDDATANOTAVAIL	2	40
ISGYQUAALDDIAG1	40	
ISGYQUAALDDIAG2	44	
ISGYQUAALDFLAGS1	2	
ISGYQUAALDLATCHID	30	
ISGYQUAALDLATCHIDLEN	2C	
ISGYQUAALDLATCHIDVALID	2	80
ISGYQUAALDLATCHIDVERSION	2E	
ISGYQUAALDLATCHID31	34	
ISGYQUAALDLATCHNUM	28	
ISGYQUAALDLATCHSETNAME	60	
ISGYQUAALDLATCHSETTOKEN	58	
ISGYQUAALDMAX_KLEN	60	90
ISGYQUAALDNEXT	8	
ISGYQUAALDNEXT31	C	
ISGYQUAALDNUMBLOCKERS	40	
ISGYQUAALDNUMWAITERS	44	
ISGYQUAALDPREV	10	
ISGYQUAALDPREV31	14	
ISGYQUAALDRETURNEDLIDPSLEN	3A	
ISGYQUAALDVERSION	0	
ISGYQUAALDV1	0	
ISGYQUAALDV1_KLEN	60	90
ISGYQUAALDWAITERLRD	18	
ISGYQUAALDWAITERLRD31	1C	
ISGYQUAALRD	0	
ISGYQUAALRD_KMAXVERSION	40	1
ISGYQUAALRD_KVERSION1	40	1
ISGYQUAALRD_LEN	40	48
ISGYQUAALRDASID	20	
ISGYQUAALRDEXCLUSIVE	2	80
ISGYQUAALRDFLAGS1	2	
ISGYQUAALRDJOBNAME	18	
ISGYQUAALRDLATHTOKEN	40	
ISGYQUAALRDMAX_KLEN	40	48
ISGYQUAALRDNEXT	8	
ISGYQUAALRDNEXT31	C	
ISGYQUAALRDOWNTOD	28	
ISGYQUAALRDPREV	10	
ISGYQUAALRDPREV31	14	
ISGYQUAALRDRESUMEDTOD	38	

Table 926. Cross Reference for ISGYQUAC (continued)

Name	Offset	Hex Tag
ISGYQUAALRDTASKMODE	2	40
ISGYQUAALRDVERSION	0	
ISGYQUAALRDV1	0	
ISGYQUAALRDV1_KLEN	40	48
ISGYQUAALRDWAITREQTOD	30	
ISGYQUAALRDWORKUNIT@	24	
ISGYQUAARQ	0	
ISGYQUAARQ_KHBB7709	38	1
ISGYQUAARQ_KMAXVERSION	38	1
ISGYQUAARQ_KVERSION1	38	1
ISGYQUAARQ_LEN	38	40
ISGYQUAARQCONTROL	2	80
ISGYQUAARQENQTOKEN	18	
ISGYQUAARQFLAGS1	2	
ISGYQUAARQFLAGS2	3	
ISGYQUAARQMATU	2	4
ISGYQUAARQMAX_KLEN	38	40
ISGYQUAARQMISC64VALID	2	1
ISGYQUAARQNEXT	8	
ISGYQUAARQNEXT31	C	
ISGYQUAARQOWNER	2	8
ISGYQUAARQPOSTED	2	2
ISGYQUAARQRESERVE	2	40
ISGYQUAARQRESERVECONVERTED	2	20
ISGYQUAARQRQX	10	
ISGYQUAARQRQXVALID	3	80
ISGYQUAARQRQX31	14	
ISGYQUAARQSYNCHRES	2	10
ISGYQUAARQTCB	4	
ISGYQUAARQVERSION	0	
ISGYQUAARQV1	0	
ISGYQUAARQV1_KLEN	38	40
ISGYQUAARQX	0	
ISGYQUAARQX_KHBB7709	78	1
ISGYQUAARQX_KHBB7740	78	2
ISGYQUAARQX_KMAXVERSION	78	2
ISGYQUAARQX_KVERSION1	78	1
ISGYQUAARQX_KVERSION2	78	2
ISGYQUAARQX_LEN	78	88
ISGYQUAARQXALTSEREXTENDED	3	20
ISGYQUAARQXASID	6	
ISGYQUAARQXAUTHORIZED	3	40
ISGYQUAARQXBATCHCHANGED	2	40
ISGYQUAARQXDEVICENUM	40	
ISGYQUAARQXECB	38	
ISGYQUAARQXECBREQUEST	3	8
ISGYQUAARQXFLAGS1	2	
ISGYQUAARQXFLAGS2	3	
ISGYQUAARQXJOBNAME	20	

