

**z/OS V2R1
MVS Data Areas
Volume 3 (IEFALCXT -IRARENF1)**

Document Number GA32-0937-02

z/OS V2R1



MVS Data Areas

Volume 3 (IEFALCXT -IRARENF1)

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Note

Before using this information and the product it supports, be sure to read the general information under "Notices" on page 695.

Third Edition, August 2014

This edition applies to Version 2 Release 1 of z/OS (5650-ZOS) and to all subsequent releases and modifications until otherwise indicated in new editions.

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About this information

This information is a graphic presentation of many data areas used by the z/OS operating system and by application programs. The data areas are one or more of the following:

- Programming interfaces
- Needed for debugging or diagnosis.

This information supports z/OS (5694-A01).

Who should use this information

This information is for system programmers who diagnose and debug operating system and programming problems. It provides information for debugging installation-provided programs or diagnosing IBM-provided programs. The user of this information should have a working knowledge of the functions and logic of the operating system.

How to use this information

Data areas are sequenced alphanumerically by data area acronym. Each data area has up to four sections:

- Programming Interface Information
- Header
- Data area map
- Cross-reference, if the data area map is long enough

The header

The header includes some or all of the following:

Common Name:	The descriptive name of the data area.
Macro ID:	The name of the mapping macro for the data area. Mapping macros can be issued in programs to generate a copy of the data area.
DSECT Name:	Name of the DSECT (dummy control section) created by the mapping macro.
Owning Component:	Component name and component identifier in parentheses.
Eye-Catcher ID:	Character string identifier of the eye-catcher (sometimes called the control block id) within the mapping macro. The offset and length of the eye-catcher are also included.
Storage Attributes:	The storage attributes of the data area, including the following: <ul style="list-style-type: none">Main Storage: Central storage attributes of the data area.Virtual Storage: Virtual storage attributes of the data area.Auxiliary Storage: Spool storage attributes of the data area.Subpool and Key: Subpool is the area of virtual storage that contains the data area. Key is the storage protect key for the storage represented by the data area.
Size:	The size of the data area in decimal bytes.
Created by:	Module, macro, or component whose use creates the data area.
Pointed to by:	Registers or data area fields that contain the address of the data area.
Serialization:	Method used to ensure that one user does not update a data area that is being updated or used by another user. The most common methods used for serialization are: <ul style="list-style-type: none">• Lock or locks• ENQ and DEQ macros• Compare and Swap (CS) instruction

- Disablement, which is disabling interruptions by setting bits in the program status word (PSW) of the program using the data area

Function:

Brief description of the use of the data area.

Data area map

The data area is described field by field. These field descriptions are taken directly from the system code.

The following is an example of the field descriptions for the ANYAREA data area:

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	384	ANYAREA	
0	(0)	CHARACTER		ANYBEGIN	BEGINNING OF ANYAREA
0	(0)	CHARACTER	4	ANYACRO	ACRONYM IN EBCDIC 'ANY '
4	(4)	ADDRESS	4	ANYADDR	ADDRESS OF NEXT ANYAREA ON QUEUE

For each field in the data area, the data area map provides the following information:

Offsets The address of the field, shown in both decimal (DEC) and hexadecimal (HEX in parentheses), relative to the beginning of the data area.

Type The kind of program data defined for this field, as follows:

Type	Description
ADDRESS	Address constant
BITSTRING	Bitstring constant
CHARACTER	Character value
DBL WORD	Double word boundary
FIXED	Arithmetic signed or unsigned value
HEX	Hexadecimal value
SIGNED	Arithmetic signed value
STRUCTURE	Level 1 control block name
UNSIGNED	Unsigned value

Len Size of the field in decimal bytes.

Name (Dim) The name of the field, bit, or mask.

Bit or mask names are preceded by a description of bit position and value, as follows:

1...	Refers to bit 0.
.... .11	Refers to bits 6 and 7.
...1	Refers to bit 3.
11.. 1111	Refers to bits 0, 1, 4, 5, 6, and 7.

Description A description of the purpose or meaning of the field, bit, or mask.

Cross reference

For each data area with more than 10 fields, the cross reference shows the following:

Name	The name of the field, bit, or mask.
Hex Offset	The hexadecimal offset of the field into the data area. For bits, the hexadecimal offset of the field containing the bit.
Hex Value	Values are shown only for bits, equates, and initialized character strings. For bits, the hexadecimal value shown implies the position of the bit in the field containing the bit.

Bit ANYBIT in the following illustration shows how to use the hexadecimal value. In the Example, cross reference for the ANYBIT bit looks like this:

Name	Hex Offset	Hex Value
ANYBIT	F0	80

In the map of the data area, the ANYBIT bit appears like this:

```
240  (F0)  FIXED      4  ANYWORD      CONTROL WORD
240  (F0)  BITSTRING  1  ANYBYTE      FLAG BYTE
1.... ....    ANYBIT      "X'80'" BIT ON MEANS THIS . . .
```

X'F0' is the offset of field ANYWORD into the data area. ANYWORD is a 4-byte field, which contains a 1-byte field named ANYBYTE. Both ANYWORD and ANYBYTE have the same offset. The first bit in both fields is named ANYBIT. Ignoring the other bits in the field ANYBYTE, if the ANYBIT bit is on, the value of field ANYBYTE would be 1000 0000, which is equivalent to X'80'. This value (X'80') is shown both in the Description in the data area map and in the column of the cross reference.

Programming interface information

This document contains information NOT intended to be used as programming interfaces of z/OS.

This document also contains intended programming interfaces that allow the customer to write programs to obtain the services of z/OS.

This information is identified where it occurs, either by an introductory statement to a chapter or section or by the following marking:

Programming Interface information

End of Programming Interface information

Unless otherwise specified, for data areas classified as programming interfaces, the **MACRO ID** and **DSECT NAME(S)** in the header are part of the programming interface. **ALL** other header information is included for diagnostic purposes **ONLY**.

Since a *data area name* that is designated as part of the programming interface is one of the following:

- MACRO ID
- DSECT NAME
- commonly-used name

before including the *data area name* in a program, refer to the data area header for the applicable **MACRO ID**.

If only certain fields in a data area are intended or not intended for use as a programming interface, the specific field name(s) are differentiated within the data area.

For data areas classified as programming interfaces, "RESERVED FOR USER" fields are part of the interface; all other "**RESERVED ...**" fields are **NOT** part of the interface.

For a field that is part of the programming interface, the only information that is part of the interface for writing programs is:

- field name
- data type
- field length
- description (purpose or allowed values)

INCLUDE ONLY data area: **ONLY** the MACRO ID is the programming interface. The DSECT NAME, constants, and data area itself are **NOT** part of the programming interface.

TOKEN ONLY data area: **ONLY** the address of the data area is a programming interface. The DSECT NAME, constants, and data area itself are **NOT** part of the programming interface.

IEFALCXT Information

IEFALCXT Programming Interface information

Programming Interface information

IEFALCXT

End of Programming Interface information

IEFALCXT Heading Information • IEFALCXT Map

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 DList
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 Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	ALCXT	
0	(0)	CHARACTER	6	ALCXT_ID	Eye-catcher ALCXT
6	(6)	SIGNED	2	ALCXT_VERSION	
8	(8)	SIGNED	2	ALCXT_LENGTH	version
10	(A)	CHARACTER	8	ALCXT_JOBNAME	length
18	(12)	CHARACTER	8	ALCXT_STEPNAME	Jobname
26	(1A)	CHARACTER	8	ALCXT_PROCTEPNAME	Stepname
34	(22)	SIGNED	2	ALCXT_FN	Proc Stepname
36	(24)	ADDRESS	4	ALCXT_DATA@	exit function
36	(24)	X'28'	0	ALCXT_LEN	pointer to ALCXT data area
					"*-ALCXT"

Offsets

Dec	Hex	Type/Value	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	ALCXT_BATCHRC	Retcode at end of Batch request
8	(8)	SIGNED	4	ALCXT_DYNBEGINDATA	Data for Dynalloc-Begin function
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_ALLOCATIONABENDED	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	

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	CHARACTER	8		Data for Batch Unallocate
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
8	(8)	X'C'	0	ALCXT_DATAAREA_LEN	"*-ALCXT_DATAAREA"

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	ALCXT_DDLIST	
0	(0)	CHARACTER	8	ALCXT_DDENTRY	
0	(0)	CHARACTER	8	ALCXT_DDNAME	List of DDnames

Comment

CONSTANTS

0	(0)	X'1'	0	KALCXT_VERSION_1	End of Comment
					"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'0'	0	KALCXT_GOODRC	
					"0" Good Retcode in Allocation
0	(0)	X'4'	0	KALCXT_FAILRC	
					"4" Failure Retcode in Allocation
0	(0)	X'8'	0	ALCXT_DDLIST_LEN	"*-ALCXT_DDLIST"

IEFALCXT Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
ALCXT	0				
ALCXT_ALLOCATIONABENDED	0		ALCXT_CONCATDDNUMBER	4	
ALCXT_BATCHBEGINDATA	0		ALCXT_DATA@	0	
ALCXT_BATCHENDDATA	0		ALCXT_DATAAREA	24	
ALCXT_BATCHRC	8		ALCXT_DATAAREA_LEN	0	
ALCXT_BATCHUNALLOC_RC	8		ALCXT_DDENTRY	8	C
ALCXT_BATCHUNALLOCDATA	0		ALCXT_DDLIST	0	
ALCXT_CONCATDATA	0		ALCXT_DDLIST_LEN	0	
ALCXT_CONCATDATA@	0		ALCXT_DDNAME	0	
			ALCXT_DECONCATDATA	0	8

IEFALCXT Cross Reference

Name	Hex Offset	Hex Value
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_STEPMNAME	12	
ALCXT_VERSION	6	
KALCXT_ALLOCATIONABENDED	0	5
KALCXT_BATCHBEGIN	0	1
KALCXT_BATCHEND	0	2
KALCXT_BATCHUNALLOC	0	8
KALCXT_DYNBEGIN	0	3
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_VERSION_1	0	1

IEFCITUX Information

IEFCITUX Heading Information

Common Name: Converter/Interpreter User Exit Trace Record Mapping
Macro ID: IEFCITUX
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 Map

Offsets

Dec	Hex	Type/Value	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	TXSMFP	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

IEFCNPRM Information

IEFCNPRM Heading Information

Common Name: Converter Parameter List
Macro ID: IEFCNPRM
DSECT Name: CNPRM, CNPREXIT
Owning Component: Converter (SC1B9)
Eye-Catcher ID:
 Offset: 0
 Length: 4
Storage Attributes: Subpool: Any private area subpool
 Key: Key of caller
 Residency: Above or Below
Size: 120 decimal
Created by: FREQUENCY = 1 per instance of a converter
Pointed to by: Caller of the MVS Converter
 Register 1 contains the address of
 CNPRM upon entry to the Converter,
 CNPRLXST points to CNPREXIT when exits
 are included.
Serialization: None
Function: Maps the input to the MVS Converter.

IEFCNPRM Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	120	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

Comment

Converter Option Switches

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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
		..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.
		.... .11		*	
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	CNPRSTM	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	CNPRLXST	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

IEFCNPRM Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<p>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.</p>					
					End of Comment
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)
78	(4E)	CHARACTER	1	CNPRCMDS	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	CNPRMSGL	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
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.

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	*	CNPREXIT	
0	(0)	CHARACTER	8	CNPRXHDR	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

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	16	JES_OPEN_SYSIN_PARMLST	
0	(0)	SIGNED	4	JES_OPEN_SEQ_NUM	
4	(4)	CHARACTER	12	*	DS Seq number Reserved

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	16	JES_PUT_SYSIN_PARMLST	
0	(0)	ADDRESS	4	JES_PUT_RECORD@	
4	(4)	CHARACTER	12	*	Rec Addr Reserved

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	16	JES_CLOSE_SYSIN_PARMLST	
0	(0)	CHARACTER	16	*	Reserved

IEFCNPRM Constants

Len	Type	Value	Name	Description
4	DECIMAL	2	CNPRCVER	Current version number
4	DECIMAL	2	CNPRS\$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	CNPROOPEN	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	CNPRUVJX	IEFUJV with environment information

IEFCNPRM Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
CNPBCP_LEVEL	70		CNPREXEP		A
CNPJOBCORRELATOR_PTR	74		CNPREXID		9
CNPR_DSENQSHR_ALLOW	57	40	CNPREXIT		0
CNPR_DSENQSHR_AUTO	57	80	CNPREXTP		60
CNPR_JOBCLASS_ATTR	57		CNPRHDR		0
CNPR_SYSSYM_ALLOW	57	20	CNPRJBFL		19
CNPRACBS	1C		CNPRJCL		24
CNPRACCT	3E	02	CNPRJCLI		19 08
CNPRACRO	0		CNPRJDVT		58
CNPRASID	66		CNPRJMR		2C
CNPRAUTH	50		CNPRJPTY		3F
CNPRCMDS	4E		CNPRJSYM		6C
CNPRCONS	14		CNPRLABL		4F
CNPRDIF	64	20	CNPRLKID		8
CNPRDINC	64	10	CNPRLNTH		6
CNPRDJLI	64	40	CNPRM		0
CNPRENV	8		CNPRMCLS		56
CNPREXAD	C		CNPRMERG		64 04
			CNPRMIN		41
			CNPRMLV1		54
			CNPRMLV2		55
			CNPRMSG		20
			CNPRMSGL		54

IEFCNPRM Cross Reference

Name	Hex Offset	Hex Value
CNPRNEW	18	08
CNPRNOWT	18	20
CNPROPTS	18	
CNPROPT1	64	
CNPRPARM	3E	
CNPRPGMN	3E	01
CNPRPROC	30	
CNPRREAS	C	
CNPRREG	49	
CNPRSEC	47	
CNPRSMF	18	80
CNPRSSYM	38	
CNPRSSYS	10	
CNPRSTMT	28	
CNPRSWAA	3E	04
CNPRSWTO	64	80
CNPRSYML	3C	
CNPRSYMT	68	
CNPRTTERM	18	04
CNPRTIME	41	
CNPRTSOP	18	40
CNPRTXT	1C	
CNPRVERS	4	
CNPRWEE	18	10
CNPRXENT	8	
CNPRXHDR	0	
CNPRXLEN	0	
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	

IEFDELT Information

IEFDELT Programming Interface information

Programming Interface information

IEFDELT

End of Programming Interface information

IEFDELT Heading Information • IEFDELT Map

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 Map

Offsets

Dec	Hex	Type/Value	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:

End of Comment _____
1... ELT EDTVAL "X'80" EDT for this ELT exists

Comment

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.

End of Comment				
	.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
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

End of Comment

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	"*-FL T"

IEFDELT Cross Reference

Name	Hex Offset	Hex Value
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	

IEFDISMP Information

IEFDISMP Programming Interface information

Programming Interface information

IEFDISMP

End of Programming Interface information

IEFDISMP Heading Information • IEFDISMP Map

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:

$$\text{DVAR_HDR_LEN} + (\text{number concatenated DDs} * \text{DVAR_DEVLST_ADDRENT_LEN}) + (\text{number concatenated DDs} * \text{DVAR_DEVLST_HDR_LEN}) + (\text{total number of devices} * \text{DVAR_DEVENT_LEN})$$
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 RETRIEVE DEVIOENTRY requests

IEFDISMP Map

Offsets

Dec	Hex	Type/Value	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

Comment

End of Comment

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

Offsets

Dec	Hex	Type/Value	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

Comment

End of Comment

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	

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
					*** End of device list entry

Offsets

Dec	Hex	Type/Value	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

Comment

End of Comment -----					
0	(0)	X'4'	0	DEVIODEVLISTENTRY	*** DevIO list entry
4	(4)	ADDRESS	4	DEVOUCBPTR	UCB address
8	(8)	SIGNED	4	DEVOBLOCKSIZE	Block size
12	(C)	SIGNED	4	DEVIOEXCPCOUNT	# of EXCPs issued against this device
16	(10)	SIGNED	4	DEVOCONNECTTIME	Device connect time
16	(10)	X'14'	0	DEVIODEVLISTENTRYEND	*** End of DevIO list entry

Comment

Constants

End of Comment -----					
16	(10)	X'8'	0	DVAR_HDR_LEN	"DVAR_HEADER_END-DVAR_HEADER" Length of the device area header
16	(10)	X'4'	0	DVAR_DEVLST_ADDRENT_LEN	"DVAR_DEVLST_ADDR_ENTRY_END-DVAR_DEVLST_ADD"
0	(0)	X'4'	0	DVAR_DEVLST_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	DEVIODEVLISTHEADERLENGTH	"DevIODevListHeaderEnd-DevIODevListHeader" Length of DevIO list header
0	(0)	X'10'	0	DEVIODEVLISTENTRYLENGTH	"DevIODevListEntryEnd-DevIODevListEntry" Length of DevIO list entry

IEFDISMP Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
DEVOBLOCKSIZE	8		DEVOUCBPTR	0	
DEVIOCONNECTTIME	10		DVAR	4	
DEVIODEVLIST	0		DVAR_DEV_ADDR	0	
DEVIODEVLISTENTRY	0	4	DVAR_DEVENT_LEN	4	
DEVIODEVLISTENTRYEND	10	14	DVAR_DEVICE_LIST	0	
DEVIODEVLISTENTRYLENGTH	0	10	DVAR_DEVLST_ADDR	8	
DEVIODEVLISTHEADER	0	0	DVAR_DEVLST_ADDR_ENTRY	4	8
DEVIODEVLISTHEADEREND	0	4	DVAR_DEVLST_ADDR_ENTRY_END	8	C
DEVIODEVLISTHEADERLENGTH	0	4	DVAR_DEVLST_ADDRENT_LEN	10	4
DEVIOEXPCOUNT	C		DVAR_DEVLST_HDR_LEN	0	4
DEVIONUMENTRIES			DVAR_ENTRY_END		

IEFDISMP Cross Reference

Name	Hex Offset	Hex Value
DVAR_HDR_LEN	4	8
DVAR_HEADER	10	8
DVAR_HEADER_END	0	0
DVAR_LENGTH	4	8
DVAR_LIST_ENTRY	1	
DVAR_LIST_HEADER	0	4
DVAR_LIST_HEADER_END	0	0
DVAR_NUM_DVENT	0	4
DVAR_NUM_DVLIST	4	
DVAR_SUBPOOL	0	

IEFDISRC Information

IEFDISRC Programming Interface information

Programming Interface information

IEFDISRC

End of Programming Interface information

IEFDISRC Heading Information • IEFDISRC Map

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 Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	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'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

Comment

IEFDDSRV REASON CODES (decimal)

RETURN CODE DDSRV_INVALID_PARAMETERS (decimal)

End of Comment

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
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

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
RETURN CODE DDSRV_REQUEST_FAIL (decimal)					
0	(0)	X'4'	0	DDSRV_INVALID_DNAME	End of Comment "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
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_NEWDNAME	"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

IEFDISRC Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
DDSRV_ASID_1_NOT_ALLOWED	0	134	DDSRV_INVALID_NEWDNAME	0	8
DDSRV_BAD_PARM	0	18	DDSRV_INVALID_PARAMETERS	0	108
DDSRV_BLANK_DDNAME	0	4	DDSRV_INVALID_SUBPOOL	0	8
DDSRV_DD_IN_CONCATENATION	0	10C	DDSRV_INVALID_TCB	0	10
DDSRV_DD_IS_OPEN	0	100	DDSRV_LOCK_FAIL	0	14
DDSRV_DD_NAME_ALREADY_IN_USE	0	130	DDSRV_MISMATCHED_VERSLEN	0	10
DDSRV_DD_VALIDATION_FAILED	0	128	DDSRV_OBTAINED_DSAB_ABOVE	0	20
DDSRV_DSAB_ABOVE	0	18	DDSRV_RCN_OK	0	1C
DDSRV_FEATURE_ALREADY_SET	0	12C	DDSRV_RCVENT	0	0
DDSRV_FEATURE_NOT_ENABLED	0	104	DDSRV_REQUEST_FAIL	0	10
DDSRV_FUNCTION_COMPLETE	0	0	DDSRV_RSN_OK	0	C
DDSRV_INPUT_DSAB_ABOVE	0	18	DDSRV_SUCCESS	0	0
DDSRV_INVALID_DDNAME	0	4	DDSRV_TCTTIOT_OFFSET_ZERO	0	0
DDSRV_INVALID_DSAB			DDSRV_TIOTENQ_FAIL	0	20
			DDSRV_UNSUPPORTED_FUNCTION	0	C

IEFDISRC Cross Reference

Name	Hex Offset	Hex Value
DDSRV_UNSUPPORTED_VERSFUNC	0	2C
DDSRV_UNSUPPORTED_VERSION	0	24
DDSRV_ZERO_ACB	0	28
DDSRV_ZERO_DCB	0	14
DDSRV_ZERO_DSAB	0	C
	0	8

IEFDISXT Information

IEFDISXT Programming Interface information

Programming Interface information

IEFDISXT

End of Programming Interface information

IEFDISXT Heading Information • IEFDISXT Map

IEFDISXT Heading Information

Common Name: IEF_ALLC_MOD exit parameter list
Macro ID: IEFDISXT
DSECT Name: DISXT_PARMLIST
Owning 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 Map

Offsets					
Dec	Hex	Type/Value	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
Comment					
Modify function constants					
End of Comment					
48	(30)	X'1'	0	KDISXT_VERSION_1	"1"
Comment					
DISXT_len (modify function) constants					
End of Comment					
48	(30)	X'1'	0	KDISXT_MODDDNAME	"1"
48	(30)	X'38'	0	DISXT_PARMLIST_LEN	"*-DISXT_PARMLIST"

IEFDISXT Cross Reference

Name	Hex Offset	Hex Value
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_PARMS	24	
DISXT_PROCSTEPNAME	14	
DISXT_STEPNAME	1C	
DISXT_VERSION	6	
KDISXT_MODDDNAME	30	1
KDISXT_VERSION_1	30	1

IEFDOKEY Information

IEFDOKEY Programming Interface information

Programming Interface information

IEFDOKEY

End of Programming Interface information

IEFDOKEY Heading Information • IEFDOKEY Map

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 Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0		
		.1. .11		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		
		.1..1 .1..		DODATACK	"X'2022'" DATAACK
		.... 1..11		DODDDNAME	"X'0054'" DDNAME
		.1.. 1..1		DODEFAUL	"X'000B'" DEFAULT
		.... 11..		DODEPT	"X'0029'" DEPT
		.1.. ..11		DODEST	"X'000C'" DEST
		.11. 11..		DODPAGEBL	"X'0023'" DPAGELBL
		.11. 11..1		DODUPLEX	"X'003D'" DUPLEX
		.... 11..1		DOFCB	"X'000D'" FCB
		.... 111..		DOFLASE	"X'000E'" FLASH (overlay name)
		.... 1111..		DOFLASF	"X'000F'" FLASH (count)
		.1..1 11..1		DOFORMD	"X'001D'" FORMDEF
		.11..1 11..1		DOFORMLN	"X'003B'" FORMLEN
		.1..1 ..1..		DOFORMS	"X'0010'" FORMS
		.1..1 ..11..		DOFSSDAT	"X'0047'" FSSDATA
		.1..1 ..1..1		DOGROUPI	"X'0011'" GROUPID
		.1..1 ..1..		DOIINDEX	"X'0012'" INDEX
		.11..1 111..		DOINTRAY	"X'003E'" INTRAY
		.1..1 ..1..		DOLINDEX	"X'0014'" LINDEX
		.1..1 ..1..1		DOLINECT	"X'0015'" LINECT
		.1..1 ..1..1		DOMAILBC	"X'0049'" MAILBCC
		.1..1 ..1..1		DOMAILCC	"X'004A'" MAILCC
		.1..1 ..1..11		DOMAILFI	"X'004B'" MAILFILE
		.1..1 ..11..		DOMAILFR	"X'004C'" MAILFROM
		.1..1 ..11..1		DOMAILTO	"X'004D'" MAILTO
0	(0)	BITSTRING	0		
		.1..1 ..11..		DOMERGE	"X'8003'" MERGE
		.1..1 ..111..		DOMODIF6	"X'0016'" MODIFY (module name)
		.1..1 ..111..1		DOMODIF7	"X'0017'" MODIFY (TRC)
		.1..1 ..1111..		DONAME	"X'002D'" NAME
		.1..1 ..1111..1		DONOTIFY	"X'002F'" NOTIFY
		.1..1 ..1111..11..		DOXOFSTB	"X'0043'" OFFSETXB
		.1..1 ..1111..11..1		DOXOFSTF	"X'0041'" OFFSETXF

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	BITSTRING	0	DOOUTBIN	"X'2023'" OUTBIN
				DOOUTDB	"X'002B'" OUTDISP - NORMAL
				DOOUTDC	"X'002C'" OUTDISP - ABNORMAL
				DOOVFL	"X'0033'" OVERFLOW
				DOOVRLYB	"X'0040'" OVERLAYB
				DOOVRLYF	"X'003F'" OVERLAYF
				DOPAGEDE	"X'001F'" PAGEDEF
				DOPIMSG	"X'0021'" PIMSG
				DOPORTNO	"X'0045'" PORTNO
				DOPRMODE	"X'0018'" PRMODE
				DOPROPTN	"X'0039'" PRTOPTNS
				DOPRTATT	"X'0050'" PRTATTRS
				DOPRTERR	"X'003C'" PRTERRO
				DOPRTQUE	"X'0038'" PRTQUEUE
				DOPRTY	"X'0019'" PRTY
				DOREPLYT	"X'004E'" REPLYTO
				DORESFMT	"X'0046'" RESFMT
				DORETANF	"X'0037'" RETAINF
				DORETANS	"X'0036'" RETAINS
				DORETRYT	"X'0034'" RETRYT
				DORETRYL	"X'0035'" RETRYL
				DOROOM	"X'0026'" ROOM
				DOSYSARE	"X'0024'" SYSAREA
				DOOTHRESH	"X'0022'" THRESHLD
				DOTITLE	"X'002A'" TITLE
				DOTRC	"X'001A'" TRC
				DOUCS	"X'001B'" UCS
				DOUSERDA	"X'0031'" USERDATA
				DOUSERLI	"X'002E'" USERLIB
				DOUSERPA	"X'004F'" USERPATH
				DOWRITER	"X'001C'" WRITER

IEFDOKEY Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
DOADDRES	0	27	DOLINECT	0	15
DOAFPPRM	0	51	DOMAILBC	0	49
DOAFPST	0	48	DOMAILCC	0	4A
DOBUILD	0	28	DOMAILFI	0	4B
DOBURST	0	1	DOMAILFR	0	4C
DOCHARS	0	2	DOMAILTO	0	4D
DOCKPTLI	0	3	DOMERGE	0	8003
DOCKPTPA	0	4	DOMODIF6	0	16
DOCKPTSE	0	5	DOMODIF7	0	17
DOCLASS	0	6	DONAME	0	2D
DOCOLORM	0	3A	DONOTIFY	0	2F
DOCOMPAC	0	7	DOOUTBIN	0	2023
DOCOMSET	0	32	DOOUTDB	0	2B
DOCONTRO	0	8	DOOUTDC	0	2C
DOCOPIEA	0	A	DOOVFL	0	33
DOCOPIE9	0	9	DOOVRLYB	0	40
DOCOPYCN	0	52	DOOVRLYF	0	3F
DODATAACK	0	2022	DOPAGEDE	0	1F
DODDDNAME	0	54	DOPIMSG	0	21
DODEFAUL	0	B	DOPORTNO	0	45
DODEPT	0	29	DOPRMODE	0	18
DODEST	0	C	DOPROPTN	0	39
DODPAGEL	0	23	DOPRTATT	0	50
DODUPLEX	0	3D	DOPRTERR	0	3C
DOFCB	0	D	DOPRTQUE	0	38
DOFLASE	0	E	DOPRTY	0	19
DOFLASF	0	F	DOREPLYT	0	4E
DOFORMD	0	1D	DORESFMT	0	46
DOFORMLN	0	3B	DORETANF	0	37
DOFORMS	0	10	DORETANS	0	36
DOFSSDAT	0	47	DORETRYL	0	35
DOGROUPI	0	11	DORETRYT	0	34
DOIINDEX	0	12	DOROOM	0	26
DOINTRAY	0	3E	DOSYSARE	0	24
DOLINDEX	0	14	DOOTHRESH	0	22

IEFDOKEY Cross Reference

Name	Hex Offset	Hex Value
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

IEFDORC Information

IEFDORC Programming Interface information

Programming Interface information

IEFDORC

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

- DORCABNA
- DORCABNB
- DORCABNC
- DORCABN1
- DORCABN2
- DORCABN3
- DORCABN4
- DORCABN5
- DORCABN6
- DORCABN7
- DORCABN8
- DORCABN9
- DORCAB12
- DORCAB13
- DORCAB14
- DORCAB15

End of Programming Interface information

IEFDORC Heading Information • IEFDORC Map

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 Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0		
0	(0)	X'0'	0	DONOERRS	"0" Successful completion
0	(0)	X'4'	0	DOENVERR	"4" Environmental error
0	(0)	X'8'	0	DOREQDNY	"8" Request denied by, or because of, the installation exit
0	(0)	X'C'	0	DOINVPRM	"12" Invalid parameter list
0	(0)	X'10'	0	DOSYSERR	"16" System error

Comment

Dynamic Output Reason Codes

0	(0)	X'0'	0	DORCNOER	End of Comment "0" X'000' Processing successful
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Comment

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	End of Comment "768" X'300' Invalid choice specified for parameter
0	(0)	X'301'	0	DORCGMAX	"769" X'301' Numeric parameter exceeds maximum
0	(0)	X'302'	0	DORCLMIN	"770" X'302' Numeric parameter less than minimum
0	(0)	X'303'	0	DORCNNUM	"771" X'303' No parameter specified
0	(0)	X'306'	0	DORCNLLN	"774" X'306' Length of level exceeds maximum
0	(0)	X'307'	0	DORCNLNM	"775" X'307' Number of levels exceeds the maximum
0	(0)	X'308'	0	DORCNFCF	"776" X'308' Invalid first character of level
0	(0)	X'309'	0	DORCNOCH	"777" X'309' Invalid character other than the first in level in parameter
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

Comment

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	End of Comment "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

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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)
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	DORCNZR0	"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 DOCREUS must both be on or both be off

Comment

Environmental errors

End of Comment

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	DORCNONNM	"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

Comment

Installation exit caused errors

End of Comment

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

Comment

System errors

End of Comment

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

Comment

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.

End of Comment

IEFDORC Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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
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 4 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 RETURNNSWB
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

IEFDORC Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
DOENVERR	0	4	DORCIVFN	0	388
DOINVPRM	0	C	DORCIVHB	0	38E
DONOERRS	0	0	DORCIVID	0	385
DORCABNA	0	A	DORCIVKY	0	30F
DORCABNB	0	B	DORCIVLN	0	30C
DORCABNC	0	C	DORCIVNM	0	38B
DORCABND	0	700	DORCIVNP	0	30B
DORCABN1	0	1	DORCIVRZ	0	38C
DORCABN2	0	2	DORCIVTP	0	389
DORCABN3	0	3	DORCIVTU	0	38F
DORCABN4	0	4	DORCIVTX	0	312
DORCABN5	0	5	DORCIVVR	0	386
DORCABN6	0	6	DORCLMIN	0	302
DORCABN7	0	7	DORCLNIV	0	380
DORCABN8	0	8	DORCMTUP	0	311
DORCABN9	0	9	DORCNDES	0	402
DORCAB12	0	12	DORCNENQ	0	405
DORCAB13	0	13	DORCNFCFH	0	308
DORCAB14	0	14	DORCNKEY	0	30D
DORCAB15	0	15	DORCNLIV	0	30A
DORCALTP	0	409	DORCNLLN	0	306
DORCALTT	0	408	DORCNLNM	0	307
DORCBTCH	0	403	DORCNNUM	0	303
DORCDUPK	0	30E	DORCNOCH	0	309
DORCESTA	0	404	DORCNOER	0	0
DORCEXST	0	401	DORCNOFN	0	387
DORCGET1	0	400	DORCNONM	0	406
DORCGET2	0	407	DORCNSLE	0	310
DORCGMAX	0	301	DORCNZF1	0	381
DORCIBIT	0	314	DORCNZF2	0	382
DORCINKE	0	503	DORCNZR0	0	391
DORCINRC	0	501	DORCNZR1	0	383
DORCINRT	0	502	DORCNZR2	0	384
DORCINST	0	500	DORCONEU	0	392
DORCISEQ	0	313	DORCP0C4	0	390
DORCIVCH	0	300	DORCREON	0	394
DORCIVDZ	0	38D	DORCREUS	0	393
DORCIVEQ	0	38A	DORCSJAB	0	701

Name	Hex Offset	Hex Value
DORCXABD	0	702
DORCZKEY	0	504
DOREQDNY	0	8
DOSYSERR	0	10

IEFDOTUM Information

IEFDOTUM Programming Interface Information

Programming Interface Information

IEFDOTUM

End of Programming Interface Information

IEFDOTUM Heading Information • IEF DOTUM Cross Reference

IEFDOTUM Heading Information

Common Name: Dynamic Output Text Unit Mappings
Macro ID: IEF DOTUM
DSECT Name: DOCNTLST, DOCUNIT, 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 Map

Offsets					
Dec	Hex	Type/Value	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" On for the last text unit pointer

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	DOCUNIT	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

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	DOCNTFLD	Mapping for length/parameter pair
0	(0)	BITSTRING	2	DOCNTLEN	Length of parameter
2	(2)	CHARACTER	1	DOCNTPRM	Parameter

IEFDOTUM Cross Reference

Name	Hex Offset	Hex Value
DOCNTENT	4	
DOCNTFLD	0	
DOCNTKEY	0	
DOCNTLEN	0	
DOCNTLST	0	
DOCNTLT	0	80
DOCNTLTH	4	
DOCNTNUM	2	
DOCNTPAR	6	
DOCNTPRM	2	
DOCNTPTR	0	
DOCUNIT	0	

IEFENFSC Information

IEFENFSC Heading Information

Common Name: ENF Schedule SRB Listener Control Block
Macro ID: IEFENFSC
DSECT Name: ENFSC
Owning 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: IEFENFNM
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 listener element chain. This block holds information that can be accessed by the routine that schedules the SRBs (IEFENFNM), the ENF SRB routine (IEFENFSR), and the SRB resource termination manager (IEFENFPD).

IEFENFSC Map

Offsets					
Dec	Hex	Type/Value	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	
		.111 1111		ENFSC_RSV1	When on, the signaler has coded FREEPRM
10	(A)	UNSIGNED	1	ENFSC_SUBPOOL	Reserved
11	(B)	UNSIGNED	1	ENFSC_KEY	ENFSC subpool
12	(C)	CHARACTER	4	ENFSC_EVENT_CODE	ENFSC key
16	(10)	SIGNED	4	ENFSC_USE_COUNT	Event code
20	(14)	ADDRESS	4	ENFSC_SIGP_ADDR	The number of users of this control block.
24	(18)	SIGNED	4	ENFSC_SIGP_LENGTH	Address of the signaller's parameter list
28	(1C)	UNSIGNED	1	ENFSC_SIGP_SUBPOOL	Length of the signaller's parameter list if FREEPRM coded, otherwise zero.
29	(1D)	UNSIGNED	1	ENFSC_SIGP_KEY	Subpool number of storage holding signaller's parm list if FREEPRM coded, otherwise zero.
30	(1E)	SIGNED	2	ENFSCSIGNALLERSHASN	Key of storage holding signaller's parameter list if FREEPRM coded, otherwise zero.
32	(20)	ADDRESS	4	ENFSC_ENSG_ADDR	Signaller's HASN
36	(24)	ADDRESS	4	ENFSCSIGNALLERSR14	Address of ENSG parameter list to be provided to listeners
					Signaller's return addr

IEFENFSC Constants • IEFENFSC Cross Reference

IEFENFSC Constants

Len	Type	Value	Name	Description
6	CHARACTER	ENFSC	ENFCID	
1	DECIMAL	2	ENFSCVER	
1	DECIMAL	0	ENFSC_KEY_CONST	
1	DECIMAL	241	ENFSC_SUBPOOL_CONST	

IEFENFSC Cross Reference

Name	Hex Offset	Hex Value
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	

IEFENFSG Information

IEFENFSG Programming Interface information

Programming Interface information

IEFENFSG

End of Programming Interface information

IEFENFSG Heading Information • IEFENFSG Map

IEFENFSG Heading Information

Common Name: ENF Signal Data
Macro ID: IEFENFSG
DSECT Name: ENSG - ENF signal information
Owning Component: Event Notification Facility (BB131)
Eye-Catcher ID:
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 Map

Offsets					
Dec	Hex	Type/Value	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 ENSGCVER.
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
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

Comment

Constant values

End of Comment

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

IEFENFSG Cross Reference

Name	Hex Offset	Hex Value
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

IEFENFSP Information

IEFENFSP Heading Information

Common Name: ENF Schedule SRB Parameter List
Macro ID: IEFENFSP
DSECT Name: ENFSP
Owning 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)
Created by: FREQUENCY = One per SRB scheduled from IEFENFNM
Pointed to by: IEFENFNM
Serialization: SRBPARM in IEFENFNM and IEFENFSR
Function: None
 Parameter list passed from IEFENFNM to the
 ENF SRB Routine (IEFEFNSR).

IEFENFSP Map

Offsets					
Dec	Hex	Type/Value	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

IEFENFSP Constants

Len	Type	Value	Name	Description
6	CHARACTER	ENFSP	ENFSPCID	Parameter list ID
1	DECIMAL	1	ENFSPVER	Parameter list version

IEFENF40 Information

IEFENF40 Programming Interface information

Programming Interface information

IEFENF40

End of Programming Interface information

IEFENF40 Heading Information • IEFENF40 Cross Reference

IEFENF40 Heading Information

Common Name: Mapping macro for ENF Event Code #40 Listeners
Macro ID: IEFENF40
DSECT Name: ENF40
Owning 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 Map

Offsets					
Dec	Hex	Type/Value	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_SSNN	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
	....	....		ENF40_TERM	"X'40000000" Job entry subsystem is ending qualifier

IEFENF40 Cross Reference

Name	Hex Offset	Hex Value
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_SSNN	10	
ENF40_TERM	1C	0
ENF40_VERSION	6	

IEFEVARY Information

IEFEVARY Programming Interface information

Programming Interface information

IEFEVARY

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

- EVACSCB

End of Programming Interface information

IEFEVARY Heading Information • IFEVARY Cross Reference

IEFEVARY Heading Information

Common Name: VARY PARAMETER LIST
Macro ID: IFEVARY
DSECT Name: EVARY
Owning 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 Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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.		EVADEVC	"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
		..... .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	EVAVALID	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

IEFEVARY Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
EVACART	1C		EVARSV5	6	
EVACONSO	18		EVARSV8	8	1
EVACSCB	C		EVARSV9	8	3
EVADEVC	9	20	EVARY	0	
EVAFLGS	9		EVASCHG	9	8
EVAFORCE	9	2	EVAUCBA	0	
EVAFRSV3	9	1	EVAVALID	9	10
EVAFUNC	8		EVAVARY	8	2
EVALEN	A		EVAVALID	10	
EVALLEN	24	38			
EVAOFLI	9	40			
EVAONLI	9	80			
EVAPND	9	4			
EVARSV1	7				
EVARSV10	8	4			
EVARSV11	16				
EVARSV12	24				
EVARSV4	4				

IEFJFRQP Information

IEFJFRQP Programming Interface information

Programming Interface information

IEFJFRQP

End of Programming Interface information

IEFJFRQP Heading Information • IEFJFRQP Map

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 Map

Offsets

Dec	Hex	Type/Value	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
	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

Offsets

Dec	Hex	Type/Value	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

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	SIGNED	4	FRQP_PLIST@	Address of IEFJFRQP parameter list
4	(4)	SIGNED	4	FRQP_DYNAREA@	
				FRQP_DYNAREA_LAST	Address of working storage provided to exit routine "X'80'" High-order bit indicates that this is the last pointer in the parameter list
					Comment

Constant values

End of Comment					
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
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
					Comment

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.

End of Comment					
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
					Comment

IEFJFRQP Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
FRQP	0		FRQP_STOP_EXIT_ROUTINE_CALLS	4	18
FRQP_BCST_RQST	10	80	FRQP_SUPPRESS	4	4
FRQP_CORRELATION_TOKEN	18		FRQP_SYSPLEX_ID	20	
FRQP_CURRENT_SSI_RETCODE	14		FRQP_SYSTEM_TOKEN	18	
FRQP_DYNAREA_LAST	4	80	FRQPCID	4	D9D8D7
FRQP_DYNAREA@	4		FRQPCVER	4	1
FRQP_DYNSIZE	4	200	FRQPID	0	
FRQP_END	24	28	FRQPLEN	6	
FRQP_HEADER	0		FRQPVERS	4	
FRQP_INPUT	C		FRQPVER1	4	1
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				

IEFJSBVT Information

IEFJSBVT Heading Information

Common Name: Function Routine Input Table Mapping
Macro ID: IEFJSBVT
DSECT Name: JSBVT (fixed header), JSBTBL (function routine area), JSBFCDG (function code area)
Owning 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 VTSPL 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 Map

Offsets					
Dec	Hex	Type/Value	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

Offsets					
Dec	Hex	Type/Value	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
10	(A)	SIGNED	2	JSBNUM	NUMBER OF FUNCTION CODES SUPPORTED
10	(A)	X'C'	0	JSBTBLGT	"*-JSBTBL" SIZE OF FUNCTION ROUTINE DATA

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	JSBFCDG	ONE FOR EACH FUNCTION CODE
0	(0)	SIGNED	2	JSBCOD	THE FUNCTION CODE
0	(0)	X'2'	0	JSBCDLGT	"*-JSBFCDG" SIZE OF FUNCTION CODE
0	(0)	X'1'	0	JSBCVERS	"1" CURRENT VERSION OF MAPPING

IEFJSBVT Cross Reference

IEFJSBVT Cross Reference

Name	Hex Offset	Hex Value
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

IEFJSQRY Information

IEFJSQRY Programming Interface information

Programming Interface information

IEFJSQRY

End of Programming Interface information

IEFJSQRY Heading Information • IEFJSQRY Map

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 Map

Offsets

Dec	Hex	Type/Value	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

Offsets

Dec	Hex	Type/Value	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

Comment

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.

End of Comment

12	(C)	CHARACTER	2	JQRY_STATUS	Subsystem flags (0)
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

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
		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.
13	(D)	CHARACTER	1	JQRY_ACTIVE1	"X'10'" Subsystem is active
		.... ...1		JQRY_STATUS2	Subsystem flags - byte 2
				JQRY_INCOMPLETE2	
14	(E)	SIGNED	2	JQRY_NUM_VT	"X'01'" Data for this subsystem may be incomplete
14	(E)	X'10'	0	JQRY_VT_LIST	Number of vector tables associated with this subsystem ** List of associated vector tables (space for description of two vector tables)

Offsets

Dec	Hex	Type/Value	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
		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

Comment

Constant values

Dec	Hex	Type/Value	Len	Name	Description
44	(2C)	X'D8D9E8'	0	JQRYCID	"CJQRY" 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

End of Comment

IEFJSQRY Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
JQRY_ACTIVE	C	1000			
JQRY_ACTIVE1	C	10	JQRY_NUM_SUBSYS	D	1
JQRY_DYNAMIC	C	4000			
JQRY_DYNAMIC1	C	40	JQRY_NUM_VT	C	
JQRY_DYNSSI_COMMANDS	C	2000	JQRY_PRIMARY	E	
JQRY_DYNSSI_COMMANDS1	C	20	JQRY_PRIMARY1	C	8000
JQRY_HEADER	0		JQRY_SSID	C	80
JQRY_HEADER_LEN	2C	10	JQRY_SSID_JES2	4	2
JQRY_INCOMPLETE	C	1	JQRY_SSID_JES3	4	3
JQRY_INCOMPLETE2			JQRY_SSID_UNKNOWN	4	0
			JQRY_STATUS	C	

IEFJSQRY Cross Reference

Name	Hex Offset	Hex Value
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

IEFJSRC Information

IEFJSRC Programming Interface information

Programming Interface information

IEFJSRC

End of Programming Interface information

IEFJSRC Heading Information • IEFJSRC Map

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 Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0		
0	(0)	X'0'	0	IEFSSI_SUCCESS	"0" X'000' Processing successful
0	(0)	X'4'	0	IEFSSI_WARNING	"4" X'004' Processing partially successful
0	(0)	X'8'	0	IEFSSI_INVALID_PARAMETERS	"8" X'008' Invalid parameters
0	(0)	X'C'	0	IEFSSI_REQUEST_FAIL	"12" X'00C' Request failed
0	(0)	X'14'	0	IEFSSI_SYSTEM_ERROR	"20" X'014' System error
0	(0)	X'18'	0	IEFSSI_UNAVAILABLE	"24" X'018' SSI service routines not available (too early or down-level system)

Comment

IEFSSI REASON CODES (decimal)
RETURN CODE IEFSSI_SUCCESS

0	(0)	X'0'	0	IEFSSI_FUNCTIONS_COMPLETE	"0" X'000' Subsystem service request complete
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Comment

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.

Comment

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.

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
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	End of Comment "900" X'384' Data returned by query may be incomplete. Check the JQRY_INCOMPLETE flag for each subsystem queried.
Comment					
RETURN CODE IEFSSI_INVALID_PARAMETERS					
0	(0)	X'0'	0	IEFSSI_SUBSYSTEM_UNKNOWN	End of Comment "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
Comment					
RETURN CODE IEFSSI_REQUEST_FAIL ADD REQUEST ERRORS (100 - 199)					
0	(0)	X'64'	0	IEFSSI_DUPLICATE_SUBSYSTEM	End of Comment "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
Comment					
ACTIVATE REQUEST ERRORS (200 - 299)					
0	(0)	X'C8'	0	IEFSSI_SUBSYSTEM_ACTIVE	End of Comment "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
Comment					
DEACTIVATE REQUEST ERRORS (300 - 399) SWAP REQUEST ERRORS (500 - 599)					
0	(0)	X'1F4'	0	IEFSSI_SWAP_NO_ELIGIBLE_VT	End of Comment "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

IEFJSRC Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
OPTIONS REQUEST ERRORS (600 - 699)					
PUT REQUEST ERRORS (700 - 799)					
GET REQUEST ERRORS (800 - 899)					
QUERY REQUEST ERRORS (900 - 999)					
End of Comment					
0	(0)	X'384'	0	IEFSSI_QUERY_STORAGE	"900" X'384' Unable to obtain storage for output of query request
Comment					
IEFSSVT RETURN CODES (decimal)					
End of Comment					
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)
Comment					
IEFSSVT REASON CODES (decimal)					
RETURN CODE IEFSSVT_SUCCESS					
End of Comment					
0	(0)	X'0'	0	IEFSSVT_FUNCTIONS_COMPLETE	"0" X'000' Vector table service request complete
Comment					
RETURN CODE IEFSSVT_WARNING					
RETURN CODE IEFSSVT_INVALID_PARAMETERS					
End of Comment					
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
Comment					
RETURN CODE IEFSSVT_REQUEST_FAIL					
CREATE REQUEST ERRORS (100 - 199)					
End of Comment					
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	

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	X'66'	0	IEFSSVT_MAXENTRIES_TOO_SMALL	"101" X'065' Unable to obtain storage for vector table "102" X'066' MAXENTRIES value less than number of function routines in input table
0	(0)	X'67'	0	IEFSSVT_MAXENTRIES_TOO_BIG	"103" X'067' MAXENTRIES greater than maximum (255)

Comment

ENABLE REQUEST ERRORS (200 - 299)

0	(0)	X'C8'	0	IEFSSVT_ENABLE_NO_ELIGIBLE_VT	End of Comment
0	(0)	X'C9'	0	IEFSSVT_ENABLE_MAX_ROUTINES	"200" X'0C8' Subsystem vector table not specified and no valid defaults available "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

Comment

DISABLE REQUEST ERRORS (300 - 399)

0	(0)	X'12C'	0	IEFSSVT_DISABLE_NO_ELIGIBLE_VT	End of Comment
0	(0)	X'12C'	0	IEFSSVT_DISABLE_NO_ELIGIBLE_VT	"300" X'12C' Subsystem vector table not specified and no valid defaults available

Comment

EXCHANGE REQUEST ERRORS (500 - 599)

0	(0)	X'1F4'	0	IEFSSVT_EXCHANGE_NO_ELIGIBLE_VT	End of Comment
0	(0)	X'1F5'	0	IEFSSVT_EXCHANGE_MAX_ROUTINES	"500" X'1F4' Subsystem vector table not specified and no valid defaults available "501" X'1F5' No room for new function routines in vector table

IEFJSRC Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
IEFSSI_ACT_NO_ELIGIBLE_VT	0	C9	IEFSSI_SUBSYSTEM_ACTIVE	0	C
IEFSSI_ADD_STORAGE	0	67	IEFSSI_SUBSYSTEM_UNKNOWN	0	0
IEFSSI_BAD_VT_TOKEN	0	8	IEFSSI_SUCCESS	0	0
IEFSSI_DEACT_INACTIVE	0	12C	IEFSSI_SWAP_ALREADY_ACTIVE	0	1F6
IEFSSI_DEACT_OUT_VT_NOT_SSI	0	12D	IEFSSI_SWAP_INACTIVE	0	1F4
IEFSSI_DUPLICATE_SUBSYSTEM	0	64	IEFSSI_SWAP_NO_ELIGIBLE_VT	0	1F4
IEFSSI_FUNCTIONS_COMPLETE	0	0	IEFSSI_SWAP_OUT_VT_NOT_SSI	0	1F5
IEFSSI_INIT_PARMS	0	10	IEFSSI_SYSTEM_ERROR	0	14
IEFSSI_INITRTN_ABEND	0	66	IEFSSI_UNAVAILABLE	0	18
IEFSSI_INITRTN_NOT_FOUND	0	65	IEFSSI_WARNING	0	4
IEFSSI_INVALID_NAME	0	C	IEFSSVT_BAD_VT_TOKEN	0	8
IEFSSI_INVALID_PARAMETERS	0	8	IEFSSVT_DISABLE_NO_ELIGIBLE_VT	0	12C
IEFSSI_NON_DYNAMIC	0	4	IEFSSVT_DUPLICATE_FUNCTION_CODE	0	14
IEFSSI_QUERY_INCOMPLETE	0	384	IEFSSVT_ENABLE_MAX_ROUTINES	0	C9
IEFSSI_QUERY_STORAGE	0	384	IEFSSVT_ENABLE_NO_ELIGIBLE_VT	0	C8
IEFSSI_REQUEST_FAIL					

IEFJSRC Cross Reference

Name	Hex Offset	Hex Value
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

IEFSIOTX Information

IEFSIOTX Heading Information

Common Name: STEP INPUT/OUTPUT TABLE EXTENSION
Macro ID: IEFSIOTX
DSECT Name: NONE
Owning 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 Map

Offsets					
Dec	Hex	Type/Value	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)

Comment

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.