ISGYQUAC mapping

Table 926. Cross Reference for ISGYQUAC (continued)

Name	Offset	Hex Tag
ISGYQUAARQXMASID	34	
ISGYQUAARQXMATCHINGTASK	3	10
ISGYQUAARQXMAX_KLEN	78	88
ISGYQUAARQXMTCB	30	
ISGYQUAARQXMUSTCOMPLETE	3	80
ISGYQUAARQXNQXITCHANGED	2	80
ISGYQUAARQXORIGQNAME	48	
ISGYQUAARQXORIGQNAMEVALID	2	10
ISGYQUAARQXORIGRNAME	50	
ISGYQUAARQXORIGRNAMELEN	5C	
ISGYQUAARQXORIGRNAMEVALID	2	8
ISGYQUAARQXORIGRNAME31	54	
ISGYQUAARQXORIGSCOPE	5D	
ISGYQUAARQXORIGSCOPEVALID	2	2
ISGYQUAARQXORIGUCB@	58	
ISGYQUAARQXORIGUCB@VALID	2	4
ISGYQUAARQXREQUESTERDATA	6	
ISGYQUAARQXRNLCHANGED	2	20
ISGYQUAARQXSERVICEASID	36	
ISGYQUAARQXSERVICEASIDVALID	2	1
ISGYQUAARQXSTOKEN	8	
ISGYQUAARQXSVRB	38	
ISGYQUAARQXSYSNAME	28	
ISGYQUAARQXTTOKEN	10	
ISGYQUAARQXUCB	3C	
ISGYQUAARQXUSERDATA	60	
ISGYQUAARQXUSERDATALEN	5E	
ISGYQUAARQXUSERDATAOMITTED	3	2
ISGYQUAARQXUSERDATAVALID	3	4
ISGYQUAARQXUSERDATA31	64	
ISGYQUAARQXVERSION	0	
ISGYQUAARQXV1	0	
ISGYQUAARQXV1_KLEN	78	68
ISGYQUAARQXV2	68	
ISGYQUAARQXV2_KLEN	78	88
ISGYQUAARQXV2_KPARTIALLEN	78	20
ISGYQUAARQXV2ENQTIME	68	
ISGYQUAARS	0	
ISGYQUAARS_KHBB7709	4C	1
ISGYQUAARS_KHBB7740	4C	2
ISGYQUAARS_KMAXVERSION	4C	2
ISGYQUAARS_KVERSION1	4C	1
ISGYQUAARS_KVERSION2	4C	2
ISGYQUAARS_LEN	4C	50
ISGYQUAARSFIRSTRQ	10	
ISGYQUAARSFIRSTRQ31	14	
ISGYQUAARSFLAGS1	2	
ISGYQUAARSMAX_KLEN	4C	50
ISGYQUAARSNEXT	8	

Table 926. Cross Reference for ISGYQUAC (continued)

Name	Offset	Hex Tag
ISGYQUAARSNEXT31	C	
ISGYQUAARSNUMEUSERS	3C	
ISGYQUAARSNUMEWAITERS	34	
ISGYQUAARSNUMOWNERS	30	
ISGYQUAARSNUMRQ	28	
ISGYQUAARSNUMSUSERS	40	
ISGYQUAARSNUMSWAITERS	38	
ISGYQUAARSQNAME	20	
ISGYQUAARSRNAME	18	
ISGYQUAARSRNAMELEN	44	
ISGYQUAARSRNAME31	1C	
ISGYQUAARSRQSOMITTED	2	80
ISGYQUAARSRSX	48	
ISGYQUAARSRSXVALID	2	40
ISGYQUAARSRSX31	4C	
ISGYQUAARSSCOPE	46	
ISGYQUAARSTOTALRQ	2C	
ISGYQUAARSVERSION	0	
ISGYQUAARSV1	0	
ISGYQUAARSV1_KLEN	4C	50
ISGYQUAARSX	0	
ISGYQUAARSX_KHBB7740	24	1
ISGYQUAARSX_KMAXVERSION	24	1
ISGYQUAARSX_KVERSION1	24	1
ISGYQUAARSX_LEN	24	30
ISGYQUAARSXFLAGS1	2	
ISGYQUAARSXMAX_KLEN	24	30
ISGYQUAARSXRSTOKEN	4	
ISGYQUAARSXRSTOKENVALID	2	80
ISGYQUAARSXVERSION	0	
ISGYQUAARSXV1	0	
ISGYQUAARSXV1_KLEN	24	30
ISGYQUAASP	0	
ISGYQUAASP_KHBB7730	C	1
ISGYQUAASP_KMAXVERSION	C	1
ISGYQUAASP_KVERSION1	C	1
ISGYQUAASP_LEN	C	10
ISGYQUAASPCURRENQCOUNT	4	
ISGYQUAASPENQMAX	C	
ISGYQUAASPMAX_KLEN	C	10
ISGYQUAASPPEAKENQCOUNT	8	
ISGYQUAASPVERSION	0	
ISGYQUAASPV1	0	
ISGYQUAASPV1_KLEN	C	10
ISGYQUAASYS	0	
ISGYQUAASYS_KHBB7730	24	1
ISGYQUAASYS_KMAXVERSION	24	1
ISGYQUAASYS_KVERSION1	24	1
ISGYQUAASYS_LEN	24	28

ISGYQUAC mapping

Table 926. Cross Reference for ISGYQUAC (continued)

Name	Offset	Hex Tag
ISGYQUAASYSAUTHORIZED	2	80
ISGYQUAASYSENQMAX	20	
ISGYQUAASYSFLAGS1	2	
ISGYQUAASYSMAX_KLEN	24	28
ISGYQUAASYSNEXT	8	
ISGYQUAASYSNEXT31	C	
ISGYQUAASYSPEAKENQASID	1C	
ISGYQUAASYSPEAKENQCOUNT	18	
ISGYQUAASYSPEAKENQDATA	18	
ISGYQUAASYSSP	10	
ISGYQUAASYSSP31	14	
ISGYQUAASYSVERSION	0	
ISGYQUAASYSV1	0	
ISGYQUAASYSV1_KLEN	24	28
ISGYQUAAUS	0	
ISGYQUAAUS_ASID	2	
ISGYQUAAUS_ENQSTEPSTATS	58	
ISGYQUAAUS_ENQSYSTEMSSTATS	B8	
ISGYQUAAUS_ENQSYSTEMSTATS	88	
ISGYQUAAUS_ESTEPCONTCOUNT	60	
ISGYQUAAUS_ESTEPCONTTIME	68	
ISGYQUAAUS_ESTEPCONTTIMESQ	78	
ISGYQUAAUS_ESTEPTOTALCOUNT	58	
ISGYQUAAUS_ESYSTEMCONTCOUNT	90	
ISGYQUAAUS_ESYSTEMCONTTIME	98	
ISGYQUAAUS_ESYSTEMCONTTIMESQ	A8	
ISGYQUAAUS_ESYSTEMSCONTCOUNT	C0	
ISGYQUAAUS_ESYSTEMSCONTTIME	C8	
ISGYQUAAUS_ESYSTEMSCONTTIMESQ	D8	
ISGYQUAAUS_ESYSTEMSTOTALCOUNT	B8	
ISGYQUAAUS_ESYSTEMTOTALCOUNT	88	
ISGYQUAAUS_KMAXVERSION	128	1
ISGYQUAAUS_KVERSION1	128	1
ISGYQUAAUS_LATCHCREATORCONTSTATS	18	
ISGYQUAAUS_LATCHREQUESTERCONTSTATS	38	
ISGYQUAAUS_LC_CONTCOUNT	18	
ISGYQUAAUS_LC_CONTTIME	20	
ISGYQUAAUS_LC_CONTTIMESQ	28	
ISGYQUAAUS_LEN	128	148
ISGYQUAAUS_LR_CONTCOUNT	38	
ISGYQUAAUS_LR_CONTTIME	40	
ISGYQUAAUS_LR_CONTTIMESQ	48	
ISGYQUAAUS_NEXT	8	
ISGYQUAAUS_NEXT31	C	
ISGYQUAAUS_QRESCOUNT	108	
ISGYQUAAUS_QRESCOUNTSQ	F8	
ISGYQUAAUS_QSCANSTATS	E8	
ISGYQUAAUS_QSPECCOUNT	F0	
ISGYQUAAUS_QTIME	110	