				End of Comment	
8	(8)	CHARACTER	8	SIOTX_UNAFF_TOKEN	DD Token for affed-to DD (UNIT=AFF=DDx) Used by: IEFAB457, IEFSJACC
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
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

IEFSIOTX Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<p>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 Rsncode 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.</p>					
32	(20)	CHARACTER	40	SIOTX_DIAGNOSTICS	End of Comment
32	(20)	CHARACTER	8	SIOTX_UNITNAMEONINPUT	Unit name for this DD, saved during the Allocation process
40	(28)	CHARACTER	8	SIOTX_UNITNAMEAFTERDB401	EBCDIC unit name on input to Batch or DynAlloc. Set by IEFBB401, IEFDB414 Used by IEFAB4DG
48	(30)	CHARACTER	8	SIOTX_UNITNAMEAFTERLOCATE	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 IEFASIO for submapping. Set by IEFDB414 Used by IEFAB4DG
48	(30)	CHARACTER	4	SIOTX_DEVTYPEAFTERLOCATE	Unit name after a locate or SMS call has been done. Can be zero if no locate or SMS call done. See SCTUTYPE in IEFASIO for submapping. Set by IEFAB464, Used by IEFAB4DG
52	(34)	CHARACTER	4	*	Reserved. Do not use.
56	(38)	CHARACTER	8	SIOTX_UNITNAMEAFTERCONV	Unit Name after conversion. See SCTUTYPE in IEFASIO for submapping. Set by IEFDB414,IEFAB464 Used by IEFAB4DG
56	(38)	CHARACTER	4	SIOTX_DEVTYPEAFTERCONV	Device type portion of data returned by locate. Can be zero if no locate or SMS call done. Set by IEFAB464, Used by IEFAB4DG
60	(3C)	CHARACTER	4	*	Reserved. Do not use.
64	(40)	CHARACTER	1	SIOTX_DIAGNOSTICFLAGS	Flags for diagnostic info
	1...			SIOTX_SIOTCVTDATERCONV	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 siotalc 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	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_DEVTYPE_SET	

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.... 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)	CHARACTER	88	*	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	
		.111 1111		*	Mask bit for BLKSZLIM 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

IEFSIOTX Constants

Len	Type	Value	Name	Description
Comment				
CONSTANTS TO DEFINE RECORDING TECHNOLOGY (SIOTX_TDSREC)				
End of Comment				
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
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

IEFSIOTX Constants

Len	Type	Value	Name	Description
Comment				
CONSTANTS TO DEFINE MEDIA TYPE (SIOTX_TDSMEDIA)				
			End of Comment	
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
Comment				
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.)				
			End of Comment	
1	DECIMAL	0	SIOTX_TDSCMPNS	Compaction unknown or not set
1	DECIMAL	1	SIOTX_TDSNOCMP	No Compaction
1	DECIMAL	2	SIOTX_TDSCOMPT	Compaction
Comment				
CONSTANTS TO DEFINE SPECIAL ATTRIBUTE (SIOTX_TDSSPEC)				
			End of Comment	
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

IEFSIOTX Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
INXMSIOX	0			8	
SIOTX	0		SIOTX_UNAFF_TOKEN	8	
SIOTX_#VOLSINCON	1C		SIOTX_UNITNAMEAFTERCONV	38	
SIOTX_ALLOCATIONTIME	48		SIOTX_UNITNAMEAFTERDB401	28	
SIOTX_BLKSZLIM	B8		SIOTX_UNITNAMEAFTERLOCATE	30	
SIOTX_BLOCKSIZE	B0		SIOTX_UNITNAMEONINPUT	20	
SIOTX_COPY_INPUTSW	42		SIOTX_VOLSINCON_PTR	18	
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_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_MSKBLSM	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					

IEFSJDKY Information

IEFSJDKY Programming Interface information

Programming Interface information

IEFSJDKY

INCLUDE ONLY

End of Programming Interface information

IEFSJDKY Heading Information • IEFSJDKY Map

IEFSJDKY Heading Information

Common Name: Scheduler JCL Facility (SJF) / Dynamic Allocation keys
Macro ID: IEFSJDKY
DSECT Name: None
Owning 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 Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0		
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

Comment

Values for RECORG keyword

				End of Comment	
		1...		"X'80" KS - Key sequence	
		.1...		"X'40" ES - Entry sequence	
		..1.		"X'20" RR - Relative record	
		....1		"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

Comment

Value for GENERIC option of SECMODEL (parameter #2)

				End of Comment	
		1...		"X'80" Generic option	
0	(0)	BITSTRING	0	SJKYLIKE	"X'800F" LIKE
0	(0)	BITSTRING	0	SJKYAVGR	"X'8010" AVGREC

Comment

Values for AVGREC keyword

				End of Comment	
		1...		"X'80" U - units (ie times 1)	
		.1...		"X'40" K - kilo (ie times 1000)	
		..1.		"X'20" M - Mega (ie times 1 million)	
0	(0)	BITSTRING	0	SJKYDSNT	"X'8012" DSNTYPE

Comment

Values for DSNTYPE keyword

				End of Comment
		1...		"X'80" LIBRARY
		.1...		"X'40" PDS
		..1.		"X'20" PIPE
		....1		"X'10" HFS
		.... 1...		"X'08" EXTREQ
		.... .1...		"X'04" EXTPREF
		.... ..1.		"X'02" BASIC

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	.... ....1 BITSTRING	0	SJVLLARG SJKYSPIN	"X'01" LARGE "X'8013" SPIN
Comment					
Values for SPIN keyword					
End of Comment					
0	(0)	1... .... .1... BITSTRING	0	SJVLPUN SJVLPNO SJKYSEG SJKYPATH SJKYPOPT	"X'80" UNALLOC "X'40" NO "X'8014" SEGMENT "X'8017" PATH "X'8018" PATHOPTS
Comment					
Values for PATHOPTS keyword					
End of Comment					
0	(0)	BITSTRING 11... 1... .... .1... .... .1. .... ...1 1... .... .1.. .... .11.... .1. .... .1. 0	0	SJVLSYNC SJVLCXL SJVLCREA SJVLEXCL SJVLNOC SJVLTRUN SJVLPAPPE SJVLNBLK SJVLRDWR SJVLRDON SJVLDWON SJKYPMDE	"X'00000100" OSYNC "X'000000C0" OCREXCL "X'00000080" OCREAT "X'00000040" OEXCL "X'00000020" ONOCTTY "X'00000010" OTRUNC "X'00000008" OAPPEND "X'00000004" ONONBLOCK "X'00000003" ORDWR "X'00000002" ORDONLY "X'00000001" OWRONLY "X'8019" PATHMODE
Comment					
Values for PATHMODE keyword					
End of Comment					
0	(0)	BITSTRING 0	0	SJVLSUID	"X'00000800" SISUID
0	(0)	BITSTRING 0	0	SJVLSGID	"X'00000400" SISGID
0	(0)	BITSTRING 1... .... .1... 0	0	SJVLRUSR	"X'00000100" SIRUSR
0	(0)	BITSTRING ...1. .... ...1 1... .11 1... .1. .... .... .1. .... .1. .... .1. 0	0	SJVLWXU SJVLRGGRP SJVLWGRP SJVLXGRP SJVLRWXG SJVLROTH SJVLWOTH SJVLXOTH SJVLRWXO 0	"X'000001C0" SIRWXU "X'00000020" SIRGRP "X'00000010" SIWGRP "X'00000008" SIXGRP "X'00000038" SIRWXG "X'00000004" SIROTH "X'00000002" SIWOTH "X'00000001" SIXOTH "X'00000007" SIRWXO
0	(0)	BITSTRING 0	0	SJKYPNDS	"X'801A" PATHDISP - Normal Disposition
0	(0)	BITSTRING 0	0	SJKYPCDS	"X'801B" PATHDISP - Conditional Disposition
Comment					
Values for PATHDISP keyword					
End of Comment					
0	(0)	.... 1... .... .1.. BITSTRING	0	SJVKEEP SJVLEDELETE SJKYRLS	"X'08" KEEP "X'04" DELETE "X'801C" RLS - Record Level Sharing
Comment					
Values for RLS keyword					
End of Comment					
0	(0)	1... .... .1... .... .1. BITSTRING	0	SJVLNRI SJVLCR SJVLCRE SJKYFDAT	"X'80" NRI "X'40" CR "X'20" CRE "X'801D" FILEDATA - file organization

IEFSJDKY Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
Values for FILEDATA keyword					
End of Comment					
0	(0)	BITSTRING	0	SJVLBIN	"X'80'" BINARY
0	(0)	BITSTRING	0	SJVLTEXT	"X'40'" TEXT
0	(0)	BITSTRING	0	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'" KEYENCD1
Comment					
Values for KEYENCD1 keyword					
End of Comment					
0	(0)	BITSTRING	0	SJVLKE1L	"X'D9'" L - Label encoding
				SJVLKE1H	"X'C8'" H - Hash encoding
				SJKYKYC2	"X'8026'" KEYENCD2
Comment					
Values for KEYENCD2 keyword					
End of Comment					
0	(0)	BITSTRING	0	SJVLKE2L	"X'D9'" L - Label encoding
				SJVLKE2H	"X'C8'" H - Hash encoding
				SJKYEATT	"X'8028'" EATTR
Comment					
Values for EATTR keyword					
End of Comment					
0	(0)	BITSTRING	0	SJVLEATN	"X'01'" 0000 0001b - NO
				SJVLEATO	"X'02'" 0000 0010b - OPT
				SJKYFRVL	"X'8029'" FREEVOL
Comment					
Values for FREEVOL keyword					
End of Comment					
0	(0)	BITSTRING	0	SJVLFRVE	"X'01'" 0000 0001b - END
0	(0)	BITSTRING	0	SJVLFRVV	"X'02'" 0000 0010b - EOF
0	(0)	BITSTRING	0	SJKYSPI2	"X'802A'" SPIN second parm, SPIN INTERVAL
0	(0)	BITSTRING	0	SJKYSYML	"X'802B'" SYMLIST ON DD
0	(0)	BITSTRING	0	SJKYDSNV	"X'802C'" DSNTYPE version
0	(0)	BITSTRING	0	SJKYMAXG	"X'802D'" MAXGENS - Requires APAR OA42358
0	(0)	BITSTRING	0	SJKYGDGO	"X'802E'" GDGORDER - GDG-all concatenation order
Comment					
Values for GDGORDER keyword					
End of Comment					
1	..	BITSTRING	0	SJVLGDGC	"X'80'" USECATLG
1	..	BITSTRING	0	SJVLGDGL	"X'40'" LIFO
1	..	BITSTRING	0	SJVLGDGF	"X'20'" FIFO

IEFSJDKY Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
SJKYAVGR	0	8010	SJVLRGRP	0	20
SJKYBSLM	0	8022	SJVLROES	0	40
SJKYCNTL	0	8003	SJVLROKS	0	80
SJKYDACL	0	8006	SJVLROLS	0	10
SJKYDCCS	0	8020	SJVLRORR	0	20
SJKYDSNT	0	8012	SJVLROTH	0	4
SJKYDSNV	0	802C	SJVLRUSR	0	100
SJKYEATT	0	8028	SJVLRWXG	0	38
SJKYFDAT	0	801D	SJVLRWXO	0	7
SJKYFRVL	0	8029	SJVLRWXU	0	1C0
SJKYGDGO	0	802E	SJVLSGID	0	400
SJKYKEYO	0	800C	SJVLSPNO	0	40
SJKYKYC1	0	8025	SJVLSPUN	0	80
SJKYKYC2	0	8026	SJVLUID	0	800
SJKYKYL1	0	8023	SJVLSYNC	0	100
SJKYKYL2	0	8024	SJVLTEXT	0	40
SJKYLGST	0	801F	SJVLTRUN	0	10
SJKYLIKE	0	800F	SJVLWDON	0	1
SJKYMAXG	0	802D	SJVLWGRP	0	10
SJKYMGCL	0	8005	SJVLWOTH	0	2
SJKYPATH	0	8017	SJVLWUSR	0	80
SJKYPCDS	0	801B	SJVLXGRP	0	8
SJKYPMDE	0	8019	SJVLXOTH	0	1
SJKYPNDS	0	801A	SJVLXUSR	0	40
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			
SJVLARME	0	20			
SJVLARUN	0	80			
SJVLBASC	0	2			
SJVLBIN	0	80			
SJVLCEXL	0	C0			
SJVLCR	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			
SJVLNBLC	0	4			
SJVLNOCT	0	20			
SJVLNRI	0	80			
SJVLPIPE	0	20			
SJVLRDON	0	2			
SJVLRDWR	0	3			
SJVLREC	0	20			

IEFSJOKY Information

IEFSJOKY Programming Interface information

Programming Interface information

IEFSJOKY

End of Programming Interface information

IEFSJOKY Heading Information • IEFSJOKY Map

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 Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0		
0	(0)	BITSTRING	0	SJOKSTNR	"X'8001'" JES3STNR
0	(0)	X'8003'	0	SJOKMERG	"DOMERGE" MERGE (also defined in IEFDOKEY)
0	(0)	BITSTRING	0	SJOKIPAD	"X'8005'" IPADDR

Comment

Include keys needed by callers of SVC 109
%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

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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					
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= PEO1272 HBB4410 881212 PDZ1: Fix EMVS2 declares					
\$P2= PEO1579 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 PDOO: PRTATTRS and APPPARMS keyword support					
ME25796 HBB7790 130221 PDOO: Fixed Copyright					
END OF SPECIFICATIONS					
A 000000-999999					
D Removed dynamic output from JBB2223					
A ADDED KEYS DODPAGE1 AND DOSYSARE					

IEFSJOKY Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	BITSTRING	0	DOOUTBIN	"X'2023" OUTBIN
		...1 .111		DOOUTDB	"X'002B" OUTDISP - NORMAL
		..1. 11.1		DOOUTDC	"X'002C" OUTDISP - ABNORMAL
		..1. 1111		DOOVFL	"X'0033" OVERFLOW
		.1.. .111		DOOVRLYB	"X'0040" OVERLAYB
		..11 ..11		DOOVRLYF	"X'003F" OVERLAYF
		.1..		DOPAGEDE	"X'001F" PAGEDEF
		..11 1111		DOPIMSG	"X'0021" PIMSG
		...1 1111		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" PRTERrror
		..11 1...		DOPRTQUE	"X'0038" PRTQUEUE
		...1 1..1		DOPRTY	"X'0019" PRTY
		.1.. 111.		DOREPLYT	"X'0046" REPLYTO
		..1. 111.		DORESFMT	"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..1		DOUCS	"X'001B" UCS
		..11 ...1		DOUSERDA	"X'0031" USERDATA
		..1. 111.		DOUSERLI	"X'002E" USERLIB
		.1.. 1111		DOUSERPA	"X'004F" USERPATH
		...1 11..		DOWRITER	"X'001C" WRITER

IEFSJOKY Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
DOADDRES	0	27	DOFSSDAT	0	47
DOAFPPRM	0	51	DOGROUPI	0	11
DOAFPST	0	48	DOINDEX	0	12
DOBUILD	0	28	DOINTRAY	0	3E
DOBURST	0	1	DOLINDEX	0	14
DOCHARS	0	2	DOLINECT	0	15
DOCKPTLI	0	3	DOMAILBC	0	49
DOCKPTPA	0	4	DOMAILCC	0	4A
DOCKPTSE	0	5	DOMAILFI	0	4B
DOCLASS	0	6	DOMAILFR	0	4C
DOCOLORM	0	3A	DOMAILTO	0	4D
DOCOMPAC	0	7	DOMERGE	0	8003
DOCOMSET	0	32	DOMODIF6	0	16
DOCONTRO	0	8	DOMODIF7	0	17
DOCOPIEA	0	A	DONAME	0	2D
DOCOPIE9	0	9	DONOTIFY	0	2F
DOCOPYCN	0	52	DOOUTBIN	0	2023
DODATACK	0	2022	DOOUTDB	0	2B
DODDNAME	0	54	DOOUTDC	0	2C
DODEFAUL	0	B	DOOVFL	0	33
DODEPT	0	29	DOOVRLYB	0	40
DODEST	0	C	DOOVRLYF	0	3F
DODPAGEL	0	23	DOPAGEDE	0	1F
DODUPLEX	0	3D	DOPIMSG	0	21
DOFCB	0	D	DOPORTNO	0	45
DOFLASE	0	E	DOPRMODE	0	18
DOFLASF	0	F	DOPROPTN	0	39
DOFORMD	0	1D	DOPRTATT	0	50
DOFORMLN	0	3B	DOPRTERR	0	3C
DOFORMS	0	10	DOPRTQUE	0	38

IEFSJOKY Cross Reference

Name	Hex Offset	Hex Value
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
SJOKIPAD	0	8005
SJOKMERG	0	8003
SJOKSTNR	0	8001

IEFZB4D2 Information

IEFZB4D2 Programming Interface information

Programming Interface information

IEFZB4D2

End of Programming Interface information

IEFZB4D2 Heading Information • IEFZB4D2 Map

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 Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SVC99KYS	
Comment					

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
.... .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.	DALVLSEQ	"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

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
...	11.1			DALCOPYS	"X'001D" SYSOUT COPIES
...	111.			DALLABEL	"X'001E" LABEL TYPE
...	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
..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.			DALTHRSH	"X'004E" MESSAGE QUEUE PERCENTAGE
.1..	1111			DALTRTCH	"X'004F" TAPE RECORDING TECHNOLOGY
.1..	....			DALPASSW	"X'0050" PASSWORD
.1..	...1			DALIPLTX	"X'0051" IPL TEXT ID
.1..	...1.			DALPERMA	"X'0052" PERMANENTLY ALLOCATED ATTRIB
.1..	..11			DALCNVRT	"X'0053" CONVERTIBLE ATTRIBUTE
.1..	.1..			DALDIAGN	"X'0054" OPEN/CLOSE/EOV DIAGNOSTIC TRACE
.1..	.1..1			DALRTDDN	"X'0055" RETURN DDNAME
.1..	.11.			DALRTDSN	"X'0056" RETURN DSNAME
.1..	.111			DALRTORG	"X'0057" RETURN D.S. ORGANIZATION
.1..	1...			DALSUSER	"X'0058" SYSOUT REMOTE USER
.1..	1..1			DALSHOLD	"X'0059" SYSOUT HOLD QUEUE
.1..	1..1			DALFUNC	"X'005A" D.S. TYPE FOR 3525 CARD DEVICE
.1..	1..11			DALFRID	"X'005B" IMAGELIB MEMBER FOR SHARK
.1..	11..			DALSSREQ	"X'005C" SUBSYSTEM REQUEST
.1..	11..1			DALRTVOL	"X'005D" RETURN VOLUME SERIAL
.1..	111.			DALMSVGP	"X'005E" MSVGP FOR 3330V
.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

IEFZB4D2 Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
	.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..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
0	(0)	BITSTRING	0	DALACODE	"X'8001'" ACCESSIBILITY CODE
0	(0)	BITSTRING	0	DALOUTPT	"X'8002'" OUTPUT REFERENCE

Comment

JDT defined Allocation keys SJF DD ALLOCATION KEYS

End of Comment

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	DALDAACL	"X'8006'" DATACLAS
0	(0)	BITSTRING	0	DALRECO	"X'800B'" RECORC
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 - Requires APAR OA42358
0	(0)	BITSTRING	0	DALGDGO	"X'802E'" GDGORDER - GDG-all concatenation order

Comment

KEYS FOR CONCATENATION FUNCTION

End of Comment

....1	DCCDDNAM	"X'0001'" DDNAMES
.... . 1..	DCCPERMC	"X'0004'" PERMANENTLY CONCATENATED

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
KEYS FOR DECONCATENATION FUNCTION					
End of Comment					
....1		DDCDDNAM			"X'0001'" DDNAME
Comment					
KEYS FOR INFORMATION RETRIEVAL FUNCTION					
Note: see the Dependencies section of the prolog when adding new keys to this section.					
End of Comment					
....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
.... 11..1.		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
Comment					
JDT defined Information Retrieval output keys					
SJF DD INFORMATION RETRIEVAL KEYS					
End of Comment					
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'" RECORG
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	DINRSPI2			"X'C02A'" SPIN interval
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 - Requires APAR OA42358
0 (0) BITSTRING	0	DINRGDGO			"X'C02E'" GDGORDE
Comment					
JDT defined Information Retrieval input keys					
SJF DD INFORMATION RETRIEVAL INPUT KEYS					
End of Comment					
0 (0) BITSTRING	0	DINPATH			"X'8017'" PATH

IEFZB4D2 Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
KEYS FOR REMOVE IN-USE FUNCTION					
End of Comment					
.... .1.		DRITCBAD		"X'0001'" TCB ADDRESS	
.... ..1.		DRICURNT		"X'0002'" CURRENT TASK OPTION	
Comment					
KEYS FOR DDNAME ALLOCATION FUNCTION					
End of Comment					
.... .1.		DDNDDNAM		"X'0001'" DDNAME	
.... ..1.		DDNRTDUM		"X'0002'" RETURN DUMMY D.S. INDICATION	
Comment					
KEYS FOR UNALLOCATION FUNCTION					
Note: see the Dependencies section of the prolog when adding new keys to this section.					
End of Comment					
.... .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...		DUNOVVSUS		"X'0058'" OVERRIDING SYSOUT NODE	
.1.1 ..1		DUNOVSHQ		"X'0059'" OVERRIDING SYSOUT HOLD QUEUE	
.11. ..11		DUNOVID		"X'0063'" Overriding SYSOUT User ID	
Comment					
JDT defined Unallocation keys					
SJF DD UNALLOCATION KEYS					
End of Comment					
0 (0) BITSTRING	0	DUNSPIN		"X'8013'" SPIN	
0 (0) BITSTRING	0	DUNPATH		"X'8017'" PATH	
0 (0) BITSTRING	0	DUNOPPDS		"X'801A'" PATHDISP - Override Disposition	
0 (0) BITSTRING	0	DUNSPI2		"X'802A'" SPIN	

IEFZB4D2 Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
DALACODE	0	8001	DALCODE	0	39
DALAVGR	0	8010	DALCOPYG	0	66
DALBFALN	0	2E	DALCOPYS	0	1D
DALBFTEK	0	2F	DALCPRI	0	3A
DALBLKLN	0	9	DALCYL	0	8
DALBLKSZ	0	30	DALDACL	0	8006
DALBRTKN	0	6E	DALDCBDD	0	2D
DALBSLM	0	8022	DALDCBDS	0	2C
DALBUFIN	0	31	DALDCCS	0	8020
DALBUFL	0	32	DALDDNAM	0	1
DALBUFMX	0	33	DALDEFER	0	6C
DALBUFNO	0	34	DALDEN	0	3B
DALBUFOF	0	35	DALDIAGN	0	54
DALBUFOU	0	36	DALDIR	0	C
DALBUFRQ	0	37	DALDSNAM	0	2
DALBUFSZ	0	38	DALDSNT	0	8012
DALBURST	0	64	DALDSNV	0	802C
DALCDISP	0	6	DALDSORG	0	3C
DALCHARS	0	65	DALDSSEQ	0	1F
DALCLOSE	0	1C	DALDUMMY	0	24
DALCNTL	0	8003	DALEATT	0	8028
DALCNVRT	0	53	DALEROPT	0	3D

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
DALEXPDL	0	6D	DALSECM	0	800E
DALEXPDT	0	22	DALSECND	0	B
DALFCBAV	0	26	DALSEGM	0	8014
DALFCBIM	0	25	DALSFMNO	0	1A
DALFCNT	0	68	DALSHOLD	0	59
DALFDAT	0	801D	DALMSHR	0	76
DALFFORM	0	67	DALSOWA	0	4C
DALFRID	0	5B	DALSPFRM	0	E
DALFRVL	0	8029	DALSPGNM	0	19
DALFUNC	0	5A	DALSPIN	0	8013
DALGDGO	0	802E	DALSPI2	0	802A
DALGIG	0	74	DALSSATT	0	62
DALGNCP	0	3E	DALSSNM	0	5F
DALINCHG	0	6F	DALSSPRM	0	60
DALINOUT	0	21	DALSSREQ	0	5C
DALINTVL	0	3F	DALSTACK	0	4D
DALIPLTX	0	51	DALSTATS	0	4
DALKYEO	0	800C	DALSTCL	0	8004
DALKILO	0	72	DALSUSER	0	58
DALKYC1	0	8025	DALSYML	0	802B
DALKYC2	0	8026	DALSYSOU	0	18
DALKYLEN	0	40	DALTERM	0	28
DALKYL1	0	8023	DALTHRSH	0	4E
DALKYL2	0	8024	DALTRK	0	7
DALLABEL	0	1E	DALTRTCH	0	4F
DALLGST	0	801F	DALUASSR	0	75
DALLIKE	0	800F	DALUCS	0	29
DALLIMCT	0	41	DALUFOLD	0	2A
DALLRECK	0	6B	DALUNCNT	0	16
DALLRECL	0	42	DALUNIT	0	15
DALMAXG	0	802D	DALUNQDS	0	77
DALMEG	0	73	DALUSRID	0	63
DALMEMBR	0	3	DALUVRFY	0	2B
DALMGCL	0	8005	DALVLCNT	0	13
DALMMOD	0	69	DALVLRDS	0	14
DALMODE	0	43	DALVSEQ	0	12
DALMSVGP	0	5E	DALVLSER	0	10
DALMTRC	0	6A	DCCDDNAM	0	1
DALNCP	0	44	DCCPERMC	0	4
DALNDISP	0	5	DDCDDNAM	0	1
DALOPTCD	0	45	DDNDDNAM	0	1
DALOUTLM	0	1B	DDNRDUM	0	2
DALOUTPT	0	8002	DINDDNAM	0	1
DALOVAFF	0	70	DINDSNAM	0	2
DALPARAL	0	17	DINPATH	0	8017
DALPASPR	0	20	DINRAVGR	0	C010
DALPASSW	0	50	DINRCNDS	0	C01B
DALPATH	0	8017	DINRCNTL	0	C003
DALPCDS	0	801B	DINRDACL	0	C006
DALPCIR	0	46	DINRDSNT	0	C012
DALPCIS	0	47	DINRDSNV	0	C02C
DALPERMA	0	52	DINRELNO	0	F
DALPMDE	0	8019	DINRFDAT	0	C01D
DALPNDS	0	801A	DINRGDGO	0	C02E
DALPOPT	0	8018	DINRKEYO	0	C00C
DALPRIME	0	A	DINRLIKE	0	C00F
DALPRIVT	0	11	DINRLPOS	0	12
DALPROT	0	61	DINRMAXG	0	C02D
DALPRTSP	0	48	DINRMGL	0	C005
DALQNAME	0	27	DINRPATH	0	C017
DALRECFM	0	49	DINRPCDS	0	C01B
DALRECO	0	800B	DINRPMDE	0	C019
DALREFD	0	800D	DINRPNDS	0	C01A
DALRETPD	0	23	DINROPT	0	C018
DALRLS	0	801C	DINRRECO	0	C00B
DALRLSE	0	D	DINRREFD	0	C00D
DALROUND	0	F	DINRSECM	0	C00E
DALRSRVF	0	4A	DINRSEGMM	0	C014
DALRSRVS	0	4B	DINRSPIN	0	C013
DALRTCTK	0	71	DINRSP12	0	C02A
DALRTDDN	0	55	DINRSTCL	0	C004
DALRTDSN	0	56	DINRSYML	0	C02B
DALRTORG	0	57	DINRTATT	0	C
DALRTVOL	0	5D	DINRTCDP	0	9

IEFZB4D2 Cross Reference

Name	Hex Offset	Hex Value
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
DINRTTYP	0	E
DINRTVOL	0	10
DRICURNT	0	2
DRITCBAD	0	1
DUNDDDNAM	0	1
DUNDSNAM	0	2
DUNMEMBR	0	3
DUNOVCLS	0	18
DUNOVDSP	0	5
DUNOVPDS	0	801A
DUNOVSHQ	0	59
DUNOVSNH	0	A
DUNOVSUS	0	58
DUNOVUID	0	63
DUNPATH	0	8017
DUNREMOV	0	8
DUNSPIN	0	8013
DUNSPI2	0	802A
DUNUNALC	0	7
SVC99KYS	0	

IEFZB4FJ Information

IEFZB4FJ Programming Interface information

Programming Interface information

IEFZB4FJ

End of Programming Interface information

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 Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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	JSVOLMNT	"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	JSWTDNSN	"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 Cross Reference

Name	Hex Offset	Hex Value
DYNCALL1	0	
DYNCALL2	1	
JESFLAGS	0	
JSBATCH	1	80
JSDYNDI	0	2
JSNOTRSB	0	1
JSOFFLIN	0	40
JSPCATIN	0	4
JSVOLMNT	0	80
JSWTADEV	0	20
JSWTDNSN	0	10
JSWTVOL	0	8

IEFZB468 Information

IEFZB468 Heading Information

Common Name: Mapping macro for STARTIO/EXCP ESTAEParms
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 Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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	STIMERM active and needs to be cancelled
		.... .1.		EXSWAP	SYSEVENT OKSWAP needs to be issued
		.... .1.1....		*	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	STIMERM ID to CANCEL (valid only if EXTIMER is set)
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

IEFZB468 Cross Reference

Name	Hex Offset	Hex Value
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

IEFZDDWA Information

IEFZDDWA Heading Information

Common Name: DD Work Area
Macro ID: IEFZDDWA
DSECT Name: DDWA
Owning Component: Allocation (SC1B4)
Eye-Catcher ID:
 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 IEFASIOS)
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 Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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...		DDWAMDM	A demand library MOUNT cmd
		.1...		DDWAMUMG	SIOT is a MU/MG request
		..1.		DDWAMUML	SIOT is a MU/ML request
		...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) SCTUNAFF is on due to implicit unit affinity for GDGALL and not due to UNIT=AFF= on the JCL
		.... 1...		DDWAGAFF	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..		DDWAODPL	Allocation invoked the SMS UNITAFF SSI Exit for this DD. Set by IEFAB457. Checked by IEFAB422.
		.... ..1.		DDWAUNAF	SMS Constructs have been obtained via a call to the SMS TVRU SSI. Set by IEFAB435. Checked by IEFAB490.
		.... ...1		DDWACNST	Library MOUNT device number
6	(6)	CHARACTER	2	DDWAMDEV	Ptr. to VOLUNIT Request Block
8	(8)	ADDRESS	4	DDWAVRB	Generic device type for a request requiring allocated/ offline devices. Set by IEFAB486 and used by IEFAB48A
12	(C)	CHARACTER	4	DDWARGEN	Generic device type for a MU/ML library request
16	(10)	CHARACTER	4	DDWAMGEN	Library identifier for a MU/MG library request
20	(14)	CHARACTER	5	DDWAMLIB	the number of public/storage units needed by allocation
25	(19)	UNSIGNED	1	DDWAPSCT	Number of times Recovery Allocation was entered
26	(1A)	UNSIGNED	1	DDWARCNT	Flags
27	(1B)	UNSIGNED	1	DDWAFLG2	All unit eligible to this request are MSS devices
		1...		DDWAMSS	Units eligible to this request are a mix of MSS and non-MSS devices
		.1...		DDWAMXD	Mixed device spec. AFF or DEFER
		..1.		DDWAFUDA	PVT assumed message reqd
		...1		DDWAPVTM	Ignore process DDWA for this generic
		.... 1...		DDWAGIGN	This request requires retry in allocation
		.... .1..		DDWARTRY	

IEFZDDWA Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.... ..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 my the 'mother' task. - DDWANODQ will be on when this field is used.
58	(3A)	UNSIGNED 1...	1	DDWAFLG3 DDWABADU	Flags 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 SSSAIABA 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	DDWAFALLEDDEVS	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
76	(4C)	CHARACTER	4	DDWA_SIOTDEVT	SIOTDEVTYPE for UNIT
80	(50)	ADDRESS	4	DDWA_SIOUCBA4	SIOUCBAddr for specific unit@L9A

Comment

saved here if SIOTSHNR is on@L9A

End of Comment

84	(54)	ADDRESS	4	DDWA_RECALLECBPTR	Pointer to ECB returned from HSM Recall request in IEFABHSM
88	(58)	CHARACTER	8	*	Reserved and available

Offsets

Dec	Hex	Type/Value	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	DFDLDEVMNUM	Array of device numbers already requested to be brought online for this DDWA (4294967316:562129304)

IEFZDDWA Constants

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 P0_0L	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

IEFZDDWA Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
DDWA	0		DDWAMLIB	14	
DDWA_DPS_BYPASS_ASSIST	3A	08	DDWAMSS	1B	80
DDWA_GENERATION_NAME_RESOLVED	3A	01	DDWAMUMG	5	40
DDWA_PRECALL_COMPLETE	3A	02	DDWAMUML	5	20
DDWA_PRECALL_NEEDED	3A	04	DDWAMXD	1B	40
DDWA_RECALLECBPTR	54		DDWANODQ	1B	02
DDWA_SCTUTYPE	4C		DDWAODPL	5	04
DDWA_SIOTDEVT	4C		DDWAPSCT	19	
DDWA_SIOTDMND	3A	10	DDWAPVTM	1B	10
DDWA_SIOUCBA4	50		DDWARCNT	1A	
DDWA_SKIPPED_UNAVAIL	3A	20	DDWAREPCALL	1B	01
DDWABADU	3A	80	DDWARGEN	C	
DDWACNST	5	01	DDWARLIB	2F	
DDWADTYP	40		DDWARTRY	1B	04
DDWAEDLA	3A	40	DDWASIOT	3C	
DDWAFailedDevList	0		DDWASIUA	5	10
DDWAFailedDevs	48		DDWASSIC	28	
DDWAFLG1	5		DDWATLIB	2A	
DDWAFLG2	1B		DDWAUNAF	5	02
DDWAFLG3	3A		DDWAUNIT	1C	
DDWAFNQV	34		DDWAVER	4	
DDWAFUDA	1B	20	DDWAVRB	8	
DDWAGAFF	5	08	DDWAVUAD	20	
DDWAGIGN	1B	08	DDWAVUNO	24	
DDWAGIID	26		DFDLDEVMNUM	10	
DDWAID	0		DFDLID	0	
DDWAMDEV	6		DFDLNEXT@	8	
DDWAMDMD	5	80	DFDLNUM	C	
DDWAMGEN	10		DFDLVER	4	

IEFZPMAP Information

IEFZPMAP Programming Interface information

Programming Interface information

IEFZPMAP

End of Programming Interface information

IEFZPMAP Heading Information • IEFZPMAP Map

IEFZPMAP Heading Information

Common Name: Mapping Macros for use with the "Logical Parmlib" Service (IEFPRLB)
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 IEFPRLB
Key: Determined by users of IEFPRLB
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 IEFPRLB
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 Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PRM_LIST_BUFFER	Information returned by the LIST function of the IEFPRLB 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

Comment

Version information used with the LIST buffer (PRMLBUFF)

End of Comment

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.... ....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"

Offsets

Dec	Hex	Type/Value	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
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_EXTRANEous	Sequence number
96	(60)	X'68'	0	PRM_READ_BUFFER_LEN	"-PRM_READ_BUFFER"

Offsets

Dec	Hex	Type/Value	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	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"

IEFZPMAP Cross Reference

IEFZPMAP Cross Reference

Name	Hex Offset	Hex Value
PRM_BUFF_SIZE_NEEDED	8	
PRM_EXTRANEous	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	
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	

IEFZPRC Information

IEFZPRC Programming Interface information

Programming Interface information

IEFZPRC

End of Programming Interface information

IEFZPRC Heading Information • IEFZPRC Map

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 Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	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
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

Comment

IEFPRMLB REASON CODES (decimal)
 REASON CODE PRMLB_SUCCESS (decimal 0)

End of Comment

0	(0)	X'0'	0	PRMLB_RSN_OK	"0" X'000' Success reason code
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Comment

REASON CODE PRMLB_WARNING (decimal 4)

End of Comment

0	(0)	X'1'	0	PRMLB_DD_ALREADY_ALLOC	"1" X'001' Specified DDname is already allocated
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Comment

RETURN CODE PRMLB_REQUEST_FAILED (decimal 12)

End of Comment

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

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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.

Comment

RETURN CODE PRMLB_Internal_Error (decimal 16)

End of Comment

0	(0)	X'1'	0	PRMLB_BAD_PARAMETER	"1" X'001' Bad parameter list passed to parmlib read routine
0	(0)	X'2'	0	PRMLB_UNKNOWN_REASON	"2" X'002' Reason for failure is unknown

Comment

RETURN CODE PRMLB_Invalid_Parameter_List (decimal 28)

End of Comment

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_S99XTTPP_NOT0	"5" X'005' S99XTTPP 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

IEFZPRC Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
PRMLB_ALLOC_FAILED	0	4		0	10
PRMLB_BAD_PARAMETER	0	1	PRMLB_INVALID_PARAMETER_LIST	0	1C
PRMLB_CONCAT_FAILED	0	5	PRMLB_LISTBUFF_FORMAT_ERROR	0	8
PRMLB_CROSS_MEMORY	0	20	PRMLB_LISTBUFF_UNACCESSIBLE	0	2
PRMLB_DD_ALREADY_ALLOC	0	1	PRMLB_LOCKS_HELD	0	8
PRMLB_ESTAE_SETUP_FAILED	0	24	PRMLB_MEMBER_NOT_FOUND	0	1
PRMLB_FUNCTION_COMPLETE	0	0	PRMLB_MSGBUFF_FORMAT_ERROR	0	6
PRMLB_INTERNAL_ERROR			PRMLB_MSGBUFF_UNACCESSIBLE	0	3

IEFZPRC Cross Reference

Name	Hex Offset	Hex Value
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_S99TTPP_NOT0	0	5
PRMLB_PLIST_UNACCESSIBLE	0	1
PRMLB_PUTLINE_ERROR	0	B
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

IEWLCNV Information

IEWLCNV Programming Interface information

Programming Interface information

IEWLCNV

End of Programming Interface information

IEWLCNV Heading Information • IEWLCNV Map

IEWLCNV Heading Information

Common Name: PMLoader DE convert services parameter area
Macro ID: IEWLCNV
DSECT Name: LCNV
Owning Component: Loader (SCLDR)
Eye-Catcher ID: IEWLCNV
 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: IEWLCNV maps the parameter area used by PMLoader's directory entry convert service. Macro IEWLNCVT passes the IEWLCNV parameter area to module IEWLNCNVX.

IEWLCNV Map

Offsets

Dec	Hex	Type/Value	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_LEVEL	Control block level
		.... .1		LCNV_LEVEL_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

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	LCNV_FLAGS_DSECT	
0	(0)	BITSTRING	1	LCNV_FLAGS	Processing flags
		.... . ....		LCNV_FLAGS_ALIAS	"X'80" Alias indicator

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	LCNV_PNAME_DSECT	
0	(0)	CHARACTER	8	LCNV_PNAME	Primary name

Comment

THE FOLLOWING ARE IEWLNCVT FUNCTION CODES. THEY ARE ALSO DEFINED IN IEWLDR FOR PLS.

.... .1.1	End of Comment
	LDR_FUNC_PMAR_TO_PDSDE
	"X'05" PMAR to PDSDE conversion
.... .11.	LDR_FUNC_PDSDE_TO_PMAR
	"X'06" PDSDE to PMAR conversion

IEWLCNV Cross Reference

Name	Hex Offset	Hex Value
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	
LCNVLEV_IV	C	1
LCNV_OUTLEN	10	
LCNV_PDS2INDC_PTR	1C	
LCNV_PMAR_PTR	14	
LCNV_PMARA_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

IEWPMAR Information

IEWPMAR Programming Interface information

Programming Interface information

IEWPMAR

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

- PMAR_XATTR1
- PMARL_BDRL
- PMARL_BDRO
- PMARL_CMS
- PMARL_DTEMPL
- PMARL_IEWBLITO
- PMARL_LMDL
- PMARL_LMDO
- PMARL_MDAT
- PMARL_MPDS
- PMARL_NDEFER
- PMARL_NGAS
- PMARL_NSEG
- PMARL_NVSPGS
- PMARL_PM3
- PMARL_PM4
- PMARL_RATL
- PMARL_RATO
- PMARL_RDTL
- PMARL_RDTO
- PMARL_TXTL
- PMARL_TXTO
- PMARL_1DTXTO
- PMARL_1STOR
- PMARL_2STOR
- PMARL_2TXTO

End of Programming Interface information

IEWPMAR Heading Information • IEWPMAR Map

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
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 Map

Offsets					
Dec	Hex	Type/Value	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 PO1
		..... .1.		PMAR_PM2_VAL	"X'02" level constant for PO2
		..... ..11		PMAR_PM3_VAL	"X'03" level constant for PO3
		..... .1..		PMAR_PM4_VAL	"X'04" level constant for PO4
		..... .1.1		PMAR_PM5_VAL	"X'05" level constant for PO5
		..... .1..1		PMAR_LVL_VAL	"X'05" level constant
3	(3)	ADDRESS	1	PMAR_PLVL	Bind processor creating object
		..... .1...		PMAR_PLVL_E_VAL	
		..... .1.		PMAR_PLVL_F_VAL	"X'01" E-level constant
		..... ..11		PMAR_PLVL_AOS_VAL	"X'02" F-level constant
		..... .1..		PMAR_PLVL_XA_VAL	"X'03" AOS-level constant
		..... .1.1		PMAR_PLVL_B1_VAL	"X'04" XA-level constant
		..... .11.		PMAR_PLVL_B2_VAL	"X'05" Binder version 1
		..... .111		PMAR_PLVL_B3_VAL	"X'06" Binder version 2
		..... 1...		PMAR_PLVL_B4_VAL	"X'07" Binder version 3
		..... 1..1		PMAR_PLVL_B5_VAL	"X'08" Binder version 4
					"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_REUSE	"X'40" Reusable
		..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..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.

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
		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' RESERVED
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.
		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_LONGPARM	"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_SSFB	SSI flag byte
24	(18)	CHARACTER	2	PMAR_MSER	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

Offsets

Dec	Hex	Type/Value	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_ATR (0)	Attribute bytes
2	(2)	BITSTRING	1	PMARL_ATR1	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 XLINK
		...1		PMARL_HPL	"X'10'" Module requires XLINK
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

IEWPMAR Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.... .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 / PO4
5	(5)	X'2'	0	PMARL_PO_SUBLVL_ZOSV1R5	"2" Value for z/OS V1 R5 / PO4
5	(5)	X'3'	0	PMARL_PO_SUBLVL_ZOSV1R7	"3" Value for z/OS V1 R7 / PO4
5	(5)	X'1'	0	PMARL_PO_SUBLVL_ZOSV1R8	"1" Value for z/OS V1 R8 / PO5
5	(5)	X'2'	0	PMARL_PO_SUBLVL_ZOSV1R10	"2" Value for z/OS V1 R10 / PO5
5	(5)	X'3'	0	PMARL_PO_SUBLVL_ZOSV1R13	"3" Value for z/OS V1 R13 / PO5
5	(5)	X'4'	0	PMARL_PO_SUBLVL_ZOSV2R1	"4" Value for z/OS V2 R1 / PO5
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_BDRO	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 LSLoader data, for PM1-level PO
46	(2E)	ADDRESS	4	PMARL_LMDO	Offset to LSLoader 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.
58	(3A)	BITSTRING	4	PMARL_2STOR	Virtual storage required for second loadable segment, valid when PMARL_NSEG > 1.
62	(3E)	BITSTRING	4	PMARL_2TXTO	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_DILLENA	"X'40" PO is DLL-enabled
		..1....		PMARL_MUSTDELET	"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_INVALXA	"X'04" XA-mode invalid
		.... ..1.		PMARL_CMS_INVALXC	

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
84	(54)	BITSTRING	2	PMARL_NDEFER	"X'02" XC-mode invalid
86	(56)	BITSTRING	4	PMARL_DTEMPL	Number of deferred classes
90	(5A)	BITSTRING	4	PMARL_1DTXTO	Total length of deferred text classes on DASD (excludes gas).
94	(5E)	BITSTRING	4	PMARL_IEWBLITO	Offset of 1st deferred class on DASD (includes gas).
98	(62)	CHARACTER	8	PMARL_PM4 (0)	Byte offset of IEWBLIT structure from module load point
98	(62)	BITSTRING 1...	1	PMARL_ATR3 PMARL_1RMOD64	New fields for PM4-Level 8th attribute byte
		.1...		PMARL_2RMOD64	"X'80" 1st segment is RMODE 64
99	(63)	CHARACTER	7		"X'40" 2nd segment is RMODE 64
106	(6A)	CHARACTER	1	PMARL_PM5 (0)	Reserved
106	(6A)	CHARACTER	1	PMARL_END (0)	New fields for PM5-Level
					END OF LSLOADER SECTION

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PMARR	Load module (PDS) attributes section
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

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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_FTB2	Alternative name for flags byte These flags must be at the same offsets as the corresponding flags in PDS2FTB2 declared by macro IHAPDS.
		1...		PMARA_ALTP	"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	
		.... 11..		PMARA_AMD	"X'10" Alias is a mangled name "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.
7	(7)	CHARACTER	1	PMARA_END (0)	END OF ALIAS ENTRY SECTION

Comment

Constants used by programs which manipulate program user data.