Table 926. Cross Reference for ISGYQUAC (continued)

Name	Offset	Hex Tag
ISGYQAAUS_QTIMESQ	118	
ISGYQAAUS_QTOTALCOUNT	E8	
ISGYQAAUS_STOKEN	10	
ISGYQAAUS_VERSION	0	
ISGYQAAUSERDATA_KINITIALLEN	C	20
ISGYQAAUSV1	0	
ISGYQAAUSV1_KLEN	128	148

ISGYQUAC mapping

Chapter 250. ISGYREPL Information

ISGYREPL Programming Interface Information

ISGYREPL is a programming interface.

ISGYREPL Heading Information

Common Name: RNL Exit Parameter List
Macro ID: ISGYREPL
DSECT Name: REPL
Owning Component: Global Resource Serialization (SCSDS)
Eye-Catcher ID: REPL
Offset: 0
Length: 4
Storage Attributes: Subpool: 229
Key: 0
Residency: Above the 16M line
Size: LENGTH(REPL)
REPL -- X'0048' bytes
Created by: ISGGRX
Pointed to by: R1 points to the REPL on entry to the exit routine
Serialization: N/A
Function: The RNL Exit Parameter List provides an installation provided exit (installed at the ISGGNQXT exit point) the ability to modify attributes of an ENQ, RESERVE or DEQ request.
The exit routine may change any of the following values in the REPL. Appropriate changes will be made to the request.

Value	Flag
-----	-----
Repl_QName	Repl_RF1_ChangeQName
Repl_RName, Repl_RNameLen	Repl_RF1_ChangeRName (1)
Repl_Scope	Repl_RF1_ChangeScope
Repl_Ucb@	Repl_RF1_ChangeUCB@
(to bypass RNL processing)	Repl_RF1_BypassRNLs

(1) When changing the RName, do not alter Repl_RName alter the storage specified by the address. The routine calling the exit provides enough storage to save a 255 byte RName at that address.

ISGYREPL mapping

Table 927. Structure REPL

Offset	Offset		Len	Name(Dim)	Description
Dec	Hex	Type			
0	(0)	STRUCTURE	0	REPL	
0	(0)	CHARACTER	4	REPL_ID	Eyecatcher
4	(4)	CHARACTER	8	REPL_QNAME	Request QNAME
12	(C)	ADDRESS	4	REPL_RNAME@	Pointer to request RNAME
16	(10)	BITSTRING	1	REPL_RNAMELEN	Length of request RNAME

ISGYREPL mapping

Table 927. Structure REPL (continued)