Maximum length PMAR

Basic section length

LSLoader section length

End of Comment

7 (7) X'88' 0 PMAR_MAXLEN "PMAR-END-PMAR+PMARL-END-PMARL"

IEWPMAR Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
				Comment	
				Largest PMAR length for program objects Basic section length Program object section length	
				End of Comment	
7	(7)	X'88'	0	PMAR_MAXLEN_PROGOBJ	"PMAR_END-PMAR+PMARL_END-PMARL"
				Comment	
				Largest PMAR length for PO1 format program object Basic section length PO1 format Program object section length	
				End of Comment	
7	(7)	X'50'	0	PMAR_MAXLEN_PO1	"PMAR_END-PMAR+PMARL_PM2-PMARL"
				Comment	
				Largest PMAR length for program objects Basic section length Program object section length for PO2	
				End of Comment	
7	(7)	X'70'	0	PMAR_MAXLEN_PO2	"PMAR_END-PMAR+PMARL_PM3-PMARL"
				Comment	
				Largest PMAR length for program objects Basic section length Program object section length for PO3	
				End of Comment	
7	(7)	X'80'	0	PMAR_MAXLEN_PO3	"PMAR_END-PMAR+PMARL_PM4-PMARL"
				Comment	
				Largest PMAR length for program objects Basic section length Program object section length for PO4	
				End of Comment	
7	(7)	X'88'	0	PMAR_MAXLEN_PO4	"PMAR_END-PMAR+PMARL_PM5-PMARL"
				Comment	
				Largest PMAR length for program objects Basic section length Program object section length for PO5	
				End of Comment	
7	(7)	X'88'	0	PMAR_MAXLEN_PO5	"PMAR_END-PMAR+PMARL_END-PMARL"
				Comment	
				Largest PMAR length for PDS load modules Load module section length	
				End of Comment	
7	(7)	X'35'	0	PMAR_MAXLEN_LOADMOD	"PMAR_END-PMAR+PMARR_END-PMARR"

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
Largest PMARL length for PO1 format program objects PO1 format Program object section length					
7	(7)	X'32'	0	PMARL_LVL1LEN	End of Comment "PMARL_PM2-PMARL"
Comment					
Largest PMARL length for PO2 format program objects PO2 format Program object section length					
7	(7)	X'52'	0	PMARL_LVL2LEN	End of Comment "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"

IEWPMAR Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
PMAR	0		PMAR_MAXLEN_PROGOBJ	7	88
PMAR_AAMD	7	C	PMAR_MSER	18	
PMAR_AAMD_MASKOFF			PMAR_NREP	5	8
	7	F3	PMAR_NRLD	5	10
PMAR_AC	9		PMAR_ORG0	5	40
PMAR_ALTP	7	80	PMAR_OVLY	4	20
PMAR_ATR	4		PMAR_PAGA	6	20
PMAR_ATR1	4		PMAR_PLVL	3	
PMAR_ATR2	5		PMAR_PLVL_AOS_VAL	3	3
PMAR_ATR3	6		PMAR_PLVL_B1_VAL	3	5
PMAR_ATR4	7		PMAR_PLVL_B2_VAL	3	6
PMAR_ATR5	8		PMAR_PLVL_B3_VAL	3	7
PMAR_BIG	6	40	PMAR_PLVL_B4_VAL	3	8
PMAR_CHLV	16		PMAR_PLVL_B5_VAL	3	9
PMAR_END	1E		PMAR_PLVL_E_VAL	3	1
PMAR_ENTRY	0		PMAR_PLVL_F_VAL	3	2
PMAR_EPA	12		PMAR_PLVL_XA_VAL	3	4
PMAR_EPM	E		PMAR_PM1_VAL	2	1
PMAR_EXEC	4	2	PMAR_PM2_VAL	2	2
PMAR_FLVL	5	80	PMAR_PM3_VAL	2	3
PMAR_FTB1	6		PMAR_PM4_VAL	2	4
PMAR_FTB2	7		PMAR_PM5_VAL	2	5
PMAR_LFMT	6	4	PMAR_REFR	5	1
PMAR_LIGHTWEIGHT_LE			PMAR_RENT	4	80
	1A	40	PMAR_REUS	4	40
PMAR_LOAD	4	8	PMAR_RMOD	7	10
PMAR_LONGPARM			PMAR_RMOD64	8	80
	8	1	PMAR_SCTR	4	4
PMAR_LVL	2		PMAR_SIGNED	6	2
PMAR_LVL_VAL	2	5	PMAR_SLEN	0	
PMAR_MAMD	7	3	PMAR_SSFB	17	
PMAR_MAXLEN	7	88	PMAR_SSI	16	
PMAR_MAXLEN_LOADMOD			PMAR_STOR	A	
	7	35	PMAR_SYSTEM_LE		
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			

IEWPMAR Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
PMAR_TEST	1A	80	PMARL_MUSTDELETE	52	20
PMAR_TSTN	4	10	PMARL_NDEFER	54	
PMAR_XAPF	5	4	PMARL_NGAS	34	
PMAR_XATTR1	6	8	PMARL_NMIG	2	80
PMAR_XSSI	1A		PMARL_NSEG	32	
PMAR_1BLK	6	10	PMARL_NVSPGS	2A	
PMARA	4	1	PMARL_PACK	2	20
PMARA_ALTP	0		PMARL_PM2		32
PMARA_AMD	6	C	PMARL_PM3		52
PMARA_ATR	6		PMARL_PM3FL1		52
PMARA_ATR1	6		PMARL_PM4		62
PMARA_DATA	2		PMARL_PM5		6A
PMARA_END	7		PMARL_PO_SUBLVL		
PMARA_EPA	7				5
PMARA_FTB2	2		PMARL_PO_SUBLVL_ZOSV1R10		
PMARA_HIDE	6	40		5	2
PMARA_LEN	0		PMARL_PO_SUBLVL_ZOSV1R13		
PMARA_MANGLED	6			5	3
PMARA_NEXEC	6	10	PMARL_PO_SUBLVL_ZOSV1R3		
PMARL	6	20		5	1
PMARL_ATR	0		PMARL_PO_SUBLVL_ZOSV1R5		
PMARL_ATR1	2			5	2
PMARL_ATR2	2		PMARL_PO_SUBLVL_ZOSV1R7		
PMARL_ATR3	3			5	3
PMARL_BDRL	3		PMARL_PO_SUBLVL_ZOSV1R8		
PMARL_BDRO	62			5	1
PMARL_CMMPR	12		PMARL_PO_SUBLVL_ZOSV2R1		
PMARL_CMS	16			5	4
PMARL_CMS_INVALXA	3	80	PMARL_PRIM	2	40
PMARL_CMS_INVALXC	53		PMARL_RATL		22
PMARL_CMS_MODALL	53	4	PMARL_RATO		26
PMARL_CMS_MODDOS	53	2	PMARL_RDTL		1A
PMARL_CMS_NOCLEAN	53	8	PMARL_RDTO		1E
PMARL_CMS_STRINIT	53	10	PMARL_SLEN		0
PMARL_CMS_SYSTEM	53	40	PMARL_TIME		46
PMARL_DATE	53	20	PMARL_TRACE		42
PMARL_DLENA	53	80	PMARL_TXTL		A
PMARL_DTEMPL	52		PMARL_TXTO		E
PMARL_END	52	40	PMARL_USER		4A
PMARL_FILL	56		PMARL_XPL		2
PMARL_FILLVAL	6A		PMARL_1ALIN		10
PMARL_HIDE	3	2	PMARL_1DTXTO		8
PMARL_HPL	4		PMARL_1RMOD		5A
PMARL_IEBLITO	52	2	PMARL_1RMOD64		3
PMARL_IEBLITP	52				40
PMARL_LMDL	5E		PMARL_1STOR		62
PMARL_LMDO	52		PMARL_2ALIN		80
PMARL_LVL1LEN	2E		PMARL_2RMOD		36
PMARL_LVL2LEN	7		PMARL_2RMOD64		3
PMARL_LVL3LEN	7	32	PMARL_2STOR		4
PMARL_LVL4LEN	7	52	PMARL_2TXTO		20
PMARL_LVL5LEN	7	62	PMARR		
PMARL_MANGLED	7	6A	PMARR_DATA		0
PMARL_MDAT	7	6A	PMARR_END		2
PMARL_MPFS	52	8	PMARR_ESDC		17

IEZEUNLD Information

IEZEUNLD Programming Interface information

Programming Interface information

IEZEUNLD

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

- EUNLSPAC
- EUNLSPCP

End of Programming Interface information

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 Map

Offsets					
Dec	Hex	Type/Value	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 Cross Reference

Name	Hex Offset	Hex Value
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	

IEZVG100 Information

IEZVG100 Programming Interface information

Programming Interface information

IEZVG100

End of Programming Interface information

IEZVG100 Heading Information • IEZVG100 Map

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 Map

Offsets

Dec	Hex	Type/Value	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	SCSVER	VERSION LEVEL
5	(5)	BITSTRING	4	SCSFUNC	Function Bytes
5	(5)	BITSTRING	1	SCSFUNC1	FIRST FUNCTION BYTE

Comment

Bit definitions:

1...	....	SCSOBTAN	End of Comment	"X'80" OBTAIN A CONSOLE FOR USE BY A SYSTEM COMPONENT
.1...	....	SCSDEMSL		"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
....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

Comment

Bit definitions:

1...	....	SCSRLGRP	End of Comment	"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

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
Bit definitions:					
					End of Comment
					"X'80'" OBTAIN A CONSOLE REQUEST COMPLETED
					"X'40'" DEMAND SELECT REQUEST COMPLETED
					"X'20'" RELEASE A CONSOLE REQUEST COMPLETED
					"X'10'" REQUEST TO BROADCAST WTOS COMPLETED
					"X'08'" REQUEST TO TURN OFF BROADCAST OF WTOS COMPLETED
					"X'04'" CHANGE THE ROUTING CODES REQUEST COMPLETED **** Warning - this service is obsolete in HBB7730 and above
					"X'02'" STATUS REQUEST COMPLETE
					"X'01'" DETERMINE THE TYPE OF PROTOCOL REQUEST COMPLETED
10	(A)	BITSTRING	1	SCSCOMP2	SECOND FUNCTION COMPLETION BYTE
Comment					
Bit definitions:					
					End of Comment
					"X'80'" REQUEST TO RELEASE ONE OR MORE CONSOLES BY ASID COMPLETED
					"X'40'" MASTER COMMAND AUTHORITY REQUEST COMPLETED
					"X'20'" WITHDRAW MASTER COMMAND AUTHORITY REQUEST COMPLETED
					"X'10'" OBTAIN AUTHORITY OF CONSOLE REQUEST COMPLETED
					"X'08'" REQUEST TO RELEASE ONE OR MORE CONSOLES BY SYSTEM NAME COMPLETED
					"X'04'" A CONSOLE NAME HAS BEEN RETURNED IN SCSNAME (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	SCSRSYNM	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 SCSCnId must be used in HBB7730 and above
34	(22)	BITSTRING	1	SCSATI	SUBSYSTEM CONSOLE ATTENTION INDEX
35	(23)	BITSTRING	1	SCSCNSTF	CONSOLE STATUS FLAGS
Comment					
Bit definitions:					
					End of Comment
					"X'80'" CONSOLE NOT DEFINED TO MCS
					"X'40'" CONSOLE IS DEFINED TO MCS BUT NOT CURRENTLY IN USE BY MCS
					"X'20'" CONSOLE IS IN USE BY MCS OR ALLOCATED TO ANOTHER JOB
36	(24)	CHARACTER	2	SCSINUSE	FLAGS BYTES
36	(24)	BITSTRING	1	SCSFGLGS	FLAGS
Comment					
Bit definitions:					
					End of Comment
					"X'80'" PROTOCOL TYPE IS NOT KNOWN AT THIS TIME
Comment					
NOTE: TYPE 1 PROTOCOL MAY BE USED REGARDLESS OF WHETHER JES2 OR JES3 PRIMARY SUBSYSTEM IS ACTIVE.					
					End of Comment
					"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
					"X'10'" PRIMARY SUBSYSTEM NOT KNOWN AT THIS TIME
					SCSPNTKN

IEZVG100 Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.... 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

Comment

Bit definitions:

End of Comment					
		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	SCSRTCDP	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

Comment

THE ACRONYM AND VERSION LEVEL TO BE PLACED IN THE SUBSYSTEM CONSOLE SERVICE ROUTINE PARAMETER LIST

End of Comment					
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

Comment

SUBSYSTEM CONSOLE SERVICE ROUTINE RETURN CODES
RETURNED IN REGISTER 15

End of Comment					
88	(58)	X'0'	0	SCSROK	"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	SCSROBS	"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"

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SCSRTCD	THE ROUTING CODES
0	(0)	CHARACTER	1	SCSRTD01	FIRST BYTE OF ROUTING CODES

Comment

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	
.... 1..	....	SCSRD005	"X'08'" TAPE LIBRARY	
.... .1..	....	SCSRD006	"X'04'" DISK LIBRARY	
.... .1..	.	SCSRD007	"X'02'" UNIT RECORD POOL		
.... .1..	..1	SCSRD008	"X'01'" TELEPROCESSING CONTROL		
1	(1)	BITSTRING	1	SCSRTD02	SECOND BYTE OF ROUTING CODES

Comment

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..	..1	SCSRD016	"X'01'" USER ROUTING CODE		
2	(2)	BITSTRING	1	SCSRTD03	THIRD BYTE OF ROUTING CODES

Comment

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..	..1	SCSRD024	"X'01'" USER ROUTING CODE		
3	(3)	BITSTRING	1	SCSRTD04	FOURTH BYTE OF ROUTING CODES

Comment

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..	..1	SCSRD032	"X'01'" RESERVED		
4	(4)	BITSTRING	1	SCSRTD05	FIFTH BYTE OF ROUTING CODES

Comment

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

IEZVG100 Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
5	(5)	BITSTRING	1	SCSRTD06	"X'04" RESERVED "X'02" RESERVED "X'01" RESERVED SIXTH BYTE OF ROUTING CODES
					Comment
					Bit definitions:
6	(6)	BITSTRING	1	SCSRTD07	1... SCSR041 "X'80" JOB STATUS MESSAGE .1... SCSR042 "X'40" GENERAL INFO. ABOUT JES2 OR JES3 .1... SCSR043 "X'20" RESERVED FOR JES USAGE .1... SCSR044 "X'10" RESERVED FOR JES USAGE 1... SCSR045 "X'08" RESERVED FOR JES USAGE.... .1.. SCSR046 "X'04" RESERVED FOR JES USAGE.... ..1. SCSR047 "X'02" RESERVED FOR JES USAGE.... ...1 SCSR048 "X'01" RESERVED FOR JES USAGE SEVENTH BYTE OF ROUTING CODES
					Comment
					Bit definitions:
7	(7)	BITSTRING	1	SCSRTD08	1... SCSR049 "X'80" RESERVED FOR JES USAGE .1... SCSR050 "X'40" RESERVED FOR JES USAGE .1... SCSR051 "X'20" RESERVED FOR JES USAGE .1... SCSR052 "X'10" RESERVED FOR JES USAGE 1... SCSR053 "X'08" RESERVED FOR JES USAGE.... .1.. SCSR054 "X'04" RESERVED FOR JES USAGE.... ..1. SCSR055 "X'02" RESERVED FOR JES USAGE.... ...1 SCSR056 "X'01" RESERVED FOR JES USAGE EIGHTH BYTE OF ROUTING CODES
					Comment
					Bit definitions:
8	(8)	BITSTRING	1	SCSRTD09	1... SCSR057 "X'80" RESERVED FOR JES USAGE .1... SCSR058 "X'40" RESERVED FOR JES USAGE .1... SCSR059 "X'20" RESERVED FOR JES USAGE .1... SCSR060 "X'10" RESERVED FOR JES USAGE 1... SCSR061 "X'08" RESERVED FOR JES USAGE.... .1.. SCSR062 "X'04" RESERVED FOR JES USAGE.... ..1. SCSR063 "X'02" RESERVED FOR JES USAGE.... ...1 SCSR064 "X'01" RESERVED FOR JES USAGE NINTH BYTE OF ROUTING CODES
					Comment
					Bit definitions:
9	(9)	BITSTRING	1	SCSRTD10	1... SCSR065 "X'80" PROCESSOR RELATED MESSAGE .1... SCSR066 "X'40" PROCESSOR RELATED MESSAGE .1... SCSR067 "X'20" PROCESSOR RELATED MESSAGE .1... SCSR068 "X'10" PROCESSOR RELATED MESSAGE 1... SCSR069 "X'08" PROCESSOR RELATED MESSAGE.... .1.. SCSR070 "X'04" PROCESSOR RELATED MESSAGE.... ..1. SCSR071 "X'02" PROCESSOR RELATED MESSAGE.... ...1 SCSR072 "X'01" PROCESSOR RELATED MESSAGE TENTH BYTE OF ROUTING CODES
					Comment
					Bit definitions:
					End of Comment
					1... SCSR073 "X'80" PROCESSOR RELATED MESSAGE .1... SCSR074 "X'40" PROCESSOR RELATED MESSAGE .1... SCSR075 "X'20" PROCESSOR RELATED MESSAGE

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
		....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	SCSRTD11	ELEVENTH BYTE OF ROUTING CODES

Comment

Bit definitions:

					End of Comment
		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	SCSRTD12	TWELFTH BYTE OF ROUTING CODES

Comment

Bit definitions:

					End of Comment
		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	SCSRTD13	THIRTEENTH BYTE OF ROUTING CODES

Comment

Bit definitions:

					End of Comment
		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

Comment

Bit definitions:

					End of Comment
		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

Comment

Bit definitions:

					End of Comment
		1...		SCSRD113	"X'80'" DEVICE RELATED MESSAGE

IEZVG100 Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.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

Comment

Bit definitions:

End of Comment					
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"

IEZVG100 Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
SCS_HBB7709	58	4	SCSNMSTR	6	20
SCS_HBB7730	58	8	SCSNTDEF	23	80
SCSACRO	0		SCSNTKWN	24	80
SCSASID	26		SCSOBTAN	5	80
SCSATI	22		SCSOBTNC	9	80
SCSAUTH	6	10	SCSONAME	4C	
SCSAUTHC	A	10	SCSPJESN	2C	
SCSAUHF	28		SCSPLEN	58	60
SCSAUTHM	28	80	SCSPMSTC	A	40
SCSAUTHP	28	40	SCSPMSTR	6	40
SCSAUTH1	28	20	SCSPNTKN	24	10
SCSAUTH2	28	10	SCSPROTC	9	1
SCSAUTH3	28	8	SCSPROTO	5	1
SCSBRDFC	9	8	SCSR	58	C3E2D9
SCSBRDNC	9	10	SCSR_LENGTH_PRE730		
SCSBRDOF	5	8		58	50
SCSBRDON	5	10	SCSR_LENGTH_VER730		
SCSCASID	E			58	60
SCSCNAME	40		SCSRARSN	54	
SCSCNDEF	23	40	SCSRD001	0	80
SCSCNID	20		SCSRD002	0	40
SCSCNSTF	23		SCSRD003	0	20
SCSCOMP	9		SCSRD004	0	10
SCSCOMP1	9		SCSRD005	0	8
SCSCOMP2	A		SCSRD006	0	4
SCSCOMP3	B		SCSRD007	0	2
SCSCOMP4	C		SCSRD008	0	1
SCSCONID	3C		SCSRD009	1	80
SCSDEMSC	9	40	SCSRD010	1	40
SCSDEMSL	5	40	SCSRD011	1	20
SCSDSTAT	5	2	SCSRD012	1	10
SCSFLGS	24		SCSRD013	1	8
SCSFLGS1	24		SCSRD014	1	4
SCSFLGS2	25		SCSRD015	1	2
SCSFUNC	5		SCSRD016	1	1
SCSFUNC1	5		SCSRD017	2	80
SCSFUNC2	6		SCSRD018	2	40
SCSFUNC3	7		SCSRD019	2	20
SCSFUNC4	8		SCSRD020	2	10
SCSINUSE	23	20	SCSRD021	2	8
SCSJES3C	24	4	SCSRD022	2	4
SCSLEN	58	70	SCSRD023	2	2
SCSMVSC	24	8	SCSRD024	2	1
SCSNAME	10		SCSRD025	3	80
SCSNMSTC	A	20	SCSRD026	3	40

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
SCSRD027	3	20	SCSRD101	C	8
SCSRD028	3	10	SCSRD102	C	4
SCSRD029	3	8	SCSRD103	C	2
SCSRD030	3	4	SCSRD104	C	1
SCSRD031	3	2	SCSRD105	D	80
SCSRD032	3	1	SCSRD106	D	40
SCSRD033	4	80	SCSRD107	D	20
SCSRD034	4	40	SCSRD108	D	10
SCSRD035	4	20	SCSRD109	D	8
SCSRD036	4	10	SCSRD110	D	4
SCSRD037	4	8	SCSRD111	D	2
SCSRD038	4	4	SCSRD112	D	1
SCSRD039	4	2	SCSRD113	E	80
SCSRD040	4	1	SCSRD114	E	40
SCSRD041	5	80	SCSRD115	E	20
SCSRD042	5	40	SCSRD116	E	10
SCSRD043	5	20	SCSRD117	E	8
SCSRD044	5	10	SCSRD118	E	4
SCSRD045	5	8	SCSRD119	E	2
SCSRD046	5	4	SCSRD120	E	1
SCSRD047	5	2	SCSRD121	F	80
SCSRD048	5	1	SCSRD122	F	40
SCSRD049	6	80	SCSRD123	F	20
SCSRD050	6	40	SCSRD124	F	10
SCSRD051	6	20	SCSRD125	F	8
SCSRD052	6	10	SCSRD126	F	4
SCSRD053	6	8	SCSRD127	F	2
SCSRD054	6	4	SCSRD128	F	1
SCSRD055	6	2	SCSRELSC	9	20
SCSRD056	6	1	SCSRELSE	5	20
SCSRD057	7	80	SCSRGRPC	A	80
SCSRD058	7	40	SCSRLCSY	6	8
SCSRD059	7	20	SCSRLLEN	58	10
SCSRD060	7	10	SCSRLGRP	6	80
SCSRD061	7	8	SCSRLSYC	A	8
SCSRD062	7	4	SCSRNAMC	A	4
SCSRD063	7	2	SCSRNAVL	58	8
SCSRD064	7	1	SCSRNCMP	58	C
SCSRD065	8	80	SCSRNTFD	58	4
SCSRD066	8	40	SCSROBS	58	10
SCSRD067	8	20	SCSROK	58	0
SCSRD068	8	10	SCSRPLST	0	
SCSRD069	8	8	SCSRPLST_LEN	58	60
SCSRD070	8	4	SCSRRRTN	48	
SCSRD071	8	2	SCSRSV1	D	
SCSRD072	8	1	SCSRSV5	29	
SCSRD073	9	80	SCSRSV6	58	
SCSRD074	9	40	SCSRSYNM	18	
SCSRD075	9	20	SCSRTCD	0	
SCSRD076	9	10	SCSRTCD_LEN	10	10
SCSRD077	9	8	SCSRTCDC	9	4
SCSRD078	9	4	SCSRTCDF	5	4
SCSRD079	9	2	SCSRTCDP	30	
SCSRD080	9	1	SCSRTD01	0	
SCSRD081	A	80	SCSRTD02	1	
SCSRD082	A	40	SCSRTD03	2	
SCSRD083	A	20	SCSRTD04	3	
SCSRD084	A	10	SCSRTD05	4	
SCSRD085	A	8	SCSRTD06	5	
SCSRD086	A	4	SCSRTD07	6	
SCSRD087	A	2	SCSRTD08	7	
SCSRD088	A	1	SCSRTD09	8	
SCSRD089	B	80	SCSRTD10	9	
SCSRD090	B	40	SCSRTD11	A	
SCSRD091	B	20	SCSRTD12	B	
SCSRD092	B	10	SCSRTD13	C	
SCSRD093	B	8	SCSRTD14	D	
SCSRD094	B	4	SCSRTD15	E	
SCSRD095	B	2	SCSRTD16	F	
SCSRD096	B	1	SCSSP211	58	1
SCSRD097	C	80	SCSSP220	58	2
SCSRD098	C	40	SCSSP440	58	3
SCSRD099	C	20	SCSSTATC	9	2
SCSRD100	C	10	SCSTYPE1	24	40

IEZVG100 Cross Reference

Name	Hex Offset	Hex Value
SCSUNIT	35	
SCSUNIT4	34	
SCSVER	4	
SCSVERSN	58	8
SCSXMCSP	38	

IFAEDIDF Information

IFAEDIDF Programming Interface information

Programming Interface information

IFAEDIDF

End of Programming Interface information

IFAEIDIF Heading Information • IFAEIDIF Map

IFAEIDIF Heading Information

Common Name:	IFAEDExx IDF (return codes and output areas)
Macro ID:	IFAEIDIF
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:	IFAEIDLIS parameter list IFAEDESTA parameter list
Serialization:	None required
Function:	Provides return code equates for the IFAEDExx services. Maps the ansarea data returned by the IFAEIDLIS service. Maps the outputinfo data returned by the IFAEDSTA service. For IFAEDSTA, the EDOI DSECT maps the outputinfo area. For IFAEIDLIS, the returned information consists of a header (EDAAHDR) which indicates how many Registered entries (EdaaNumR, first address in EdaaFirstRAddr) and State entries (EdaaNumS, first address in EdaaFirstSAddr) follow. There is also 0 or 1 Status entry (address in EdaaStatusAddr, 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.

IFAEIDIF Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	EDOI	
0	(0)	BITSTRING	1	EDOIFLAGS	
	1....	....		EDOIREGISTERED	
	.1..	....		EDOISTATUSNOTDEFINED	"X'80'" The product is registered
	.1..	....		EDOISTATUSENABLED	"X'40'" The product is not known to be enabled or disabled.
	.1..	....		EDOINOTALLFEATURESRETURNED	"X'20'" The product is enabled.
	....1	....			"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		

Comment

Constants for Parameters and Return Codes
Product Enable/Disable Register Constants

				End of Comment
14	(E)	X'0'	0	IFAEDEREG_TYPE_STANDARD "0"
14	(E)	X'2'	0	IFAEDEREG_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	IFAEDEREG_TYPE_NOREPORT

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
14	(E)	X'8'	0	IFAEDREG_TYPE_LICENSEDUNDERPROD	"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'10'	0	IFAEDREG_TYPE_DISABLEDMESSAGE	"8" The registering feature is not separately licensed. Rather, the license is associated with the product specified by the prodname parameter.
14	(E)	X'20'	0	IFAEDREG_TYPE_NOTFOUNDDISABLED	"16" If the product is found to be disabled, have the system issue the appropriate message, rather than the caller having to do it.
					"32" If no enable/disable policy entry matches this product, treat the product as disabled, rather than treating it as enabled.

Comment

Product Enable/Disable Register Return Codes

Note: 0C4 abend if bad address provided in parmlist or user data

End of Comment

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

Comment

Product Enable/Disable Deregister Return Codes

Note: 0C4 abend if bad address provided in parmlist or user data

End of Comment

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
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

Comment

Product Enable/Disable Status Return Codes

Note: 0C4 abend if bad address provided in parmlist or user data

End of Comment

IFAEIDIDF Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
14	(E)	X'0'	0	IFAEDESTA_SUCCESS	"0" Status service completed successfully
14	(E)	X'4'	0	IFAEDESTA_NOTDEFINED	"4" The status service found no entry corresponding to the input product.
14	(E)	X'8'	0	IFAEDESTA_NOTAVAILABLE	"8" Status service is not available on this system.
14	(E)	X'10'	0	IFAEDESTA_NOTTASKMODE	"16" Status service was not called in task mode.
14	(E)	X'14'	0	IFAEDESTA_XM	"20" Status service was not called with P=H=S
14	(E)	X'24'	0	IFAEDESTA_LOCKED	"36" Status service was called holding a system lock
14	(E)	X'28'	0	IFAEDESTA_FRR	"40" Status service was called having an FRR

Comment

Product Enable/Disable List Constants

14	(E)	X'1'	0	IFAEIDLIS_TYPE_REGISTERED	End of Comment
14	(E)	X'2'	0	IFAEIDLIS_TYPE_STATE	"1" Return the registration entry/entries corresponding to the input product.
14	(E)	X'4'	0	IFAEIDLIS_TYPE_STATUS	"2" Return the state entry/entries corresponding to the input product.
14	(E)	X'8'	0	IFAEIDLIS_TYPE_NOREPORT	"4" Return the status entry corresponding to the input product.
					"8" When returning registration entries, include those for which the IFAEDREG call specified Ifaedreg_Type_NoReport. If not requested, those entries are not returned.

Comment

Product Enable/Disable List Return Codes

Note: 0C4 abend if bad address provided in parmlist or user data

14	(E)	X'0'	0	IFAEIDLIS_SUCCESS	End of Comment
14	(E)	X'4'	0	IFAEIDLIS_NOTALLDATARETURNED	"0" List service completed successfully
14	(E)	X'8'	0	IFAEIDLIS_NOTAVAILABLE	"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'C'	0	IFAEIDLIS_ANSAREATOOSMALL	"8" List service is not available on this system.
14	(E)	X'10'	0	IFAEIDLIS_NOTTASKMODE	"12" The answer area, indicated by the answer len parameter is not large enough to hold the answer area header (DSECT EdaaDR).
14	(E)	X'14'	0	IFAEIDLIS_XM	"16" List service was not called in task mode.
14	(E)	X'20'	0	IFAEIDLIS_BADTYPE	"20" List service was not called with P=H=S
					"32" The type parameter did not specify a word with a value formed from adding any combination of IFAEIDLIS_TYPE_REGISTERED, IFAEIDLIS_TYPE_STATE, IFAEIDLIS_TYPE_STATUS, and IFAEIDLIS_TYPE_NOREPORT.
14	(E)	X'24'	0	IFAEIDLIS_LOCKED	"36" List service was called holding a system lock
14	(E)	X'28'	0	IFAEIDLIS_FRR	"40" List service was called having an FRR
14	(E)	X'10'	0	EDOI_LEN	"*-EDOI"

Offsets

Dec	Hex	Type/Value	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 EdaaFirstRAddr.
4	(4)	SIGNED	4	EDAAHNUMS	Number of Edaae entries which follow indicating state entries. The first one is pointed to by EdaaFirstSAddr.
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
20	(14)	ADDRESS	4	EDAAHSTATUSADDR	

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
24	(18)	CHARACTER	8		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)	X'20'	0	EDAAHDR_LEN	Unused "-EDAAHDR"

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	EDAAE	Edaae Record data format
0	(0)	ADDRESS	4	EDAAENEXTADDR	Address of next Edaae. EdaaeNumR (for the registered queue) or EdaaeNumS (for the state queue) must be used to determine how far along this chain to go. Not relevant for EdaaeStatusAddr.
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 Ifaedreg_Type_Noreport. This will never on for entries on the state queue.
		...1		EDAAELICENSEDUNDERPROD	"X'10'" If on, indicates that the product registered with Ifaedreg_Type_LicensedUnderProd. This will never on for entries on the state queue.
67	(43)	CHARACTER	1	EDAAENUMINSTANCES	Unused
68	(44)	SIGNED	4		Number of concurrent instances of this registration
68	(44)	X'48'	0	EDAAE_LEN	"*-EDAAE"

IFAEIDIDF Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
EDAAE	0		EDAAHDR	42	80
EDAAE_LEN	44	48	EDAAHDR_LEN	0	
EDAAEFEATURENAME	24		EDAAHFIRSTADDR	18	20
EDAAEFLAGS	42		EDAAHFIRTSADDR	C	
EDAAEINFO	4		EDAAHNUMR	10	
EDAAELICENSEDUNDERPROD	42	10	EDAAHNUMS	0	
EDAAENEXTADDR	0		EDAAHSTATUSADDR	4	
EDAAENOREPORT	42	20	EDAAHTLEN	14	
EDAAENUMINSTANCES	44		EDOI	8	
EDAAEPRODID	3A		EDOI_LEN	0	
EDAAEPRODMOD	38		EDOIFLAGS	E	10
EDAAEPRODNAME	14		EDOINEEDEDFEATURESLEN	0	
EDAAEPRODOWNER	4		EDOINOTALLFEATURESRETURNED	4	
EDAAEPRODREL	36		EDOIPRODMOD	0	10
EDAAEPRODVERS	34		EDOIPRODREL	C	
EDAAESTATUSENABLED	42	40	EDOIPRODVERS	A	
EDAAESTATUSNOTDEFINED			EDOIPRODVERSRELMOD	8	
			EDOIREGISTERED	8	
				0	80

IFAEDIDF Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
EDOISTATUSENABLED	0	20	IFAEDSTA_FRR	E	28
EDOISTATUSNOTDEFINED	0	40	IFAEDSTA_LOCKED	E	24
IFAEDDRG_FRR	E	28	IFAEDSTA_NOTAVAILABLE	E	8
IFAEDDRG_LOCKED	E	24	IFAEDSTA_NOTDEFINED	E	4
IFAEDDRG_NOTAUTH	E	18	IFAEDSTA_NOTTASKMODE	E	10
IFAEDDRG_NOTAVAILABLE	E	8	IFAEDSTA_SUCCESS	E	0
IFAEDDRG_NOTREGISTERED	E	C	IFAEDSTA_XM	E	14
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			
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			

IFAENF37 Information

IFAENF37 Programming Interface information

Programming Interface information

IFAENF37

End of Programming Interface information

IFAENF37 Heading Information

Common Name: SMF MAPPING MACRO FOR EVENT CODE 37
Macro ID: IFAENF37
DSECT Name: ENF37 (For SMF Interval Sync Support)
Owning 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)
Created by: SMF
Pointed to by: N/A
Serialization: None
Function: SMF Mapping Macro for ENF (Event Code #37) users

IFAENF37 Map**Offsets**

Dec	Hex	Type/Value	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
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

IFAENF37 Cross Reference

Name	Hex Offset	Hex Value
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	8000000
ENF37Q05	14	4000000
ENF37Q06	18	2000000
ENF37RSV	A	
ENF37TOD	10	
ENF37VER	6	
ENF37V1	22	F0F1

IFAQUAA Information

IFAQUAA Programming Interface information

Programming Interface information

IFAQUAA

End of Programming Interface information

IFAQUAA 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 IFAQUERY invocation
Pointed to by: IFAQUERY parameter list
Serialization: None required
Function: Maps the data returned by the IFAQUERY macro request.

IFAQUAA Map

Offsets

Dec	Hex	Type/Value	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"

Offsets

Dec	Hex	Type/Value	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

Comment

Bit definitions:

1...	....	QUALSDEF	End of Comment "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	Status byte 2

Comment

Bit definitions:

1...	QUALSCRQ	End of Comment "X'80" On-Compression requested for records written to this log stream by SMF configuration Off-Compression not requested
------	------	----------	---

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.1...		QUALSCPRT	"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
		...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)

Comment

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.

Dec	Hex	Type/Value	Len	Name (Dim)	End of Comment
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"

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	QUAFSTYPE	Policy Record data format
0	(0)	BITSTRING	1	QUAFSTYP	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	QUAFSLEN	Length of Policy record
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	QUAFTYPE	Record type this filter is for
32	(20)	X'21'	0	QUAFSTYPE_LEN	"-QUAFSTYPE"

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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	QUAPSLEN	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

IFAAQUA Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
QUAA Constants					
32	(20)	X'2'	0	QUAALOGSTREAMTYPE "2"	End of Comment
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"	

IFAAQUA Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
QUAADROPHISTORYTYPE	20	5	QUALSREC	20	
QUAAFLOODPOLICYDROPTYPE	20	4	QUALSTAT	4C	
QUAAFLOODPOLICYMSGTYPE	20	3	QUALSTB1	4C	
QUAALASTENTRY	20	80	QUALSTB2	4D	
QUAALOGSTREAMTYPE	20	2	QUALSTB3	4E	
QUAFENDINTVL	10		QUALSTB4	4F	
QUAFINTVLTIME	8		QUALSTOD	44	
QUAFMAXHIGHINTS	1C		QUALSTYP	0	
QUAFRECTHRESH	18		QUALSTYPE	0	
QUAFSLEN	2		QUALTYPE_LEN	70	74
QUAFSTYP	0		QUAPDROPPEDRECORDS	8	
QUAFSTYPE	0		QUAPFLOODEND	20	
QUAFSTYPE_LEN	20	21	QUAPFLOODSTART	10	
QUAFTYPE	20		QUAPRECTYPE	1	
QUAH#REC	0		QUAPSLEN	2	
QUAH#REM	4		QUAPSTYP	0	
QUAHDOFF	C		QUAPSTYPE	0	
QUAHDRTYPE	0		QUAPSTYPE_LEN	20	30
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				

IFAUCCC Information

IFAUCCC Programming Interface information

Programming Interface information

IFAUCCC

End of Programming Interface information

IFAUCCC Heading Information • IFAUCCC Cross Reference

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:
 Offset: '00'X
 Length: 4
Storage Attributes:
 Main Storage: No
 Virtual Storage: Yes
 Auxiliary Storage: Yes
 Subpool: 2
 Key: 8
 Data Space: No
 Residency: Virual
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 Map

Offsets					
Dec	Hex	Type/Value	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	UCCCNAME	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	UCCCIPHON	Customer contact's phone
328	(148)	CHARACTER	1	UCCCDATA	Customer data origination
329	(149)	CHARACTER	15	UCCCRESV1	Reserved
329	(149)	X'158'	0	UCCCEND	"** End of UCCC
329	(149)	X'158'	0	UCCCSIZE	"UCCCEND-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	UCCCVERC	"UCCCS29" Current version

IFAUCCC Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
UCCC	0		UCCCVERS	6	
UCCCADD1	30		UCCC313	149	1
UCCCADD2	58				
UCCCADD3	80				
UCCCADD4	A8				
UCCCADD5	D0				
UCCCADD6	F8				
UCCCID	149	C3C3C3			
UCCCDATA	148				
UCCCEND	149	158			
UCCCID	0				
UCCCLEN	4				
UCCCNAME	8				
UCCCONTA	120				
UCCCIPHON	134				
UCCCRESD	7				
UCCCRESV1	149				
UCCCSIZE	149	158			
UCCCS29	149	2			
UCCCVERC	149	2			

IFAUMCC Information

IFAUMCC Programming Interface information

Programming Interface information

IFAUMCC

End of Programming Interface information

IFAUMCC Heading Information • IFAUMCC Map

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:
 Offset: '00'X
 Length: 4
Storage Attributes:
 Main Storage: No
 Virtual Storage: Yes
 Auxiliary Storage: Yes
 Subpool: 2
 Key: 8
 Data Space: No
 Residency: Virual
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 Map

Offsets

Dec	Hex	Type/Value	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

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	UMCPROCT	Processor Table entries
0	(0)	BITSTRING	2	UMCPCTYPE	Processor Type - e.g. '9021'x
2	(2)	CHARACTER	4	UMCPYPIC	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....		UMCPNPVS	"X'20" On= this entry cannot be used in the PROCESSOR statement
		....1		UMCPROMOD	"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

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	UMCCLST	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-UMCCLST" Length of cluster table entry

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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

IFAUMCC Cross Reference

Name	Hex Offset	Hex Value
UMCC	0	
UMCCCID	9	D4C3C3
UMCCCLCT	A	
UMCCCLPT	10	
UMCCEND	14	24
UMCCID	0	
UMCCLEN	4	
UMCCLST	0	
UMCCMOD	6	
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
UMCPNVP	10	20
UMCPROMOD	10	10
UMCPROCT	0	
UMCPRS2	30	
UMCPTEND	30	32
UMCPTLEN	30	32
UMCPTYPC	2	
UMCPTYPE	0	
UMCPVER	E	

IFAUOCC Information

IFAUOCC Programming Interface information

Programming Interface information

IFAUOCC

End of Programming Interface information

IFAUOCC Heading Information • IFAUOCC Cross Reference

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:
 Offset: '00'X
 Length: 4
Storage Attributes:
 Main Storage: No
 Virtual Storage: Yes
 Auxiliary Storage: Yes
 Subpool: 2
 Key: 8
 Data Space: No
 Residency: Virual
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 Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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 verion
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	"CUOCC" UOCC Eye catcher
42	(2A)	X'1'	0	UOCC313	"1" UOCC Version - SP313
42	(2A)	X'1'	0	UOCCVERC	"UOCC313" Current Version

IFAUOCC Cross Reference

Name	Hex Offset	Hex Value
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

IFAUPCC Information

IFAUPCC Programming Interface information

Programming Interface information

IFAUPCC

End of Programming Interface information

IFAUPCC Heading Information • IFAUPCC Map

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: Virual
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 Map

Offsets					
Dec	Hex	Type/Value	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 verion
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	UPCCSTRT	Product start or testdate date in YYYYMMDD format
44	(2C)	CHARACTER	30	UPCCSTA	Product status array
74	(4A)	CHARACTER	16	UPCCRSV3	Reserved

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	UPCCSTAD	Mapping of UPCCSTA 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

IFAUUPCC Cross Reference

Name	Hex Offset	Hex Value
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

IFAUPRM Information

IFAUPRM Programming Interface information

Programming Interface information

IFAUPRM

End of Programming Interface information

IFAUPRM Heading Information • IFAUPRM Map

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:
 Offset: '00'X
 Length: 4
Storage Attributes:
 Main Storage: No
 Virtual Storage: Yes
 Auxiliary Storage: Yes
 Subpool: 2
 Key: 8
 Data Space: No
 Residency: Virual
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 Map

Offsets					
Dec	Hex	Type/Value	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

Comment

Exit function codes

End of Comment					
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
16	(10)	ADDRESS	4	UPRMCID	Pointer to Customer Data
20	(14)	ADDRESS	4	UPRMMCC7	Pointer to Processor Table
24	(18)	ADDRESS	4	UPRMUSID	Pointer to Sysplex ID Data
28	(1C)	ADDRESS	4	UPRMMSGS	Pointer to SYSMSGS DCB
32	(20)	ADDRESS	4	UPRMPRNT	Pointer to SYSPRINT DCB
36	(24)	BITSTRING	1	UPRMFLAG (0)	Flags
36	(24)	BITSTRING	1	UPRMFLG1	Flag byte 1
		1...		UPRMHI	"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	UPRMDFCD	Code indicating which type 89 data fields to process

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.... .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
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

Comment

Exit processing return codes

End of Comment

Dec	Hex	Value	Name	Description
84	(54)	X'0'	UPRMRCPR	"0" Process record
84	(54)	X'4'	UPRMRCIG	"4" Ignore record
84	(54)	X'8'	UPRMRCDI	"8" Process record, then disable exit
84	(54)	X'C'	UPRMRCAG	"12" Process record, then call exit again with same record

IFAUPRM Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
UPRM	0		UPRM313	6	1
UPRM#OW11350	6	2	UPRM89SU	24	40
UPRM#OW27078	6	3			
UPRMCD	10				
UPRMCID	0	D7D9D4			
UPRMCT	44				
UPRMDFCD	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				
UPRMHII	24	80			
UPRMID	0				
UPRMIFAV	30				
UPRMIMCU	27	2			
UPRMIMOD	27				
UPRMIRCU	26	1			
UPRMIREL	26				
UPRMIVCU	25	4			
UPRMIVER	25				
UPRMIVRM	25				
UPRMLEN	4				
UPRMMCCT	14				
UPRMMETR	54				
UPRMMGS	1C				
UPRMPRNT	20				
UPRMRCAG	54	C			
UPRMRCDI	54	8			
UPRMRCIG	54	4			
UPRMRCPR	54	0			
UPRMRDAT	40				
UPRMREC	8				
UPRMRSV2	48				
UPRMSIZE	54	58			
UPRMUD	28				
UPRMUSID	18				
UPRMVWD	C				
UPRMVERC	6	3			
UPRMVERS	6				

IFAUSID Information

IFAUSID Programming Interface information

Programming Interface information

IFAUSID

End of Programming Interface information

IFAUSID Heading Information • IFAUSID Map

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: Virual
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 Map

Offsets					
Dec	Hex	Type/Value	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
36	(24)	CHARACTER	8	USIDPDAT	Value of PLEXDATE keyword in yyymmdd 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

Offsets					
Dec	Hex	Type/Value	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	USIDTPC	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"

Offsets					
Dec	Hex	Type/Value	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

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
21	(15)	CHARACTER	12	USIDCLSC	Printable Cluster Number
33	(21)	BITSTRING 1...	1	USIDCFLG USIDCFND	Flags "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

IFAUSID Cross Reference

Name	Hex Offset	Hex Value
USID	0	
USIDC	0	
USIDCCN	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	
USIDFNNDH	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
USIDPFGLG	19	
USIDPFND	19	80
USIDPMCN	1A	
USIDPPTR	14	
USIDPSZE	1A	2A
USIDRSV2	30	
USIDSERC	11	
USIDSERN	E	
USIDSIZE	30	40
USIDTPC	2	
USIDTYPE	0	
USIDUOCC	2C	
USIDVER	18	
USIDVERC	22	1
USIDVERS	6	
USID313	22	1

IFAUVCC Information

IFAUVCC Programming Interface information

Programming Interface information

IFAUVCC

End of Programming Interface information

IFAUVCC Heading Information • IFAUVC Cross Reference

IFAUVCC Heading Information

Common Name: Usage Report Program Vendor Data
Macro ID: IFAUVC
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: Virual
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 Map

Offsets					
Dec	Hex	Type/Value	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
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	UVCEP	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	"CUVCC" UVCC Eye Catcher
348	(15C)	X'1'	0	UVCC313	"1" UVCC Version
348	(15C)	X'1'	0	UVCCVERC	"UVCC313" Current version

IFAUVCC Cross Reference

Name	Hex	Hex	Name	Hex	Hex
	Offset	Value		Offset	Value
UVCC	0		UVCCFNDH	7	40
UVCCADD1	44		UVCCHIST	7	80
UVCCADD2	6C		UVCCID	0	
UVCCADD3	94		UVCCLEN	4	
UVCCADD4	BC		UVCCNAME	1C	
UVCCADD5	E4		UVCCNEXT	8	
UVCCADD6	10C		UVCCNUM	14C	
UVCCCID	15C	E5C3C3	UVCCPO	C	
UVCCDD	144		UVCCRSV1	15C	
UVCCEN	13C		UVCCSIZE	15C	16C
UVCCEND	15C	16C	UVCCUD	134	
UVCEP	138		UVCCVERC	15C	1
UVCCEXTL	154		UVCCVERS	6	
UVCCFLAG	7		UVCC313	15C	1

IFAU29LM Information

IFAU29LM Programming Interface information

Programming Interface information

IFAU29LM

End of Programming Interface information

IFAU29LM Heading Information • IFAU29LM Map

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 Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	U29L_PARM	
0	(0)	SIGNED	2	U29L_LNAME_LENGTH	
2	(2)	CHARACTER	26	U29L_LNAME	
2	(2)	X'1C'	0	U29L_PARM_LEN	"*-U29L_PARM"

IFBDCBDC Information

IFBDCBDC Heading Information

Common Name: Mapping for Logrec Data CSECT in nucleus resident module IFBDCB01
Macro ID: IFBDCBDC
DSECT Name: IFBDCBDC
Owning 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 Map

Offsets					
Dec	Hex	Type/Value	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)	

Comment

THE FOLLOWING ADDED TO SUPPORT DISPLAY EXCEPTION MONITORING
 FACILITY (DEMFA) - MVS Version 3.7

				End of Comment
356	(164)	SIGNED	4	IFBBUFFP
360	(168)	SIGNED	4	IFBASCBP
364	(16C)	SIGNED	4	(4)
380	(17C)	BITSTRING	1	IFBFLGS1
381	(17D)	BITSTRING	1	IFBFLGS2
	...1.			IFBNPDAA
382	(17E)	BITSTRING	1	IFBFLGS3
383	(17F)	BITSTRING	1	IFBFLGS4
384	(180)	SIGNED	4	IFBNPDA
388	(184)	SIGNED	4	IFBNPDAC
392	(188)	SIGNED	4	IFBNWORK
396	(18C)	SIGNED	2	IFDNLNG
398	(18E)	SIGNED	2	RESERVED

Comment

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.

				End of Comment
400	(190)	ADDRESS	4	Reserved for IBM
404	(194)	SIGNED	4	IFB080E WTO DOM id - set and cleared in IFBSVC76
404	(194)	X'198'	0	*** End of the data CSECT

IFBDCBDC Cross Reference

IFBDCBDC Cross Reference

Name	Hex Offset	Hex Value
IFBASCBP	168	0
IFBBUFF	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

IFBENF36 Information

IFBENF36 Programming Interface information

Programming Interface information

IFBENF36

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

- IFBENF36_RECORD_START

End of Programming Interface information

IFBENF36 Heading Information • IFBENF36 Map

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 Map

Offsets					
Dec	Hex	Type/Value	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)	
0	(0)	CHARACTER	6	IFBENF36_ID	Start of ENF36 header
6	(6)	SIGNED	2	IFBENF36_LENGTH	Data Area ID 'ENF36'
8	(8)	CHARACTER	3	IFBENF36_RSVD1	Length of IFBENF36 header, does not include actual Logrec record
11	(B)	BITSTRING	1	IFBENF36_VERSION	Reserved for IBM
12	(C)	BITSTRING	4	IFBENF36_QUALIFIER (0)	Version of IFBENF36 data area
12	(C)	CHARACTER	2	IFBENF36_RSVD2	ENF 36 qualifier
14	(E)	BITSTRING	1	IFBENF36_BYTE3_QUAL	Reserved for IBM
15	(F)	BITSTRING	1	IFBENF36_BYTE4_QUAL	Qualifier code - record category
16	(10)	SIGNED	4	IFBENF36_RECORD_LENGTH	Qualifier code - record type
16	(10)	X'14'	0	IFBENF36_HEADER_LENGTH	Length of Logrec record
20	(14)	BITSTRING	1	IFBENF36_RECORD_START (0)	"*-IFBENF36" Assembled length of header not including actual Logrec record
					Start of Logrec record
					Comment

Versions of data area

.... ...1	End of Comment
	IFBENF36_LATEST_VERSION
	"X'01" Latest version of mapping
.... ...1	IFBENF36_1ST_VERSION
	"X'01" First version of mapping

IFBENF36 Cross Reference

Name	Hex Offset	Hex Value
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

IFBLOGLB Information

IFBLOGLB Heading Information

Common Name: Logrec - Log Stream Log Block
Macro ID: IFBLOGLB
DSECT Name: IFBLOGLB, Loglb_current_record
Owning 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 Map

Offsets					
Dec	Hex	Type/Value	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

Offsets					
Dec	Hex	Type/Value	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 Constants

Len	Type	Value	Name	Description
			Comment	
These constants are used with the IFBLOGLB mapping				
End of Comment				
8	CHARACTER	IFBLOGLB	LOGLB_EYE_CATCHER	The Loglb identifier
2	DECIMAL	1	LOGLB_VERSION	The version of the Loglb

IFBLOGLB Cross Reference

IFBLOGLB Cross Reference

Name	Hex Offset	Hex Value
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	

IFBNTASM Information

IFBNTASM Programming Interface information

Programming Interface information

IFBNTASM

End of Programming Interface information

IFBNTASM Heading Information • IFBNTASM Map

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 Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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
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

Offsets					
Dec	Hex	Type/Value	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

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					

The following values are used in the following fields:

IFBNT_LOGREC_CURRENT
IFBNT_LOGREC_PREVIOUS

....1	IFBNT_USE_DATASET	End of Comment
.... ...1.	IFBNT_USE_LOGSTREAM	"X'01'" Logrec data set being used
.... ...11	IFBNT_IGNORE_RECORDS	"X'02'" Logrec log stream being used

"X'03'" Logrec recording is ignored

Comment

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

End of Comment

IFBNTASM Cross Reference

Name	Hex Offset	Hex Value
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
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

IGVCAUB Information

IGVCAUB Programming Interface information

Programming Interface information

IGVCAUB

End of Programming Interface information

IGVCAUB Heading Information

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).
	IEAPIPL04 (VSM IPL Resource Initialization Module).
	IGVRQVR2 (VSM cell definition).
	IGVSFBTB (VSMDATA summary/detail table).
	IGVSFOWN (VSMDATA 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. 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 freemannaged 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 freemannaged 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'. 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:
Serialization:	
Function:	

-*- 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 Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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.)

Comment

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.

0	(0)	ADDRESS	4	CAUB_UNOWNED_NEXT	End of Comment
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.

Comment

Fields that identify this control block as a CAUB.

8	(8)	CHARACTER	4	CAUB_ID	End of Comment
12	(C)	SIGNED	2	CAUB_LEVEL	Char string 'CAUB' - eyecatcher. 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

Comment

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)	End of Comment
16	(10)	CHARACTER	4	CAUB ASN WORD (0)	Whole register is stored here, but only bits 16-31 are meaningful. Reserved, set to 0 when CAUB ASN is stored.
16	(10)	CHARACTER	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 ASCBASIC.