Offset Dec	Offset Hex	Type	Len	Name(Dim)	Description
17	(11)	BITSTRING	1	REPL_SCOPE	Request scope, see Repl_kScope values
18	(12)	CHARACTER	2		Reserved
20	(14)	ADDRESS	4	REPL_UCB@	Pointer to UCB (set for RESERVE or DEQ with UCB requests)
24	(18)	CHARACTER	6	REPL_VOLSER	VOLSER of RESERVE UCB
30	(1E)	CHARACTER	2		Reserved
32	(20)	ADDRESS	4	REPL_ASCB@	Pointer to requester's ASCB
36	(24)	ADDRESS	4	REPL_TCB@	Pointer to requester's TCB or directed TCB if TCB= was specified
40	(28)	CHARACTER	8	REPL_JOBNAME	Requester's Jobname
48	(30)	CHARACTER	8	REPL_SYSNAME	Requester's Sysname
56	(38)	CHARACTER	4	REPL_STATEFLAGS(0)	State flags
56	(38)	BITSTRING	1	REPL_STATEFLAGS1(0)	First byte of state flags
		1...		REPL_SF1_ENQ	"X'80'" When 1, request is ENQ/RESERVE, when 0, request is DEQ
		.1..		REPL_SF1_RNLEQNO	"X'40'" RNL=NO was specified on the request: a change to the scope by the exit will not be honored
		..1.		REPL_SF1_AUTHORIZED	"X'20'" Caller is authorized
		...1		REPL_SF1_RETEQTEST	"X'10'" Request is RET=TEST (for ENQ requests)
		.... 1...		REPL_SF1_SHARE	"X'08'" For ENQ/RESERVE requests, when 1 request is for shared access, when 0, request is for exclusive access
57	(39)	CHARACTER	3		Reserved
60	(3C)	CHARACTER	4	REPL_REQUESTFLAGS(0)	Request flags
60	(3C)	BITSTRING	1	REPL_FLAGS1(0)	First byte of state flags
		1...		REPL_RF1_BYPASSRNL	"X'80'" When 1, request that RNL processing is to be bypassed
		.1..		REPL_RF1_CHANGEQNAME	"X'40'" When 1, request that the QNAME be changed
		..1.		REPL_RF1_CHANGENAME	"X'20'" When 1, request that the RNAME be changed
		...1		REPL_RF1_CHANGESCOPE	"X'10'" When 1, request that the Scope be changed
		.... 1...		REPL_RF1_CHANGEUCB@	"X'08'" When 1, request that the UCB address be changed
61	(3D)	CHARACTER	3		Reserved
64	(40)	CHARACTER	8		Reserved
72	(48)	CHARACTER	1	REPL_END(0)	End of REPL
REPL Constants					
72	(48)	X'C5D7D3'	0	REPL_KID	"C'REPL'" Used to identify control block
72	(48)	X'1'	0	REPL_KSCOPESYSTEM	"1" Scope=System
72	(48)	X'2'	0	REPL_KSCOPESYSTEMS	"2" Scope=Systems
72	(48)	X'48'	0	REPL_LEN	"*-REPL"

Table 928. Cross Reference for ISGYREPL

Name	Offset	Hex Tag
REPL	0	
REPL_ASCB@	20	
REPL_END	48	
REPL_FLAGS1	3C	
REPL_ID	0	
REPL_JOBNAME	28	
REPL_KID	48	C5D7D3
REPL_KSCOPESYSTEM	48	1
REPL_KSCOPESYSTEMS	48	2
REPL_LEN	48	48
REPL_QNAME	4	
REPL_REQUESTFLAGS	3C	
REPL_RF1_BYPASSRNL	3C	80
REPL_RF1_CHANGEQNAME	3C	40
REPL_RF1_CHANGENAME	3C	20
REPL_RF1_CHANGESCOPE	3C	10
REPL_RF1_CHANGEUCB@	3C	8
REPL_RNAME@	C	
REPL_RNAMELEN	10	
REPL_SCOPE	11	
REPL_SF1_AUTHORIZED	38	20
REPL_SF1_ENQ	38	80
REPL_SF1_RETEQTEST	38	10
REPL_SF1_RNLEQNO	38	40
REPL_SF1_SHARE	38	8
REPL_STATEFLAGS	38	
REPL_STATEFLAGS1	38	
REPL_SYSNAME	30	
REPL_TCB@	24	
REPL_UCB@	14	
REPL_VOLSER	18	

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