IGVCAUB Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
20	(14)	CHARACTER	8	CAUB_JOBNAME	Name of the job that was active when the storage was obtained. This is taken from ASCBJBNI or ASCJBNS.
28	(1C)	CHARACTER	8	CAUB_JOBID (0)	Items from the JSAB that identify the owning job. These are obtained via the IAZXJSAB macro.
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).
Comment					
<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>					
End of Comment					
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.)
Comment					
<p>Various flags.</p>					
End of Comment					
44	(2C)	CHARACTER	4	CAUB_FLAGS (0)	
44	(2C)	CHARACTER	1	CAUB_TYPE (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.
<p>1...</p>					
<p>CAUB_UNOWNED</p>					
<p>"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>					
Comment					
<p>No more than one of the following bits should be on. Any other combination indicates a VSM bug.</p>					
End of Comment					
<p>.1...</p>					
<p>CAUB_SYSTEM</p>					
<p>"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.</p>					
<p>..1.</p>					
<p>CAUB_JOB</p>					
<p>"X'20" If on, this CAUB is a 'job CAUB'. (See "Function" section for more information on 'job CAUB').</p>					
<p>....1</p>					
<p>CAUB_ADDRESSSPACE</p>					
<p>"X'10" If on, this CAUB is an 'address space CAUB'. See "Function" section for more information on 'address space CAUB'</p>					
45	(2D)	CHARACTER	1	CAUB_DATAINCOMPLETE (0)	Bits indicating that tracking was not enabled at some point during the life of this CAUB
<p>1...</p>					
<p>CAUB_CSADATAINCOMPLETE</p>					
<p>"X'80" If on, tracking for CSA data was not enabled at some point during the life of this CAUB</p>					
<p>.1...</p>					
<p>CAUB_SQADATAINCOMPLETE</p>					
<p>"X'40" If on, tracking for SQA data was not enabled at some point during the life of this CAUB</p>					
48	(30)	CHARACTER	4		Reserved

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<p>The fields below contain a count of how much common storage is being used by the entity described in CAUB_Header.</p>					
				End of Comment	
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
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.
Comment					

Constants are declared for every existing level of the CAUB.

				End of Comment	
100	(64)	X'1'	0	CAUB_LEVEL_K1	"1" HBB4430 level
100	(64)	X'68'	0	CAUB_LEN	"*-CAUB"

IGVCAUB Cross Reference

IGVCAUB Cross Reference

Name	Hex Offset	Hex Value
CAUB	0	
CAUB_ADDRESSSPACE	2C	10
CAUB ASN	12	
CAUB ASN_KSYSTEM	64	0
CAUB ASN WORD	10	
CAUB CALLERID	10	
CAUB COUNTS	34	
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	

IGVDGNB Information

IGVDGNB Heading Information

Common Name: Diagnostic traps indicators
Macro ID: IGVDGNB
DSECT Name: DGNB
Owning Component: VSM (SC1CH)
Eye-Catcher ID:
 Offset: 0
 Length: 4
Storage Attributes: Key: 0
 Residency: EXTENDED NUCLEUS,Above 16M line
Size: 1128 bytes
 DGNBCBLOCV24 -- X'0004' bytes
 DGNBCBLOCV31 -- X'0004' bytes
 DGNBAUTOIPL -- X'0040' bytes
 DGNB -- X'04A8' 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 Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	DGNB	
0	(0)	CHARACTER	4	DGNBID	Control block id
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	DGNBSYNCNT	Update synchronization count
18	(12)	CHARACTER	2		Reserved
20	(14)	CHARACTER	60	DGNBBITS	
20	(14)	CHARACTER	4	DGNBWORD1	
20	(14)	BITSTRING	1	DGNBBYTE1	

Comment

Bit definitions:

End of Comment

1...

DGNB_TEMPMC1 "X'80'" For temporary use

IGVDGNB Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
21	(15)	BITSTRING	1	DGNBBYTE2	
				Comment	
				Bit definitions:	
				End of Comment	
22	(16)	BITSTRING	1	DGNBBYTE3	
				Comment	
				Bit definitions:	
				End of Comment	
23	(17)	BITSTRING	1	DGNBBYTE4	
				Comment	
				Bit definitions:	
				End of Comment	
24	(18)	CHARACTER	4	DGNBWORD2	
24	(18)	BITSTRING	1	DGNBBYTE5	
				Comment	
				Bit definitions:	
				End of Comment	
				DGNB_IGVINITCPOOL	"X'80" Initialize Cpool storage
				DGNB_IGVUNCOND	"X'40" Make all Freemains and STORAGE RELEASEs unconditional
				DGNB_IGVINITGETMAIN	"X'20" Initialize GETMAINed storage

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
		....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_IGVCPOOLGETV	"X'01'" CPOOL GET validity checking
25	(19)	BITSTRING	1	DGNBBYTE6	

Comment

Bit definitions:

					End of Comment
		1...		DGNB_IENANOSUSPSYSTRC	"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_IEAINITSRSB	"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_IEARISGNLTRACE	"X'02'" RISGNL tracing
		.... ...1		DGNB_IEARPSGNLTRACE	"X'01'" RPSGNL tracing
26	(1A)	BITSTRING	1	DGNBBYTE7	

Comment

Bit definitions:

					End of Comment
		1...		DGNB_IENANOSDWA	"X'80'" (E)STAE(X) and ARR routines get no SDWA
		.1...		DGNB_IKCRECSTRALLOC	"X'40'" Do symrec recording for structure allocation
		..1.		DGNB_IEAINITREGTASK	"X'20'" Initialize ARs and G64H for task dispatch
		...1		DGNB_IGVINITFREEMAIN	"X'10'" Initialize FREEMAINed storage
		.... 1...		DGNB_IGVCPOOLFREEQ	"X'08'" Check for already freed CPOOL cell
		.... .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_IKLDUPOUTOFSYNCH	"X'01'" Initiate CFCC diag cmd for duplex out of synch conditions
27	(1B)	BITSTRING	1	DGNBBYTE8	

Comment

Bit definitions:

					End of Comment
		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_IXLBREAKDUPLEX	"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	

IGVDGNB Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
					"X'04" Round extent sizes of SP 228 modules up to a page multiple
				DGNB_CSVSP241ROUNDUP	"X'02" Round extent sizes of SP 241 modules up to a page multiple
				DGNB_IGVCPOOLFREEQPXT	"X'01" Use HEXDATA as a list of PXT addresses for filtering
28	(1C)	CHARACTER	4	DGNBWORD3	
28	(1C)	BITSTRING	1	DGNBBYTE9	
Comment					
Bit definitions:					
End of Comment					
				DGNB_IARSERIALIZEPIN	
				DGNB_IEFABENDIEF702I	"X'80" Serialize RSMPIN processing
				DGNB_IEASETFRRENV	"X'40" Abend on msg IEF702I
				DGNB_IEASETFRRAMODE	"X'20" Check environment (locked, disabled, SRB mode, or EUT FRR mode) when using SETFRR
				DGNB_ASNREUSE	"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.
				DGNB_IOSDCMMMSGS	"X'08" Activate ASNReuse code
				DGNB_HZSCHECK	"X'04" IOS DCM Messages
				DGNB_ICVTESTEADSCB	"X'02" Healthchecker checks
				DGNB_IARST64INITGET	"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	
Comment					
Bit definitions:					
End of Comment					
				DGNB_IOSCCMMSGS	"X'80" IOS CCM Messages
				DGNB_IEMISUSEPMC	"X'40" Detect misuse of Process Must Complete
				DGNB_BLWEXSNXESDETECT	"X'20" Excessive spin XES hang detection
				DGNB_IOSFCTCLOG	"X'10" Ficon CTC log
				DGNB_IGVDAQATCKPT	"X'08" Make copy of AQATs before doing compression
				DGNB_IXLNORTESUPPRESS	"X'04"
				DGNB_IXL DUPLEXWRTRCLI	"X'02"
				DGNB_IXLNOIRTCCOMP	"X'01" Suppress immediate RTC completion
30	(1E)	BITSTRING	1	DGNBBYTE11	
Comment					
Bit definitions:					
End of Comment					
				DGNB_IARST64INITFREE	"X'80"
				DGNB_IARCP64INITGET	"X'40"
				DGNB_IARCP64INITFREE	"X'20"
				DGNB_IARCP64TRAILER	"X'10"
				DGNB_IARCP64INITGET	"X'08"

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.... .1..		DGNB_IARST64TRAILER	"X'04"
		.... ...1.		DGNB_IEASYSTRCNOLIMIT	"X'02"
		.... ...1		DGNB_IOSZDACMSGS	"X'01"
31	(1F)	BITSTRING	1	DGNBBYTE12	

Comment

Bit definitions:

					End of Comment
		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
		.... ...1.		DGNB_IEATXABEVERY	"X'02"
		.... ...1		DGNB_IEATXABRANDOM	"X'01"
32	(20)	CHARACTER	4	DGNBWORD4	
32	(20)	BITSTRING	1	DGNBBYTE13	

Comment

Bit definitions:

					End of Comment
		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_BLWEXSNPROCDIAG	"X'10" Perform processor diagnostics for excessive spin. Use only as directed by IBM support
		.... 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_IOSPCIESIMMSGS	"X'02" IOS PCIE Simulation should issue messages
33	(21)	BITSTRING	1	DGNBBYTE14	

Comment

Bit definitions:

					End of Comment
		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

34 (22) BITSTRING 1 DGNBBYTE15

Comment

Bit definitions:

End of Comment

IGVDGNB Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
		1...		DGNB_CSRPOOLDIAG	"X'80" CSRPOOL diagnostics
35	(23)	BITSTRING	1	DGNBBYTE16	
36	(24)	CHARACTER	44		Reserved
80	(50)	CHARACTER	248	DGNBTRAPS	
80	(50)	CHARACTER	72	DGNBJOBSS	
80	(50)	SIGNED	2	DGNB#JOBS	Count of how many Jobnames are in list. Maximum is 8.
82	(52)	BITSTRING	1	DGNBJOBFLAGS	Flags

Comment

Bit definitions:

End of Comment					
		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.
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	
294	(126)	BITSTRING	1	DGNBFILTERFLAGS	Key N is being traced when DgnbKeyBits(N+1) is on.

Comment

Bit definitions:

End of Comment					
		1111 1...		DGNBFILTERACTIVE	"X'F8"
		1...		DGNBJOBNAMEFILT	"X'80" Jobname filtering is active
		.1...		DGNBASIDFILT	"X'40" Asid filtering is active
		..1.		DGNBSUBPOOLFILT	
		...1 ...		DGNBKEYFILT	"X'20" Subpool filtering is active
		.... 1...		DGNBLENGTHFILT	"X'10" Key filtering is active
					"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

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
Bit definitions:					
				End of Comment	
				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
Comment					
Bit definitions:					
				End of Comment	
				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	DGNBPROTDETTON	PROTECT/DETECT ON flags
Comment					
Bit definitions:					
				End of Comment	
				DGNBPROTECTON	
				"X'F0"	PROTECT indicators
				DGNBPROTECTCSAON	
				"X'C0"	
				DGNBPROTECTCSA24ON	
				"X'80"	PROTECT CSA24(ON)
				DGNBPROTECTCSA31ON	
				"X'40"	PROTECT CSA31(ON)
				DGNBPROTECTSQAON	
				"X'30"	
				DGNBPROTECTSQA24ON	
				"X'20"	PROTECT SQA24(ON)
				DGNBPROTECTSQA31ON	
				"X'10"	PROTECT SQA31(ON)
				DGNBDETECTON	
				"X'0F"	DETECT indicators
				DGNBDETECTCSAON	
				"X'0C"	
				DGNBDETECTCSA24ON	
				"X'08"	DETECT CSA24(ON)
				DGNBDETECTCSA31ON	
				"X'04"	DETECT CSA31(ON)
				DGNBDETECTSQAON	
				"X'03"	
				DGNBDETECTSQA24ON	
				"X'02"	DETECT SQA24(ON)
				DGNBDETECTSQA31ON	
				"X'01"	DETECT SQA31(ON)
1039	(40F)	BITSTRING	1	DGNBPROTDETACTIVE	PROTECT/DETECT Active flags
Comment					
Bit definitions:					
				End of Comment	
				DGNBCSAACTIVE	
				"X'F0"	CSA tracking required
				DGNBPROTECTCSA24ACTIVE	
				"X'80"	PROTECT has been ON for CSA24 at some time since IPL
				DGNBPROTECTCSA31ACTIVE	
				"X'40"	PROTECT has been ON for CSA31 at some time since IPL
				DGNBDETECTCSA24ACTIVE	

IGVDGNB Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		....1....		DGNBDETECTCSA31ACTIVE	"X'20'" DETECT has been ON for CSA24 at some time since IPL
		....1111		DGNBSQAACTIVE	"X'10'" DETECT has been ON for CSA31 at some time since IPL
		....1...		DGNBPROTECTSQA24ACTIVE	"X'0F'" SQA tracking required
		....1..		DGNBPROTECTSQA31ACTIVE	"X'08'" PROTECT has been ON for SQA24 at some time since IPL
		....1..1.		DGNBPROTECTSQA31ACTIVE	"X'04'" PROTECT has been ON for SQA31 at some time since IPL
		....1..1.		DGNBDETECTSQA24ACTIVE	"X'02'" DETECT has been ON for SQA24 at some time since IPL
		....1..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	DGNBPRIMEPSAVALE	Test value being used for PrimePSA function
1056	(420)	CHARACTER	8	DGNBVSMDETECTMONITORTIME	Time at which last completed IGVDMNN pass was started
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	

Comment

Bit definitions:

				End of Comment	
		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..1.		DGNBALLOWUSERKEYCADSSPEC
				"X'02'" AllowUserKeyCADS was specified	
1075	(433)	BITSTRING	1	DGNBOPTIONS2	

Comment

Bit definitions:

				End of Comment	
		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	

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
1128	(468)	X'4A8'	0	DGNB_LEN	"*-DGNB"

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	DGNBCBLOCV24	
0	(0)	BITSTRING	1	DGNBCBLOCV24BYTE0	

Comment

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...	DGNBCBLOCV24IHASDWAFRR "X'08" SDWA for FRRs			
....	.1..	DGNBCBLOCV24IHAASVT "X'04" Not Supported!			
....	..1.	DGNBCBLOCV24IHAXTLST "X'02"			
....	...1	DGNBCBLOCV24CNZSSICB "X'01"			
1	(1)	CHARACTER	3	Reserved	
1	(1)	X'4'	0	DGNBCBLOCV24_LEN	"*-DGNBCBLOCV24"

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	DGNBCBLOCV31	
0	(0)	BITSTRING	1	DGNBCBLOCV31BYTE0	

Comment

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 Not supported!		
...1.	....	DGNBCBLOCV31IHAASVT "X'20" Not Supported!		
...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"

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	DGNBAUTOIPL	
0	(0)	CHARACTER	64	DGNBAI	
0	(0)	ADDRESS	4	DGNBAIREGWSATADDR	Registered WSAT

IGVDGNB Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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	DGNBAISADLOADPARM	
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	DGNBAIMVSLOADPARM	
44	(2C)	ADDRESS	4	DGNBAIMVSUCBADDR	
48	(30)	CHARACTER	8	DGNBAIMVSPINTOKEN	
56	(38)	BITSTRING	1	DGNBAIAUTOIPLFLAGS	

Comment

Bit definitions:

				End of Comment	
	1...	....	DGNBAI_SADIPL		
	.1..	....	DGNBAI_MVSREIPL	"X'80'" Take a SADMP	
	..1.	....	DGNBAI_SADSIDDEFAULT	"X'40'" Re-IPL z/OS	
	....1	....	DGNBAI_MVSSIDDEFAULT	"X'20'" Use subchannel set id of IPL device for the SAD volume	
				"X'10'" Use current subchannel set id for the IPL volume	
57	(39)	CHARACTER	7	Reserved	
57	(39)	X'C7D5C2'	0	DGNBIDC	"CDGNB" Dgnb control block id string
57	(39)	X'FOF5'	0	DGNBVERC	"C'05'" Current version
57	(39)	X'FOF1'	0	DGNBVER1	"C'01'" Dgnb version HBB6606
57	(39)	X'FOF2'	0	DGNBVER2	"C'02'" Dgnb version HBB7708
57	(39)	X'FOF3'	0	DGNBVER3	"C'03'" Dgnb version HBB7709
57	(39)	X'FOF4'	0	DGNBVER4	"C'04'" Dgnb version HBB7730
57	(39)	X'FOF5'	0	DGNBVER5	"C'05'" Dgnb version HBB7750
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_0TO3	"C'IGVD" This is the first 4-byte segment of an 8-byte constant. Name parameter value for SETEVENT macro
57	(39)	X'C1C7C2'	0	DGNBSETEVENTNAME_4TO7	"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	DGNBAIAUTOIPL_LEN	"*-DGNBAIAUTOIPL"

IGVDGNB Cross Reference

Name	Hex Offset	Hex Value
DGNB_DGNB ASNREUSE	0	
DGNB_DGNB_ATRSERCHECKS	1C	8
DGNB_DGNB_BLWEXSNABEND06B	1F	8
DGNB_DGNB_BLWEXSNPROCDIAG	20	8
DGNB_DGNB_BLWEXSNXESDETECT	20	10
DGNB_DGNB_BLWEXSNXESPROCDG	1D	20
DGNB_DGNB_CNZTRON	20	4
DGNB_DGNB_CNZTRONWITHABEND	1A	4
DGNB_DGNB_CSRPOOLDIAG	1A	2
DGNB_DGNB_CSVRENTPROTECT	22	80
DGNB_DGNB_CSVRENTSP252	1B	20
DGNB_DGNB_CSVPSP228ROUNDUP	1B	40
DGNB_DGNB_CSVPSP241ROUNDUP	1B	4
DGNB_DGNB_CSVPSP252ROUNDUP	1B	2
DGNB_DGNB_HZSCHECK	1B	8
DGNB_DGNB_IARCP64INITFREE	1C	8
DGNB_DGNB_IARCP64INITGET	1E	2
DGNB_DGNB_IARCP64TRAILER	1E	10
DGNB_DGNB_IARCP64TRAILER	1E	20
DGNB_DGNB_IARNOPAGE0DS	1E	8
DGNB_DGNB_IARSERIALIZEPIN	1F	20
DGNB_DGNB_IARST64INITFREE	1C	80
DGNB_DGNB_IARST64INITGET	1E	40
DGNB_DGNB_IARST64TRAILER	1E	80
DGNB_DGNB_IBMSYSTEMTEST	1E	80
DGNB_DGNB_ICVTESTEADSCB	20	4
DGNB_DGNB_IDAVSAMHC	20	20
DGNB_DGNB_IDAVSAMHC	1C	1
DGNB_DGNB_IEACMSETV	1F	80
DGNB_DGNB_IDADIEFPR	19	80
DGNB_DGNB_IDADIEFPR	20	40
DGNB_DGNB_IEAINITARSRB	19	40
DGNB_DGNB_IEAINITREGTASK	19	10
DGNB_DGNB_IDAMISUSEPMC	1A	20
DGNB_DGNB_IDAMISUSEPMC	1D	40
DGNB_DGNB_IDANOSDWA	1A	80
DGNB_DGNB_IDANOSUSPSYSTRC	1A	80
DGNB_DGNB_IDEARISGNLTRACE	19	80
DGNB_DGNB_IDEARPSGNLTRACE	19	2
DGNB_DGNB_IDARTMRECORDALL	19	1
DGNB_DGNB_IDARTMRECORDALL	20	80

Name	Hex Offset	Hex Value
DGNB_DGNB IEARTM2NOSNAPTRC	1F	4
DGNB_DGNB IEARTM2SNAPX22	1F	10
DGNB_DGNB IEASCHEDULETRACE	19	4
DGNB_DGNB IEASCHEDULEV	19	40
DGNB_DGNB IEASETFRRAMODE	1C	10
DGNB_DGNB IEASETFRRENV	1C	20
DGNB_DGNB IEASPINLOCKV	19	20
DGNB_DGNB IEASYSTRCNOLIMIT	1E	2
DGNB_DGNB IEATXABEVERY	1F	2
DGNB_DGNB IEATXABRANDOM	1F	1
DGNB_DGNB IEAZADUNCOND	1F	40
DGNB_DGNB IEFABENDIEF702I	1C	40
DGNB_DGNB IGVCPoolFreeQ	1A	8
DGNB_DGNB IGVCPoolFreeQPXT	1B	1
DGNB_DGNB IGVCPoolGetV	18	1
DGNB_DGNB IGVDAQATCKPT	1D	8
DGNB_DGNB IGVDiagxxabend	18	4
DGNB_DGNB IGVInitCpool	18	80
DGNB_DGNB IGVInitFreeMain	1A	80
DGNB_DGNB IGVInitGetMain	18	10
DGNB_DGNB IGVNewPage24	18	20
DGNB_DGNB IGVNewPage31	18	10
DGNB_DGNB IGVNoUserKeyCSA	18	8
DGNB_DGNB IGVUncond	18	2
DGNB_DGNB IOSBVOF	21	40
DGNB_DGNB IOSCCMMSGS	1D	40
DGNB_DGNB IOSDCMMSGS	1C	80
DGNB_DGNB IOSFCTCLOG	1D	4
DGNB_DGNB IOShpNoThrottle	21	10
DGNB_DGNB IOIgnorePlusOne	21	80
DGNB_DGNB IOspcieSimMsgs	21	20
DGNB_DGNB IOprotCaptUcb	20	2
DGNB_DGNB IOprotCaptUcb	1B	80
DGNB_DGNB IOSZDACMSGS	1E	1
DGNB_DGNB IXCRECSTRALLOC	1A	40
DGNB_DGNB IXLBREAKDUPLEX	1B	10
DGNB_DGNB IXLDUPLEXWRTCLI	1D	2
DGNB_DGNB IXLDUPOUTOFSYNCH		

IGVDGNB Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
DGNB_IXLNOIRTCCOMP	1A	1	DGNBAIREGWSATADDR	2C	
DGNB_IXLNORTESUPPRESS	1D	1	DGNBAISADDEV#	0	
DGNB_LEN	1D	4	DGNBAISADINFO	8	
DGNB_TEMPMC1	468	4A8	DGNBAISADLOADPARM	8	
DGNB_TEMPMC10	14	80	DGNBAISADPINTOKEN	C	
DGNB_TEMPMC11	15	40	DGNBAISADUCBADDR	18	
DGNB_TEMPMC12	15	20	DGNBAIUSERWSATADDR	14	
DGNB_TEMPMC13	15	10	DGNBALLOWUSERKEYCADSN0	4	
DGNB_TEMPMC14	15	8	DGNBALLOWUSERKEYCADSSPEC	432 4	
DGNB_TEMPMC15	15	4	DGNBALLOWUSERKEYCSANO	432 2	
DGNB_TEMPMC16	15	2	DGNBALLOWUSERKEYCSASPEC	432 80	
DGNB_TEMPMC2	15	1	DGNBASIDFILT	432 40	
DGNB_TEMPMC3	14	40	DGNBASIDLIST	126 40	
DGNB_TEMPMC4	14	20	DGNBASIDMAX	E4	
DGNB_TEMPMC5	14	10	DGNBASIDS	39 10	
DGNB_TEMPMC6	14	8	DGNBASIDSTART	E0	
DGNB_TEMPMC7	14	4	DGNBASIDSTOP	E4	
DGNB_TEMPMC8	14	2	DGNBAUTOIPL	E6	
DGNB_TEMPMC9	14	1	DGNBAUTOIPL_LEN	0	
DGNB_TEMP1	15	80	DGNBAUTOIPLADDR	39 40	
DGNB_TEMP10	16	80	DGNBAUTOIPLSTG	43C	
DGNB_TEMP11	17	40	DGNBBESTFITCSA	468	
DGNB_TEMP12	17	20	DGNBBITS	433 80	
DGNB_TEMP13	17	10	DGNBBYTE1	14	
DGNB_TEMP14	17	8	DGNBBYTE10	14	
DGNB_TEMP15	17	4	DGNBBYTE11	1D	
DGNB_TEMP16	17	2	DGNBBYTE12	1E	
DGNB_TEMP2	17	1	DGNBBYTE13	1F	
DGNB_TEMP3	17	1	DGNBBYTE14	20	
DGNB_TEMP4	17	0	DGNBBYTE15	21	
DGNB_TEMP5	17	80	DGNBBYTE16	22	
DGNB_TEMP6	17	8	DGNBBYTE2	23	
DGNB_TEMP7	17	4	DGNBBYTE3	24	
DGNB_TEMP8	17	2	DGNBBYTE4	25	
DGNB_TEMP9	17	1	DGNBBYTE5	26	
DGNB#ASIDS	17	0	DGNBBYTE6	27	
DGNB#CHARDATAS	17	80	DGNBBYTE7	28	
DGNB#HEXDATAS	17	80	DGNBBYTE8	29	
DGNB#JOBS	17	80	DGNBBYTE9	2A	
DGNB#LENS	17	80	DGNBCBLOCV24	2B	
DGNB#SUFFIXES	17	80	DGNBCBLOCV24_LEN	2C	
DGNBAI	3A8	0	DGNBCBLOCV24ADDR	2D	
DGNBAI_MVSRE IPL	3A8	0	DGNBCBLOCV24BYTE0	2E	
DGNBAI_MVSSIDDEFAULT	38	40	DGNBCBLOCV24CNZSSICB	2F	
DGNBAI_SADIPL	38	10	DGNBCBLOCV24IEAFRRSTACKS	30	
DGNBAI_SADSIDDEFAULT	38	80	DGNBCBLOCV24IEFALLOCNSTG	31	
DGNBAIAUTOIPLFLAGS	38	20	DGNBCBLOCV24IHAASVT	32	
DGNBAIMVSDEV#	38	20	DGNBCBLOCV24IHALCCA	33	
DGNBAIMVSINFO	20	0	DGNBCBLOCV24IHAPCCA	34	
DGNBAIMVSLOADPARM	20	80			
DGNBAIMVSPINTOKEN	24	40			
DGNBAIMVSUCBADDR	30	4			

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
DGNBCBLOCV24IHASDWAFRR	0	20	DGNBFILTERROUTINEADDR	126	
	0	8	DGNBFLAGS	C	
DGNBCBLOCV24IHAXTLST	0	2	DGNBFLAG1	6	
	460		DGNBHEXDATA	384	
DGNBCBLOCV31	0		DGNBHEXDATALIST	380	
DGNBCBLOCV31_LEN	1	4	DGNBHEXDATAMAX	39	8
DGNBCBLOCV31ADDR	438		DGNBID	0	
DGNBCBLOCV31BYTE0	0		DGNBIDC	39	C7D5C2
DGNBCBLOCV31CNZSSICB	0	2	DGNBJOBMAX	39	8
DGNBCBLOCV31IEFMASTERSWA	0	40	DGNBJOBNAME	58	
DGNBCBLOCV31IEFSUBMSTRSWA	0	80	DGNBJOBNAMEFILT	126	80
DGNBCBLOCV31IHAASVT	0	20	DGNBJOBNAMEWILD	52	80
DGNBCBLOCV31IHALCCA	0	8	DGNBJOBS	50	
DGNBCBLOCV31IHAPCCA	0	10	DGNBJOBSFLAGS	52	
DGNBCBLOCV31IHAXTLST	0	4	DGNBKEYBITS	124	
DGNBCBLOCV31STG	464		DGNBKEYFILT	126	10
DGNBCHARDATA	340		DGNBLENGTHFILT	126	8
DGNBCHARDATALIST	338		DGNBLENLIST	A0	
DGNBCHARDATAMAX	39	8	DGNBLENMAX	39	8
DGNBCHECKREGIONLOSS	410		DGNBLENSENS	98	
DGNBCHECKREGIONLOSS24	410		DGNBLENSTART	A0	
DGNBCHECKREGIONLOSS24UNIT	418		DGNBLENSTOP	A4	
DGNBCHECKREGIONLOSS31	414		DGNBNONZERO1	434	
DGNBCHECKREGIONLOSS31UNIT	419		DGNBNONZERO1RESV	440	
DGNBCPOOLFREEQMAX	3A4		DGNBOPTIONS1	432	
DGNBCSAACTIVE	40F	F0	DGNBOPTIONS2	433	
DGNBDETECT	240		DGNBPRIMEPSAVALE	41C	
DGNBDETECTCSAON	40E	C	DGNBPRIVATEBUFFER	428	
DGNBDETECTCSA24ACTIVE	40F	20	DGNBPRIVATEBUFFER24	428	
DGNBDETECTCSA24ON	40E	8	DGNBPRIVATEBUFFER24UNIT	430	
DGNBDETECTCSA31ACTIVE	40F	10	DGNBPRIVATEBUFFER31	42C	
DGNBDETECTCSA31ON	40E	4	DGNBPRIVATEBUFFER31UNIT	431	
DGNBDETECTCON	40E	F	DGNBPROTDETACTIVE	40F	
DGNBDETECTSQAON	40E	3	DGNBPROTDETTON	40E	
DGNBDETECTSQA24ACTIVE	40F	2	DGNBPROTECT	148	
DGNBDETECTSQA24ON	40E	2	DGNBPROTECTCSAON	40E	C0
DGNBDETECTSQA31ACTIVE	40F	1	DGNBPROTECTCSA24ACTIVE	40F	80
DGNBDETECTSQA31ON	40E	1	DGNBPROTECTCSA24ON	40E	80
DGNBFILTERACTIVE	126	F8	DGNBPROTECTCSA31ACTIVE	40F	40
DGNBFILTERFLAGS			DGNBPROTECTCON	40E	40
			DGNBPROTECTCSA31ON	40E	F0
			DGNBPROTECTSQAON	40E	30
			DGNBPROTECTSQA24ACTIVE	40F	8
			DGNBPROTECTSQA24ON	40E	20
			DGNBPROTECTSQA31ACTIVE	40F	4
			DGNBPROTECTSQA31ON	40E	10

IGVDGNB Cross Reference

Name	Hex Offset	Hex Value
DGNBRESV1	7	
DGNBRESV2	8	
DGNBREUSASIDSPEC	432	10
DGNBREUSASIDYES	432	20
DGNBSETEVENTNAME_0TO3	39	C7E5C4
DGNBSETEVENTNAME_4TO7	39	C1C7C2
DGNBSQAACTIVE	40F	F
DGNBSTGINIT	40C	
DGNBSTGINITFLAGS	40C	
DGNBSTGINITSPEC	40C	80
DGNBSTGINITVAL	40D	
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	F0F5
DGNBVER1	39	F0F1
DGNBVER2	39	F0F2
DGNBVER3	39	F0F3
DGNBVER4	39	F0F4
DGNBVER5	39	F0F5
DGNBVSMDETECTMONITORTIME	420	
DGNBWORD1	14	
DGNBWORD2	18	
DGNBWORD3	1C	
DGNBWORD4	20	
DGNBZERO	10	
DGNBZERO2	454	

IGVDGNX Information

IGVDGNX Heading Information

Common Name: Diagnostic traps extraction area
Macro ID: IGVDGNX
DSECT Name: DGNX
Owning Component: VSM (SC1CH)
Eye-Catcher ID:
 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 Map

Offsets					
Dec	Hex	Type/Value	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 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

Offsets					
Dec	Hex	Type/Value	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 Constants

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)

IGVDGNX Cross Reference

IGVDGNX Cross Reference

Name	Hex Offset	Hex Value
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	

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:	IEAIPLO4 & 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 freemannied while being read. The GQE may also be put on the queue of free QEES while being read. Monitors will need to handle this (e.g., a recovery routine could catch the reference to a freemannied GQE, and encountering a GQE on the free queue could be taken as the end of the queue being run.)
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 QEES. (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 QEES. (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 QEES pointed to by the GQAT entry for that 64K chunk. The QEES 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 QEES per GQAT entry is 8K, or 8,192 (because 64K/8=8K).

IGVGQAT Map

Offsets					
Dec	Hex	Type/Value	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"

Offsets					
Dec	Hex	Type/Value	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 QEES.
516	(204)	X'204'	0	GQAT_LEN	"*-GQAT"

IGVGQAT Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	GQATENT	,
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"

IGVGQAT Cross Reference

Name	Hex	Hex
	Offset	Value
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	

IGVGQE Information

IGVGQE Programming Interface information

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IGVGQE

End of Programming Interface information

IGVGQE Heading Information • IGVGQE Map

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 freemannied 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 freemannied 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 Map

Offsets					
Dec	Hex	Type/Value	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"
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_BYTETO (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_BYTETO (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_BYTETO (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_BYTETO (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.

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<p>Note: GQE_Protect and GQE_Detect are mutually exclusive, and will never be set on at the same time.</p>					
End of Comment					
20	(14)	ADDRESS	4	GQE_RETADDR (0)	"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.
20	(14)	BITSTRING	1	GQE_RETADDR_BYTE0	"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.
21	(15)	BITSTRING	2	GQE_RETADDR_BYTES1AND2	"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.
23	(17)	BITSTRING	1	GQE_RETADDR_BYTE3X'01" (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. 'FFFFFFFX here means that this GQE describes storage that was allocated before GETMAIN was available.
		.... ...1		GQE_CSA	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"

IGVGQE Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
GQE	0				13
GQE_AREA	C		GQE_SIZEMASK	18	FFFFF8
GQE_AREA_BITS0TO15	C				
GQE_AREA_BYTE0	C				
GQE_AREA_BYTE3	F				
GQE_AREAMASK	18	FFFFF8			
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_BYTEx1AND2	15				
GQE_RETADDR_BYTE0	14				
GQE_RETADDR_BYTE3	17				
GQE_SIZE	10				
GQE_SIZE_BYTE0	10				
GQE_SIZE_BYTE3					

IGVVAB Information

IGVVAB Programming Interface Information

Programming Interface Information

IGVVAB

End of Programming Interface Information

IGVVAB Heading Information • IGVVAB Map

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: 12 bytes
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 Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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.
12	(C)	X'E5C1C2'	0	VAB_ID_K	"C'VAB"
12	(C)	X'10'	0	VAB_LEN	"*-VAB"

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:
 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),
 IEAIPLO4 (VSM IPL Resource Initialization Module).
Pointed to by: GDAWRKA, GDAWRKAP, LDAWRKA
Serialization: VSMFIX LOCK FOR FIXED GLOBAL WORK AREA
 VSMPAG LOCK FOR PAGEABLE GLOBAL WORK AREA
 LOCAL LOCK FOR LOCAL WORK AREA
Function: DESCRIBES THE VSM WORK AREA

IGVVSMWK Map

Offsets					
Dec	Hex	Type/Value	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...			VSWKRFIX	0 => DON'T RELEASE VSMFIX LOCK 1 => RELEASE VSMFIX LOCK
	.1...			VSWKENT	0 => BRANCH ENTRY 1 => SVC Entry or PC entry. (VSWKSTOR distinguishes between the two.)
	..1.			VSWKGLBL	0 => NOT GLOBAL BRANCH ENTRY 1 => GLOBAL BRANCH ENTRY
	...1			VSWKRPG	0 => DON'T RELEASE VSMPAG LOCK 1 => RELEASE VSMPAG LOCK
	.... 1...			VSWKRCML	0 => DON'T RELEASE CML LOCK 1 => RELEASE CML LOCK
	.... .1..			VSWKLST	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	1	VSWKCKEY	CALLER'S KEY AND STATE
	1111			VSWKKEY	CALLER'S KEY
	1...			VSWKKEY8	HIGH ORDER BIT OF KEY
	.... 111.			*	
	.... ....1			VSWKSTAT	0 => CALLER IS IN SUPERVISOR STATE 1 => CALLER IS IN PROBLEM PROGRAM STATE
99	(63)	CHARACTER	1	VSWKFLGS	Flags processing
	1...			VSWKSTOR	0 => STORAGE service is not in process 1 => STORAGE service in process
	.1.			VSWKRSET	0 => don't CMSET (RESET) 1 => CMSET (RESET)
	..1.			VSWKRFRR	0 => don't delete SETFRR 1 => delete SETFRR
	...1			VSWKRCPU	0 => Don't release CPU lock 1 => Release CPU lock
	.... 1...			VSWKUNUSABLE	0 => Freed Page OK 1 => Freed Page Unusable
	.... .111			*	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

IGVVSMWK Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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	*	IEAIPLO4 wants this to be on an 8-byte boundary

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE IsA(VSWKCOMMTYPE)	192	VSWKCOMM	COMMUNICATION AREA
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	VSWKFISZ	FREEMAIN REQUEST SIZE
		1...		VSWKFISZ_BIT0	
16	(10)	ADDRESS	4	VSWKFADR	FREEMAIN REQUEST ADDRESS
16	(10)	UNSIGNED	2	VSWKFAD01	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

Comment

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.

End of Comment

		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 TCBADDR was specified on STORAGE OBTAIN or RELEASE
		.... .1..	VSWKTCBS	Owner information. See VswkOwner_xxxx constants
		.... ..11	VSWKOWNER	
31	(1F)	CHARACTER	1	VSWKMFLG	MISCELLANEOUS FLAGS
		1...	VSWKRCVR	0 => RECOVERY NOT IN PROCESS 1 => RECOVERY IN PROCESS	
		.1..	VSWKGLSR	IGVGLSQA is ('1'B) or is not ('0'B) being called recursively.	
		..1.	VSWKNOKB	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
		.... .1..	VSWKFFQE	First part of storage requested allocated from an FQE
		.... ..1.	VSWKMFHQ	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	*	User key storage
		1...	VSWKSKEYUSER		
		.111 1111	*		

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<p>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.</p>					
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
Comment					
<p>Start of area cleared in recovery by IGVRRTR</p>					
36	(24)	CHARACTER	64	VSWKCNTL	CONTROL INFORMATION
36	(24)	ADDRESS	4	VSWKGADR	ADDRESS OF ALLOCATED AREA
36	(24)	UNSIGNED	2	VSWKGAA01	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
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	VSWKQQA	ADDRESS OF QUEUE ANCHOR FIELDS IN GDA OR LDA
60	(3C)	ADDRESS	4	VSWKRD	ADDRESS OF RD IN USE
64	(40)	ADDRESS	4	VSWKFHQE	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 AQATINDEX 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
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.)

IGVVSMWK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.1...		VSWK_CSACV_SET	For Recovery. '1'B => GDACSACV, GDA_CSA_Conv and GDA_ESCA_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.		VSWKDEFERREL A	For Recovery. '1'B => VSM has detected a deferred release condition that involves an "Associated" page.
		.... ...1		VSWKDEFERREL F	For Recovery. '1'B => VSM has detected a defered release condition that involves an fixed page.

Comment

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.

End of Comment					
99	(63)	BITSTRING 1111	1	VSWKTRACKING *	Indicates if on or off. Must be mapped same as GDAFLGS Reserved DO NOT USE
		.... 1...		VSWKCSATRACKING	Reserved DO NOT USE
		.... .1..		VSWKSQATRACKING	
		.... ..11		*	
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	VSWKPMSASN	PKM and SASN
108	(6C)	BITSTRING	2	VSWPKPM	Caller's PKM, used in checking user-supplied key
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... .... .1... .... .1.	1	VSWKMFLG2 VSWKA31 VSWKA64	Caller is Amode(31) Caller is Amode(64)
		VSWKABENDANTICIPATED			Mainline sets this to tell IGVRVSM that an abend is anticipated
		....1		VSWKANTICIPATEDABENDOCCURRED	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..		VSWKLARGE PAGE4KFREE	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

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
		1...		*	Reserved for Future Extensions
		.1...		VSWKPAGEFRAMESIZE1MB	PageFrameSize1MB Specified
		..11 1111		*	Reserved for Future Extensions
141	(8D)	UNSIGNED	1	VSWKCBDY	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...		*	
		.... .1..		VSWKBACKNONESPECIFIED	
		.... ..1.		VSWKCBDSPECIFIED	
		.... ...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	VSWKLARGE PAGE4KFQE	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

Offsets

Dec	Hex	Type/Value	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	VSWKDSEQ	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

Offsets

Dec	Hex	Type/Value	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

Offsets

Dec	Hex	Type/Value	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

IGVVSMWK Constants

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
16	(10)	CHARACTER	*	VSWKPCEL	AREA FOR CELLS

Offsets					
Dec	Hex	Type/Value	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

IGVVSMWK Constants

Len	Type	Value	Name	Description
Comment				

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-GQE's 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.

			End of Comment	
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	VSWKGQECELLSPERGM	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 GQE's. Getmain proper needs cells
4	DECIMAL	1	VSWKCMCA	MINIMUM NUMBER OF CELLS for CAUB
4	DECIMAL	1	VSWKCMVA	MINIMUM NUMBER OF CELLS for VAB

Comment

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.

			End of Comment	
4	DECIMAL	0	VSWKCVAB	VAB subpool constant for GETMAIN TYPE(P)
4	DECIMAL	1	VSWKCCAUB	CAUB subpool constant for GETMAIN TYPE(P)
4	DECIMAL	2	VSWKCCSAGQE	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	VSKREAL IS BELOW 16M
0	BIT	1	VSWKRANY	VSKREAL IS ANYWHERE
0	BIT	00	VSWKRES	VSKVIRT IS RESIDENCE
0	BIT	01	VSWKBLW	VSKVIRT IS BELOW 16M
0	BIT	10	VSWKABV	VSKVIRT IS ABOVE 16M
0	BIT	10	VSWKEXP	EXPLICIT GETMAIN REQUEST
0	BIT	11	VSWKANY	VSKVIRT IS ANYWHERE
0	BIT	1	VSWKL16M	VSKVBLW IS BELOW 16M
0	BIT	1	VSWKG16M	VSKVABV IS ABOVE 16M
0	BIT	1	VSWKVBL	VSKVAR IS VARIABLE
0	BIT	0	VSWKELEM	VSKVAR IS ELEMENT
0	BIT	0	VSWKDWRD	VSKBNDY IS DOUBLE WORD
0	BIT	1	VSWKPAGE	VSKBNDY IS PAGE
0	BIT	1	VSWKCOND	VSKUNCD IS CONDITIONAL

Len	Type	Value	Name	Description
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	
0	BIT	10	VSWKBACKALL	Back according to the subpool table
0	BIT	01	VSWKBACKNONE	Back all pages
0	BIT	11	VSWKBACKRESV	Back no pages
0	BIT	00	VSWKFIXNO	Reserved
0	BIT	01	VSWKFIXSHORT	No fix
0	BIT	10	VSWKFIXLONG	Short term fix
0	BIT	11	VSWKFIXRESV	Long term fix

IGVVSMWK Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
VSMCPADR	0		VSWKCBDY	8F	80
VSMCPANC	0		VSWKCBDYSPECIFIED	8D	
VSMPCCNT	4		VSWKCELA	8F	02
VSMFCADR	8		VSWKCELL	34	
VSWK	0		VSWKCFLG	0	
VSWK_ALLOCSET	62	20	VSWKCHECKZERO	60	
VSWK_CSACV_SET	62	40	VSWKCKEY	1E	08
VSWK_CSARE_SET	62	80	VSWKCNTL	62	
VSWK_DETECT	31	40	VSWKCNXT	24	
VSWK_PROTECT	31	80	VSWKCOMA	0	
VSWK@PTR	64		VSWKCOMM	80	
VSWKABENDANTICIPATED	64		VSWKCOMS	0	
VSWKACDE	8A	20	VSWKCSATRACKING	0	
VSWKACTS	5C		VSWKCSIZ	63	08
VSWKADF	28		VSWKDEFERREL	70	
VSWKADL	8		VSWKDEFERRELA	62	01
VSWKALET	C		VSWKDETECTSUFFIX	62	02
VSWKALET	23	80	VSWKDETECTSUFFIXGQE@	98	
VSWKALLZERO	60	10	VSWKDETECTSUFFIXGQE@	94	
VSWKALST	10		VSWKDETECTSUFFIXISVALID	8A	08
VSWKANTICIPATEDABENDOCCURRED	70		VSWKDDE	0	
VSWKANTICIPATEDABENDRETRYADDR	8A	10	VSWKDDEQ	54	
VSWKANTICIPATEDABENDRETRYADDR	AC		VSWKDGET	8	
VSWKAQAT	4		VSWKDQE	60	01
VSWKAQTF	4C		VSWKEALL	48	
VSWKAQTI	50		VSWKELST	60	20
VSWKARSN	5E		VSWKENT	6C	
VSWKAR1VALUE	A0		VSWKESPL	61	40
VSWKAR15FLAGS	8F		VSWKEXPL	21	
VSWKAR15FLAGSEXT	8C		VSWKEXP	60	40
VSWKAR15USED	1E	20	VSWKEXSP	20	
VSWKAR15VALUE	8C		VSWKEXTRACKERCODE	62	10
VSWKA31	8A	80	VSWKEXTS	10	
VSWKA64	8A	40	VSWKFADR	11	
VSWKBACK	8F	0C	VSWKFAD0	10	
VSWKBACKNONESPECIFIED	8F	04	VSWKFAD1	10	
VSWKBNDY	8F	04	VSWKFA01	10	
VSWKAUBADDRSPACE	23	04	VSWKFBQE	40	

IGVVSMWK Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
VSWKFIX	8F	30	VSWKPOOL	0	
VSWKFMLS	63		VSWKPROC	60	
VSWKFRR	62		VSWKPSSZ	8	
VSWKFRRP	5C		VSWKQA	38	
VSWKFSIZ	C		VSWKQANC	0	
VSWKFSIZ_BIT0			VSWKRC	30	
	C	80	VSWKRCML	61	08
VSWKFSP	61	01	VSWKRCPU	63	10
VSWKGADR	24		VSWKRCUR	61	02
VSWKGAD0	24		VSWKRCVR	1F	80
VSWKGAD1	25		VSWKRCWK	78	
VSWGA01	24		VSWKRD	3C	
VSWGDA	50		VSWKREAL	23	40
VSWKGLBL	61	20	VSWKREQT	1F	08
VSWKGLSR	1F	40	VSWKRETA	74	
VSWKHDR	0		VSWKRETADDRHIGH		90
VSWKID	0		VSWKRETAHIGHBYTE		
VSWKINITIALFSIZ					74
	B0		VSWKRFIX	61	80
VSWKINITIALMAXS			VSWKRFLG	23	
	A8		VSWKRFLG2	1E	
VSWKEY	62	F0	VSWKRFRR	63	20
VSWKEY8	62	80	VSWKRLOC	61	
VSWKLARGEAGEDQEPTTR			VSWKRPAQ	61	10
	A4		VSWKRQST	4	
VSWKLARGEAGESOBTAINED			VSWKRQS2	64	
	8A	04	VSWKRSET	63	40
VSWKLARGEPAGE4KFSEQ			VSWKR31	23	40
	B4		VSWKR64	1E	10
VSWKLARGEPAGE4KFREE			VSWKSADR	4	
	8A	02	VSWKSASN	6E	
VSWKLDA	54		VSWKSAVE	7C	
VSWKLFQE	1F	01	VSWKSBDY	8E	
VSWKLIST	74		VSWKSBDYSPECIFIED		
VSWKLST	68			8F	01
VSWKLOC	61		VSWKSZIP	2C	
VSWKLST	61	04	VSWKSKEY	22	
VSWKMAIN	8		VSWKSKEYUSER	22	80
VSWKMAXA	58		VSWKSPKY	20	
VSWKMAXS	4		VSWKSPQE	44	
VSWKMAXS_BIT0			VSWKSPTT	14	
	4	80	VSWKSQAT	0	
VSWKMFBQ	1F	02	VSWKSQATTRACKING		
VSWKMFLG	1F			63	04
VSWKMFLG2	8A		VSWKSTAT	62	01
VSWKMINS	8		VSWKSTCK	140	
VSWKMINS_BIT0			VSWKSTOR	63	80
	8	80	VSWKSVC	60	
VSWKMKEY	5F		VSWKSZF	10	
VSWKMSPEC	1E	40	VSWKSZL	14	
VSWKNEWPG24	60	04	VSWKTCB	58	
VSWKNEWPG31	60	02	VSWKTCBS	1E	04
VSWKNOBK	1F	20	VSWKTOP	64	
VSWKOWNASID	88		VSWKTRACKING	63	
VSWKOWNER	1E	03	VSWKTYPE	23	01
VSWKOWNERASID			VSWKUNCD	23	02
	A2		VSWKUNUSABLE	63	08
VSWKOWNERASIDSPECIFIED			VSWKVABV	23	20
	8F	40	VSWKVAR	23	08
VSWKOWNINFO	60	08	VSWKVBLW	23	10
VSWKOWNJOBNAME			VSWKVIRT	23	30
	80		VSWKVLOC	61	
VSWKPAGEFRAMESIZE1MB			VSWKVSTORVSERRPTR		
	8C	40		7C	
VSWKPAGENUM	78		VSWKWEXP	1F	07
VSWKPCEL	10		VSWKWOGA	28	
VSWKPDFL	31		VSWK2FRR	1F	10
VSWKPFLG	61		VSWK45FL	68	
VSWKPG	60	80	VSWK45SP	69	
VSWKPID	0		VSWK45TR	68	
VSWPKPM	6C				
VSWKPMSASN	6C				
VSWKPNUM	C				
VSWKPNXT	4				

IHAARB Information

IHAARB Programming Interface information

Programming Interface information

IHAARB

End of Programming Interface information

IHAARB Heading Information • IHAARB Map

IHAARB Heading Information

Common Name: Associated Request Block Mapping
Macro ID: IHAARB
DSECT Name: ARB
Owning Component: SVC Dump (SCDM)
Eye-Catcher ID: NONE
Storage Attributes:
 Subpool: N/A
 Key: N/A
 Residency: N/A
Size: 4096 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 Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	ARB	, Associated Request Block (ARB)
0	(0)	CHARACTER	16	ARB_RANGEENTRY (0)	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 DWHRDUMPLISTLEN found in the dump header. The dump header is mapped by IHADWHDR
0	(0)	CHARACTER	16	ARB_RANGE (0)	A single range ...
0	(0)	BITSTRING	2	ARB_OBJECTTYPE	Dump Object Type
Comment					

The following field only apply if the ARB-OBJECT Type is equal to either KARB_Castout_Type, KARB_StorClass_Type, or KARB_ListNum_Type

					End of Comment
2	(2)	CHARACTER	1	ARB_RANGEFLAGS (0)	Reserved
	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 (0)	Range Information
	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	ARB_RANGESTART	Reserved
8	(8)	SIGNED	4	ARB_RANGEEND	Start of Range
12	(C)	SIGNED	4		End of Range

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
Constants for the Dumping Object Type					
12	(C)	BITSTRING	0	KARB_LOCKTABLE_TYPE	End of Comment
					"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_EMCTRL_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"

IHAARB Cross Reference

Name	Hex Offset	Hex Value
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_EMCTRL_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

IHAASSTE1 Information

IHAASSTE1 Heading Information

Common Name: ADDRESS SPACE SECOND TABLE ENTRY (ASTE)
Macro ID: IHAASSTE1
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.

IHAASSTE1 Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE ADDRESS	64	ASTE1	ADDRESS SPACE SECOND TABLE ENTRY.
0	(0)		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.
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

IHAASSTE1 Constants

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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	*	
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.
24	(18)	1... ADDRESS	4	ASTE1LTV ASTE1LFTD	LINKAGE TABLE VALID FLAG. IF 1, LT IS VALID, IF 0, LT IS INVALID. 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.
28	(1C)	1... ADDRESS	4	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.

IHAASSTE1 Constants

Len	Type	Value	Name	Description
				Comment
CONSTANTS FOR ASTE1DTYPE				
0	BIT	00	ASTE1DTYPE_ST	End of Comment 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
				Comment
CONSTANTS FOR ASTE1TYPE				
0	BIT	1000	ASTE1DS	End of Comment DATA SPACE ASTE1
0	BIT	0100	ASTE1SS	SUBSPACE ASTE1
0	BIT	0000	ASTE1AS	ADDRESS SPACE ASTE1
				Comment
Constants for ASTE1ATL				
2	HEX	FFF0	ASTE1ATLMASK	End of Comment Mask for obtaining ATL*16 from ASTE1ATL
2	HEX	0001	ASTE1ATLNONATLMASK	Mask for obtaining non-ATL bits used by MVS from ASTE1ATL

IHAASSTE1 Cross Reference

Name	Hex Offset	Hex Value
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

IHACDR Information

IHACDR Programming Interface information

Programming Interface information

IHACDR

End of Programming Interface information

IHACDR Heading Information • IHACDR Map

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 Map

Offsets

Dec	Hex	Type/Value	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

Comment

Values for CDRFLDID

End of Comment

....	CDRFUNUS	"B'00000000" Unused
.1...	CDRFSNEQ	"B'01000000" SNEQ
1...	CDRGNEQ	"B'10000000" GNEQ
11...	CDRFNED	"B'11000000" NED
1	(1)	X'20'
		0
		CDR_LEN
		"*-CDR"

Offsets

Dec	Hex	Type/Value	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	(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	GNEMIHP	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"

Offsets

Dec	Hex	Type/Value	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"

Offsets

Dec	Hex	Type/Value	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	NEDSRID (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

Comment

Values for NEDTYPE

30	(1E)	X'0'	0	NEDTUNSP	End of Comment
30	(1E)	X'1'	0	NEDTIODV	"0" Unspecified
30	(1E)	X'2'	0	NEDTCU	"1" I/O device

Comment

Values for NEDCLASS

30	(1E)	X'0'	0	NEDCUNSP	End of Comment
30	(1E)	X'1'	0	NEDCDASD	"0" Unspecified
30	(1E)	X'2'	0	NEDCTAPE	"1" DASD
30	(1E)	X'3'	0	NEDCURIN	"2" Magnetic tape
30	(1E)	X'4'	0	NEDCUROT	"3" Unit record (input)
30	(1E)	X'5'	0	NEDCPRT	"4" Unit record (output)
30	(1E)	X'6'	0	NEDCCOMM	"5" Printer
30	(1E)	X'7'	0	NEDCFST	"6" Communications controller
30	(1E)	X'8'	0	NEDCLMT	"7" Full screen terminal
30	(1E)	X'9'	0	NEDCCTCA	"8" Line mode terminal

IHACDR Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
30	(1E)	X'A'	0	NEDCSWIT	"10" Switch
30	(1E)	X'C'	0	NEDCCTRL	"12" Controller
Comment					
Values for GNEQFLDS					
30	(1E)	X'1'	0	GNEQUITME	"1" Device dependent time out value field offset
30	(1E)	X'20'	0	NED_LEN	"*-NED"
End of Comment					

IHACDR Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
CDR	0		SNEFLAGS	0	
CDR_LEN	1	20	SNEFLDID	0	C0
CDRFGNEQ	1	80	SNEQ	0	
CDRFIELD	0		SNEQ_LEN	8	20
CDRFINFO	0		SNEXINFO	8	
CDRFLAGS	0				
CDRFLDID	0	C0			
CDRFNED	1	C0			
CDRFSNEQ	1	40			
CDRFUNUS	1	0			
GNEDDTO	4				
GNEFLAGS	0				
GNEFLDID	0	C0			
GNEINTID	2				
GNEMIHPT	6				
GNEMIHST	7				
GNEQ	0				
GNEQ_LEN	20	20			
GNEQFLDS	8				
GNEQUITME	1E	1			
GNERS	1				
GNEXINFO	8				
NED	0				
NED_LEN	1E	20			
NEDCCCOMM	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			
NEDCUROT	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				
NEDSNIND	0	10			
NEDSRVID	4				
NEDSUBSN	0	8			
NEDTAG	1E				
NEDTCU	1E	2			
NEDTIODV	1E	1			
NEDTOKEN	0	20			
NEDTUNSP	1E	0			
NEDTYPE	1				
NEDTYPEN	4				

IHADPL Information

IHADPL Heading Information

Common Name: SVC DUMP PACKING LIST
Macro ID: IHADPL
DSECT Name: DPL
Owning Component: SVC Dump (SCDMP)
Eye-Catcher ID:
 Offset: 0
 Length: 4
Storage Attributes:
 Subpool: 245 (common) or 225 (private)
 Key: 0
 Residency: Above 16M, fixed common
Size: 2920 bytes
Created by: IEAVTSIDI, IEAVTSDS
Pointed to by:
 Reg 1 on entry to IEAVTDWT
 RTCTDPLF, RTCTDPLB (common DPL queue)
 RTSDDPPF, 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 Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	2920	DPL	SVC DUMP PACKING LIST
0	(0)	CHARACTER	4	DPLID	DPL ACRONYM
Comment					

----- 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.

End of Comment					
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	DPLHDDR	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.
28	(1C)	CHARACTER	1	DPLNOTCOPYFLAGS	Flags
				DPLSYSTEM	If on, this is the single system DPL
				DPLDUMMY	If on, this is a private DPL which is waiting for the system DPL to be copied into it.
				DPLINPRIVATE	If on, this is a private DPL
				DPLEXITINHIGHVIRTUAL	If on, the dump is capturing exit data into dumpsrv high virtual (ME04648)
				*	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	ARRAY OF THE ADDRESS AND SIZE OF EACH DATA SECTION (4294967311:562119240)
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

IHADPL Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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	DPLCOMM	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	LOCAL STORAGE DATA SPACE INFORMATION (4294967311:562121984)
224	(E0)	CHARACTER	8	DPLPTABS	STOKEN OF LOCAL DATA SPACE
232	(E8)	SIGNED	4	DPLPDNXN	NUMBER OF DRPX DATA SECTIONS
236	(EC)	ADDRESS	4	DPLPDXP	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
	..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
	....1	....		DPLTSOXT	DPLSRBAD ~= 0
	....1	....		DPLTPFRC	IF ON - TSO USER EXTENSION PRESENT
	....1	....		DPLLFDSF	IF ON - FAILRC SPECIFIED
	....1	....		DPLSDUNL	IF ON - LOOKING FOR A DATASET
	....1	....		DPLROCDN	IF ON - DCB processing unlocked SDUMP
	....1	....		DPLDWTCI	IF ON - RO Common and DATOFF NUC tables initialized
467	(1D3)	1....		DPLREMOT	IF ON - Indicates DWT was called for DCB case
	.1..	....		DPLRMREQ	This is a remote dump
	.1.	....		DPLGETSDDIE	Remote dumps requested
	....1	....		*	Serialization bit for
	....1	....		*	Reserved
	....1	....		DPLSFFIXED	SFDPL is page fixed
	....1	....		*	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	DPLDMPTN	BITS 7-30 FROM THE TIME OF DUMP
483	(1E3)	BITSTRING	1	DPLDMPSN	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	DPRRETURN	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
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	DPLFDECBI	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	ADDRESS SPACE IDS THAT ARE BEING DUMPED (4294967311:562114560)
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	DPLASCBI	Copy of RtsdAscb
620	(26C)	CHARACTER	4	*	
624	(270)	CHARACTER	106	DPLDSPD	Copy of DSPD pointed to by SddDSPD
730	(2DA)	CHARACTER	6	*	Reserved

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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 IEECB926 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
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	DPLBUFR0	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 (4294967396:562140888)	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	DPLDSPEXTDPRXCONT	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
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	*	Reserved
2920	(B68)	CHARACTER	0	*	Reserved

IHADPL Constants • IHADPL Cross Reference

IHADPL Constants

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	

IHADPL Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
DPL	0		DPLDWTCL	1D3	80
DPLASCB	268		DPLEBUFF	C0	
DPLASMS	237	80	DPLECB	1D2	20
DPLASNCMFID	354		DPLECBAD	1D8	
DPLASYNCTOKEN	358		DPLENSUM	1D2	80
DPLAVOL	237	40	DPLEWRKP	C4	
DPLBUFNB	330		DPLEXITD	B8	
DPLBUFR0	328		DPLEXITINHIGHVIRTUAL	1C	10
DPLBUFRS	320		DPLEXITT	236	
DPLBWDPT	8		DPLFDECB	23C	
DPLCAPT	304	40	DPLFIRSTNOTCOPY	4	
DPLCAPTP	304	20	DPLFLAGS	1D2	
DPLCASID	234		DPLFLGS2	237	
DPLCDCN	D4		DPLFLGWD	1D0	
DPLCDPXN	D8		DPLFWDPT	4	
DPLCDPXP	DC		DPLGETSDIE	1D3	10
DPLCDSP	C8		DPLHAID	262	
DPLCID	201		DPLHASHO	31C	
DPLCIDD	200		DPLHASHS	314	
DPLCIDL	200		DPLHDDRP	10	
DPLCOMM	C8		DPLHSHNB	32C	
DPLCROTB	D0		DPLID	0	
DPLCSTOK	2E0		DPLINPRIVATE	1C	20
DPLDCBAD	1DC		DPLINTKN	334	
DPLDDSN	30		DPLITPLEXNAME		
DPLDIDCO	240		DPLITSYSNAME	344	
DPLDMPI#	2EC		DPLITTIMESTAMP	334	
DPLDMPID	1E0		DPLJOBNM	33C	
DPLDMPSN	1E3		DPLLASTNOTCOPY	2FC	
DPLDMPTN	1E0			30	
DPLDSPD	270		DPLLFDASF	1D2	04
DPLDSPEXTASID	398		DPLLOCALDSPEXTTABLE		
DPLDSPEXTCSWORD	384		DPLLOCALDSPEXTTABLEINFO	388	
DPLDSPEXTDPRXCNT	390		DPLLOCNMR	1D0	
DPLDSPEXTDPRXFIRST	394		DPLNOTCOPYFLAGS	1C	
DPLDSPEXTINFOA	388		DPLPDPXN	E8	
DPLDSPEXTINFOB	398		DPLPDPXP	EC	
DPLDSPEXTNEXTINDEX	384		DPLPRIVATEPDPL@		
DPLDSPEXTRELATED	39A		DPLPRIVATEPDPLAREA@	2E8	
DPLDSPEXTSTOKEN	388		DPLPTABL	E0	
DPLDSPEXTTOKEN	374		DPLPTABS	E0	
DPLDSQCU	238		DPLREMOT	1D3	40
DPLDSTKN	B8		DPLRMREQ	1D3	20
DPLDUMMY	1C	40	DPLROCDN	1D2	01
DPLDUMPSRVALET	2F0		DPLSDAS	244	
DPLDWSFD	310		DPLSDATP	40	
DPLDWT	264		DPLSDATT	40	
			DPLSDDIE	368	
			DPLSDEP	1D2	40
			DPLSDNA	243	

Name	Hex Offset	Hex Value
DPLSDNUM	3C	
DPLSDRSN	1E8	
DPLSDSIZ	44	
DPLSDSP	34	
DPLSDUNL	1D2	02
DPLSES	304	
DPLSESF	304	
DPLSFDPPL	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	

IHADWHDR Information

IHADWHDR Programming Interface information

Programming Interface information

IHADWHDR

End of Programming Interface information

IHADWHDR Heading Information • IHADWHDR Map

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 Map

Offsets					
Dec	Hex	Type/Value	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	Dumping status
				(0)	
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.
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	Dumping-tailoring options
				(0)	
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	DWHDREXTSTRCONTROLS	Extended Structure Controls
2048	(800)	CHARACTER	512	DWHDRSCC	Structure Copy Controls
2560	(A00)	CHARACTER	60	DWHDRDUPLEXINGCONTROLS	

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
2620 4096	(A3C) (1000)	CHARACTER CHARACTER	1476 4096	DWHDRASSOCREQBLK	Duplexing Controls Reserved
4096	(1000)	X'2000'	0	DWHDR_LEN	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 "-DWHDR"

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	DWHDRDUMPCNTLSMAP	Mapping for dumping controls
0	(0)	CHARACTER	128	DWHDRDUMPINFO	Dumping Information
128 256	(80) (100)	CHARACTER CHARACTER	128 16	DWHDRDUMPAUTH	Reserved
272 288	(110) (120)	CHARACTER SIGNED	16 4	DWHDRDUMPSER DWHDRDUMPTBLSIZE	Dumping authority. Zero => dumping controls available Nonzero => dumping controls in use
292 293	(124) (125)	CHARACTER CHARACTER 1...	1 1	DWHDRSTRTYPE DWHDRFLAGS (0) DWHDRINITCOMP	Dumping serialization. Nonzero => Dumping serialization held on the structure
		.1...		DWHDRRELEASEINPROG	Dump-table size. Number of 4096-byte units of CF storage assigned to the dump table.
					"X'80'" Initialization complete indicator
					"X'40'" Release in progress indicator
294	(126)	CHARACTER	218		Reserved

Comment

Capture Complete Constants

....	DWHDRCAPCMPCIP	End of Comment
.... ...1	DWHDRCAPCMPOK	"X'00'" Capture is in progress
.... ..1.	DWHDRCAPCMPTABFULL	"X'01'" Normal completion
.... ..11	DWHDRCAPCMPSERREL	"X'02'" Dump table is full
294 (126) X'200'	DWHDRDUMPCNTLSMAP_LEN	"X'03'" Dump serialization was released
		"-DWHDRDUMPCNTLSMAP"

IHADWHDR Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
DWHDR	0				
DWHDR_LEN	1000	2000	DWHDRDUMPCNTLSMAP	503	
DWHDRASSOCREQBLK	1000		DWHDRDUMPCNTLSMAP_LEN	0	
DWHDRCAPCMPCIP	126	0	DWHDRDUMPCONTROLS	126	200
DWHDRCAPCMPOK	126	1	DWHDRDUMPINFO	200	
DWHDRCAPCMPSERREL	126	3	DWHDRDUMPLISTLEN	0	
DWHDRCAPCMPTABFULL	126	2	DWHDRDUMPSER	500	
DWHDRCAPCOMPCODE	400		DWHDRDUMPSTATUS	110	
DWHDRDUMPAUTH	100		DWHDRDUMPTBLSIZE	400	
DWHDRCUMPCACHEID	100		DWHDRCUMPTLROPT	120	

IHADWHDR Cross Reference

Name	Hex Offset	Hex Value
	500	
DWHDHDRDUPLEXINGCONTROLS	A00	
DWHDREXTSTRCONTROLS	600	
DWHDRFLAGS	125	
DWHDHRINITCOMP		
DWHDRLASTDIBCT	125	80
DWHDRLASTDTEN	40C	
DWHDRLASTELEMCT	414	
DWHDRLASTOBJID	410	
DWHDRLASTOBJTYPE	408	
DWHDRLASTRANGE	402	
DWHDRRLEASEINPROG	404	
DWHDRSCC	125	40
DWHDSTRCONTROLS	800	
DWHDSTRTYPE	0	
	124	

IHADWOBH Information

IHADWOBH Programming Interface information

Programming Interface information

IHADWOBH

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

- DWOBHDIBCT
- DWOBHDIBLISTSIZE
- DWOBHDIBSIZE

End of Programming Interface information

IHADWOBH Heading Information • IHADWOBH Map

IHADWOBH Heading Information

Common Name: Dump Writing Object Header
Macro ID: IHADWOBH
DSECT Name: DWOBH_DWOBJHDRDATAMAP
Owning Component: SVC Dump (SCDMP)
Eye-Catcher ID: NONE
Storage Attributes:
 Subpool: N/A
 Key: N/A
 Residency: N/A
Size:
 DWOBH -- X'1000' bytes
 DWOBJHDRDATAMAP -- X'0006' bytes
Created by: N/A
Pointed to by: N/A
Serialization: None required
Function: Provides a map of the Object Header.

IHADWOBH Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	DWOBH	, Mapping for Object Header
0	(0)	CHARACTER	20	DWOBJINFO (0)	Object information
0	(0)	SIGNED	2	DWOBDUMPOBJTYPE	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 Reserved
3	(3)	CHARACTER	1		
4	(4)	SIGNED	4	DWOBJOBJID	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	DWOBDIBCT	DIB count. Number of dumping- information blocks stored in the dump table for the object
12	(C)	SIGNED	4	DWOBDIBSIZE	DIB size
16	(10)	SIGNED	4	DWOBDIBLISTSIZE	DIB list size. Number of dump-table entries that contain the DIB list for the object.
20	(14)	CHARACTER	108	DWOBJHDRDATA	Data relating to the object header - Use the DWOBJHDRDATAMAP 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"

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	DWOBJHDRDATAMAP	, Mapping for data relating to the Object Header
0	(0)	ADDRESS	4	(0)	
0	(0)	ADDRESS	4	DWOBJHDRDATAENTRYCNTL PTR (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	DWOBJHDRDATALOCKPTR (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
0	(0)	ADDRESS	4	DWOBJHDRDATAUSERPTR (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	DWOBJHDRDATAEMCPTR (0)	

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	ADDRESS	4	DWOBJHDRDATAEVENTQPTR	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
4	(4)	CHARACTER	2	(0)	Pointer to the object's event queue data in the event queue compdata space.
4	(4)	CHARACTER	2	DWOBJHDRDATAENTRYCNTLNUM (0)	This pointer name should be used for list event queue type only
4	(4)	CHARACTER	2	DWOBJHDRDATALOCKNUM (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	DWOBJHDRDATAUSERNUM (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	DWOBJHDRDATAEMCNUM (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	DWOBJHDRDATAEVENTQNUM	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	DWOBJHDRDATAEVENTQPTR	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	DWOBJHDRDATAMAP_LEN "**DWOBJHDRDATAMAP"	

IHADWOBH Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
DWOBH	0		DWOBJID	4	
DWOBH_LEN	1000	1000	DWOBJINFO	0	
DWOHCAPTCOMPIND	2	80			
DWOBDIBCT	8				
DWOBDIBLISTSIZE	10				
DWOBDIBSIZE	C				
DWOBDUMPOBJTYPE	0				
DWOBHFLAGS	2				
DWOBHMAXPOSSIBLEOBJCONTROLS	80				
DWOBJHDRDATA	14				
DWOBJHDRDATAEMCNUM	4				
DWOBJHDRDATAEMCPTR	0				
DWOBJHDRDATAENTRYCNTLNUM	4				
DWOBJHDRDATAENTRYCNTLPTR	0				
DWOBJHDRDATAEVENTQNUM	4				
DWOBJHDRDATAEVENTQPTR	0				
DWOBJHDRDATALOCKNUM	4				
DWOBJHDRDATALOCKPTR	0				
DWOBJHDRDATAMAP	0				
DWOBJHDRDATAMAP_LEN	4	6			
DWOBJHDRDATAUSERNUM	4				
DWOBJHDRDATAUSERPTR	0				

IHAETE1 Information

IHAETE1 Heading Information

Common Name: Entry Table Entry for ESAME
Macro ID: IHAETE1
DSECT Name: ETE1
Owning 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 Map

Offsets					
Dec	Hex	Type/Value	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	ETE1ABYTE	BYTE TO ACCESS ETE1AMODE
		1...		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	1	ETE1PBYTE	BYTE TO ACCESS ETE1PS
		1111 111.		*	NOT REFERENCEABLE
		.... ...1		ETE1PS	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
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.		*	PSW KEY CONTROL: 0: NO CHANGE 1: SET PSW KEY FROM ETE1EK PSW KEY MASK CONTROL: 0: OR ETE1EKM INTO PKM. 1: COPY ETE1EKM TO PKM
		...1.		ETE1PKC	EAX CONTROL: 0: NO CHANGE. 1: REPLACE FROM ETE1EAX.
		.... 1...		ETE1PKMK	ADDRESS SPACE CONTROL: 0: PRIMARY MODE. 1: AR MODE. SASN CONTROL: 0: SET TO OLD PASN. 1: SET TO NEW PASN.
		.... .1..		ETE1EAXC	ENTRY KEY. (HIGH 4 BITS)
		.... ..1.		ETE1ASC	MAS EXTENDED AUTHORITY INDEX
		.... ...1		ETE1SASNC	REAL ADDRESS OF THE ASTE IF SPACE SWITCH
17	(11)	CHARACTER	1	ETE1EK	ADDRESS OF THE LATENT PARAMETER PASSED TO THE CALLED RTN
18	(12)	UNSIGNED	2	ETE1EAX	High half of parameter
20	(14)	ADDRESS	4	ETE1ASTE	Low half of parameter
24	(18)	CHARACTER	8	ETE1PARM	END OF ETE1
24	(18)	ADDRESS	4	ETE1PARMH	
28	(1C)	ADDRESS	4	ETE1PARML	
32	(20)	CHARACTER	0	ETE1END	

IHAETE1 Cross Reference

IHAETE1 Cross Reference

Name	Hex Offset	Hex Value
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	
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

IHAETRI Information

IHAETRI Programming Interface information

Programming Interface information

IHAETRI

End of Programming Interface information

IHAETRI Heading Information • IHAETRI Map

IHAETRI Heading Information

Common Name: ETR Status Information Mapping
Macro ID: IHAETRI
DSECT Name: ETRI
Owning 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 Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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	ETRINOTINSTALLED	
	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	
	....	1...		ETRISIDE	"X'10" ETR is not installed on this machine.
	....	.1..		ETRITUNED	"X'08" Active machine side if in ETR mode.
	....	..1.		ETRIREQSTD	"X'04" The active port is tuned.
	....	...1.		ETRICPLD	"X'02" The use of the ETR was requested.
	....	....1			"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.
10	(A)	BITSTRING	2		Reserved.
12	(C)	CHARACTER	4	ETRIPORT0 (0)	Status for CPC port 0.
12	(C)	BITSTRING	1	ETRIP0FLAGS	
	1...	....		ETRIP0OPER	"X'80" This port is operational.
	.1..	....		ETRIP0ENABLED	
		..1.		ETRIP0ACTIVE	"X'40" This port is enabled.
		....1		ETRIP0DATA	"X'20" This port is the active port.
13	(D)	BITSTRING	1	ETRIPONETID	"X'10" The ID data is valid.
14	(E)	BITSTRING	1	ETRIP0ETRID	ETR Net ID to which this port is connected.
15	(F)	BITSTRING	1	ETRIP0PORTNO	9037 ID to which this port is connected.
16	(10)	CHARACTER	4	ETRIPORT1 (0)	ETR port number to which this port is connected.
16	(10)	BITSTRING	1	ETRIP1FLAGS	Status for CPC port 1.
	1...	....		ETRIP1OPER	"X'80" This port is operational.
	.1..	....		ETRIP1ENABLED	
		..1.		ETRIP1ACTIVE	"X'40" This port is enabled.
		....1		ETRIP1DATA	"X'20" This port is the active port.
17	(11)	BITSTRING	1	ETRIP1NETID	"X'10" The ID data is valid.
18	(12)	BITSTRING	1	ETRIP1ETRID	ETR Net ID to which this port is connected.
19	(13)	BITSTRING	1	ETRIP1PORTNO	9037 ID to which this port is connected.
20	(14)	CHARACTER	4		ETR port number to which this port is connected.
					Reserved.

IHAETRI Cross Reference

Name	Hex Offset	Hex Value
ETRI	0	
ETRICPLD	8	1
ETRIDATA	0	
ETRIETR	8	80
ETRIIMAGE	8	
ETRILOCAL	8	40
ETRINOTINSTALLED	8	10
ETRIPORT0	C	
ETRIPORT1	10	
ETRIP0ACTIVE	C	20
ETRIP0DATA	C	10
ETRIP0ENABLED	C	40
ETRIP0ETRID	E	
ETRIP0FLAGS	C	
ETRIP0NETID	D	
ETRIP0OPER	C	80
ETRIP0PORTNO	F	
ETRIP1ACTIVE	10	20
ETRIP1DATA	10	10
ETRIP1ENABLED	10	40
ETRIP1ETRID	12	
ETRIP1FLAGS	10	
ETRIP1NETID	11	
ETRIP1OPER	10	80
ETRIP1PORTNO	13	
ETRIREQSTD	8	2
ETRISIDE	8	8
ETRISIMETR	8	20
ETRISIMETRID	9	
ETRITIMEH	0	
ETRITIMEL	4	
ETRITMSTMP	0	
ETRITUNED	8	4

IHAFETWK Information

IHAFETWK Heading Information

Common Name: Fetch work area definition
Macro ID: IHAFETWK
DSECT Name: FTWKAREA
Owning 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 Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	1540	FTWKAREA	
0	(0)	CHARACTER	1424	FETCHWA	
0	(0)	CHARACTER	768	FTCLEAR	AREA CLEARED TO HEX ZEROS

Comment

CONTENTS SUPERVISOR'S WORK AREA

End of Comment

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	
	..... 1111			*	64-bit WKIOADDR
1438	(59E)	BITSTRING	1	WKFLG2	X'59E' FLAG BYTE 3
	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			WKLNLKLIB	DCB IS FOR THE LINK LIBRARY
1439	(59F)	BITSTRING	1	WKFLG3	X'59F'
1440	(5A0)	CHARACTER	16	*	X'5A0'
1440	(5A0)	SIGNED	4	WKREGIS	X'5A0' USED TO SAVE REGS ACROSS BLDL (4294967300:562122856)
1440	(5A0)	ADDRESS	8	WKIOADDR64	X'5A0' 8-byte address
1440	(5A0)	CHARACTER	8	WKIOADDR64C	X'5A0' 8-byte address
1456	(5B0)	ADDRESS	4	WKTCBSE	X'5B0' ADDRESS OF TCB CONTAINING LAST DCB
1460	(5B4)	ADDRESS	4	WKDCBSE	X'5B4' ADDRESS OF LAST DCB SEARCH ARGUMENT

Comment

BLDL ENTRY

End of Comment

IHAFETWK Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
1464	(5B8)	CHARACTER	76	WKBLEDE	X'5B8'
1464	(5B8)	SIGNED	4	WKPREFX	X'5B8' BLDL PREFIX
1468	(5BC)	CHARACTER	72	WKPDSDE	X'5BC' BLDL DIR ENTRY
Comment					

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

End of Comment

1468	(5BC)	CHARACTER	8	WKNAME	X'5BC' MODULE NAME
1476	(5C4)	CHARACTER	4	WKTTRK	X'5C4' TRACK AND RECORD NUMBER
1476	(5C4)	UNSIGNED	2	WKT	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' LENGTH OF MODULE
1495	(5D7)	SIGNED	2	WKLNTHF	X'5D7' LENGTH OF FIRST TEXT RECORD
1497	(5D9)	ADDRESS	3	WKENPT	X'5D9' ENTRY POINT ADDRESS
1500	(5DC)	ADDRESS	3	WKTTRG	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

Offsets

Dec	Hex	Type/Value	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	*	
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

Offsets

Dec	Hex	Type/Value	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'

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
1503	(5DF)	STRUCTURE	37	WKSCATER	X'5DF'
1503	(5DF)	CHARACTER	8	WKSCATR	X'5DF'
Comment					

DEFINE ENTRIES FOR SCATTER, ALIAS

End of Comment

1511	(5E7)	ADDRESS	3	WKENSC	X'5E7'
1514	(5EA)	CHARACTER	8	WKNMSC	X'5EA'
1522	(5F2)	CHARACTER	6	*	
1528	(5F8)	ADDRESS	4	WKMINEP	X'5F8'

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
1532	(5FC)	CHARACTER	8	WMAINAM	X'5FC'

IHAFETWK Constants

Len	Type	Value	Name	Description
4	CHARACTER	FT16	FTB16IDC	Eye catcher constant

Comment

RETURN CODES FROM IEWFETCH, PASSED TO CALLER IN REG 15

			End of Comment	
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

Comment

REASON CODES FOR LRA FAILURES

		End of Comment	
		Comment	

EXPLANATION OF RCLRAERR:

		End of Comment		
1	DECIMAL	1	RCLRA01	X'01'
1	DECIMAL	2	RCLRA02	X'02'
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'

Comment

REASON CODES FROM IEWFETCH, PASSED TO CALLER IN REG 0

		End of Comment	
		Comment	

EXPLANATION OF RCNOSTOR:

		End of Comment		
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	RSNFIX	X'18' - UNABLE TO FIX STORAGE

IHAFETWK Cross Reference

Len	Type	Value	Name	Description
Comment				

EXPLANATION OF RCBADADR:

				End of Comment
1	DECIMAL	32	RSNTTR	X'20' - ERROR CONVERTING TTR
1	DECIMAL	36	RSNBOM	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

Comment

EXPLANATION OF RCIOERR::

				End of Comment
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	RSPNPDSE	X'50' - DATA SET IS A PDSE

IHAFETWK Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
FETCHWA	0		WKNAME	5BC	
FTBELOW16M	0		WKNAMSC	5EA	
FTB16BACK	2C		WKPDSDE	5BC	
FTB16ID	28		WKPREFIX	5B8	
FTCLEAR	0		WKR	5C6	
FTDCBDEB	64		WKREGIS	5A0	
FTIOB	0		WKSCATER	5DF	
FTIOBCCHHR	23		WKSCATR	5DF	
FTIOBE	30		WKSVC LIB	59E	02
FTIOBSEEK	20		WKSYSDCB	59D	20
FTVIODEB	68		WKSYSREQ	59D	40
FTVIOECB	60		WKTCBSE	5B0	
FTVIOECBYT	60		WKT T	5C4	
FTVIOECPOST	60	40	WKT TESD	5CA	
FTWKAREA	0		WKT TRK	5C4	
WKALIAS	5DF		WKT XTRG	5DC	
WKAPFSSI	5DF		WKUSR LIB	59E	08
WKATTR	5D2		WKZBYTE	5C8	
WKAUTH	59D	80			
WKBLCDE	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				
WKLNLKLIB	59E	01			
WKLNT H	5D4				
WKLNT HF	5D7				
WKLNT HM	5D4				
WKM AINAM	5FC				
WKM AINEP	5F8				
WKNAMBK	5E2				

IHAFPC Information

IHAFPC Programming Interface information

Programming Interface information

IHAFPC

End of Programming Interface information

IHAFPC Heading Information • IHAFPC Cross Reference

IHAFPC Heading Information

Common Name: FLOWING POINT CONTROL REGISTER
Macro ID: IHAFPC
DSECT Name: FPC
Owning 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 Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	FPC	FLOWING 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
		.....1..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 Cross Reference

Name	Hex Offset	Hex Value
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

IHAFPRET Information

IHAFPRET Programming Interface information

Programming Interface information

IHAFPRET

End of Programming Interface information

IHAFPRET Heading Information • IHAFPRET Map

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 Map

Offsets							
Dec	Hex	Type/Value	Len	Name (Dim)	Description		
0	(0)	STRUCTURE	0				
0	(0)	BITSTRING	0	IEAFPRSNCODEMASK	"X'0000FFFF" Use this mask to isolate the non component-diagnostic portion of the reason code.		
Comment							
IEAFP Return and Reason Code definitions							
End of Comment							
<table border="0"> <tr> <td style="vertical-align: top;"> 1... </td> <td style="vertical-align: top; padding-left: 20px;"> IEAFPRC_OK IEAFPRC_INVPARM </td> <td style="vertical-align: top; padding-left: 20px;"> "X'00000000" Meaning: IEAFP request successful. Action: None required. "X'00000008" Meaning: IEAFP request specifies parameters that are not valid. Action: Refer to the action provided with the specific reason code. </td> </tr> </table>				 1...	IEAFPRC_OK IEAFPRC_INVPARM	"X'00000000" Meaning: IEAFP request successful. Action: None required. "X'00000008" Meaning: IEAFP request specifies parameters that are not valid. Action: Refer to the action provided with the specific reason code.
.... 1...	IEAFPRC_OK IEAFPRC_INVPARM	"X'00000000" Meaning: IEAFP request successful. Action: None required. "X'00000008" Meaning: IEAFP request specifies parameters that are not valid. Action: Refer to the action provided with the specific reason code.					
<table border="0"> <tr> <td style="vertical-align: top;"> 0 (0) BITSTRING </td> <td style="vertical-align: top; padding-left: 20px;"> IEAFPRSNBADFUNCTION </td> <td style="vertical-align: top; padding-left: 20px;"> "X'00000801" Meaning: Incorrect value passed to target routine. Action: Check for possible storage overlay. </td> </tr> </table>					0 (0) BITSTRING	IEAFPRSNBADFUNCTION	"X'00000801" Meaning: Incorrect value passed to target routine. Action: Check for possible storage overlay.
0 (0) BITSTRING	IEAFPRSNBADFUNCTION	"X'00000801" Meaning: Incorrect value passed to target routine. Action: Check for possible storage overlay.					
<table border="0"> <tr> <td style="vertical-align: top;"> 0 (0) BITSTRING </td> <td style="vertical-align: top; padding-left: 20px;"> IEAFPRC_ENV </td> <td style="vertical-align: top; padding-left: 20px;"> "X'0000000C" Meaning: Environmental error Action: Refer to the action provided with the specific reason code. </td> </tr> </table>					0 (0) BITSTRING	IEAFPRC_ENV	"X'0000000C" Meaning: Environmental error Action: Refer to the action provided with the specific reason code.
0 (0) BITSTRING	IEAFPRC_ENV	"X'0000000C" Meaning: Environmental error Action: Refer to the action provided with the specific reason code.					
<table border="0"> <tr> <td style="vertical-align: top;"> 0 (0) BITSTRING </td> <td style="vertical-align: top; padding-left: 20px;"> IEAFPRSNFROMASYNCEXIT </td> <td style="vertical-align: top; padding-left: 20px;"> "X'00000C01" Meaning: IEAFP was issued from an asynchronous exit routine. Action: Avoid issuing IEAFP from an asynchronous exit routine. </td> </tr> </table>					0 (0) BITSTRING	IEAFPRSNFROMASYNCEXIT	"X'00000C01" Meaning: IEAFP was issued from an asynchronous exit routine. Action: Avoid issuing IEAFP from an asynchronous exit routine.
0 (0) BITSTRING	IEAFPRSNFROMASYNCEXIT	"X'00000C01" Meaning: IEAFP was issued from an asynchronous exit routine. Action: Avoid issuing IEAFP from an asynchronous exit routine.					

IHAFRRSO Information

IHAFRRSO Heading Information

Common Name: OLD IHAFRRS
Macro ID: IHAFRRSO
DSECT Name: FRRSO, FRRSOXSTK, FRRSOENTR, FRRSOXENT
Owning Component: RECOVERY TERMINATION MANAGER (SCRTM)
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)
PSARSAV (CURRENT FRR STACK AT TIME OF RESTART INTERRUPT)
PSATSTK (RECOVERY TERMINATION MANAGER FRR STACK)
PSATSATV (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 Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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
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	RECUSION 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

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	32	FRRSOENTR	THE MAPPING OF A FRR ENTRY
0	(0)	ADDRESS	4	FRRSOFRRA	THE ADDRESS OF THE FRR
0	(0)	CHARACTER	3	*	

IHAFRRSO Constants • IHAFRRSO Cross Reference

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
3	(3)	CHARACTER 1111 111. ..... .1.	1	FRRSOFRA1 *	LOW ORDER BYTE
				FRRSOXFLG	FLAG INDICATING FRRSOFGLGS INITIALIZED WHEN SETFRR WAS ISSUED
4	(4)	CHARACTER	4	FRRSOFLGS	FLAGS USED BY RTM DURING FRR PROCESSING
4	(4)	CHARACTER 1...	1	FRRSOFLG1 FRRSORCUR	RECUSION USED BY RTM
				FRRSONEST	RECUSION FLAG USED WHEN GIVING CONTROL TO FRR AND WHEN RECEIVING CONTROL BACK FROM FRR
				FRRSONLCL	FLAG INDICATING A NESTED FRR ENTRY
				FRRSONGLB	FLAG INDICATING THAT NESTED FRR IS A MODE=LOCAL FRR
				FRRSONRTY	FLAG INDICATING THAT NESTED FRR IS A MODE=GLOBAL FRR
				FRRSOASC	FRR RETRY INDICATOR. IF ON, FRR CANNOT RETRY.
5	(5)	CHARACTER	1	FRRSOFLG2	RESERVED
6	(6)	CHARACTER 1111 11.. .... ..11	1	FRRSOFLG3 *	RESULT OF IAC INSTRUCTION FROM TIME OF SETFRR
7	(7)	CHARACTER 1... .... .1... .... .11 1... .... .1.. .... ..1. .... .1.	1	FRRSOFLG4 FRRSOEUT FRRSONCNL *	ASC FLAGS FLAGS TO INDICATE OPTIONS CHOSEN WHEN THE SETFRR WAS ISSUED ENABLED UNLOCKED TASK FRR (EUT=YES ON SETFRR) CANCEL=NO FRR, PROTECTED FROM CANCELS, DETACHES RESERVED
				FRRSOFULL	MODE=FULLXM WAS SPEC ON THE SETFRR
				FRRSOPRIM	MODE=PRIMARY WAS SPEC ON THE SETFRR
				FRRSOLCL	MODE=LOCAL WAS SPEC ON THE SETFRR
				FRRSOGLB	MODE=GLOBAL WAS SPEC ON THE SETFRR
8	(8)	CHARACTER	24	FRRSOPARM	PARAMETER AREA PASSED TO FRR

Offsets

Dec	Hex	Type/Value	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	FRROLs	LINKAGE STACK AT SETFRR

IHAFRRSO Constants

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

IHAFRRSO Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
FRROEAX	8		FRRSOFLG4	7	
FRROLs	C		FRRSOFRA1	3	
FRRSO	0		FRRSOFRRA	0	
FRRSOASA	40		FRRSOFULL	7	08
FRRSOASC	6	03	FRRSOGLB	7	01
FRRSOAX	4		FRRSOHEAD	0	
FRRSOCR3	0		FRRSOKM	0	
FRRSOCR4	4		FRRSOLAST	4	
FRRSOCURR	C		FRRSOLCL	7	02
FRRSOELEN	8		FRRSONCNL	7	40
FRRSOEMP	0		FRRSOND	0	
FRRSOENTL	2C		FRRSONEST	4	40
FRRSOENTR	0		FRRSONGLB	4	10
FRRSOENTS	58		FRRSONLCL	4	20
FRRSOEUT	7	80	FRRSONRTY	4	08
FRRSOEXTL	2E		FRRSOPARM	8	
FRRSOFLGS	4		FRRSOPAS	6	
FRRSOFLG1	4		FRRSOPRIM	7	04
FRRSOFLG2	5		FRRSORCUR	4	80
FRRSOFLG3	6		FRRSORSA	10	

Name	Hex Offset	Hex Value
FRRSORTMA	38	
FRRSORTMW	28	
FRRSOSAS	2	
FRRSOXENT	0	
FRRSOXFLG	3	01
FRRSOXM	0	
FRRSOXSTA	3C	

IHAFSD Information

IHAFSD Programming Interface information

Programming Interface information

IHAFSD

End of Programming Interface information

IHAFSD Heading Information • IHAFSD Map

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
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
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

|FsdHeader |
|FsdID |
|FsdVers |
|FsdSubp |
|FsdAreaSize |
|FsdTimeStamp |
|FsdDevn |
|FsdFlags |
|FsdOffsetOfMIR |
|FsdStartOfMIR |
|MIR |
MIR

MHR
MPIR for some port

SCR for some counter for this port

SCR for some counter for this port

MPIR for some port

SCR for some counter for this port

SCR for some counter for this port

IHAFSD Map

Offsets

Dec	Hex	Type/Value	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

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
32	(20)	CHARACTER	2	FSDDEVN	Device number
34	(22)	CHARACTER	2	FSDFLAGS (0)	Flags
34	(22)	BITSTRING	1		
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"

Offsets

Dec	Hex	Type/Value	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	
	...1			"X'20'" Elapsed time overflow	
	.... 1...			MHRCOUNTERSET	
	.... 1...				"X'10'" On indicates the complete counter set has been read, off indicates that a subset has been returned
	.... 1...			MHRRECORDTRUNCATED	
	.... 1...				"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"

Offsets

Dec	Hex	Type/Value	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	
	.1...			"X'80'" Counters provided	
	...1			MPIRLAST	"X'40'" Last MPIR
	...1			MPIRINTERNALPORT	
	...1				"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
12	(C)	X'10'	0	MPIR_LEN	"*-MPIR"

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SCR	Statistical Counter Record
0	(0)	CHARACTER	1	SCRSTATUS (0)	Status
	1...			SCR COUNTERVALID	
	.1...				"X'80'" Counters provided
	...1			SCRLAST	"X'40'" Last SCR
	...1			SCROVERFLOW	"X'20'" Counter overflowed

IHAFSD Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.... ..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
Comment					
Performance Counter Identifiers					
End of Comment					
4	(4)	BITSTRING	0	SCIDNUMBEROFWORDSTRANSMITTED	"X'0901"
4	(4)	BITSTRING	0	SCIDNUMBEROFWORDSR RECEIVED	"X'0902"
4	(4)	BITSTRING	0	SCIDNUMBEROFFRAMESTRANSMITTED	"X'0903"
4	(4)	BITSTRING	0	SCIDNUMBEROFFRAMESRECEIVED	"X'0904"
4	(4)	BITSTRING	0	SCIDNUMBEROFC LASS2FRAMESRECV	"X'0905"
4	(4)	BITSTRING	0	SCIDNUMBEROFC LASS3FRAMESRECV	"X'0906"
4	(4)	BITSTRING	0	SCIDNUMBEROFLINKCNTLFRAMESR	"X'0907"
4	(4)	BITSTRING	0	SCIDNUMBEROFMULTICASTFRAMESR	"X'0908"
4	(4)	BITSTRING	0	SCIDFRAMEPACINGTIME	"X'0909"
Comment					
Frame Error Counter Identifiers					
End of Comment					
4	(4)	BITSTRING	0	SCIDNUMBEROFDISPARITYERRORSIN	"X'0910"
4	(4)	BITSTRING	0	SCIDNUMBEROFCRCERRORS	"X'0911"
4	(4)	BITSTRING	0	SCIDNUMBEROFFRAMESSGTFCMAX	"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	SCIDNUMBEROFP INVALIDORDSETS	"X'0916"
4	(4)	BITSTRING	0	SCIDNUMBEROFC LASS3FRAMESDISC	"X'0917"
Comment					
Link Error Counter Identifiers					
End of Comment					
4	(4)	BITSTRING	0	SCIDNUMBEROFLINKFAILURES	"X'0920"
4	(4)	BITSTRING	0	SCIDNUMBEROFLLOSSOFSYNC	"X'0921"
4	(4)	BITSTRING	0	SCIDNUMBEROFLLOSSOFSIGNAL	"X'0922"
4	(4)	BITSTRING	0	SCIDNUMBEROFP TOCOL ERRORS	"X'0923"
4	(4)	BITSTRING	0	SCIDNUMBEROFINVTRANWORDS	"X'0924"
4	(4)	BITSTRING	0	SCIDNUMBEROFA DRESSID ERRORS	"X'0925"
4	(4)	BITSTRING	0	SCIDNUMBEROFLRRISSUEDBYPORT	"X'0926"

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
4	(4)	BITSTRING	0	SCIDNUMBEROFOFOLSR RECEIVED	"X'0927"
4	(4)	BITSTRING	0	SCIDNUMBEROFOFOLSISSUED	"X'0928"
4	(4)	BITSTRING	0	SCIDERRORSUMMARYCOUNT	"X'0929"

Comment

Constants

Some of these will need to be updated as additional counter
IDs are defined.

End of Comment

4	(4)	X'A'	0	NUMBEROFCOUNTERSCOUNTERS	"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

Comment

Statistical Counter Scaling Factors

End of Comment

....	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"

Offsets

Dec	Hex	Type/Value	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"

Offsets

Dec	Hex	Type/Value	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
2	(2)	BITSTRING	2	SCCWSTATISTICALCOUNTERID	Statistical Counter ID

Comment

CCW Op Codes

End of Comment

..11 ...1	FSDSETMONITOR	"X'31"
..11 ...1.	FSDREADPORTSTATISTICS	"X'32"

IHAFSD Cross Reference

Offsets								
Dec	Hex	Type/Value	Len	Name (Dim)	Description			
				Comment				

Other Constants

				End of Comment	
2	(2)	X'E2C440'	0	FSDIDNAME	"CFSD "
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"

IHAFSD Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
CODEMAXIMUM	4	929	MPIRID61	2	61
CODEMINIMUM	4	901	MPIRINTERNALPORT	2	10
FSD	0		MPIRLAST	2	40
FSD_LEN	2C	2C	MPIRPORTADDRESS	6	
FSDAREASIZE	8		MPIRPORTDESCRIPTOR	8	
FSDDEVN	20		MPIRPORTNUMBER	5	
FSDFLAGS	22		MPIRSTATITCALCOUNTERSPROVIDED	2	80
FSDHEADER	0		MPIRSTATUS	2	
FSDID	0		NUMBEROFCOUNTERSDEFINED	4	1B
FSDIDNAME	2	E2C440	NUMBEROFCOUNTERS	4	A
FSDOFFSETOFMIR	28		SCCW	0	
FSDREADPORTSTATISTICS	2	32	SCCW_LEN	2	4
FSDSETMONITOR	2	31	SCCWFLAG	0	
FSDSTARTOFGMIR	2C		SCCWLAST	0	80
FSDSUBP	7		SCCWSTATISTICALCOUNTERID	2	
FSDTIMESTAMP	10		SCIDERRORSUMMARYCOUNT	4	929
FSDVERS	4		SCIDFRAMEPACINGTIME	4	909
FSDVERSION02	2	2	SCIDNUMBEROFAADDRESSIDERRORS	4	925
MCR	0		SCIDNUMBEROFCCLASS2FRAMESRECV	4	905
MCR_LEN	10	100	SCIDNUMBEROFCCLASS3FRAMESDISC	4	917
MCRCCW	10		SCIDNUMBEROFCCLASS3FRAMESRECV	4	906
MCRENDPORT	F		SCIDNUMBEROFCRCERRORS	4	911
MCRMC	2		SCIDNUMBEROFDISPARITYERRORSIN	4	910
MCRSTARTPORT	B		SCIDNUMBEROFDISPARITYERRORSOUT	4	915
MCRVERSION	8		SCIDNUMBEROFFRAMESGTFCMAX	4	912
MHR	0		SCIDNUMBEROFFRAMESLFCMIN	4	913
MHR_LEN	C	10	SCIDNUMBEROFFRAMESRECEIVED	4	904
MHRCOUNT	1		SCIDNUMBEROFFRAMESTRANSMITTED	4	903
MHRCOUNTERSET	2	10	SCIDNUMBEROFFRAMESWITHBADEOF	4	914
MHRCOUNT04	2	4	SCIDNUMBEROFINVALIDORDSETS	4	916
MHRELAPSEDTIMECOUNT	6		SCIDNUMBEROFINVTRANWORDS	4	924
MHRELAPSEDTIMEOVERFLOW	2	20			
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				

Name	Hex Offset	Hex Value
SCIDNUMBEROFLINKCNTLFRAMESR	4	907
SCIDNUMBEROFLINKFAILURES	4	920
SCIDNUMBEROFLOSSOFSIGNAL	4	922
SCIDNUMBEROFLOSSOFSYNC	4	921
SCIDNUMBEROFLRRISSUEDBYPORT	4	926
SCIDNUMBEROFMULTICASTFRAMESR	4	908
SCIDNUMBEROFLSISSUED	4	928
SCIDNUMBEROFLSRECEIVED	4	927
SCIDNUMBEROFPROTOCOLERRORS	4	923
SCIDNUMBEROFWORDSRECEIVED	4	902
SCIDNUMBEROFWORDSTRANSMITTED	4	901
SCR	0	
SCR_LEN	4	8
SCRCOUNT	1	
SCRCOUNTVALID	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	

IHAIPA Information

IHAIPA Programming Interface information

Programming Interface information

IHAIPA

End of Programming Interface information

IHAIPA Heading Information • IHAIPA Map

IHAIPA Heading Information

Common Name: Initialization Parameter Area
Macro ID: IHAIPA
DSECT Name: IPA IPAPDE IPALI
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'0B80' bytes
 IPAPDE -- X'0008' bytes
 IPALI -- 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 Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	IPA	Initialization Parameter Area
0	(0)	CHARACTER	96	IPAHEAD	Header section
0	(0)	CHARACTER	4	IPAID	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	IPACTOD	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
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	IPAOHLQ	IODF dataset name high-level qualifier
107	(6B)	CHARACTER	1		Reserved
108	(6C)	CHARACTER	8	IPAOOCFG	Operating system configuration identifier
116	(74)	CHARACTER	1		Reserved
117	(75)	CHARACTER	2	IPAOEDT	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	IPAPSUF	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

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
352	(160)	CHARACTER	8	IPASXNAME	SYSPLEX name
360	(168)	CHARACTER	1		Reserved
361	(169)	CHARACTER	1	IPASXSCU	SYSCLOSE 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	IPAPLFLG	PARMLIB usage flags

Comment

Bit definitions:

End of Comment					
		1...		IPAPLUSE	"X'80'" PARMLIB in use
		.1...		IPAPLDEF	"X'40'" Default PARMLIB
		..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	IPAITOD	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 IPAPI
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
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

Comment

Bit definitions:

End of Comment					
		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	792	IPASYS	IEASYSxx section
2152	(868)	CHARACTER	8	IPAPDES	Parameter descriptor elements
2152	(868)	CHARACTER	792	IPAPDESC	Individual parameter descriptors
2152	(868)	CHARACTER	8	IPAALLOC	

Comment

PDE for ALLOC

End of Comment					
2160	(870)	CHARACTER	8	IPAAFF	

IHAIPA Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
					Comment _____
					PDE for APP
2168	(878)	CHARACTER	8	IPAAPG	End of Comment _____
					Comment _____
					PDE for APG
2176	(880)	CHARACTER	8	IPABLDL	End of Comment _____
					Comment _____
					PDE for BLDL
2184	(888)	CHARACTER	8	IPABLDLF	End of Comment _____
					Comment _____
					PDE for BLDLF
2192	(890)	CHARACTER	8	IPACLOCK	End of Comment _____
					Comment _____
					PDE for CLOCK
2200	(898)	CHARACTER	8	IPACLPA	End of Comment _____
					Comment _____
					PDE for CLPA
2208	(8A0)	CHARACTER	8	IPACMB	End of Comment _____
					Comment _____
					PDE for CMB
2216	(8A8)	CHARACTER	8	IPACMD	End of Comment _____
					Comment _____
					PDE for CMD
2224	(8B0)	CHARACTER	8	IPACON	End of Comment _____
					Comment _____
					PDE for CON
2232	(8B8)	CHARACTER	8	IPACONT	End of Comment _____
					Comment _____
					PDE for CONT
2240	(8C0)	CHARACTER	8	IPACOULP	End of Comment _____

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
					Comment
					PDE for COUPLE
2248	(8C8)	CHARACTER	8	IPACPQE	End of Comment
					Comment
					PDE for CPQE
2256	(8D0)	CHARACTER	8	IPACSA	End of Comment
					Comment
					PDE for CSA
2264	(8D8)	CHARACTER	8	IPACSCBL	End of Comment
					Comment
					PDE for CSCBLOC
2272	(8E0)	CHARACTER	8	IPACVIO	End of Comment
					Comment
					PDE for CVIO
2280	(8E8)	CHARACTER	8	IPADEVSU	End of Comment
					Comment
					PDE for DEVSUP
2288	(8F0)	CHARACTER	8	IPADIAG	End of Comment
					Comment
					PDE for DIAG
2296	(8F8)	CHARACTER	8	IPADUMP	End of Comment
					Comment
					PDE for DUMP
2304	(900)	CHARACTER	8	IPADUPLE	End of Comment
					Comment
					PDE for DUPLEX
2312	(908)	CHARACTER	8	IPAEXIT	End of Comment
					Comment
					PDE for EXIT
2320	(910)	CHARACTER	8	IPAFIX	End of Comment

IHAIPA Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
					Comment _____
					PDE for FIX
2328	(918)	CHARACTER	8	IPAGRS	End of Comment _____
					Comment _____
					PDE for GRS
2336	(920)	CHARACTER	8	IPAGRSCN	End of Comment _____
					Comment _____
					PDE for GRSCNF
2344	(928)	CHARACTER	8	IPAGRSRN	End of Comment _____
					Comment _____
					PDE for GRSRNL
2352	(930)	CHARACTER	8	IPAICS	End of Comment _____
					Comment _____
					PDE for ICS
2360	(938)	CHARACTER	8	IPAIOS	End of Comment _____
					Comment _____
					PDE for IOS
2368	(940)	CHARACTER	8	IPAIPS	End of Comment _____
					Comment _____
					PDE for IPS
2376	(948)	CHARACTER	8	IPALNK	End of Comment _____
					Comment _____
					PDE for LNK
2384	(950)	CHARACTER	8	IPALNKAU	End of Comment _____
					Comment _____
					PDE for LNKAUTH
2392	(958)	CHARACTER	8	IPALOGCL	End of Comment _____
					Comment _____
					PDE for LOGCLS
2400	(960)	CHARACTER	8	IPALOGLM	End of Comment _____

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
					Comment
					PDE for LOGLMT
2408	(968)	CHARACTER	8	IPALOGRE	End of Comment
					Comment
					PDE for LOGREC
2416	(970)	CHARACTER	8	IPALPA	End of Comment
					Comment
					PDE for LPA
2424	(978)	CHARACTER	8	IPAMAXCA	End of Comment
					Comment
					PDE for MAXCAD
2432	(980)	CHARACTER	8	IPAMAXUS	End of Comment
					Comment
					PDE for MAXUSER
2440	(988)	CHARACTER	8	IPAMLPA	End of Comment
					Comment
					PDE for MLPA
2448	(990)	CHARACTER	8	IPAMSTRJ	End of Comment
					Comment
					PDE for MSTRJCL
2456	(998)	CHARACTER	8	IPANONVI	End of Comment
					Comment
					PDE for NONVIO
2464	(9A0)	CHARACTER	8	IPANSYSL	End of Comment
					Comment
					PDE for NSYSLX
2472	(9A8)	CHARACTER	8	IPANUCMA	End of Comment
					Comment
					PDE for NUCMAP
2480	(9B0)	CHARACTER	8	IPAOMVS	End of Comment

IHAIPA Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
					Comment _____
					PDE for OMVS
2488	(9B8)	CHARACTER	8	IPAOP1	End of Comment _____
					Comment _____
					PDE for OPI
2496	(9C0)	CHARACTER	8	IPAOPT	End of Comment _____
					Comment _____
					PDE for OPT
2504	(9C8)	CHARACTER	8	IPAPAGEO	End of Comment _____
					Comment _____
					PDE for PAGE (operator-specified)
2512	(9D0)	CHARACTER	8	IPAPAGEP	End of Comment _____
					Comment _____
					PDE for PAGE (IEASYSxx-specified)
2520	(9D8)	CHARACTER	8	IPAPAGNU	End of Comment _____
					Comment _____
					PDE for PAGNUM
2528	(9E0)	CHARACTER	8	IPAPAGTO	End of Comment _____
					Comment _____
					PDE for PAGTOTL
2536	(9E8)	CHARACTER	8	IPAPAK	End of Comment _____
					Comment _____
					PDE for PAK
2544	(9F0)	CHARACTER	8	IPAPLEXC	End of Comment _____
					Comment _____
					PDE for PLEXCFG
2552	(9F8)	CHARACTER	8	IPAPRODP	End of Comment _____
					Comment _____
					PDE for PRODP
2560	(A00)	CHARACTER	8	IPAPROG	End of Comment _____

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
					Comment
					PDE for PROG
2568	(A08)	CHARACTER	8	IPAPURGE	End of Comment
					Comment
					PDE for PURGE
2576	(A10)	CHARACTER	8	IPARDE	End of Comment
					Comment
					PDE for RDE
2584	(A18)	CHARACTER	8	IPAREAL	End of Comment
					Comment
					PDE for REAL
2592	(A20)	CHARACTER	8	IPARER	End of Comment
					Comment
					PDE for RER
2600	(A28)	CHARACTER	8	IPARSU	End of Comment
					Comment
					PDE for RSU
2608	(A30)	CHARACTER	8	IPARSVNO	End of Comment
					Comment
					PDE for RSVNONR
2616	(A38)	CHARACTER	8	IPARSVST	End of Comment
					Comment
					PDE for RSVSTRT
2624	(A40)	CHARACTER	8	IPASCH	End of Comment
					Comment
					PDE for SCH
2632	(A48)	CHARACTER	8	IPASMF	End of Comment
					Comment
					PDE for SMF
2640	(A50)	CHARACTER	8	IPASMS	End of Comment

IHAIPA Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
					Comment _____
					PDE for SMS
2648	(A58)	CHARACTER	8	IPASQA	End of Comment _____
					Comment _____
					PDE for SQA
2656	(A60)	CHARACTER	8	IPASSN	End of Comment _____
					Comment _____
					PDE for SSN
2664	(A68)	CHARACTER	8	IPASVC	End of Comment _____
					Comment _____
					PDE for SVC
2672	(A70)	CHARACTER	8	IPASWAP	End of Comment _____
					Comment _____
					PDE for SWAP
2680	(A78)	CHARACTER	8	IPASYSNA	End of Comment _____
					Comment _____
					PDE for SYSNAME
2688	(A80)	CHARACTER	8	IPASYSP	End of Comment _____
					Comment _____
					PDE for SYSP
2696	(A88)	CHARACTER	8	IPAVAL	End of Comment _____
					Comment _____
					PDE for VAL
2704	(A90)	CHARACTER	8	IPAVIODS	End of Comment _____
					Comment _____
					PDE for VIODSN
2712	(A98)	CHARACTER	8	IPAVRREG	End of Comment _____
					Comment _____
					PDE for VRREGN
2720	(AA0)	CHARACTER	8	IPARTLSP	End of Comment _____

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
					Comment
					Support for RTLS has been withdrawn
2728	(AA8)	CHARACTER	8	IPAUNIP	End of Comment
					Comment
					PDE for UNI
2736	(AB0)	CHARACTER	8	IPAILML	End of Comment
					Comment
					Support for ILM has been withdrawn
2744	(AB8)	CHARACTER	8	IPAILMOD	End of Comment
					Comment
					Support for ILM has been withdrawn
2752	(AC0)	CHARACTER	8	IPATSO	End of Comment
					Comment
					PDE for IKJTSO
2760	(AC8)	CHARACTER	8	IPALIC	End of Comment
					Comment
					PDE for LICENSE 010409
2768	(AD0)	CHARACTER	8		End of Comment
2776	(AD8)	CHARACTER	8	IPAHVSHARE	PDE for VSHAR
2784	(AE0)	CHARACTER	8	IPAILM	
					Comment
					Support for ILM has been withdrawn
2792	(AE8)	CHARACTER	8	IPADRMODE	End of Comment
					Comment
					PDE for DRMODE
2800	(AF0)	CHARACTER	8	IPACEE	End of Comment
					Comment
					PDE for CEE
2808	(AF8)	CHARACTER	8	IPAPRCPU	End of Comment

IHAIPA Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
				Comment	
				PDE for PRESCPU	
2816	(B00)	CHARACTER	8	IPALFAREA	End of Comment PDE for LFAREA
2824	(B08)	CHARACTER	8	IPACEA	
				Comment	
				PDE for CEA	
2832	(B10)	CHARACTER	8	IPAHVCOMMON	End of Comment PDE for VCOMM
2840	(B18)	CHARACTER	8	IPAAXR	
				Comment	
				PDE for AXR	
2848	(B20)	CHARACTER	8	IPAZAAPZIIP	End of Comment PDE for zAAPzIIP (ZZ)
2856	(B28)	CHARACTER	8	IPAIQP	
				Comment	
				PDE for IQP	
2864	(B30)	CHARACTER	8	IPACPCR	End of Comment
				Comment	
				PDE for CPCR	
2872	(B38)	CHARACTER	8	IPADDM	End of Comment
				Comment	
				PDE for DDM	
2880	(B40)	CHARACTER	8	IPAAUTOR	End of Comment
				Comment	
				PDE for AUTOR	
2888	(B48)	CHARACTER	8	IPACATALOG	End of Comment 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	
				Comment	
				PDE for HZS	
2928	(B70)	CHARACTER	8	IPAGTZ	End of Comment
				Comment	
				PDE for GTZ	
2936	(B78)	CHARACTER	8	IPAHZSPROC	End of Comment PDE for HZSPROC
2944	(B80)	CHARACTER	1	IPAPDESC_END	
				(0)	

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
2944	(B80)	CHARACTER	1	IPAEND (0)	End of IPA. The number of elements in IPAPDESC must be less than or equal to the dimension of IPAPDES.

Comment

?ASAXMAC ASSERT(Dim(IPAPDES) Length(IPAPDE),EQ,Length(IPAPDESC))
 ?ASAXMAC ASSERT(Dim(IPAPDES) L
 ength(IPAPDE),EQ,Length(IPAPDE
 SC))

End of Comment

2944	(B80)	X'0'	0	ASSERT_EQ1_1	"0"
2944	(B80)	X'0'	0	ASSERT_EQ2_1	"0"

Comment

Constants for IPAHEAD

End of Comment

2944	(B80)	X'D7C140'	0	IPAIPA	"C'IPA" Eye-catcher
2944	(B80)	X'F1'	0	IPASNPN	"241" IPA subpool
2944	(B80)	X'1'	0	IPACVN	"1" IPA current version

Comment

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)

End of Comment

2944	(B80)	X'C1'	0	IPAPRYYY	"C'A"
2944	(B80)	X'D7'	0	IPAPRYYN	"C'P"
2944	(B80)	X'D4'	0	IPAPRNYY	"C'M"
2944	(B80)	X'40'	0	IPAPRNNN	"C' "
2944	(B80)	X'C3'	0	IPAPRYNN	"C'C"
2944	(B80)	X'C4'	0	IPAPRYNY	"C'D"
2944	(B80)	X'E2'	0	IPAPRNYN	"C'S"
2944	(B80)	X'E3'	0	IPAPRNYY	"CT"
2944	(B80)	X'B80'	0	IPA_LEN	"*-IPA"

Offsets

Dec	Hex	Type/Value	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)

Comment

Constants for IPAPDEDO

End of Comment

6	(6)	X'0'	0	IPAPDEDF	"0" Parameter was not specified and its default value was used by system initialization
6	(6)	X'FFFFFFFFFF'	0	IPAPDEOP	"-1" Operator provided the parameter value
6	(6)	X'8'	0	IPAPDE_LEN	"*-IPAPDE"

Offsets

Dec	Hex	Type/Value	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	Reserved
45	(2D)	CHARACTER	6	IPAPLIVOL	PARMLIB VOLSER

IHAIPA Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
51	(33)	CHARACTER	12		Reserved
63	(3F)	BITSTRING	1	IPAPLIFLG	PARMLIB usage flags
					Comment
Bit definitions:					
					End of Comment
1...	....	IPAPLIUSE			"X'80'" PARMLIB in use
.1..	....	IPAPLIDEF			"X'40'" Default PARMLIB
.1.	....	IPAPLICAT			"X'20'" IPAPLIVOL found from catalog
.... 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"

IHAIPA Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
ASSERT_EQ1_1	B80	0	IPAILTOD	848	
ASSERT_EQ2_1	B80	0	IPAIOCFG	6C	
IPA	0		IPAIODDS	78	
IPA_LEN	B80	B80	IPAIODF	60	
IPAALLOC	868		IPAIODFU	10	
IPAAPF	870		IPAOEDT	75	
IPAAPG	878		IPAOHLQ	63	
IPAARCHL	85F		IPAIOS	938	
IPAAUTOR	B40		IPAIOSUF	60	
IPAAXR	B18		IPAIIPA	B80	D7C140
IPABDL	880		IPAIIPS	940	
IPABDLF	888		IPAIQP	B28	
IPACATALOG	B48		IPAIXGCNF	B50	
IPACEA	B08		IPAJCLP	866	80
IPACEE	AF0		IPALEN	4	
IPACLOCK	890		IPALFAREA	B00	
IPACLPA	898		IPALFLAG	866	
IPACMB	8A0		IPALIC	AC8	
IPACMD	8A8		IPALNK	948	
IPACON	8B0		IPALNKAU	950	
IPACONT	8B8		IPALOAD	60	
IPACOUP1	8C0		IPALLOADS	14	
IPACPQR	B30		IPALOGCL	958	
IPACPQE	8C8		IPALOGLM	960	
IPACSA	8D0		IPALOGRE	968	
IPACSCBL	8D8		IPALPA	970	
IPACVIO	8E0		IPALPARM	10	
IPACVN	B80	1	IPALPDDV	5C	
IPADDM	B38		IPALPDSN	30	
IPADEVSU	8E8		IPALPNAM	20	
IPADIAG	8F0		IPAMACHMIGADDR		
IPADRMOD	AE8			850	
IPADUMP	8F8		IPAMAXCA	978	
IPADUPLE	900		IPAMAXUS	980	
IPAEND	B80		IPAMLPA	988	
IPAEXIT	908		IPAMSTRJ	990	
IPAFIX	910		IPAMTLSH	85E	
IPAGRS	918		IPANAMES	18	
IPAGRSCN	920		IPANLID	860	
IPAGRSRN	928		IPANONVI	998	
IPAGTZ	B70		IPANSYSL	9A0	
IPAHEAD	0		IPANUCID	17	
IPAHVCOMMON	B10		IPANUCL	860	
IPAHVSHARE	AD8		IPANUCMA	9A8	
IPAHWNAME	18		IPANUCW	862	
IPAHZS	B68		IPANUCXID	867	
IPAHZSPROC	B78		IPANUMMACHMIIGS		
IPAICS	930			854	
IPAICTOD	8		IPANUMPDES	85C	
IPAID	0		IPAOOMVS	9B0	
IPAILM	AE0		IPAOP1	9B8	
IPAILML	AB0		IPAOPT	9C0	
IPAILMOD	AB8		IPAPAGEO	9C8	

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
IPAPAGEP	9D0		IPASPLST	A0	
IPAPAGESCM	B58		IPASPN	B80	F1
IPAPAGNU	9D8		IPAPSUF	A0	
IPAPAGTO	9E0		IPASQA	A58	
IPAPAK	9E8		IPASSN	A60	
IPAPDE	0		IPASTMT	6A0	
IPAPD_ELEN	6	8	IPASTMTMM	5E0	
IPAPDEF	6	0	IPASVC	A68	
IPAPDEDO	6		IPASWAP	A70	
IPAPDEOP	6	FFFFFF	IPASXNAM	160	
IPAPDES	868		IPASXSCU	169	
IPAPDESA	0		IPASYLST	120	
IPAPDESC	868		IPASYM	120	
IPAPDESC_END	B80		IPASYS	868	
IPAPDESL	4		IPASYSNA	A78	
IPAPDESS	6		IPASYSP	A80	
IPAPLCAT	1DF	20	IPASYSUF	120	
IPAPLDEF	1DF	40	IPATSO	AC0	
IPAPLDNSN	1A0		IPAUJCL	866	40
IPAPLEX	160		IPAUNIP	AA8	
IPAPLEXC	9F0		IPAVAL	A88	
IPAPLFLG	1DF		IPAVER	7	
IPAPLI	0		IPAVIODS	A90	
IPAPLI_LEN	40	40	IPAVMNAM	28	
IPAPLIB	1A0		IPAVRREG	A98	
IPAPLIB@	858		IPAWARNUND	B60	
IPAPLICAT	3F	20	IPAZAAPZIIP	B20	
IPAPLIDEF	3F	40			
IPAPLIDSN	0				
IPAPLIFLG	3F				
IPAPLILCF	3F	8			
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	B80	40			
IPAPRNYY	B80	D4			
IPAPRNYN	B80	E2			
IPAPRNYY	B80	E3			
IPAPRODP	9F8				
IPAPROG	A00				
IPAPROMT	16				
IPAPRYNN	B80	C3			
IPAPRYNY	B80	C4			
IPAPRYYN	B80	D7			
IPAPRYYY	B80	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				
IPASMS	A50				
IPASP	6				
IPASPARM	A0				

IHALCCAO Information

IHALCCAO Heading Information

Common Name: Logical Configuration Communication Area
Macro ID: IHALCCAO
DSECT Name: LCCAO
Owning Component: Supervisor Control (SC1C5)
Eye-Catcher ID:
 Offset: 0
 Length: 4
Storage Attributes: Subpool: 239
 Key: 0
Size: OFFSET OF LCCAOEND MINUS THE OFFSET OF LCCAO
Created by: IEAVNIPO
IEEVCPRA
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 Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	2632	LCCAO	
0	(0)	CHARACTER	4	LCCAOLCCAO	CONTROL BLOCK ACRONYM IN EBCDIC
4	(4)	ADDRESS	2	LCCAOPUA	LOGICAL CPU ADDRESS
6	(6)	BITSTRING	2	LCCAOCFM	BIT MASK CORRESPONDING TO LOGICAL CPU ADDRESS
8	(8)	SIGNED	4	LCCAOPGR1	PROGRAM FLIH RECURSION REGISTER SAVE AREA 1 (4294967312:562114560)
72	(48)	SIGNED	4	LCCAOPGR2	PROGRAM FLIH MAIN ENTRY REGISTER SAVE AREA (MDC346) (4294967312:562114560)
136	(88)	CHARACTER	8	LCCAOPPSW	PROGRAM FLIH MAIN ENTRY PSW SAVE AREA
144	(90)	SIGNED	4	LCCAOPINT	PROGRAM FLIH MAIN ENTRY ILC AND INTERRUPT CODE SAVE AREA
144	(90)	CHARACTER	1	*	RESERVED - SET TO 0
145	(91)	BITSTRING	1	LCCAOPILC	INSTRUCTION LENGTH CODE
146	(92)	BITSTRING	1	LCCAOPEEC	EXCEPTION - EXTENSION CODE
147	(93)	BITSTRING	1	LCCAOPICD	PROGRAM INTERRUPT CODE
	1...			LCCAOPPER	PER BIT IN INTERRUPT CODE
	.111 1111			LCCAOPICA	The interrupt code without the PER bit
	.1..			LCCAOPMC	Monitor call bit in interrupt code
	..11 1111			LCCAOPICB	The "clean" interrupt code
148	(94)	SIGNED	4	LCCAOPVAD	PROGRAM FLIH MAIN ENTRY TRANSLATION EXCEPTION ADDRESS SAVE AREA
148	(94)	CHARACTER	3	*	FIRST THREE BYTES OF ADDRESS
	1...			LCCAOPVXM	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	LCCAOPID 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	LCCAOPR3	PROGRAM CHECK FLIH REGISTER SAVE AREA 3 (MDC317) (4294967312:562114560)
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

IHALCCAO Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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 (4294967312:562114560)	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)
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 (4294967304:562114560)	INTERSECT REGISTER SAVE AREA (MDC325)
512	(200)	SIGNED	2	LCCAOBBC7	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 111.	MACHINE CHECK FLIH CR0 SAVE AREA (MDC312)
				....1	FIRST THREE BITS OF LCCAOMCR0
				LCCAOMPEN	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
				LCCAOXRC1	EXTERNAL FLIH RECURSION BIT 1
				LCCAOXRC2	EXTERNAL FLIH RECURSION BIT 2
				*	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	LCCAOSPIN	PROCESSOR IS SPINNING INDICATORS
524	(20C)	BITSTRING	1	LCCAOSPN1 1...	FIRST BYTE OF LCCAOSPIN
				LCCAOSIGS	IEAVSIGP SPIN BIT
				LCCAERIS	IEAVERI SPIN BIT
				LCCAOLOCK	LOCK MANAGER SPIN BIT
				LCCAOTSPN	SIMULATES SPIN FOR TIMER SUPERVISOR AT VARY TIME
				LCCAORSTR	USED BY A PROGRAM SPINNING FOR THE RESTART RESOURCE MDC035
				*	RESERVED
				LCCAOINT	INTERSECT FUNCTION SPIN BIT (MDC308)
				LCCAEOXSN	SPIN BIT FOR EXCESSIVE SPIN NOTIFICATION ROUTINE IEEVEXSN (MDC330)
525	(20D)	BITSTRING	1	LCCAOSPN2 1...	SECOND BYTE OF LCCAOSPIN
				LCCAOMSF	MSSFCALL SVC SPIN CONDITION
				LCCAOCCHAP	ASCBCHAP SPIN BIT
				LCCAOCPUR	TIMER SPIN BIT
				LCCAOSTAS	STATUS SPIN BIT
				LCCAOEESPN	IEAVESPN SPIN BIT
				LCCAOSTST	CPU/VF STOP/START spin bit IEEVCVSR.
				LCCAOSXLS	XLS spin bit

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
526	(20E)	BITSTRING	1	LCCAOPN3	THIRD BYTE OF LCCAOPIN
527	(20F)	BITSTRING	1	LCCAOPN4	FOURTH BYTE OF LCCAOPIN
528	(210)	CHARACTER	8	*	OWNERSHIP: SUPERVISOR SERIALIZATION: NONE
528	(210)	UNSIGNED	4	LCCAOTDH	STCK WORK AREA - HIGH ORDER WORD
532	(214)	UNSIGNED	4	LCCAOTDL	STCK WORK AREA - LOW ORDER WORD
536	(218)	ADDRESS	4	LCCAOPUS	POINTER TO CPU WORK/SAVE AREA VECTOR TABLE
540	(21C)	BITSTRING	1	LCCAODSF1	DISPATCHER STATUS INDICATOR BYTE 1 SPECIAL EXIT FLAGS
		1...		LCCAOCR	ACR IN PROGRESS
		.1...		LCCAOCPU	VARY CPU IN PROGRESS
		.1.		LCCAOTSC	TOD SYNC CHECKS SHOULD BE ENABLED
		..1.		LCCAOTIMR	CPU'S TOD CLOCK IS TO BE OR IS BEING SYNCHRONIZED MDC011
		.... 1...		LCCAOTSMC	TOD SYNC CHECK THRESHOLD HAS BEEN EXCEEDED
		.... .1..		LCCAOSVC6	Dispatcher entry DSSRBRTN was spinning for the global intersect.
		.... ..1.		LCCAOTCT2	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...		LCCAOSRB	SRB MODE INDICATOR
		.1...		*	
		..1.		LCCAOSSRB	DISPATCHER SSRB PATH FOOTPRINT
		...1.		LCCAOEUTS	EUTSAVE SUBROUTINE FOOTPRINT
		.... 1...		LCCAEOEUR	EUTREST SUBROUTINE FOOTPRINT
		.... .1..		LCCAOTVS	Dispatcher footprint for XES Schedule List Transition Notification
		.... ..1.		LCCAODS7E	Dispatcher footprint on entry from external or i/o flihs.
		.... ...1		LCCAOTVS2	Diapatcher footprint for iQDIO notification.
542	(21E)	CHARACTER	1	LCCAOPSMK	STORE AREA FOR FLIH'S STOSM INSTRUCTION
543	(21F)	BITSTRING	1	LCCAOSCFL	Supervisor Control flag byte. Current processor's field serialized via disablement.
		1...		LCCAOCRYPT	THE ENCRYPTION FEATURE IS ENABLED ON THIS PROCESSOR (SET BY IEAMCPUF SERVICE).
		.1...		LCCAOHSCS	HPPI external interrupts are enabled on this processor (set by IEAMCPUF service).
		..1.		LCCAOPASS	Pass ABEND to interrupted unit of work indicator
		...1.		LCCAOTVSE	External FLIH footprint for XES processing in progress.
		.... 1...		LCCAOAOLS	Set when PSAAOLD was refreshed and IEAVELCR needs to record the old value in the VRA. The old value is saved in LCCAOAOLD.
		.... .1..		LCCAOTOLS	Set when PSATOLD was refreshed and IEAVELCR needs to record the old value in the VRA. The old value is saved in LCCAOTOLD.
		.... ..1.		LCCAOTVS3	External FLIH footprint for iQDIO processing in progress.
		.... ...1		*	RESERVED
544	(220)	CHARACTER	32	LCCAODSW	DISPATCHER CPU RELATED WORK AREA
544	(220)	ADDRESS	4	LCCAOPWEB	Dispatcher Savearea for previous current WUQ. SERIALIZATION: Dispatcher Active OWNERSHIP: Supervisor Control
548	(224)	SIGNED	4	LCCAODBC	DISPATCHER SAVEAREA FOR INTERNAL ASCB COUNTER. INITIALIZED TO SVTDSBT 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	LCCAODSV1	DISPATCHER SAVEAREA
556	(22C)	ADDRESS	4	LCCAODSV2	DISPATCHER SAVEAREA
560	(230)	ADDRESS	4	LCCAODSV3	DISPATCHER SAVEAREA
564	(234)	ADDRESS	4	LCCAODSV4	DISPATCHER SAVEAREA
568	(238)	ADDRESS	4	LCCAODSV5	DISPATCHER SAVEAREA
572	(23C)	ADDRESS	4	LCCAODSV6	DISPATCHER SAVEAREA
576	(240)	ADDRESS	4	LCCAEE1R	EXTERNAL FLIH MAINLINE RETRY ADDRESS
580	(244)	ADDRESS	4	LCCAEE2R	EXTERNAL FLIH 1ST RECURSION RETRY ADDRESS
584	(248)	ADDRESS	4	LCCAEE3R	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 FPWA. Set during IPL and bringing processor online. Never reset. OWNERSHIP: Supervisor Control
652	(28C)	ADDRESS	4	LCCAOPFWA	Real address of LCCX.
656	(290)	ADDRESS	4	LCCAOLCXR	

IHALCCAO Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
656	(290)	ADDRESS	4	LCCAOFPWR	Real address of FPWA. Set during IPL and bringing processor online. Never reset. OWNERSHIP: Supervisor Control
660	(294)	ADDRESS	4	LCCAOESAV	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	LCCAOATOLD	If LCCAOATOLS = 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	LCCAOOSRBJ	SUSPENDED SERVICE REQUEST BLOCK (SRB) JOURNAL WORD USED BY SETLOCK MDC043
676	(2A4)	ADDRESS	4	LCCAODCPU	VIRTUAL ADDRESS OF LCCAO OF FAILING CPU
680	(2A8)	ADDRESS	4	LCCAORCPU	VIRTUAL ADDRESS OF LCCAO OF RECOVERING CPU
684	(2AC)	SIGNED	4	LCCAOCRLC	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
	1...	....		LCCAOCRTM	RTM ENTRY BIT
	.1..	....		LCCAOCMLS	PROCESS SUSPENDED
	..11	111.		*	RESERVED
	....	...1		LCCAOVARY	TELLS ACR THAT VARY IS IN PROGRESS MDC038
693	(2B5)	BITSTRING	1	LCCAOCREX	ACR ENTRY AND EXIT FLAGS
	1...	....		LCCAOCREF	EXTERNAL ROUTINE
	.1..	....		LCCAOCRRM	FINAL EXIT
	..1.	....		LCCAOCRLE	LOCK MANAGER EXIT
	...1	....		LCCAOCRRT	FRR EXIT
	....	1...		LCCAOCRIN	ENTRY TYPE = ACR
	....	.1..		LCCAOCRLM	ENTRY TYPE = ACRLM
	....	.1.		LCCAOCRDP	ENTRY TYPE = ACRDISP
	....	...1		LCCAOCRST	SYSTEM TERMINATION EXIT FLAG MDC037
694	(2B6)	BITSTRING	1	LCCAOLKFG	LOCK FLAG BYTE MDC005
	111.	....		*	RESERVED
	...1	....		LCCAOLKRD	THIS IS A LOCK MANAGER RELEASE DISABLED REQUEST MDC047
	....	1111		*	RESERVED
695	(2B7)	CHARACTER	1	*	RESERVED
696	(2B8)	CHARACTER	4	LCCAOSLEB	SPIN LOOP EXEMPTION BITS
696	(2B8)	BITSTRING	1	LCCAOSLE1	FLAG BYTE OWNERSHIP: RECONFIG SERIALIZATION: CS
	1...	....		LCCAOSTCP	BLWSPIN IN CONTROL.
	.1..	....		LCCAORSTP	LOADWAIT/RESTART PROCESSING IS PLACING THIS PROCESSOR INTO A RESTARTABLE WAIT STATE.
	....	....		LCCAOVTOD	IEATVTOD IN CONTROL.
	..1.	....		LCCAOESMR	IEATESMR IN CONTROL.
	....	1...		LCCAOXMF	IGFPXMF HAS STOPPED THIS CPU.
	....	.1..		LCCAOCVSR	IEEVCVSR IN CONTROL.
	....	.1.		LCCAOBRCH	ISNBRNCH IN CONTROL.
	....	...1		LCCAOBWTO	IEAVBWTO IN CONTROL.
697	(2B9)	BITSTRING	1	LCCAOSLE2	FLAG BYTE 2
	1...	....		LCCAEOESC2	IEATESCH or IEATTFDH in control. OWNERSHIP: RECONFIG. SERIALIZATION: CS.
	....	....		LCCAOXLS	XLS is in control. Ownership: XES. Serialization: Disablement.
	.1..	....		*	RESERVED
	..11	1111		RESERVED	RESERVED
698	(2BA)	CHARACTER	2	*	RESERVED
700	(2BC)	ADDRESS	4	LCCAOSLIP	POINTER TO SLIP/PER WORK AREA (MDC316)
704	(2C0)	CHARACTER	8	LCCAOLWTM	VALUE OF LCCAOWTM AT THE END OF A MEASUREMENT INTERVAL MDC001
712	(2C8)	ADDRESS	4	LCCAOSSA2	REAL ADDRESS OF SUBSPACE ASTE CAUSING THE FAULT. OWNERSHIP: SUPERVISOR CONTROL SERIALIZATION: DISABLEMENT
716	(2CC)	ADDRESS	4	LCCAOSSA5	REAL ADDRESS OF SUBSPACE ASTE CAUSING THE RECURSIVE FAULT. OWNERSHIP: SUPERVISOR CONTROL SERIALIZATION: DISABLEMENT
720	(2D0)	CHARACTER	8	LCCAOSRBF	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	LCCAOORMT	OLD SRB RMTR VALUE SERIALIZATION: DISABLEMENT OWNERSHIP: SUPERVISOR CONTROL
	1...	....		LCCAOSSTD	SRB SUSPEND WITH TOKEN DISABLED BIT
	.1..	....		LCCAOSSTA	SRB SUSPEND WITH TOKEN DISABLED BECAUSE SRB WAS ABENDED BY PURGEDQ PROCESSING.
	..1.	....		LCCAOSSTE	SRB SUSPEND WITH TOKEN DISABLED BECAUSE SRB IS REALLY A SUSPEND EXIT.
732	(2DC)	CHARACTER	4	LCCAOR2DC	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	LCCAOR2F0	RESERVED
756	(2F4)	CHARACTER	64	LCCAOPCR1	PROGRAM FLIH RECURSION CONTROL REGISTER SAVEAREA 1

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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
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	WEB Distribution table. 16 one- byte elements. INITIALIZED BY: IEAVINIT (4294967312:562114560) 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	LCCAOFWP	Processor Free WEB Pool and count. SERIALIZATION: Disablement for current processor's LCCAOFWP OWNERSHIP: Supervisor Control
852	(354)	ADDRESS	4	LCCAOFWPP	Processor WEB Free Pool Header. SERIALIZATION: Disablement for current processor's LCCAOFWPP. OWNERSHIP: Supervisor Control
856	(358)	SIGNED	4	LCCAOFWPC	Processor WEB Free Pool element count. SERIALIZATION: Disablement for current processor's LCCAOFWPC. 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
872	(368)	CHARACTER	4	LCCAOTP	Unproductive task preemptions count due to timeslices (External Flih Detected).
876	(36C)	CHARACTER	4	LCCAOTPB	Unproductive task preemptions count Base. Previous value of LCCAOTP
880	(370)	CHARACTER	12	LCCAOR370	RESERVED
892	(37C)	ADDRESS	4	LCCAORWQL	Recovery word for WebQLock address. Ownership: Supervisor Control
896	(380)	SIGNED	4	LCCAOSGPR	Serialization: Disablement
				(4294967312:562114560)	SVC FLIH GENERAL REGISTER SAVE AREA (MDC301)
960	(3C0)	CHARACTER	1	LCCAODSOF	DISPATCHER DIAGNOSTIC EXIT FLAG BYTE
		1...		LCCAODSE1	DISPATCHER UNLOCKED TASK DISPATCH DIAGNOSTIC EXIT ROUTED CONTROL
		.1...		LCCAODSE2	DISPATCHER LOCKED TASK DISPATCH DIAGNOSTIC EXIT ROUTED CONTROL
		..1.		LCCAODSE3	DISPATCHER SRB DISPATCH DIAGNOSTIC EXIT ROUTED CONTROL
		...1		LCCAODSE4	DISPATCHER SSRB DISPATCH DIAGNOSTIC EXIT ROUTED CONTROL
		.... 1...		LCCAODSE5	DISPATCHER WAIT TASK DISPATCH DIAGNOSTIC EXIT ROUTED CONTROL
961	(3C1)	BITSTRING	1	LCCAOPFPL	FP Flags
		111.		*	Reserved
		...1		LCCAOBFP	Additional FP status is being saved.
		.... 111.		*	Reserved
		.... ...1		LCCAOFPH	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	LCCAOPERC	PROGRAM EVENT RECORDING CODE (MDC326)
964	(3C4)	ADDRESS	4	LCCAOPERA	PER ADDRESS (MDC327)

IHALCCAO Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
968	(3C8)	ADDRESS	4	LCCAOSDUV	SRB RELATED DUCT VIRTUAL ADDRESS
972	(3CC)	ADDRESS	4	LCCAOSDUR	SRB RELATED DUCT REAL ADDRESS
976	(3D0)	ADDRESS	4	LCCAOIDUV	INTERRUPT HANDLER DUCT VIRTUAL ADDRESS
980	(3D4)	ADDRESS	4	LCCAOIDUR	INTERRUPT HANDLER DUCT REAL ADDRESS
984	(3D8)	ADDRESS	4	LCCAOSCW1	SUPERVISOR CONTROL WORK AREA 1 USED BY VARIOUS SUPERVISOR ROUTINES PRESERVED ACROSS CALLS TO IEAVECMS OWNERSHIP:
988	(3DC)	ADDRESS	4	LCCAOSCW2	SUPERVISOR CONTROL WORK AREA 2 USED BY VARIOUS SUPERVISOR ROUTINES PRESERVED ACROSS CALLS TO IEAVECMS OWNERSHIP:
992	(3E0)	CHARACTER	8	LCCAOSXMR	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	LCCAOLELP	LOCK MANAGER PSW SAVE AREA (MDC338)
1144	(478)	CHARACTER	72	LCCAOSTG1	STATUS REGISTER SAVE AREA (MDC338)
1216	(4C0)	CHARACTER	20	LCCAOSCSA	PCLINK SAVE AREA FOR REGISTERS 8-12 (CALLER'S REGISTERS) (MDC341)
1236	(4D4)	CHARACTER	52	LCCAOSREG	PCLINK REGISTER SAVE AREA (MDC341)
1288	(508)	CHARACTER	1	LCCAOSMSK	PCLINK SYSTEM MASK (MDC341)
1289	(509)	CHARACTER	1	LCCAORSMK	RESUME TCTL SYSTEM MASK (MDC340)
1290	(50A)	CHARACTER	1	LCCAOPGMM	PCLINK PROGRAM MASK (MDC341)
1291	(50B)	BITSTRING	1	LCCAOTCFB	RESUME/TCTL RECOVERY FOOTPRINT BYTE (MDC346)
	1...	....		LCCAOTCTL	TCTL IN CONTROL AT ABEND (MDC346)
	.1...	....		LCCAOTCAC	TCBACTIV AND TCBS3A SET (MDC346)
1292	(50C)	CHARACTER	40	LCCAORSME	RESUME REGISTER SAVE AREA FOR REGISTERS 11-4 (MDC338)
1292	(50C)	CHARACTER	28	LCCAORES1	RESUME REGISTER SAVE AREA REG 11-REG 1 (MDC338)
1320	(528)	CHARACTER	12	LCCAORES2	RESUME REGISTER SAVE AREA REG 2 - REG 4 (MDC338)
1332	(534)	CHARACTER	4	LCCAOSPSW	SYSTEM MASK SAVE AREA, USED BY MACHINE CHECK HANDLER
1336	(538)	ADDRESS	4	LCCAOSRGS	RETURN ADDRESS SAVE AREA, USED BY MACHINE CHECK HANDLER
1340	(53C)	ADDRESS	4	LCCAOPRMW	Address of the WEB on whose behalf a priority promotion was initiated.
1344	(540)	ADDRESS	4	LCCAOPTCB	SERIALIZATION: Dispatcher Active OWNERSHIP: Supervisor Control ADDRESS OF THE TCB ON WHOSE BEHALF A PRIORITY PROMOTION WAS INITIATED. (MDC347)
1348	(544)	ADDRESS	4	LCCAOPRTN	DISPATCHER RETURN POINT IF NO DISPATCHABLE WORK IS FOUND IN A PROMOTED ADDRESS SPACE. (MDC347)
1352	(548)	CHARACTER	8	LCCAOCDXM	CALLDISP XMEM SAVE AREA (MDC338)
1360	(550)	CHARACTER	8	LCCAOSRXM	CROSS MEMORY SAVE AREA FOR STOP/RESET AND SRB STATUS SAVE/RESTORE/MODIFY ROUTINES.
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	LCCAIOIXM	IOS CROSS MEMORY SAVE AREA (MDC339)
1372	(55C)	SIGNED	4	LCCAIOISS	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	LCCAOBBR	BIND BREAK COMMUNICATION BUFFER USED BY IEAVEBBR (MDC344)
1388	(56C)	CHARACTER	64	LCCAOCDSV	CALLDISP SERVICE ROUTINE REGISTER SAVE AREA FOR REGISTERS 0-15 (MDC344)
1388	(56C)	CHARACTER	4	LCCAOCDS0	CALLDISP REGISTER 0 SAVE AREA (MDC344)
1392	(570)	CHARACTER	4	LCCAOCDS1	CALLDISP REGISTER 1 SAVE AREA (MDC344)
1396	(574)	CHARACTER	4	LCCAOCDS2	CALLDISP REGISTER 2 SAVE AREA (MDC344)
1400	(578)	CHARACTER	4	LCCAOCDS3	CALLDISP REGISTER 3 SAVE AREA (MDC344)
1404	(57C)	CHARACTER	4	LCCAOCDS4	CALLDISP REGISTER 4 SAVE AREA (MDC344)
1408	(580)	CHARACTER	4	LCCAOCDS5	CALLDISP REGISTER 5 SAVE AREA (MDC344)
1412	(584)	CHARACTER	4	LCCAOCDS6	CALLDISP REGISTER 6 SAVE AREA (MDC344)
1416	(588)	CHARACTER	4	LCCAOCDS7	CALLDISP REGISTER 7 SAVE AREA (MDC344)
1420	(58C)	CHARACTER	4	LCCAOCDS8	CALLDISP REGISTER 8 SAVE AREA (MDC344)
1424	(590)	CHARACTER	4	LCCAOCDS9	CALLDISP REGISTER 9 SAVE AREA (MDC344)
1428	(594)	CHARACTER	4	LCCAOCDSA	CALLDISP REGISTER 10 SAVE AREA (MDC344)
1432	(598)	CHARACTER	4	LCCAOCDSB	CALLDISP REGISTER 11 SAVE AREA (MDC344)
1436	(59C)	CHARACTER	4	LCCAOCDCS	CALLDISP REGISTER 12 SAVE AREA (MDC344)
1440	(5A0)	CHARACTER	4	LCCAOCDSD	CALLDISP REGISTER 13 SAVE AREA (MDC344)
1444	(5A4)	CHARACTER	4	LCCAOCDSCE	CALLDISP REGISTER 14 SAVE AREA (MDC344)
1448	(5A8)	CHARACTER	4	LCCAOCDSF	CALLDISP REGISTER 15 SAVE AREA (MDC344)
1452	(5AC)	CHARACTER	64	LCCAOSLSA	LCCAO SINGLE LEVEL SAVE AREA USED BY MACHINE CHECK HANDLER (MDC344)
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	LCCAOPST	POST SAVE AREA FOR SRB POOL MANAGER
1560	(618)	ADDRESS	4	LCCAALOV	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

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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 1
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	LCCAOMS0	IEAVUQA 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	LCCAOPTE1	PROGRAM FLIH RECURSION TRANSLATION EXCEPTION ADDRESS SAVE AREA 1
1728	(6C0)	CHARACTER	64	LCCAOPGR4	PROGRAM FLIH REGISTER SAVE AREA 4
1792	(700)	CHARACTER	72	LCCAOPSLI	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
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

IHALCCAO Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
2036	(7F4)	UNSIGNED	4	LCCAORAR5	ACCESS REGISTER 5
2040	(7F8)	UNSIGNED	4	LCCAORAR6	ACCESS REGISTER 6
2044	(7FC)	UNSIGNED	4	LCCAORAR7	ACCESS REGISTER 7
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	LCCAOR820	RESERVED
2082	(822)	SIGNED	2	LCCA0OILC	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
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

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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	LCCAOPBS5	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
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	LCCAOPTR5	PROGRAM FLIH RECURSION TEA AR NUMBER SAVEAREA 5
2409	(969)	UNSIGNED	1	LCCAOPMFV	RECURSIVE PAGE FAULT MAINLINE FUNCTION VALUE SAVEAREA
2410	(96A)	UNSIGNED	2	LCCAODIEP	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	LCCAOPCR5	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	LCCAOPXFM5	PROGRAM FLIH CROSS MEMORY CONTROL REGISTER SAVEAREA 5 - MUST BE ON A DOUBLE WORD BOUNDARY.
2424	(978)	UNSIGNED	4	LCCAOP5C3	CONTROL REGISTER 3
2424	(978)	UNSIGNED	2	LCCAOPX5K	PROGRAM KEY MASK
2426	(97A)	UNSIGNED	2	LCCAOPX5S	SASN
2428	(97C)	UNSIGNED	4	LCCAOP5C4	CONTROL REGISTER 4
2428	(97C)	UNSIGNED	2	LCCAOPX5A	AX
2430	(97E)	UNSIGNED	2	LCCAOPX5P	PASN
2432	(980)	UNSIGNED	4	LCCAOP5C5	CONTROL REGISTER 5
2436	(984)	UNSIGNED	4	LCCAOP5C6	CONTROL REGISTER 6
2440	(988)	UNSIGNED	4	LCCAOP5C7	CONTROL REGISTER 7
2444	(98C)	UNSIGNED	4	LCCAOP5C8	CONTROL REGISTER 8
2444	(98C)	UNSIGNED	2	LCCAOPEX5	EAX VALUE (LH CR8)
2446	(98E)	UNSIGNED	2	*	SECOND HALF OF CR8
2448	(990)	UNSIGNED	4	LCCAOP5C9	CONTROL REGISTER 9
2452	(994)	UNSIGNED	4	LCCAOP5CA	CONTROL REGISTER 10
2456	(998)	UNSIGNED	4	LCCAOP5CB	CONTROL REGISTER 11
2460	(99C)	UNSIGNED	4	LCCAOP5CC	CONTROL REGISTER 12
2464	(9A0)	UNSIGNED	4	LCCAOP5CD	CONTROL REGISTER 13
2468	(9A4)	UNSIGNED	4	LCCAOP5CE	CONTROL REGISTER 14
2472	(9A8)	ADDRESS	4	LCCAOP5CF	LINKAGE STACK ENTRY ADDRESS (CR15)
2476	(9AC)	ADDRESS	4	LCCAODSA5	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 1111 11..	1	LCCAOPSTL *	LAST BYTE OF LCCAOPTE5

IHALCCAO Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.... ..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.
2532	(9E4)	UNSIGNED	4	LCCAOTPUB	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 1...	2	LCCAOOID LCCAOENID	Active ASID or Enclave ID when the workunit time slice expired. LCCAOOID is an Enclave ID.
2546	(9F2)	UNSIGNED	1	LCCAOMTSC	Maximum number of dispatches per task
2547	(9F3)	UNSIGNED	1	LCCAOCCTSC	Number of consecutive dispatches remaining for this task
2548	(9F4)	UNSIGNED	4	LCCAOPPRI	Priority of the active work unit when Time Slice Expired. SERIALIZATION: Disablement OWNERSHIP: Supervisor Control
2552	(9F8)	UNSIGNED	4	LCCAOCPTM	THIS CPU'S COUNT DOWN TIMER OWNERSHIP: SUPERVISOR SERIALIZATION: NONE
2556	(9FC)	ADDRESS	4	LCCAOCLSD	The address of the LSSD for the currently executing SRB routine. Only valid when an SRB is executing.
2560	(A00)	ADDRESS	4	LCCAOWUQA (17:562114560)	Array of Work Unit Queues for this processor. SERIALIZATION: Disablement. Global Intersect is required to change an element in another processor's LCCAOWUQA. OWNERSHIP: Supervisor Control
2632	(A48)	CHARACTER	0	LCCAOEND	END OF LCCAO.

IHALCCAO Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
LCCAO	0		LCCAOCDXM	548	
LCCAOACR	21C	80	LCCAOCCHAP	20D	40
LCCAOALOV	618		LCCAOCCLSMS	2B4	40
LCCAOAOLD	298		LCCAOCCLS	9FC	
LCCAOAOLS	21F	08	LCCAOCPTM	9F8	
LCCAOBBCT	200		LCCAOCPIUA	4	
LCCAOBBRC	568		LCCAOCPUR	20D	20
LCCAOBFP	3C1	10	LCCAOCPLUS	218	
LCCAOFPH	3C1	01	LCCAOCRDP	2B5	02
LCCAORCH	2B8	02	LCCAOCREF	2B5	80
LCCAOWWTQ	2B8	01	LCCAOCREX	2B5	
LCCAOCAFNM	6		LCCAOCRFL	2B4	
LCCAOCDSA	594		LCCAOCRIN	2B5	08
LCCAOCDSB	598		LCCAOCRLC	2AC	
LCCAOCDS	59C		LCCAOCRLE	2B5	20
LCCAOCDS	5A0		LCCAOCRLM	2B5	04
LCCAOCDS	5A4		LCCAOCRRM	2B5	40
LCCAOCDS	5A8		LCCAOCRTT	2B5	10
LCCAOCDSV	56C		LCCAOCRST	2B5	01
LCCAOCDS	56C		LCCAOCRTM	2B4	80
LCCAOCDS	570		LCCAOCRYP	21F	80
LCCAOCDS	574		LCCAOCR0	9C	
LCCAOCDS	578		LCCAOCR8W	558	
LCCAOCDS	57C		LCCAOCCTSC	9F3	
LCCAOCDS	580		LCCAOCVSR	2B8	04
LCCAOCDS	584		LCCAOCWEB	344	
LCCAOCDS	588		LCCAODBCT	224	
LCCAOCDS	58C		LCCAODCPU	2A4	
LCCAOCDS	590		LCCAODIEP	96A	

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
LCCAODSA2	160		LCCAOMCR0	204	
LCCAODSA5	9AC		LCCAOPEN	204	10
LCCAODSE1	3C0	80	LCCAOMSF	20D	80
LCCAODSE2	3C0	40	LCCAOMTSC	9F2	
LCCAODSE3	3C0	20	LCCAONWEB	348	
LCCAODSE4	3C0	10	LCCAOID	9F0	
LCCAODSE5	3C0	08	LCCAOOILC	822	
LCCAODSF1	21C		LCCAOPRMT	2D8	
LCCAODSF2	21D		LCCAOPAR1	760	
LCCAODSV1	228		LCCAOPAR2	E0	
LCCAODSV2	22C		LCCAOPAR3	630	
LCCAODSV3	230		LCCAOPAR4	7A0	
LCCAODSV4	234		LCCAOPAR5	928	
LCCAODSV5	238		LCCAOPASS	21F	20
LCCAODSV6	23C		LCCAOPCR1	2F4	
LCCAODS0F	3C0		LCCAOPCR2	164	
LCCAODS0W	220		LCCAOPCR3	824	
LCCAODS7E	21D	02	LCCAOPCR4	864	
LCCAOE1R	240		LCCAOPCR5	96C	
LCCAOE2R	244		LCCAOPDXC	97	
LCCAOE3R	248		LCCAOPPEC	92	
LCCAOLELP	470		LCCAOPERA	3C4	
LCCA OEMS0	670		LCCAOPERC	3C2	
LCCA OEND	A48		LCCAOPEX1	314	
LCCA OENID	9F0	80	LCCAOPEX2	184	
LCCA OERIS	20C	40	LCCAOPEX3	844	
LCCA OESAV	294		LCCAOPEX4	884	
LCCA OESC2	2B9	80	LCCAOPEX5	98C	
LCCA OESMR	2B8	10	LCCAOPGM	50A	
LCCA OESPN	20D	08	LCCAOPGR1	8	
LCCA OETP	368		LCCAOPGR2	48	
LCCA OETPB	36C		LCCAOPGR3	A0	
LCCA OETSC	21C	20	LCCAOPGR4	6C0	
LCCA OEUSTR	21D	08	LCCAOPGR5	8E4	
LCCA OEUUTS	21D	10	LCCAOPGTA	2D2	
LCCA OEXSN	20C	01	LCCAOPICA	93	7F
LCCA OFPFL	3C1		LCCAOPICB	93	3F
LCCA OFPWA	28C		LCCAOPICC	9B	
LCCA OFPWR	290		LCCAOPICD	93	
LCCA OFWP	354		LCCAOPIC1	6B8	
LCCA OFWPC	358		LCCAOPIC3	758	
LCCA OFWPP	354		LCCAOPIC5	9B8	
LCCA OHSCS	21F	40	LCCAOPILC	91	
LCCA OIDUR	3D4		LCCAOPINT	90	
LCCA OIDUV	3D0		LCCAOPMC	93	40
LCCA OIHRC	208		LCCAOPMFV	969	
LCCA OIHR1	208		LCCAOPST	5F0	
LCCA OIHR2	209		LCCAOPPER	93	80
LCCA OIHR3	20A		LCCAOPPRI	9F4	
LCCA OIHR4	20B		LCCAOPPR2	24F	
LCCA OINGR	1E0		LCCAOPPSW	88	
LCCA OINT	20C	02	LCCAOPPS1	6B0	
LCCA OIOC3	560		LCCAOPPS3	750	
LCCA OIOC4	564		LCCAOPPS5	9B0	
LCCA OIOR1	2E4		LCCAOPRMW	53C	
LCCA OIOR2	2E8		LCCAOPRTN	544	
LCCA OIOR3	2EC		LCCAOPSB2	61C	
LCCA OIOSS	55C		LCCAOPSB5	924	
LCCA OIOWA	2E0		LCCAOPSLI	700	
LCCA OIOMX	55C		LCCAOPSMK	21E	
LCCA OLCCAO	0		LCCAOPSTD	97	
LCCA OLCCX	28C		LCCAOPSTF	97	03
LCCA OLCR0	2B0		LCCAOPSTL	9BF	
LCCA OLCSR	290		LCCAOPST5	9BF	03
LCCA OLKFG	2B6		LCCAOPSW3	1D8	
LCCA OLKG1	3E8		LCCAOPTCB	540	
LCCA OLKG2	430		LCCAOPTE1	6BC	
LCCA OLKRD	2B6	10	LCCAOPTE3	75C	
LCCA OLLOCK	20C	20	LCCAOPTE5	9BC	
LCCA OLSDP	624		LCCAOPTR1	24C	
LCCA OLSHD	748		LCCAOPTR2	24D	
LCCA OLSHP	74C		LCCAOPTR3	24E	
LCCA OLSSD	620		LCCAOPTR5	968	
LCCA OLWTM	2C0		LCCAOPVAD	94	

IHALCCAO Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
LCCAOPVXM	94	80	LCCAOP2A9	104	
LCCAOPWEB	220		LCCAOP2CA	18C	
LCCAOPXM1	300		LCCAOP2CB	190	
LCCAOPXM2	170		LCCAOP2CC	194	
LCCAOPXM3	830		LCCAOP2CD	198	
LCCAOPXM4	870		LCCAOP2CE	19C	
LCCAOPXM5	978		LCCAOP2CF	1A0	
LCCAOPX1A	304		LCCAOP2C0	164	
LCCAOPX1K	300		LCCAOP2C1	168	
LCCAOPX1P	306		LCCAOP2C2	16C	
LCCAOPX1S	302		LCCAOP2C3	170	
LCCAOPX2A	174		LCCAOP2C4	174	
LCCAOPX2K	170		LCCAOP2C5	178	
LCCAOPX2P	176		LCCAOP2C6	17C	
LCCAOPX2S	172		LCCAOP2C7	180	
LCCAOPX3A	834		LCCAOP2C8	184	
LCCAOPX3K	830		LCCAOP2C9	188	
LCCAOPX3P	836		LCCAOP3AA	658	
LCCAOPX3S	832		LCCAOP3AB	65C	
LCCAOPX4A	874		LCCAOP3AC	660	
LCCAOPX4K	870		LCCAOP3AD	664	
LCCAOPX4P	876		LCCAOP3AE	668	
LCCAOPX4S	872		LCCAOP3AF	66C	
LCCAOPX5A	97C		LCCAOP3A0	630	
LCCAOPX5K	978		LCCAOP3A1	634	
LCCAOPX5P	97E		LCCAOP3A2	638	
LCCAOPX5S	97A		LCCAOP3A3	63C	
LCCAOP1AA	788		LCCAOP3A4	640	
LCCAOP1AB	78C		LCCAOP3A5	644	
LCCAOP1AC	790		LCCAOP3A6	648	
LCCAOP1AD	794		LCCAOP3A7	64C	
LCCAOP1AE	798		LCCAOP3A8	650	
LCCAOP1AF	79C		LCCAOP3A9	654	
LCCAOP1A0	760		LCCAOP3CA	84C	
LCCAOP1A1	764		LCCAOP3CB	850	
LCCAOP1A2	768		LCCAOP3CC	854	
LCCAOP1A3	76C		LCCAOP3CD	858	
LCCAOP1A4	770		LCCAOP3CE	85C	
LCCAOP1A5	774		LCCAOP3CF	860	
LCCAOP1A6	778		LCCAOP3C0	824	
LCCAOP1A7	77C		LCCAOP3C1	828	
LCCAOP1A8	780		LCCAOP3C2	82C	
LCCAOP1A9	784		LCCAOP3C3	830	
LCCAOP1CA	31C		LCCAOP3C4	834	
LCCAOP1CB	320		LCCAOP3C5	838	
LCCAOP1CC	324		LCCAOP3C6	83C	
LCCAOP1CD	328		LCCAOP3C7	840	
LCCAOP1CE	32C		LCCAOP3C8	844	
LCCAOP1CF	330		LCCAOP3C9	848	
LCCAOP1C0	2F4		LCCAOP4AA	7C8	
LCCAOP1C1	2F8		LCCAOP4AB	7CC	
LCCAOP1C2	2FC		LCCAOP4AC	7D0	
LCCAOP1C3	300		LCCAOP4AD	7D4	
LCCAOP1C4	304		LCCAOP4AE	7D8	
LCCAOP1C5	308		LCCAOP4AF	7DC	
LCCAOP1C6	30C		LCCAOP4A0	7A0	
LCCAOP1C7	310		LCCAOP4A1	7A4	
LCCAOP1C8	314		LCCAOP4A2	7A8	
LCCAOP1C9	318		LCCAOP4A3	7AC	
LCCAOP2AA	108		LCCAOP4A4	7B0	
LCCAOP2AB	10C		LCCAOP4A5	7B4	
LCCAOP2AC	110		LCCAOP4A6	7B8	
LCCAOP2AD	114		LCCAOP4A7	7BC	
LCCAOP2AE	118		LCCAOP4A8	7C0	
LCCAOP2AF	11C		LCCAOP4A9	7C4	
LCCAOP2A0	E0		LCCAOP4CA	88C	
LCCAOP2A1	E4		LCCAOP4CB	890	
LCCAOP2A2	E8		LCCAOP4CC	894	
LCCAOP2A3	EC		LCCAOP4CD	898	
LCCAOP2A4	F0		LCCAOP4CE	89C	
LCCAOP2A5	F4		LCCAOP4CF	8A0	
LCCAOP2A6	F8		LCCAOP4C0	864	
LCCAOP2A7	FC		LCCAOP4C1	868	
LCCAOP2A8	100		LCCAOP4C2	86C	

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
LCCAOP4C3	870		LCCAOREAX	8C4	
LCCAOP4C4	874		LCCAORES1	50C	
LCCAOP4C5	878		LCCAORES2	528	
LCCAOP4C6	87C		LCCAORSGR	120	
LCCAOP4C7	880		LCCAORSME	50C	
LCCAOP4C8	884		LCCAORMSK	509	
LCCAOP4C9	888		LCCAORSTP	2B8	40
LCCAOP5AA	950		LCCAORSTR	20C	08
LCCAOP5AB	954		LCCAORSWS	224	80
LCCAOP5AC	958		LCCAORWEB	5EC	
LCCAOP5AD	95C		LCCAORWLK	5EC	80
LCCAOP5AE	960		LCCAORWQL	37C	
LCCAOP5AF	964		LCCAORXMR	8B0	
LCCAOP5A0	928		LCCAORXRA	8B4	
LCCAOP5A1	92C		LCCAORXRK	8B0	
LCCAOP5A2	930		LCCAORXRP	8B6	
LCCAOP5A3	934		LCCAORXRS	8B2	
LCCAOP5A4	938		LCCAOR1A4	1A4	
LCCAOP5A5	93C		LCCAOR2DC	2DC	
LCCAOP5A6	940		LCCAOR2F0	2F0	
LCCAOP5A7	944		LCCAOR265	265	
LCCAOP5A8	948		LCCAOR270	270	
LCCAOP5A9	94C		LCCAOR35C	35C	
LCCAOP5CA	994		LCCAOR370	370	
LCCAOP5CB	998		LCCAOR820	820	
LCCAOP5CC	99C		LCCAOSAFN	2D0	
LCCAOP5CD	9A0		LCCAOSCFL	21F	
LCCAOP5CE	9A4		LCCAOSCSA	4C0	
LCCAOP5CF	9A8		LCCAOSCW1	3D8	
LCCAOP5C0	96C		LCCAOSCW2	3DC	
LCCAOP5C1	970		LCCAOSDUR	3CC	
LCCAOP5C2	974		LCCAOSDUV	3C8	
LCCAOP5C3	978		LCCAOSGPR	380	
LCCAOP5C4	97C		LCCAOSIGS	20C	80
LCCAOP5C5	980		LCCAOSLEB	2B8	
LCCAOP5C6	984		LCCAOSLE1	2B8	
LCCAOP5C7	988		LCCAOSLE2	2B9	
LCCAOP5C8	98C		LCCAOSLIP	2BC	
LCCAOP5C9	990		LCCAOSLSA	5AC	
LCCAORARA	808		LCCAOSMQJ	360	
LCCAORARB	80C		LCCAOSMSK	508	
LCCAORARC	810		LCCAOSOPI	97	04
LCCAORARD	814		LCCAOSPIN	20C	
LCCAORARE	818		LCCAOSPLJ	364	
LCCAORARF	81C		LCCAOSPN1	20C	
LCCAORARS	7E0		LCCAOSPN2	20D	
LCCAORAR0	7E0		LCCAOSPN3	20E	
LCCAORAR1	7E4		LCCAOSPN4	20F	
LCCAORAR2	7E8		LCCAOSPSW	534	
LCCAORAR3	7EC		LCCAOSRBF	2D0	
LCCAORAR4	7F0		LCCAOSRBJ	2A0	
LCCAORAR5	7F4		LCCAOSRBM	21D	80
LCCAORAR6	7F8		LCCAOSREG	4D4	
LCCAORAR7	7FC		LCCAOSRGS	538	
LCCAORAR8	800		LCCAOSRSA	550	
LCCAORAR9	804		LCCAOSRTK	554	
LCCAORCPU	2A8		LCCAOSRXM	550	
LCCAORCRA	8CC		LCCAOSSA2	2C8	
LCCAORCRB	8D0		LCCAOSSA5	2CC	
LCCAORCRC	8D4		LCCAOSSRB	21D	20
LCCAORCRD	8D8		LCCAOSSTA	2D8	40
LCCAORCRE	8DC		LCCAOSSTD	2D8	80
LCCAORCRF	8E0		LCCAOSSTE	2D8	20
LCCAORCRS	8A4		LCCAOSTAS	20D	10
LCCAORCR0	8A4		LCCAOSTCP	2B8	80
LCCAORCR1	8A8		LCCAOSTCT	264	
LCCAORCR2	8AC		LCCAOSTG1	478	
LCCAORCR3	8B0		LCCAOSTST	20D	04
LCCAORCR4	8B4		LCCAOSVC6	21C	04
LCCAORCR5	8B8		LCCAOSXLS	20D	02
LCCAORCR6	8BC		LCCAOSXMR	3E0	
LCCAORCR7	8C0		LCCAOTCAC	50B	40
LCCAORCR8	8C4		LCCAOTCFB	50B	
LCCAORCR9	8C8		LCCAOTCR0	250	

IHALCCAO Cross Reference

Name	Hex Offset	Hex Value
LCCAOTCTL	50B	80
LCCAOTCT2	21C	02
LCCAOTIMR	21C	10
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
LCCAOTOD	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
LCCAOTIM	628	

IHALCCX Information

IHALCCX Programming Interface information

Programming Interface information

IHALCCX

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

- LCCX_Sigp_Count_Addr
- LCCX_SystrcBuf_Count
- LCCX_TimeParked
- LCCX_TimerDIE_CPUTime
- LCCXECCC

End of Programming Interface information

IHALCCX Heading Information • IHALCCX Map

IHALCCX Heading Information

Common Name: Extended Status Saving Work Area
Macro ID: IHALCCX
DSECT Name: LCCX
Owning Component: Supervisor Control (SC1C5)
Eye-Catcher ID:
 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 Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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
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 LCCAPPS2
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	

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
1088	(440)	CHARACTER	16	LCCXTXPPSW16_1	64-bit reg low halves
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

IHALCCX Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1480	(5C8)	CHARACTER	8	LCCXLCCAPCR5_1	CR1
1480	(5C8)	CHARACTER	4	LCCXLCCAPCR5_1H	CR 1 high half
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	
1608	(648)	CHARACTER	8	LCCXLCCARCR_1	CR0
1616	(650)	CHARACTER	8	LCCXLCCARCR_2	CR1
1624	(658)	CHARACTER	16	LCCXLCCARCR_XM	CR2
1624	(658)	CHARACTER	8	LCCXLCCARCR_3	CR3/4

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
1624	(658)	CHARACTER	4	LCCXLCCARCR_3H	CR3
1628	(65C)	CHARACTER	4	LCCXLCCARCR_3L	CR3 high half
1628	(65C)	CHARACTER	2	LCCXLCCARCR_3KM	CR3 low half
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
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	
1732	(6C4)	CHARACTER	8	LCCXR6C4	Acronym
1740	(6CC)	UNSIGNED	2	LCCX_RR_COUNT_DOWN	Reserved
					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	LCCXLCCAPERC	
1744	(6D0)	CHARACTER	8	LCCXLCCAPERA	PER code
1744	(6D0)	CHARACTER	4	LCCXLCCAPERAO3	PER address
					PER address 0-3
1748	(6D4)	ADDRESS	4	LCCXLCCAPERA47	
					PER address 4-7
1752	(6D8)	CHARACTER	8	LCCXLCCAPVAD	
1760	(6E0)	CHARACTER	8	LCCXLCCAPTE1	Translation exception address (from 168-175)
1768	(6E8)	CHARACTER	8	LCCXLCCAPTE3	Translation exception address analogous to LCCAPTE1
1776	(6F0)	CHARACTER	8	LCCXLCCAPTE5	Translation exception address analogous to LCCAPTE3
1784	(6F8)	CHARACTER	16	LCCXLCCASRXM	Translation exception address analogous to LCCAPTE5
					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
1804	(70C)	CHARACTER	4	LCCXR70C	skip so that the next field is on a dword
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.

IHALCCX Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1852	(73C)	UNSIGNED	4	LCCX_BASE_SPIN_DIAG	Base value, set by WLM.
1856	(740)	CHARACTER	8	LCCX_NATIVE_CPU_TIME (4294967300:562114560)	Normalized CPU time for work intended to run on this CPU in timer units.
1888	(760)	CHARACTER	8	LCCX_NATIVE_BASE_CPU_TIME (4294967300:562114560)	Base value, set by WLM.
1920	(780)	ADDRESS	4	LCCXAWUQ	Pointer to AWUQ 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)	CHARACTER	4	LCCX_DIAG7B4	For IBM Use only
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)	CHARACTER	8	LCCX_DIAG7D8	Reserved for IBM use only
2016	(7E0)	CHARACTER	72	LCCXR7E0	Reserved 110@LBD
2088	(828)	CHARACTER	8	LCCXTOBPWAE	
2088	(828)	SIGNED	4	LCCXTOBPWAW0	Part of LccxTobPWAE
2092	(82C)	SIGNED	4	LCCXTOBPWAW1	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 00000000: 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_Byt_Size
2160	(870)	CHARACTER	104	LCCXR870	Reserved
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	

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
2320	(910)	CHARACTER	8	LCCX_TIMEPARKED_OFFICIAL	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
2328	(918)	CHARACTER	8	LCCX_TOD_CPU_PARKED	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
2336	(920)	CHARACTER	8	LCCX_TOD_CPU_UNPARKED	A timestamp when this CPU was last parked
2344	(928)	UNSIGNED	2	LCCX_MINOR_HPWUQ_COUNT_DOWN	A timestamp when this CPU was last unparked
2346	(92A)	UNSIGNED	2	LCCX_MINOR_HPWUQ_COUNT_DOWN_FROM	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.
2348	(92C)	UNSIGNED	2	LCCX_NORMAL_TO_SHORT_MINOR_CONV	In VCM=YES the value to initialize LCCX_Minor_HPWUQ_Count_Down to when the countdown reaches 0
2350	(92E)	CHARACTER	2	LCCXR92E	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.
2352	(930)	CHARACTER	8	LCCX_ENTITLE_WITHDRAWN	Reserved
2360	(938)	SIGNED	4	LCCX_NHTM_BASE_ENTITLE	Amount of time that this zIIP may use to run CP work
2364	(93C)	UNSIGNED	2	LCCX_RELUCTANT_HELP_COUNTDOWN	The NHTM timer value for entitlement
2366	(93E)	CHARACTER	2	LCCXR93E	When this CPU is reluctantly helping, the number of times to give help serially before helping concurrently
2368	(940)	CHARACTER	8	LCCX_TIMERDIE_CPUTIME	Reserved
2376	(948)	UNSIGNED	8	LCCX_SYSTRCBUF_COUNT	Accumulated time
2384	(950)	CHARACTER	256	LCCX_DIAG950	System trace buffer counts
2640	(A50)	CHARACTER	0	LCCX_END	Do not add new fields after Diag950 until Diag950 has moved to DiagA00. Instead, add before Diag950, rename Diag950, and recompile users of Diag950.
					End of mapping

IHALCCX Constants

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

IHALCCX Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
LCCX	0		LCCX_DIAG7D8	7D8	
LCCX_BASE_CPU_YIELD	78C		LCCX_DIAG950	950	
LCCX_BASE_SPIN_DIAG	73C		LCCX_END	A50	
LCCX_BASE_WAIT_TIME	798		LCCX_ENTITLE_WITHDRAWN	930	
LCCX_CPU_EXCLUDED_ADDR	7A8		LCCX_GENERIC_HELP_TOKEN	790	
LCCX_CPU_EXCLUDED_BITMASK_SUMMARY	7B0		LCCX_GH_LEVEL	86C	
LCCX_CPU_EXCLUDED_PARTIAL_ADDR	7AC		LCCX_MINOR_HPWUQ_COUNT_DOWN	928	
LCCX_CPU_YIELD	788		LCCX_MINOR_HPWUQ_COUNT_DOWN_FROM	92A	
LCCX_DIAG7B4	7B4		LCCX_NATIVE_BASE_CPU_TIME	760	
			LCCX_NATIVE_CPU_TIME		

IHALCCX Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
LCCX_NH_SAVEAREA	740		LCCXLCCAPCR4_1	548	
LCCX_NHLP_OTHER_CTRS_ADDR	860		LCCXLCCAPCR4_2	550	
LCCX_NHTM_AT_RCAL_UPDATE	7C8		LCCXLCCAPCR4_3	558	
LCCX_NHTM_BASE_ENTITLE	868		LCCXLCCAPCR4_4	560	
LCCX_NORMAL_TO_SHORT_MINOR_CONV	938		LCCXLCCAPCR4_5	568	
LCCX_PERFINSTBB_ADDR	92C		LCCXLCCAPCR4_6	570	
LCCX_PREV_OTHER_CTRS_ADDR	7C0		LCCXLCCAPCR4_7	578	
LCCX_RELUCTANT_HELP_COUNTDOWN	7CC		LCCXLCCAPCR4_8	580	
LCCX_RR_COUNT_DOWN	93C		LCCXLCCAPCR4_8H	580	
LCCX_SIGP_BLOCK_ADDR	6CC		LCCXLCCAPCR4_8L	580	
LCCX_SIGP_COUNT_ADDR	7C4		LCCXLCCAPCR4_9	584	
LCCX_SPIN_DIAG	7A0		LCCXLCCAPCR5	588	
LCCX_TIMEPARKED	738		LCCXLCCAPCR5_A	5C0	
LCCX_SYSTRCBUF_COUNT	948		LCCXLCCAPCR5_AX	610	
LCCX_TIMEPARKED_OFFICIAL	908		LCCXLCCAPCR5_B	5E4	
LCCX_TIMERDIE_CPUTIME	910		LCCXLCCAPCR5_C	618	
LCCX_TOD_CPU_PARKED	940		LCCXLCCAPCR5_D	620	
LCCX_TOD_CPU_UNPARKED	918		LCCXLCCAPCR5_E	628	
LCCX_TOD_WTI_END	920		LCCXLCCAPCR5_EAX	630	
LCCX_TOD_WTI_START	900		LCCXLCCAPCR5_F	604	
LCCXAWUQ	8F8		LCCXLCCAPCR5_FH	638	
LCCXECCC	780		LCCXLCCAPCR5_FL	638	
LCCXECCC_PREV	7D0		LCCXLCCAPCR5_KM	63C	
LCCXFPAWA	7D4		LCCXLCCAPCR5_PASID	5DC	
LCCXID	0		LCCXLCCAPCR5_PINS	5E6	
LCCXLCCAPCR4	6C0		LCCXLCCAPCR5_SASID	5E0	
LCCXLCCAPCR4_A	540		LCCXLCCAPCR5_SINS	5DE	
LCCXLCCAPCR4_B	590		LCCXLCCAPCR5_XM	5D8	
LCCXLCCAPCR4_C	598		LCCXLCCAPCR5_0	5A0	
LCCXLCCAPCR4_D	5A0		LCCXLCCAPCR5_0H	5B0	
LCCXLCCAPCR4_E	5A8		LCCXLCCAPCR5_0L	5C0	
LCCXLCCAPCR4_EAX	5B0		LCCXLCCAPCR5_1	5C4	
LCCXLCCAPCR4_F	584		LCCXLCCAPCR5_1H	5C8	
LCCXLCCAPCR4_FH	5B8		LCCXLCCAPCR5_1L	5D0	
LCCXLCCAPCR4_FL	5B8		LCCXLCCAPCR5_2	5CC	
LCCXLCCAPCR4_XM	5BC		LCCXLCCAPCR5_2H	5D0	
LCCXLCCAPCR4_0	558		LCCXLCCAPCR5_2L	5D0	
LCCXLCCAPCR4_0H	540		LCCXLCCAPCR5_3	5D4	
LCCXLCCAPCR4_0L	540				
	544				

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
LCCXLCCAPCR5_4	5D8		LCCXLCCARCR_3KM	658	
LCCXLCCAPCR5_5	5E0		LCCXLCCARCR_3L	65C	
LCCXLCCAPCR5_5H	5E8		LCCXLCCARCR_3SASID	65C	
LCCXLCCAPCR5_5L	5E8		LCCXLCCARCR_4	65E	
LCCXLCCAPCR5_6	5EC		LCCXLCCARCR_4AX	660	
LCCXLCCAPCR5_7	5F0		LCCXLCCARCR_4H	664	
LCCXLCCAPCR5_7H	5F8		LCCXLCCARCR_4L	660	
LCCXLCCAPCR5_7L	5F8		LCCXLCCARCR_4PASID	664	
LCCXLCCAPCR5_8	5FC		LCCXLCCARCR_5	666	
LCCXLCCAPCR5_8H	600		LCCXLCCARCR_6	668	
LCCXLCCAPCR5_8L	600		LCCXLCCARCR_7	670	
LCCXLCCAPCR5_9	604		LCCXLCCARCR_8	678	
LCCXLCCAPERA	608		LCCXLCCARCR_8H	680	
LCCXLCCAPERAO3	6D0		LCCXLCCARCR_8L	680	
LCCXLCCAPERA47	6D0		LCCXLCCARCR_9	684	
LCCXLCCAPERC	6D4		LCCXLCCARCRS	688	
LCCXLCCAPTE1	6CE		LCCXLCCARG64H	640	
LCCXLCCAPTE3	6E0				
LCCXLCCAPTE5	6E8				
LCCXLCCAPVAD	6F0		LCCXLCCASRTK	340	
LCCXLCCAP64H1	6D8		LCCXLCCASRXM	700	
	200		LCCXLCCC	6F8	
LCCXLCCAP64H2	240		LCCXLCEB	7BC	
LCCXLCCAP64H3	280		LCCXNHQH	7B8	
LCCXLCCAP64H4	2C0		LCCXPHQH	718	
LCCXLCCAP64H5	300		LCCXPPSW16_1	710	
LCCXLCCARCR_A	690		LCCXPPSW16_2	380	
LCCXLCCARCR_B	698		LCCXPPSW16_3	390	
LCCXLCCARCR_C	6A0		LCCXPPSW16_5	3A0	
LCCXLCCARCR_D	6A8		LCCXRICAL	3B0	
LCCXLCCARCR_E	6B0		LCCXRSM	794	
LCCXLCCARCR_EAX	6B4		LCCXRSMQ	708	
LCCXLCCARCR_F	6B8		LCCXR4C0	708	
LCCXLCCARCR_FH	6B8		LCCXR490	4C0	
LCCXLCCARCR_FL	6BC		LCCXR6C4	490	
LCCXLCCARCR_XM	658		LCCXR7A4	6C4	
LCCXLCCARCR_0	658		LCCXR7E0	7A4	
LCCXLCCARCR_1	640		LCCXR70C	7E0	
LCCXLCCARCR_2	648		LCCXR720	70C	
LCCXLCCARCR_3	650		LCCXR8D8	720	
LCCXLCCARCR_3H	658		LCCXR830	8D8	
			LCCXR870	830	
			LCCXR92E	870	
			LCCXR93E	92E	
			LCCXTOPWAE	93E	
			LCCXTOPWAW0	828	
			LCCXTOPWAW1	828	
			LCCXTXPG641	82C	
			LCCXTXPG641_H	0	
			LCCXTXPG641_L	0	
			LCCXTXPG642	40	
			LCCXTXPG642_H	80	
			LCCXTXPG642_L	80	
			LCCXTXPG643	C0	
			LCCXTXPG643_H	100	

IHALCCX Cross Reference

Name	Hex Offset	Hex Value
LCCXTXPG643_L	100	
LCCXTXPG644	140	
LCCXTXPG644_H	180	
LCCXTXPG644_L	180	
LCCXTXPG645	1C0	
LCCXTXPG645_H	3C0	
LCCXTXPG645_L	3C0	
LCCXTXPPSW16_1	400	
LCCXTXPPSW16_2	440	
LCCXTXPPSW16_3	450	
LCCXTXPPSW16_4	460	
LCCXTXPPSW16_5	470	
LCCXWUQ	480	
	784	

IHALCCXO Information

IHALCCXO Heading Information

Common Name: Extended Status Saving Work Area
Macro ID: IHALCCXO
DSECT Name: LCCXO
Owning Component: Supervisor Control (SC1C5)
Eye-Catcher ID:
 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 Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	1824	LCCXO	
0	(0)	CHARACTER	512	LCCXOFPWA	The FPWA is mapped here
512	(200)	CHARACTER	64	LCCXOLCCAP64H1	Program FLIH recursion 64-bit GPR high-order half savearea 1
576	(240)	CHARACTER	64	LCCXOLCCAP64H2	Program FLIH mainline 64-bit GPR high-order half savearea 2
640	(280)	CHARACTER	64	LCCXOLCCAP64H3	Program FLIH recursion MC access 64-bit GPR high-order half savearea 3
704	(2C0)	CHARACTER	64	LCCXOLCCAP64H4	Program FLIH 64-bit GPR high-order half savearea 4
768	(300)	CHARACTER	64	LCCXOLCCAP64H5	Program FLIH recursion 64-bit GPR high-order half savearea 5
832	(340)	CHARACTER	64	LCCXOLCCARG64H	Restart FLIH 64-bit GPR high-order half savearea
896	(380)	CHARACTER	64	LCCXOR380	Reserved
960	(3C0)	CHARACTER	128	LCCXOLCCAPCR1	8-byte CRs
1088	(440)	CHARACTER	128	LCCXOLCCAPCR2	8-byte CRs
1216	(4C0)	CHARACTER	128	LCCXOLCCAPCR3	8-byte CRs
1344	(540)	CHARACTER	128	LCCXOLCCAPCR4	8-byte CRs
1472	(5C0)	CHARACTER	128	LCCXOLCCAPCR5	8-byte CRs
1600	(640)	CHARACTER	128	LCCXOLCCARCRS	8-byte CRs
1728	(6C0)	CHARACTER	4	LCCXOID	Acronym
1732	(6C4)	CHARACTER	4	*	Reserved
1736	(6C8)	CHARACTER	6	*	Reserved
1742	(6CE)	CHARACTER	2	LCCXOLCCAPERC	PER code
1744	(6D0)	CHARACTER	8	LCCXOLCCAPERA	PER address
1744	(6D0)	CHARACTER	4	LCCXOLCCAPERAO3	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

IHALCCXO Constants

Len	Type	Value	Name	Description
4	CHARACTER	LCCX	LCCXOIDCHARS	

IHALCCXO Cross Reference

Name	Hex Offset	Hex Value
LCCXO	0	0
LCCXOFPWA	0	0
LCCXOID	6C0	6C0
LCCXOLCCAPCR1	3C0	3C0
LCCXOLCCAPCR2	440	440
LCCXOLCCAPCR3	4C0	4C0
LCCXOLCCAPCR4	540	540
LCCXOLCCAPCR5	5C0	5C0
LCCXOLCCAPERA	6D0	6D0
LCCXOLCCAPERA03	6D0	6D0
LCCXOLCCAPERA47	6D4	6D4
LCCXOLCCAPERC	6CE	6CE
LCCXOLCCAPTE1	6E0	6E0
LCCXOLCCAPTE3	6E8	6E8
LCCXOLCCAPTE5	6F0	6F0
LCCXOLCCAPVAD	6D8	6D8
LCCXOLCCAP64H1	200	200
LCCXOLCCAP64H2	240	240
LCCXOLCCAP64H3	280	280
LCCXOLCCAP64H4	2C0	2C0
LCCXOLCCAP64H5	300	300
LCCXOLCCARCRS	640	640
LCCXOLCCARG64H	340	340
LCCXOR380	380	380

IHALCCXT Information

IHALCCXT Heading Information

Common Name: LCCA Extension (LCCX) Vector Table
Macro ID: IHALCCXT
DSECT Name: LCCXVT
Owning Component: Supervisor Control (SC1C5)
Eye-Catcher ID: LCCXVT
 Offset: ???????
 Length: ???????
Storage Attributes: Subpool: 245
 Key: 0
Size: CVTMAXMP+1 LCCXT00P Entries
Created by: IEAVNIP0
Pointed to by: ECVTLCXT field of the ECVT data area
Serialization: None
Function: Contains address of LCCX for each processor.

IHALCCXT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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 Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
LCCXTEND	200		LCCXT32_63P	80	
LCCXT00P	0		LCCXT64_127P	100	
LCCXT01P	4		LCCXVT	0	
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				

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 LFTE -- X'0004' bytes
Size:	
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 ascbtov (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

IHALFTE Map

IHALFTE Constants

Len	Type	Value	Name	Description
4	HEX	7FFFFF00	LFTTELSTR_MASK	
4	HEX	80000000	LFTEINVALID_MASK	
4	DECIMAL	64	LFTEPERLFTUNIT	
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	LFTEPERLFT	
4	DECIMAL	4096	LFTLEN	We always get 1-page for the LFT. Architecturally, it could be larger, but we do not support that.

IHALOCKI Information

IHALOCKI Programming Interface information

Programming Interface information

IHALOCKI

End of Programming Interface information

IHALOCKI Heading Information • IHALOCKI Map

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 Map

Offsets					
Dec	Hex	Type/Value	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 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	

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
32	(20)	X'1'	0	LOCKINST_LOCKTYPE_MIN	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.
					"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"

Offsets

Dec	Hex	Type/Value	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
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	

IHALOCKI Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
32	(20)	CHARACTER	8	LOCKINST_UNIQ_CML_CONT_TIME	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 + LocInst_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.
40	(28)	SIGNED	8	LOCKINST_UNIQ_CML_SUSPENDS_SRC	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 Wn represents the time each unit of work was suspended, this field contains: W1 + W2 + W3 + ... + Wn. 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.
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. 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
56	(38)	CHARACTER	8	LOCKINST_UNIQ_CML_CONT_TIME_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)	X'5'	0	LOCKINST_UNIQ_LOCKTYPE_MIN	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_LOCAL	"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_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	"CLKUN"
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"

IHALOCKI Cross Reference

Name	Hex Offset	Hex Value
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	0
LOCKINST_COMM_ACRONYM	0	0
LOCKINST_COMM_ACRONYM_CHARS	20	D2C3D4
LOCKINST_COMM_ALREADY_SUSPENDED	18	
LOCKINST_COMM_CONT_TIME	20	
LOCKINST_COMM_CURR_VERSION_NUMBER	20	1
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_SMFCMS	20	1
LOCKINST_UNIQ_CML	0	0
LOCKINST_UNIQ_CML_ACRONYM	0	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	

Name	Hex Offset	Hex Value
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

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.

IHALSTE Map

IHALSTE Constants

Len	Type	Value	Name	Description
4	HEX	7FFFFFC0	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	
4	DECIMAL	256	LSTBOUNDARY	LST must be on a 2**8 (256) byte boundary LST must be on a 2**8 (256) byte boundary

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
ASCBLOV (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 Map

Offsets					
Dec	Hex	Type/Value	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

IHAPPR Information

IHAPPR Programming Interface information

Programming Interface information

IHAPPR

End of Programming Interface information

IHAPPR Heading Information • IHAPPR Map

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 Map

Offsets

Dec	Hex	Type/Value	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.

Comment

Bit definitions:

				End of Comment
4	(4)	SIGNED	1...	PPR_IS_WAIT "X'80'" Set when the wait task is dispatched
			2	PPR_HOME_ASID The home ASID of the work unit

Comment

Bit definitions:

				End of Comment
6	(6)	SIGNED	1...	PPR_IS_SRBC "X'80'" Set when the work unit dispatched is an SRB.
6	(6)	X'8'	2	PPR_TOKEN A pseudo-unique identifier for this work unit.

Comment

IHAPRD Information

IHAPRD Programming Interface information

Programming Interface information

IHAPRD

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

- PRDADSSO
- PRDTTCH

End of Programming Interface information

IHAPRD Heading Information • IHAPRD Map

IHAPRD Heading Information

Common Name: Dump Header mapping for SVC Dump
Macro ID: IHAPRD
DSECT Name: PRDINPUT
Owning Component: SVC Dump (SCDM)
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 Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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	PRDPSEL	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 PRDSDRSN
160	(A0)	CHARACTER	16	PRDSDRSN	SVC Dump reason code (only for SVC dump captured dumps)
176	(B0)	SIGNED	4	PRDSDBLK	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
200	(C8)	CHARACTER	2	PRDPRODM	Product modification
202	(CA)	CHARACTER	1	PRDPRODD	Product development level
203	(CB)	CHARACTER	55		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

Comment

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

End of Comment					
296	(128)	CHARACTER	16	PRDOFSET (0)	OFFSETS
296	(128)	SIGNED	2	PRDSDMPO	OFFSET OF SDUMP/SYMDUMP COMMON SECTION
298	(12A)	SIGNED	2	PRDSDMPL	LENGTH OF COMMON SECTION
300	(12C)	SIGNED	2	PRDSLPO	OFFSET OF SLIP SECTION
302	(12E)	SIGNED	2	PRDSLPL	LENGTH OF SLIP SECTION
304	(130)	SIGNED	2	PRDSYSMO	OFFSET OF SYMDUMP SECTION
306	(132)	SIGNED	2	PRDSYSML	LENGTH OF SYMDUMP SECTION
308	(134)	SIGNED	2	PRDSDWAO	OFFSET OF SDWA FOR THIS DUMP
310	(136)	SIGNED	2	PRDSDWAL	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

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PRDSDWAL	, SDWA FOR THIS DUMP

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PRDSDSM	,
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	PRDERRID	RESERVED
6	(6)	CHARACTER	10	PRDDSNAM	ERRORID ASSOCIATED WITH DUMP
16	(10)	CHARACTER	44	PRDXM (0)	DSN TO WHICH DUMP WAS TAKEN
60	(3C)	CHARACTER	18	PRDCML	CROSS MEMORY STATUS INFO WHEN SDUMP WAS INVOKED
60	(3C)	CHARACTER	4	PRDXMPSW	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	PRSDP0	OFFSET OF SVC DUMP PARM LIST
90	(5A)	SIGNED	2	PRSDPL	LENGTH OF SVC DUMP PARM LIST
92	(5C)	SIGNED	2	PRSDDOPO	OFFSET OF SDUMP OPTIONS LIST
94	(5E)	SIGNED	2	PRSDDPL	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

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PRSDP0	, SDUMP PARM LIST IN BITS

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PRSDOPS	, SDUMP OPTIONS IN BITS

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PRDSLIP	,
0	(0)	CHARACTER	8	PRDSLPSW	PSW WHEN SLIP WAS ENTERED
8	(8)	CHARACTER	8		Was PRDSLPC3/C4
16	(10)	CHARACTER	64	PRDSLGP	GPR'S WHEN SLIP WAS ENTERED
80	(50)	CHARACTER	64	PRDSLAR	ACCESS REGISTERS WHEN SLIP WAS ENTERED

IHAPRD Cross Reference

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
144	(90)	CHARACTER	64	(0)	Was PRDSLCSR
144	(90)	DBL WORD	8	PRDSLPC3	CONTROL REG 3
152	(98)	DBL WORD	8	PRDSLPC4	CONTROL REG 4
160	(A0)	CHARACTER	16	PRDSLPI6	16-byte PSW
176	(B0)	CHARACTER	32		Reserved
208	(D0)	CHARACTER	64	PRDSLGH	High halves of GPRs when SLIP was entered
272	(110)	CHARACTER	128	PRDSL64	ESAME CRs when SLIP WAS ENTERED

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PRDSYMD	,
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	48		Unused
220	(DC)	CHARACTER	16	PRDSMPSW16	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

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PRDINTKD	,
0	(0)	CHARACTER	32	PRDINTKN	Incident token

IHAPRD Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
PRDADSS0	102		PRDOFSET	128	
PRDAR	110		PRDPASID	48	
PRDCID	138		PRDPCPU@	16	
PRDCML	3C		PRDPMODL	14	
PRDCPU	10		PRDPROD	CA	
PRDCPUST	68		PRDPRODM	C8	
PRDCR	C8		PRDPRODN	B4	
PRDCSA	298		PRDPRODR	C6	
PRDCVT	0		PRDPRODV	C4	
PRDC64S	218		PRDPSAAD	54	
PRDDIDCO	64		PRDPSERL	11	
PRDDSNAM	10		PRDPSW	108	
PRDDSPB	7C		PRDPSW16	114	
PRDDSPE	84		PRDPVRSN	10	
PRDEPVT	29C		PRDREGS	68	
PRDERRID	6		PRDSADDR	50	
PRDFLG1	4		PRDSASID	4A	
PRDFPCR	1D0		PRDSDBLK	B0	
PRDFPR	150		PRDSDFWD	124	
PRDGPR	88		PRDSDMPL	12A	
PRDG64H	1D8		PRDSDMPO	128	
PRDHASID	4C		PRDSDOPL	5E	
PRDHJOBN	2A0		PRDSDOPO	5C	
PRDHVCO	2B8		PRDSDOPS	0	
PRDHVHP	2B0		PRDSDPL	5A	
PRDHVSS	2A8		PRDSDPM	0	
PRDINPUT	0		PRDSDPO	58	
PRDINTKD	0		PRDSDRSN	A0	
PRDINTKN	0		PRDSDSM	0	
PRDINTKO	16A		PRDSDWA	0	
PRDLGPRF	4	20	PRDSDWAL	136	
PRDME	4	80	PRDSDWAO	134	
PRDMESET	4	40	PRDSLAR	50	
PRDMGPRF	4	10	PRDSL64	110	
PRDMODNM	0		PRDSLGPR	10	

Name	Hex Offset	Hex Value
PRDSLG6H		D0
PRDSLIP		0
PRDSLPL		12E
PRDSLPO		12C
PRDSLPC3		90
PRDSLPC4		98
PRDSLPSW		0
PRDSL16		A0
PRDSMABD		0
PRDSMAR		6C
PRDSMC64		12C
PRDSMGPR		28
PRDSMG6H		EC
PRDSMLMA		14
PRDSMLMN		C
PRDSMLMO		18
PRDSMPDA		1C
PRDSMPSW		4
PRDSMPSW16		DC
PRDSMRSN		68
PRDSNAME		8C
PRDSYSMD		0
PRDSYML		132
PRDSYSMO		130
PRDTCB		60
PRDTITLE		18
PRDTODVL		8
PRDTTCH		54
PRDTTCH2		2C0
PRDVGPRF	4	40
PRDWASID		4E
PRDXM		3C
PRDXMPSW		40
PRDXMP16		104

IHAPSAE Information

IHAPSAE Programming Interface information

Programming Interface information

IHAPSAE

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

- FlceFacilitiesList

End of Programming Interface information

IHAPSAE Heading Information • IHAPSAE Map

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
IEAVNIP0
IEEVCPRA
Pointed to by: The PSAE maps the storage that starts at location 0 for the related processor.
Serialization: Disablement.
None needed for FlceFacilitiesList.
Function: Maps the z/Architecture format of the first page of the PSA.

This macro is automatically included when IHAPSA is included.

IHAPSAE Map

Offsets																																																																																																
Dec	Hex	Type/Value	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	FLCEEICODE	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																																																																																											
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Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
147	(93)	BITSTRING	1	FLCEDXC	FLCE 93x: Data exception code for PI 7
148	(94)	CHARACTER	2	FLCEMCNUM	FLCE 94x: Monitor class number
150	(96)	CHARACTER	2	FLCEPERCODE	FLCE 96x: PER code
150	(96)	BITSTRING	1	FLCEPERCODE0	FLCE 96x: Byte 0

Comment

Bit definitions:

					End of Comment
		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'"
151	(97)	BITSTRING	1	FLCEPERATMID	FLCE 97x: PER addressing and translation mode ID

Comment

Bit definitions:

					End of Comment
		1...		FLCEPERPSW4	"X'80'" FLCE 97x: PER PSW bit 4
		.1...		FLCEPERATMIDVALID	
		..1.		FLCEPERPSW32	"X'40'" FLCE 97x: When 1, the ATMID bits are valid
		...1		FLCEPERPSW5	"X'20'" FLCE 97x: PER PSW bit 32
		.... 1...		FLCEPERPSW16	"X'10'" FLCE 97x: PER PSW bit 5
		.... .1..		FLCEPERPSW17	"X'08'" FLCE 97x: PER PSW bit 16
		.... ...11		FLCEPERASCEID	"X'04'" FLCE 97x: PER PSW bit 17
					"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	FLCEEAIID	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

Comment

Bit definitions:

					End of Comment
		1...		FLCEEAIID0	"X'80'" Bit 0 of EAID. Zero
		.1...		FLCEEAIID1	"X'40'" Bit 1 of EAID. Zero
		..1.		FLCEEAIID2	"X'20'" Bit 2 of EAID. Set only when PIC 2C for PTI or for PASN translation on PR
		...1		FLCEEAIID3	"X'10'" Bit 3 of EAID. Set only when PIC 2C for SSAIR or for SASN translation on PR
		.... 1111		FLCEEAIID_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	FLCEAMID	FLCE A3x: Architecture mode ID (See FLCARCH in IHAPSAE)

Comment

Bit definitions:

					End of Comment
164	(A4)	.... ...1		FLCEOEME	"X'01'" Logout is Z/Architecture
168	(A8)	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		
174	(AE)	BITSTRING	1	FLCETEA6	FLCE AEx: Byte 6 of FlceTEA

IHAPSAE Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
Bit definitions:					
175	(AF)	BITSTRING	1	FLCETEA7	<p>.... 11.. FLCEAEFSI End of Comment "X'0C" Access-exception Fetch/Store indicator: 00 -- not determined. 01 -- store. 10 -- fetch. 11 -- reserved FLCE AFx: Byte 7 of FiceTEA</p>
Comment					
Bit definitions:					
168	(A8)	CHARACTER	8	FLCETEASNINFO	<p>.... 1... FLCEPEALC End of Comment "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</p>
168	(A8)	CHARACTER	6	FLCETEASN	FLCE AEx: ASN
174	(AE)	SIGNED	2	FLCETEPCINFO	FLCE A8x: PC Info
168	(A8)	CHARACTER	8	FLCEPCNUM	FLCE ACx: PC#. Bits 0-10 are 0, bit 11 is 1, and the PC# is in bits 12-31
168	(A8)	CHARACTER	4	FLCEMONITORCODE	FLCE B0x: Monitor Code
172	(AC)	SIGNED	4	FLCESSID	FLCE B8x: Subsystem ID word
176	(B0)	CHARACTER	8	FLCEIOINTPARM	FLCE BCx: I/O interruption parameter
184	(B8)	CHARACTER	4	FLCEIOINTID	FLCE C0x: I/O interruption ID
188	(BC)	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 128 bits, only the area mapped by IHAFACL will contain those additional bits
200	(C8)	BITSTRING	1	FLCEFACILITIESLISTBYTE0	FLCE C8x
Comment					
Bit definitions:					
201	(C9)	BITSTRING	1	FLCEZARCHN3	<p>1... End of Comment "X'80" Instructions marked "N3" in the instruction summary are available on the CPU in ESA/390 mode</p>
				FLCEESAMEN3	"X'80" Instructions marked "N3" in the instruction summary are available on the CPU in ESA/390 mode
				FLCEZARCHINSTALLED	"X'40" The z/Architecture mode is installed on the CPU
				FLCEESAMEINSTALLED	"X'40" The z/Architecture mode is installed on the CPU
				FLCEZARCH	"X'20" The z/Architecture mode is active on the CPU
				FLCEESAME	"X'20" The z/Architecture mode is active on the CPU
				FLCEIDTEINSTALLED	"X'10" IDTE is installed
				FLCEIDTECLEARINGCOMBINEDSEGMENT	"X'08" IDTE does clearing of combined entries upon segment-table entry invalidation
				FLCEIDTECLEARINGCOMBINEDREGION	"X'04" IDTE does clearing of combined entries upon region-table entry invalidation
				FLCEASNANDLXREUSEINSTALLED	"X'02" The ASN and LX reuse facility is installed on the CPU
				FLCESTFLE	"X'01" STFLE instruction is available
				FLCEFACILITIESLISTBYTE1	FLCE C9x

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
Bit definitions:					
End of Comment					
202	(CA)	BITSTRING	1	FLCEFACILITIESLISTBYTE2	FLCE DAT features
					"X'80'" DAT features
					FLCESENSERUNNINGSTATUS
					"X'40'" sense-running-status facility
					FLCECONDSSKEINSTALLED
					"X'20'" The conditional SSKE instruction is installed
					FLCECONFIGURATIONTOPOLOGY
					"X'10'" STSI-enhancement for configuration topology
					FLCECQCIF
					"X'08'" 110524
					FLCEIPTERANGE
					"X'04'" IPTE-range facility is installed
					FLCENONQKEYSETTING
					"X'02'" Nonquiescing key-setting facility is installed
					FLCEAPFT
					"X'01'" The APFT facility is installed / 091111
					FLCE CAx
Comment					
Bit definitions:					
End of Comment					
203	(CB)	BITSTRING	1	FLCEFACILITIESLISTBYTE3	FLCE Extended translation facility 2
					"X'80'" Extended translation facility 2 is present
					FLCECRYPTOASSIST
					"X'40'" The cryptographic assist is present
					FLCEMESSAGESECURITYASSIST
					"X'40'" The message security assist is present
					FLCELONGDISPLACEMENT
					"X'20'" The long displacement facility is installed in the z/Architecture mode
					FLCELONGDISPLACEMENTHP
					"X'10'" The long displacement facility has high performance. Bit FceLongDisplacement will also be on.
					FLCEHFPMAS
					"X'08'" The HFP Multiply add/subtract facility is installed
					FLCEEXTENDEDIMMEDIATE
					"X'04'" The extended immediate facility is installed in the z/Architecture mode
					FLCEETF3
					"X'02'" The extended transaction facility 3 is installed in the z/Architecture mode
					FLCEHFPUNNORMEXTENSION
					"X'01'" The HFP unnormalized extension facility is installed
					FLCE CBx
Comment					
Bit definitions:					
End of Comment					
204	(CC)	BITSTRING	1	FLCEFACILITIESLISTBYTE4	FLCE ETF2 enhancement
					"X'80'" ETF2 enhancement is present 031215
					FLCESTCKF
					"X'40'" STCKF enhancement is present
					FLCEPARSE
					"X'20'" Parsing enhancement facility is present
					FLCETCSF
					"X'08'" TOD clock steering facility
					FLCEETF3E
					"X'02'" ETF3 enhancement is present 040512
					FLCEECTF
					"X'01'" Extract Cpu Time facility
					FLCE CCx
Comment					
Bit definitions:					
End of Comment					
					FLCECSSF
					"X'80'" Compare-and-swap-and-store facility
					FLCECSSF2
					"X'40'" Compare-and-swap-and-store facility 2
					FLCEGENERALINSTEXTENSION
					"X'20'" General-Instructions- Extension Facility
					FLCEENHANCEDMONITOR
					"X'08'" The Enhanced Monitor facility is supported.
					FLCEOBSOLETECPUMEASUREMENT

IHAPSAE Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
205	(CD)	BITSTRING	1	FLCEFACILITIESLISTBYTE5 FLCE CDx	"X'01" Obsolete. Meant CPU-measurement facility supported. Use FlceCpuMeasurementCounter & FlceCpuMeasurementSampling
Comment					
Bit definitions:					
End of Comment					
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.... FLCEDFPFH "X'10" Decimal-floating-point facility high performance 1... FLCEPFPO "X'08" PFPO instruction 070424 .... .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					
Comment					
Bit definitions:					
End of Comment					
.1... FLCEMISINSTEXT "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 207 (CF) BITSTRING 1 FLCEFACILITIESLISTBYTE7 FLCE CFx 208 (D0) BITSTRING 1 FLCEFACILITIESLISTBYTE8 FLCE D0x bits 64-71					
Comment					
Bit definitions:					
End of Comment					
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..1. FLCEAEN "X'01" AEN facility, bit 71 209 (D1) BITSTRING 1 FLCEFACILITIESLISTBYTE9 FLCE D1x bits 72-79					
Comment					
Bit definitions:					
End of Comment					
1... FLCEAIS "X'80" AIS facility, bit 72 .1... FLCETRANSACTIONALExecution "X'40" Bit 73 - Transactional execution facility .... .1.. FLCEMSA4 "X'04" MSA4 facility, bit 77 .... .1..1. FLCEEDAT2 "X'02" Bit 78 - Enhanced Dat-2					

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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	
214	(D6)	BITSTRING	1	FLCEFACILITIESLISTBYTEE FLCE D6x	
215	(D7)	BITSTRING	1	FLCEFACILITIESLISTBYTEF FLCE D7x	
216	(D8)	CHARACTER	16	FLCER0D8	FLCE D8x: Reserved
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	FLCEROPOSW	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"

IHAPSAE Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
FLCEAEFSI	AE	C	FLCEDFPFH	CD	10
FLCEAEN	D0	1	FLCEDISTINCTOPERANDS		
FLCEAIS	D1	80	FLCEDXC	CD	4
FLCEAISI	D0	2	FLCEEAID	A0	
FLCEAMID	A3		FLCEEAID_ARNUM		
FLCEAPFT	C9	1			
FLCEASNANDLXREUSEINSTALLED					
	C8	2	FLCEEAID0	A0	F
FLCEBEA	110		FLCEEAID1	A0	80
FLCECMPEF	CD	1	FLCEEAID2	A0	40
FLCECONDSSKEINSTALLED			FLCEEAID3	A0	20
	C9	20	FLCEECTF	CB	1
FLCECONFIGURATIONTOPOLOGY			FLCEEDATFEAT	C9	80
	C9	10	FLCEEDAT2	D1	2
FLCECONSTRINEDTX			FLCEEDCODE	F4	
	CE	20	FLCEEECODE	86	
FLCECPUAD	84		FLCEEMFCTRARRAYADDR		
FLCECPUMEASUREMENTCOUNTER					
	D0	10	FLCEEMFCTRARRAYSIZE		
FLCECPUMEASUREMENTSAMPLING					
	D0	8	FLCEEMFEXCEPTIONCNT		
FLCEQCQIF	C9	8			
FLCECRYPTOAPQAI			FLCEENHANCEDMONITOR		
	D0	40			
FLCECRYPTOASSIST			FLCEENPSW	CC	8
	CA	40	FLCEEEOPSW	1B0	
FLCECSSF	CC	80	FLCEEPARM	130	
FLCECSSF2	CC	40	FLCEESAME	80	
FLCEDFPF	CD	20	FLCEESAMEINSTALLED	C8	20

IHAPSAE Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
FLCEESAMEN3	C8	40	FLCELONGDISPLACEMENTHP	CA	20
FLCEETF2	C8	80		CA	10
FLCEETF2E	CB	80	FLCEMCIC	E8	
FLCEETF3	CA	2	FLCEMCICE	F0	
FLCEETF3E	CB	2	FLCEMCNUM	94	
FLCEEXECUTIONHINT	CE	40	FLCEMESSAGESECURITYASSIST	CA	40
FLCEEXTENDEDIMMEDIATE	CA	4	FLCEMISINSTEXT	CE	40
FLCEFACILITIESLIST	C8		FLCEMNPSW	1E0	
FLCEFACILITIESLISTBYTEA	D2		FLCEMONITORCODE	B0	
FLCEFACILITIESLISTBYTEB	D3		FLCEMOPSW	160	
FLCEFACILITIESLISTBYTEC	D4		FLCEMPL	A4	
FLCEFACILITIESLISTBYTED	D5		FLCEMSA4	D1	4
FLCEFACILITIESLISTBYTEE	D6		FLCENONQKEYSETTING	C9	2
FLCEFACILITIESLISTBYTEF	D7		FLCEOBSOLETECPUMEASUREMENT	CC	1
FLCEFACILITIESLISTBYTE0	C8		FLCEOPACID	A2	
FLCEFACILITIESLISTBYTE1	C9		FLCEPARSE	CB	20
FLCEFACILITIESLISTBYTE2	CA		FLCEPCNUM	AC	
FLCEFACILITIESLISTBYTE3	CB		FLCEPDATA	8C	
FLCEFACILITIESLISTBYTE4	CC		FLCEPDATABYTE0		8C
FLCEFACILITIESLISTBYTE5	CD		FLCEPEALC	AF	8
FLCEFACILITIESLISTBYTE6	CE		FLCEPER	98	
FLCEFACILITIESLISTBYTE7	CF		FLCEPERAID	A1	
FLCEFACILITIESLISTBYTE8	D0		FLCEPERASCEID		97
FLCEFACILITIESLISTBYTE9	D1		FLCEPERATMID	97	3
FLCEFPSEF	CD	40	FLCEPERATMIDVALID		97
FLCEFSAA	F8		FLCEPERCODE	96	40
FLCEGENERALINSTEXTENSION	CC	20	FLCEPERCODE0	96	
FLCEHFPMAS	CA	8	FLCEPERIF	96	40
FLCEHFPUNNORMEXTENSION	CA	1	FLCEPERPSW16	97	8
FLCEHIGHWORD	CD	4	FLCEPERPSW17	97	4
FLCEICCW1	8		FLCEPERPSW32	97	20
FLCEICCW2	10		FLCEPERPSW4	97	80
FLCEIDTECLEARINGCOMBINEDREGION	C8	4	FLCEPERPSW5	97	10
FLCEIDTECLEARINGCOMBINEDSEGMENT	C8	8	FLCEPERSA	96	20
FLCEIDTEINSTALLED	C8	10	FLCEPERSAR	96	8
FLCEINPSW	1F0		FLCEPERSB	96	80
FLCEIOINTID	C0		FLCEPERTRANSACTIONEND		96
FLCEIOINTPARM	BC		FLCEPERW0	98	2
FLCEIOPSW	170		FLCEPERW1	9C	
FLCEIPPSW	0		FLCEPERZAD	96	4
FLCEIPTERANGE	C9	4	FLCEPFPO	CD	8
FLCELOADANDTRAP	CE	40	FLCEPICODE	8E	
FLCELOADSTOREONCONDITION	CD	4	FLCEPICODE0	8E	
FLCELOEME	A3	1	FLCEPICODE1	8F	
FLCELONGDISPLACEMENT			FLCEPIINFORMATION		90
			FLCEPILC	8D	
			FLCEPILCB	8D	7
			FLCEPIMC	8F	40
			FLCEPIPC	8F	3F
			FLCEPIPER	8F	80
			FLCEPNPSW	1D0	
			FLCEPOPSW	150	
			FLCEPOPULATIONCOUNT		
			FLCERI	CD	4
			FLCERNPSW	D0	80
			FLCEROPSW	1A0	
			FLCER0C4	120	
			FLCER0D8	C4	
			FLCER018	D8	
			FLCER118	18	
			FLCER180	118	
			FLCESAME	180	
				0	

Name	Hex Offset	Hex Value
FLCESAME_LEN	1F0	200
FLCESCLP	D0	4
FLCESDATA	88	
FLCESDATABYTE0		88
FLCESENSERUNNINGSTATUS	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
FLCETEA6	AE	
FLCETEA7	AF	
FLCETEID	A8	
FLCETEPCINFO	A8	
FLCETRANSACTIONALEXECUTION	D1	40
FLCEZARCH	C8	20
FLCEZARCHINSTALLED		C8
		40
FLCEZARCHN3	C8	80

IHAPSAX Information

IHAPSAX Heading Information

Common Name: PSA Extension (ESAME)
Macro ID: IHAPSAX
DSECT Name: PSAX
Owning 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 Map

Offsets					
Dec	Hex	Type/Value	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	FLCXMCSAFFRS	FLCX 200x: FPRs
512	(200)	CHARACTER	8	FLCXMCSAFPR	FLCX 200x: FPRs 0-15 (15:562126464)
640	(280)	CHARACTER	128	FLCXMCSAGPRS	FLCX 280x: GPRs
640	(280)	CHARACTER	8	FLCXMCSAGPR	FLCX 280x: GPRs 0-15 (15:562126464)
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	FLCXMCSAFC	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
832	(340)	CHARACTER	4	FLCXMCSAAR	FLCX 340x: ARs 0-15 (15:562126464)
896	(380)	CHARACTER	128	FLCXMCSACRS	FLCX 380x: CRs
896	(380)	CHARACTER	8	FLCXMCSACR	FLCX 380x: CRs 0-15 (15:562125288)
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-on/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

IHAPSAX Constants • IHAPSAX Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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

IHAPSAX Constants

Len	Type	Value	Name	Description
4	DECIMAL	4096	PSAXPTR	
4	DECIMAL	0	PSAXDUMMYLEN1A	
4	DECIMAL	0	PSAXDUMMYLEN1B	

IHAPSAX Cross Reference

Name	Hex Offset	Hex Value
FLCXMCSA	200	
FLCXMCSAAR	340	
FLCXMCSAARS	340	
FLCXMCSACLOCKCOMPARATOR	331	
FLCXMCSACPUTIMER	328	
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	
PSAXZ1	A00	
PSAX0A00	B00	
PSAX0B00	C00	
PSAX0C00	D00	
PSAX0D00	E00	
PSAX0E00	400	
PSAX0400	500	
PSAX0500	600	
PSAX0600	700	
PSAX0700	900	
THEPSAX	0	

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:
Storage Attributes:
Size:
Created by:
Pointed to by: ECVTPWVT field of the ECVT data area
Serialization: Enqueue on the SYSZVARY.CPU resource.
Function: Locates Processor WUQs (PWUQs)

IHAPWVT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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 Map

IHARBUP Information

IHARBUP Programming Interface information

Programming Interface information

IHARBUP

End of Programming Interface information

IHARBUP Heading Information • IHARBUP Cross Reference

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 Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0		
		.... ....		IEARBUPRC_OK	"X'00000000" Meaning: learup request successful.
		.... 1...		IEARBUPRC_INVPARM	"X'00000008" Meaning: learup request specifies invalid parameters. Action: Refer to the action provided with the specific reason code.
0	(0)	BITSTRING	0	IEARBUPRSNBBADVERSION	"X'00000801" Meaning: The version field in the parameter list is not valid. Action: Check for possible storage overlay.
0	(0)	BITSTRING	0	IEARBUPRSNBBADAMODEFIELD	"X'00000802" Meaning: The amode field in the parameter list is not valid. Action: Check for possible storage overlay.
0	(0)	BITSTRING	0	IEARBUPRSNBBADADDRESS	"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	IEARBUPRSNBBADFUNCTION	"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	IEARBUPRSNPREVVRBNOTFOUND	"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	IEARBUPRSNBBADAMODE	"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.

IHARBUP Cross Reference

Name	Hex Offset	Hex Value
IEARBUPRC_ENV	0	C
IEARBUPRC_INVPARM	0	8
IEARBUPRC_OK	0	0
IEARBUPRSNBBADADDRESS	0	803
IEARBUPRSNBBADAMODE	0	C02
IEARBUPRSNBBADAMODEFIELD	0	802
IEARBUPRSNBBADFUNCTION	0	804
IEARBUPRSNBBADVERSION	0	801
IEARBUPRSNPREVVRBNOTFOUND	0	C01

IHASAVER Information

IHASAVER Programming Interface information

Programming Interface information

IHASAVER

End of Programming Interface information

IHASAVER Heading Information • IHASAVER Map

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 getmained by called routine
Serialization:	None required
Function:	Maps the save area

IHASAVER Map

Offsets

Dec	Hex	Type/Value	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
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"

Offsets

Dec	Hex	Type/Value	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

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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"

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SAVF5SA	
0	(0)	ADDRESS	4	SAVF5SALANG	USED BY LANGUAGES
4	(4)	CHARACTER	4	SAVF5SAID	'F6SA'
8	(8)	CHARACTER	8	SAVF5SAG64RS14	
16	(10)	CHARACTER	8	SAVF5SAG64RS15	REGISTER 14
24	(18)	CHARACTER	8	SAVF5SAG64RS0	REGISTER 15
32	(20)	CHARACTER	8	SAVF5SAG64RS1	REGISTER 0
40	(28)	CHARACTER	8	SAVF5SAG64RS2	REGISTER 1
48	(30)	CHARACTER	8	SAVF5SAG64RS3	REGISTER 2
56	(38)	CHARACTER	8	SAVF5SAG64RS4	REGISTER 3
64	(40)	CHARACTER	8	SAVF5SAG64RS5	REGISTER 4
72	(48)	CHARACTER	8	SAVF5SAG64RS6	REGISTER 5
80	(50)	CHARACTER	8	SAVF5SAG64RS7	REGISTER 6
88	(58)	CHARACTER	8	SAVF5SAG64RS8	REGISTER 7
96	(60)	CHARACTER	8	SAVF5SAG64RS9	REGISTER 8
104	(68)	CHARACTER	8	SAVF5SAG64RS10	REGISTER 9
112	(70)	CHARACTER	8	SAVF5SAG64RS11	REGISTER 10
120	(78)	CHARACTER	8	SAVF5SAG64RS12	REGISTER 11
128	(80)	CHARACTER	8	SAVF5SAPREV	REGISTER 12
136	(88)	CHARACTER	8	SAVF5SANEXT	ADDR OF PREVIOUS SAVEAREA
144	(90)	ADDRESS	4	SAVF5SAG64HS0	ADDR OF NEXT SAVE AREA
148	(94)	ADDRESS	4	SAVF5SAG64HS1	High half of caller's R0
152	(98)	ADDRESS	4	SAVF5SAG64HS2	High half of caller's R1
156	(9C)	ADDRESS	4	SAVF5SAG64HS3	High half of caller's R2
160	(A0)	ADDRESS	4	SAVF5SAG64HS4	High half of caller's R3
164	(A4)	ADDRESS	4	SAVF5SAG64HS5	High half of caller's R4
168	(A8)	ADDRESS	4	SAVF5SAG64HS6	High half of caller's R5
172	(AC)	ADDRESS	4	SAVF5SAG64HS7	High half of caller's R6
176	(B0)	ADDRESS	4	SAVF5SAG64HS8	High half of caller's R7
180	(B4)	ADDRESS	4	SAVF5SAG64HS9	High half of caller's R8
184	(B8)	ADDRESS	4	SAVF5SAG64HS10	High half of caller's R9

IHASAVER Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
188	(BC)	ADDRESS	4	SAVF5SAG64HS11	High half of caller's R10
192	(C0)	ADDRESS	4	SAVF5SAG64HS12	High half of caller's R11
196	(C4)	ADDRESS	4	SAVF5SAG64HS13	High half of caller's R12
200	(C8)	ADDRESS	4	SAVF5SAG64HS14	High half of caller's R13
204	(CC)	ADDRESS	4	SAVF5SAG64HS15	High half of caller's R14
208	(D0)	CHARACTER	8		High half of caller's R15
208	(D0)	X'F5E2C1'	0	SAVF5SAID_VALUE	Undefined
208	(D0)	X'D8'	0	SAVF5SA_LEN	"C'F5SA" "-SAVF5SA"

Offsets					
Dec	Hex	Type/Value	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	
16	(10)	CHARACTER	8	SAVF7SAG64RS15	REGISTER 14
24	(18)	CHARACTER	8	SAVF7SAG64RS0	REGISTER 15
32	(20)	CHARACTER	8	SAVF7SAG64RS1	REGISTER 0
40	(28)	CHARACTER	8	SAVF7SAG64RS2	REGISTER 1
48	(30)	CHARACTER	8	SAVF7SAG64RS3	REGISTER 2
56	(38)	CHARACTER	8	SAVF7SAG64RS4	REGISTER 3
64	(40)	CHARACTER	8	SAVF7SAG64RS5	REGISTER 4
72	(48)	CHARACTER	8	SAVF7SAG64RS6	REGISTER 5
80	(50)	CHARACTER	8	SAVF7SAG64RS7	REGISTER 6
88	(58)	CHARACTER	8	SAVF7SAG64RS8	REGISTER 7
96	(60)	CHARACTER	8	SAVF7SAG64RS9	REGISTER 8
104	(68)	CHARACTER	8	SAVF7SAG64RS10	REGISTER 9
112	(70)	CHARACTER	8	SAVF7SAG64RS11	REGISTER 10
120	(78)	CHARACTER	8	SAVF7SAG64RS12	REGISTER 11
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
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	

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
212	(D4)	X'D8'	0	SAVF7SA_LEN	"C'F7SA"" "-SAVF7SA"

Offsets

Dec	Hex	Type/Value	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	
16	(10)	CHARACTER	8	SAVF8SAG64RS15	REGISTER 14
24	(18)	CHARACTER	8	SAVF8SAG64RS0	REGISTER 15
32	(20)	CHARACTER	8	SAVF8SAG64RS1	REGISTER 0
40	(28)	CHARACTER	8	SAVF8SAG64RS2	REGISTER 1
48	(30)	CHARACTER	8	SAVF8SAG64RS3	REGISTER 2
56	(38)	CHARACTER	8	SAVF8SAG64RS4	REGISTER 3
64	(40)	CHARACTER	8	SAVF8SAG64RS5	REGISTER 4
72	(48)	CHARACTER	8	SAVF8SAG64RS6	REGISTER 5
80	(50)	CHARACTER	8	SAVF8SAG64RS7	REGISTER 6
88	(58)	CHARACTER	8	SAVF8SAG64RS8	REGISTER 7
96	(60)	CHARACTER	8	SAVF8SAG64RS9	REGISTER 8
104	(68)	CHARACTER	8	SAVF8SAG64RS10	REGISTER 9
112	(70)	CHARACTER	8	SAVF8SAG64RS11	REGISTER 10
120	(78)	CHARACTER	8	SAVF8SAG64RS12	REGISTER 11
128	(80)	CHARACTER	8	SAVF8SAPREV	REGISTER 12
136	(88)	CHARACTER	8	SAVF8SANEXT	ADDR OF PREVIOUS SAVEAREA
144	(90)	SIGNED	4	SAVF8SAAR14	ADDR OF NEXT SAVE AREA
148	(94)	SIGNED	4	SAVF8SAAR15	AR 14
152	(98)	SIGNED	4	SAVF8SAAR0	AR 15
156	(9C)	SIGNED	4	SAVF8SAAR1	AR 0
160	(A0)	SIGNED	4	SAVF8SAAR1	AR 1
164	(A4)	SIGNED	4	SAVF8SAAR2	AR 2
168	(A8)	SIGNED	4	SAVF8SAAR3	AR 3
172	(AC)	SIGNED	4	SAVF8SAAR4	AR 4
176	(B0)	SIGNED	4	SAVF8SAAR5	AR 5
180	(B4)	SIGNED	4	SAVF8SAAR6	AR 6
184	(B8)	SIGNED	4	SAVF8SAAR7	AR 7
188	(BC)	SIGNED	4	SAVF8SAAR8	AR 8
192	(C0)	SIGNED	4	SAVF8SAAR9	AR 9
196	(C4)	SIGNED	4	SAVF8SAAR10	AR 10
200	(C8)	SIGNED	4	SAVF8SAAR11	AR 11
204	(CC)	SIGNED	4	SAVF8SAAR12	AR 12
208	(D0)	SIGNED	4	SAVF8SAAR13	ALET of previous save area or undefined
212	(D4)	CHARACTER	4	SAVF8SAASC	ASC mode of caller
216	(D8)	ADDRESS	4	SAVF8SAG64HS0	Undefined
220	(DC)	ADDRESS	4	SAVF8SAG64HS1	High half of caller's R0
224	(E0)	ADDRESS	4	SAVF8SAG64HS2	High half of caller's R1
228	(E4)	ADDRESS	4	SAVF8SAG64HS3	High half of caller's R2
232	(E8)	ADDRESS	4	SAVF8SAG64HS4	High half of caller's R3
236	(EC)	ADDRESS	4	SAVF8SAG64HS5	High half of caller's R4
240	(F0)	ADDRESS	4	SAVF8SAG64HS6	High half of caller's R5
					High half of caller's R6

IHASAVER Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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	SAVF8SAID_VALUE	Undefined
280	(118)	X'F8E2C1'	0		"C'F8SA"
280	(118)	X'120'	0	SAVF8SA_LEN	"*-SAVF8SA"

IHASAVER Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
SAVER	0		SAVF5SAG64HS10		
SAVER_LEN	44	48	SAVF5SAG64HS11	B8	
SAVF4SA	0		SAVF5SAG64HS12	BC	
SAVF4SA_LEN	88	90	SAVF5SAG64HS13	C0	
SAVF4SAG64RS0			SAVF5SAG64HS14	C4	
	18		SAVF5SAG64HS15	C8	
SAVF4SAG64RS1	20		SAVF5SAG64HS2	CC	
SAVF4SAG64RS10	68		SAVF5SAG64HS3	98	
SAVF4SAG64RS11	70		SAVF5SAG64HS4	9C	
SAVF4SAG64RS12	78		SAVF5SAG64HS5	A0	
SAVF4SAG64RS14	8		SAVF5SAG64HS6	A4	
SAVF4SAG64RS15	10		SAVF5SAG64HS7	A8	
SAVF4SAG64RS2	28		SAVF5SAG64HS8	AC	
SAVF4SAG64RS3	30		SAVF5SAG64HS9	B0	
SAVF4SAG64RS4	38		SAVF5SAG64RS0	B4	
SAVF4SAG64RS5	40		SAVF5SAG64RS1	18	
SAVF4SAG64RS6	48		SAVF5SAG64RS10	20	
SAVF4SAG64RS7	50		SAVF5SAG64RS11	68	
SAVF4SAG64RS8	58		SAVF5SAG64RS12	70	
SAVF4SAG64RS9	60		SAVF5SAG64RS14	78	
SAVF4SAID	4		SAVF5SAG64RS15	8	
SAVF4SAID_VALUE	88	F4E2C1	SAVF5SAG64RS2	10	
SAVF4SALANG	0		SAVF5SAG64RS3	28	
SAVF4SANEXT	88			30	
SAVF4SAPREV	80				
SAVF5SA	0				
SAVF5SA_LEN	D0	D8			
SAVF5SAG64HS0	90				
SAVF5SAG64HS1	94				

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
SAVF5SAG64RS4			SAVF8SA_LEN	118	120
	38		SAVF8SAAR0	98	
SAVF5SAG64RS5			SAVF8SAAR1	9C	
	40		SAVF8SAAR10	C0	
SAVF5SAG64RS6			SAVF8SAAR11	C4	
	48		SAVF8SAAR12	C8	
SAVF5SAG64RS7			SAVF8SAAR13	CC	
	50		SAVF8SAAR14	90	
SAVF5SAG64RS8			SAVF8SAAR15	94	
	58		SAVF8SAAR2	A0	
SAVF5SAG64RS9			SAVF8SAAR3	A4	
	60		SAVF8SAAR4	A8	
SAVF5SAID			SAVF8SAAR5	AC	
SAVF5SAID_VALUE	D0	F5E2C1	SAVF8SAAR6	B0	
SAVF5SALANG	0		SAVF8SAAR7	B4	
SAVF5SANEXT	88		SAVF8SAAR8	B8	
SAVF5SAPREV	80		SAVF8SAAR9	BC	
SAVF7SA	0		SAVF8SAASC	D0	
SAVF7SA_LEN	D4	D8	SAVF8SAG64HS0		
SAVF7SAAR0	98			D8	
SAVF7SAAR1	9C		SAVF8SAG64HS1		DC
SAVF7SAAR10	C0		SAVF8SAG64HS10		100
SAVF7SAAR11	C4		SAVF8SAG64HS11		104
SAVF7SAAR12	C8		SAVF8SAG64HS12		108
SAVF7SAAR13	CC		SAVF8SAG64HS13		10C
SAVF7SAAR14	90		SAVF8SAG64HS14		110
SAVF7SAAR15	94		SAVF8SAG64HS15		114
SAVF7SAAR2	A0		SAVF8SAG64HS2		E0
SAVF7SAAR3	A4		SAVF8SAG64HS3		E4
SAVF7SAAR4	A8		SAVF8SAG64HS4		E8
SAVF7SAAR5	AC		SAVF8SAG64HS5		EC
SAVF7SAAR6	B0		SAVF8SAG64HS6		F0
SAVF7SAAR7	B4		SAVF8SAG64HS7		F4
SAVF7SAAR8	B8		SAVF8SAG64HS8		F8
SAVF7SAAR9	BC		SAVF8SAG64HS9		FC
SAVF7SAASC	D0		SAVF8SAG64RS0		18
SAVF7SAG64RS0	18		SAVF8SAG64RS1		20
SAVF7SAG64RS1	20		SAVF8SAG64RS10		68
SAVF7SAG64RS10	68		SAVF8SAG64RS11		70
SAVF7SAG64RS11	70		SAVF8SAG64RS12		78
SAVF7SAG64RS12	78		SAVF8SAG64RS14		8
SAVF7SAG64RS14	8		SAVF8SAG64RS15		10
SAVF7SAG64RS15	10		SAVF8SAG64RS2		28
SAVF7SAG64RS2	28		SAVF8SAG64RS3		30
SAVF7SAG64RS3	30		SAVF8SAG64RS4		38
SAVF7SAG64RS4	38		SAVF8SAG64RS5		40
SAVF7SAG64RS5	40		SAVF8SAG64RS6		48
SAVF7SAG64RS6	48				
SAVF7SAG64RS7	50				
SAVF7SAG64RS8	58				
SAVF7SAG64RS9	60				
SAVF7SAID	4				
SAVF7SAID_VALUE	D4	F7E2C1			
SAVF7SALANG	0				
SAVF7SANEXT	88				
SAVF7SAPREV	80				
SAVF8SA	0				

IHASAVER Cross Reference

Name	Hex Offset	Hex Value
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	
SAVGRS4	24	
SAVGRS5	28	
SAVGRS6	2C	
SAVGRS7	30	
SAVGRS8	34	
SAVGRS9	38	
SAVNEXT	8	
SAVPLI	0	
SAVPREV	4	

IHASCBO Information

IHASCBO Heading Information

Common Name: STAE Control Block Old (pre-z/OS R6)
Macro ID: IHASCBO
DSECT Name: SCBO, SCBOX
Owning 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 Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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.		SCBONOIP	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
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...		SCBOLO31	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...		SCBTERMI	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...		SCBOPRNTR	SCB PREVIOUSLY ENTERED
		.... .1..		SCBOBRNTR	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

IHASCBO Cross Reference

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
		..1.		SCBOPXCTL	Request for XCTL
		....1		SCBOPNCNL	Request for CANCEL=NO
		.... 1...		*	TOKEN flag - not used
		.... .1..		SCBOPASYN	Request for ASYNCH
		.... ..11		SCBOPPIO	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

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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	SCBOXPARM	31 BIT USER PARAMETER LIST ADDRESS
16	(10)	ADDRESS	4	SCBOXALET	ALET ASSOCIATED WITH PARAM
20	(14)	ADDRESS	4	SCBOXLSEA	LINKAGE STACK ENTRY ADDR

IHASCBO Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
SCBO	0		SCBORB	10	02
SCBOAMODE	C	80	SCBORECRD	10	20
SCBOAM31	C	80	SCBOSTAI	8	80
SCBOAM64	9	80	SCBOSTAUT	10	80
SCBOARRFL	C	20	SCBOSUPER	C	01
SCBOASCM	8	40	SCBOTERMI	10	40
SCBOASYNC	8	04	SCBOTOKEN	8	08
SCBOBRNTR	10	04	SCBOUNSS	10	01
SCBOCHAIN	0		SCBOX	0	
SCBODATA	10		SCBOXALET	10	
SCBODUMMY	10	10	SCBOXCR34	0	
SCBOESTAE	8	10	SCBOXCTL2	C	40
SCBOEXIT	4		SCBOXEAX	4	
SCBOFLGS1	8		SCBOXKMSK	0	
SCBOFLGS2	C		SCBOXLSEA	14	
SCBOFLGS3	10		SCBOXPARM	C	
SCBOFTIME	14	80	SCBOXPASN	6	
SCBOHALT	8	01	SCBOXPRMS	C	
SCBOID	12		SCBOXPTR	14	
SCBOINUSE	C	10	SCBOXRSV	2	
SCBOIOPRC	8	03	SCBOXSASN	2	
SCBOKEY0	C	02	SCBOXTOKN	8	
SCBOLO31	C	08			
SCBONCNL	8	20			
SCBONIOP	8	02			
SCBOOWNR	C				
SCBOOWNRA	D				
SCBOPARM	8				
SCBOPARMA	9				
SCBOPASYN	13	04			
SCBOPC	C	04			
SCBOPCFLG	13				
SCBOPHALT	13	01			
SCBOPPIO	13	03			
SCBOPKEY	11				
SCBOPNCNL	13	10			
SCBOPNOIO	13	02			
SCBOPREC	13	40			
SCBOPRNTR	10	08			
SCBOPTERM	13	80			
SCBOPXCTL	13	20			

IHASDEXI Information

IHASDEXI Programming Interface information

Programming Interface information

IHASDEXI

End of Programming Interface information

IHASDEXI Heading Information • IHASDEXI Map

IHASDEXI Heading Information

Common Name: SDUMP Exit information
Macro ID: IHASDEXI
DSECT Name: SDEXI

SDEXIALST

Owning Component: SDEXIDRPX
Eye-Catcher ID: SDUMP (SCDMP)
Storage Attributes: NONE
Subpool: 231
Key: 0
Residency: Above 16M

Size: SDEXIDRPX64 -- X'0040' bytes
SDEXI -- X'0068' bytes
SDEXIALST -- X'0004' bytes
SDEXIDRPX -- X'0040' 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 Map

Offsets					
Dec	Hex	Type/Value	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.
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 SdexWKLN (AT LEAST 200 BYTES)
56	(38)	SIGNED	4	SDEXIWKLN	Length of work area pointed to by SdexWKAD
60	(3C)	ADDRESS	4	SDEXIDRPA	Address of dump record prefix to be filled in by exit

Comment

Bit definitions:

End of Comment			
	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	Pointer to the ASID list - Set by SVC Dump. For use by exit.
68	(44)	CHARACTER	SDATA OPTIONS
68	(44)	CHARACTER	SDATA OPTION FLAGS
68	(44)	CHARACTER	1ST BYTE OF OPTIONS

Comment

Bit definitions:

End of Comment			
	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...	SDEXILSQLA	"X'08" DUMP LSQA
	.... .1..	SDEXIRGN	"X'04" DUMP RGN-PRIVATE AREA
	.... ..1.	SDEXILPA	"X'02" DUMP LPA MOD. FOR RGN

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
69	(45)	.... ....1 CHARACTER	1	SDEXITRT SDEXISDT2	"X'01" DUMP TRACE DATA SECOND BYTE SDATA FLGS
Comment					
Bit definitions:					
End of Comment					
70	(46)	1... .... .1... .... ..1. .... ...1 1... .... .1.. .... ..1. .... ...1. CHARACTER	4	SDEXICSA SDEXISWA SDEXISMDM SDEXINSMD SDEXINAPS SDEXINASQ SDEXIANUC SDEXIDEFS	"X'80" DUMP CSA "X'40" DUMP SWA "X'20" DUMP SUMMARY DUMP DATA "X'10" DONT DUMP SUMMARY DUMP "X'08" DO NOT DUMP ALL PSA "X'04" DO NOT DUMP SQA "X'02" DUMP ALL NUCLEUS "X'01" DEFAULTS
70	(46)	BITSTRING	1	SDEXISDA2 SDEXIEXIT1	EXTENDED SDATA OPTIONS SDATA OPTIONS EXIT ROUTINES
Comment					
Bit definitions:					
End of Comment					
71	(47)	1... .... ...1 1... .... .1.. BITSTRING	1	SDEXIGRSQ SDEXICOUPLE SDEXIXESDATA SDEXIWLMADATA SDEXIEXIT2	"X'80" SDATA=GRSQ "X'10" SDATA=COUPLE "X'08" SDATA=XESDATA "X'02" SDATA=WLM DATA SDATA OPTIONS EXIT ROUTINES
Comment					
Bit definitions:					
End of Comment					
72	(48)	..1. BITSTRING	1	SDEXISERVERS SDEXISDT3	"X'20" SDATA=Servers SDATA Options
Comment					
Bit definitions:					
End of Comment					
73	(49)	1... .... .1... BITSTRING	1	SDEXINDEF SDEXIIO SDEXISDT4	"X'80" NODEFAULTS "X'40" DO I/O AREAS SDATA Options
74	(4A)	CHARACTER	2		Reserved
76	(4C)	BITSTRING	1	SDEXIFLAGS	
Comment					
Bit definitions:					
End of Comment					
1... SDEXIADDRESSRANGE					

IHASDEXI Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
					"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.
		..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.		SDEXIFLAG6	"X'02" Reserved
		.... ...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	SDEXIRANGE PAGECOUNT	The number of pages to capture
84	(54)	SIGNED	4	SDEXIRANGEALET	
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.
96	(60)	X'68'	0	SDEXI_LEN	"*-SDEXI"

Offsets					
Dec	Hex	Type/Value	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
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"

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SDEXIDRPX	Dump record prefix to be filled in by the exit
0	(0)	CHARACTER	3	SDEXIDRPIXID	Set by SDUMP. Exit should not change.
0	(0)	CHARACTER	2		DRPX identifier
2	(2)	CHARACTER	1	SDEXIDRPIXIDV	DRPX version
3	(3)	BITSTRING	1	SDEXIDRPIXLEN	Set by SDUMP. Exit should not change.
4	(4)	CHARACTER	16	SDEXIDRPXAS	ASCB information
4	(4)	CHARACTER	2	SDEXIDRPIXAST	Address space type code. See Constants SdexiDrpxAST_xxx
6	(6)	SIGNED	2	SDEXIDRPIXASH	

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
8	(8)	SIGNED	4	SDEXIDRPXAS1	
12	(C)	CHARACTER	8	SDEXIDRPXASC	
12	(C)	SIGNED	4	SDEXIDRPXAS2	Qualifier 2
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	
36	(24)	X'40'	0	SDEXIDRPX_LEN	Record type specific data. "-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

Comment

Bit definitions:

				End of Comment
		1...		SDEXIDRPXTYPD_SC_COMM "X'80" Storage is in common
		.1...		SDEXIDRPXTYPD_SC_AAFLAG "X'40" Absolute address supplied in SdexDrpxTypd_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"

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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_DATASPAC "C'DS'" Data space	
28	(1C)	X'E2C3'	0	SDEXIDRPXAST_COMPDATA "C'SC'" Component data	
64	(40)	X'40'	0	SDEXIDRPX64_LEN	"-SDEXIDRPX64"

IHASDEXI Cross Reference

IHASDEXI Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
SDEXI	0		SDEXIDRPXTPD_SC_COMM	2A	80
SDEXI_LEN	60	68	SDEXIDRPXTPD_SC_KEY	24	
SDEXIADDRESSRANGE	4C	80	SDEXIDRPXTPD_SC_LEN	2C	C
SDEXIADDRESS64	4C	40	SDEXIDRPXTPD_SC_STYP	2A	
SDEXIALP	40		SDEXIDRPX64	0	
SDEXIALST	0		SDEXIDRPX64_LEN	40	40
SDEXIALST_ARRAY	2		SDEXIDRPX64LAD	14	
SDEXIALST_ENTRY	2		SDEXIDRPX64LADHI	14	
SDEXIALST_LEN	2	4	SDEXIDRPX64LADLO	18	
SDEXIALST#	0		SDEXIEXIT1	46	
SDEXIANUC	45	2	SDEXIEXIT2	47	
SDEXIAPSA	44	80	SDEXIFKEY	18	
SDEXIASID	1A		SDEXIFLAGS	4C	
SDEXIBFAD	C		SDEXIFLAG3	4C	10
SDEXIBFLN	10		SDEXIFLAG4	4C	8
SDEXICDAD	20		SDEXIFLAG5	4C	4
SDEXICDAD64	60		SDEXIFLAG6	4C	2
SDEXICOUPLE	46	10	SDEXIGRSQ	46	80
SDEXICSA	45	80	SDEXIINTOKEN@	5C	
SDEXIDEFS	45	1	SDEXIIIO	48	40
SDEXIDRPA	3C		SDEXIKEYS	18	
SDEXIDRPS	3C	80	SDEXILPA	44	2
SDEXIDRPX	0		SDEXILSQA	44	8
SDEXIDRPX_LEN	24	40	SDEXIMAXA	2	40
SDEXIDRPXAS	4		SDEXINAPS	45	8
SDEXIDRPXASC	C		SDEXINASQ	45	4
SDEXIDRPXASH	6		SDEXINDEF	48	80
SDEXIDRPXAST	4		SDEXINSMD	45	10
SDEXIDRPXAST_ADDRSPAC	1C	C3E5	SDEXINUC	44	20
SDEXIDRPXAST_COMPDATA	1C	E2C3	SDEXIORAD	14	
SDEXIDRPXAST_DATASPAC	1C	C4E2	SDEXIPROBDESC@	58	
SDEXIDRPXAS1	8		SDEXIPSA	44	40
SDEXIDRPXAS2	C		SDEXIRANGEALET	54	
SDEXIDRPXAS3	10		SDEXIRANGEEND	50	
SDEXIDRPXID	0		SDEXIRANGELENGTHINPAGES	4C	20
SDEXIDRPXIDV	2		SDEXIRANGEPAGECOUNT	50	
SDEXIDRPXLAD	14		SDEXIREMOTE	4C	1
SDEXIDRPXLEN	3		SDEXIRGN	44	4
SDEXIDRPXSEQ	18		SDEXISDAO	44	
SDEXIDRPXTPD	24		SDEXISDA2	46	
SDEXIDRPXTPD_CV	24		SDEXISDTA	44	
SDEXIDRPXTPD_CV_KEY	24		SDEXISDT1	44	
SDEXIDRPXTPD_CV_LEN	24	1	SDEXISDT2	45	
SDEXIDRPXTPD_DS	24		SDEXISDT3	48	
SDEXIDRPXTPD_DS_ASTE	2C		SDEXISDT4	49	
SDEXIDRPXTPD_DS_KEY	24		SDEXISERVERS	47	20
SDEXIDRPXTPD_DS_LEN	30	14	SDEXISKEY	19	
SDEXIDRPXTPD_DS_STOKEN	30		SDEXISMDM	45	20
SDEXIDRPXTPD_SC	24		SDEXISQA	44	10
SDEXIDRPXTPD_SC_AAFLAG	2A	40	SDEXISVAD	2C	
SDEXIDRPXTPD_SC_AAPTR	2C		SDEXISWA	45	40

IHASDMSE Information

IHASDMSE Programming Interface information

Programming Interface information

IHASDMSE

End of Programming Interface information

IHASDMSE Heading Information • IHASDMSE Map

IHASDMSE Heading Information

Common Name: SDUMPX Multisystem SDUMP Exit parameter area
Macro ID: IHASDMSE
DSECT Name:

- 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 Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SDMSE	
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	

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
16	(10)	ADDRESS	4	SDMSE_OUTPUT_WORKAREA_LENGTH	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.
20	(14)	BITSTRING	1	SDMSE_OUTPUT_WORKAREA_SUBPOOL	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.
21	(15)	BITSTRING	1	SDMSE_OUTPUT_WORKAREA_KEY	Subpool of output workarea. This field is to be set by the exit when storage is so obtained.
22	(16)	CHARACTER	2	SDMSE_OUTPUT_ASIDLST_ADDR	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.
24	(18)	ADDRESS	4	SDMSE_OUTPUT_ASIDLST_ADDR	Reserved
28	(1C)	ADDRESS	4	SDMSE_OUTPUT_STORAGE_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
32	(20)	ADDRESS	4	SDMSE_OUTPUT_JOBLIST_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
36	(24)	ADDRESS	4	SDMSE_OUTPUT_DSPLIST_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
40	(28)	ADDRESS	4	SDMSE_OUTPUT_SUBPLST_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
44	(2C)	ADDRESS	4	SDMSE_OUTPUT_KEYLIST_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
48	(30)	CHARACTER	8	SDMSE_SDATA_OPTIONS	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
56	(38)	CHARACTER	8	SDMSE_SDATA_OPTIONS	Reserved
56	(38)	BITSTRING	1	SDMSE_SDATA_BYT0	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.
57	(39)	BITSTRING	1	SDMSE_SDATA_BYT1	This field should be set if the exit has indicated SDATA options for the dump.

Comment

Bit definitions:

				End of Comment
		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
57	(39)	BITSTRING	1	SDMSE_SDATA_BYT1 This field should be set if the exit has indicated SDATA options for the dump.

IHASDMSE Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
Bit definitions:					
End of Comment					
1... SDMSE_SDATA_CSA .1... SDMSE_SDATA_SWA ..1. SDMSE_SDATA_SUM .... ..1. SDMSE_SDATA_ALLNUC .... ...1 SDMSE_SDATA_DEFS					"X'80'" Corresponds to SDUMPX SDATA option CSA "X'40'" Corresponds to SDUMPX SDATA option SWA "X'20'" Corresponds to SDUMPX SDATA option SUM "X'02'" Corresponds to SDUMPX SDATA option ALLNUC "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.
Comment					
Bit definitions:					
End of Comment					
1... SDMSE_SDATA_GRSQ ....1 SDMSE_SDATA_COUPLE 1... SDMSE_SDATA_XESDATA .... ..1. SDMSE_SDATA_WLM					"X'80'" Corresponds to SDUMPX SDATA option GRSQ "X'10'" Corresponds to SDUMPX SDATA option COUPLE "X'08'" Corresponds to SDUMPX SDATA option XESDATA "X'02'" Corresponds to SDUMPX SDATA option XESDATA
59	(3B)	BITSTRING	1	SDMSE_SDATA_BYTE3	Sdata Byte 3
Comment					
Bit definitions:					
End of Comment					
..1. SDMSE_SDATA_SERVERS					"X'20'" Corresponds to SDUMPX SDATA option SERVERS
60	(3C)	BITSTRING	1	SDMSE_SDATA_BYTE4	Sdata Byte 4
Comment					
Bit definitions:					
End of Comment					
.1... SDMSE_SDATA_IO 61 (3D) BITSTRING 1 SDMSE_SDATA_BYTE5 62 (3E) CHARACTER 2 SDMSE_SDATA_RSVD 64 (40) ADDRESS 4 SDMSE_INPUT_ASIDLST_ADDR 68 (44) ADDRESS 4 SDMSE_INPUT_STORAGE_ADDR 72 (48) ADDRESS 4 SDMSE_INPUT_SUBPLST_ADDR 76 (4C) ADDRESS 4 SDMSE_INPUT_KEYLIST_ADDR 80 (50) ADDRESS 4 SDMSE_INPUT_STORAGE64_ADDR					"X'40'" Corresponds to SDUMPX SDATA option IO Sdata Byte 5 - Reserved, must be 0 Reserved, must be 0 This field indicates the ASID(s) incorporated in the dump. The area pointed to by this field is mapped by DSECT SDMSE_ASIDLST 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- This field indicates the list of subpools incorporated in the dump. The area pointed to by this field is mapped by DSECT SDMSE_SUBPLST 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

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
84	(54)	CHARACTER	4	SDMSE_FLAGS	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)	BITSTRING	1	SDMSE_FLAGS1	Exit parm list flags Flags byte 1
Comment					

Bit definitions:

1...	....	SDMSE_OUTPUT_STORAGE_TYPE64	End of Comment		
				"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	SDMSE_VERSION_CURRENT	Unused @L2A-
88	(58)	X'0'	0		"0"
88	(58)	X'0'	0	SDMSE_VERSION_0	"0"
88	(58)	X'60'	0	SDMSE_LEN	"*-SDMSE"

Offsets

Dec	Hex	Type/Value	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
4	(4)	X'8'	0	SDMSE_MODEL_LEN	"*-SDMSE_MODEL"

Offsets

Dec	Hex	Type/Value	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"

Offsets

Dec	Hex	Type/Value	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

IHASDMSE Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
16	(10)	X'14'	0	SDMSE_STORAGE_LEN	"-SDMSE_STORAGE"
Offsets					
Dec	Hex	Type/Value	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	SDMSE_STORAGE64_RESERVED	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"
Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SDMSE_JOBLIST	
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	SDMSE_JOBLIST_RESERVED	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"
Offsets					
Dec	Hex	Type/Value	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	SDMSE_DSPLIST_RESERVED	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"
Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SDMSE_SUBPLST	
0	(0)	CHARACTER	4	SDMSE_SUBPLST_HEADER	Header area

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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"

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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"

IHASDMSE Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
SDMSE	0				
SDMSE_ASIDLST	0		SDMSE_INPUT_PROBDESC_ADDR	4C	
SDMSE_ASIDLST_ASID	4		SDMSE_INPUT_STORAGE_ADDR	4	
SDMSE_ASIDLST_ENTRY	4		SDMSE_INPUT_STORAGE64_ADDR	44	
SDMSE_ASIDLST_HEADER	0		SDMSE_INPUT_SUBPLST_ADDR	50	
SDMSE_ASIDLST_LEN	4	6	SDMSE_INPUT_WORKAREA_ADDR	48	
SDMSE_ASIDLST_LENGTH	0		SDMSE_JOBLIST	8	
SDMSE_DSPLIST	0		SDMSE_JOBLIST_ENTRY	0	
SDMSE_DSPLIST_ENTRY	4		SDMSE_JOBLIST_HEADER	4	
SDMSE_DSPLIST_HEADER	0		SDMSE_JOBLIST_LEN	0	
SDMSE_DSPLIST_LEN	C	14	SDMSE_JOBLIST_LENGTH	4	C
SDMSE_DSPLIST_LENGTH	0		SDMSE_JOBLIST_NAME	0	
SDMSE_DSPLIST_NAME	C		SDMSE_KEYLIST	4	
SDMSE_DSPLIST_OWNER	4		SDMSE_KEYLIST_ENTRY	0	
SDMSE_DSPLIST_OWNER_ASID	A		SDMSE_KEYLIST_HEADER	4	
SDMSE_DSPLIST_OWNER_JOBNAME	4		SDMSE_KEYLIST_KEY	0	
SDMSE_DSPLIST_OWNER_ZEROES	4		SDMSE_KEYLIST_LEN	4	5
SDMSE_FLAGS	54		SDMSE_KEYLIST_LENGTH	0	
SDMSE_FLAGS_RSVD	55		SDMSE_LEN	58	60
SDMSE_FLAGS1	54		SDMSE_MODEL	0	
SDMSE_INPUT_ASIDLST_ADDR	40		SDMSE_MODEL_ENTRY	4	
SDMSE_INPUT_KEYLIST_ADDR			SDMSE_MODEL_HEADER		

IHASDMSE Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
SDMSE_MODEL_LEN	0		SDMSE_SDATA_TRT	39	40
SDMSE_MODEL_LENGTH	4	8	SDMSE_SDATA_WLM	38	1
SDMSE_OUTPUT_ASIDLST_ADDR	0		SDMSE_SDATA_XESDATA	3A	2
SDMSE_OUTPUT_DSPLIST_ADDR	18		SDMSE_STORAGE	3A	8
SDMSE_OUTPUT_DSPLIST_ADDR	24		SDMSE_STORAGE_END	0	
SDMSE_OUTPUT_JOBLIST_ADDR	20		SDMSE_STORAGE_ENTRY	10	
SDMSE_OUTPUT_KEYLIST_ADDR	2C		SDMSE_STORAGE_HEADER	4	
SDMSE_OUTPUT_STORAGE_ADDR	1C		SDMSE_STORAGE_LEN	0	
SDMSE_OUTPUT_STORAGE_TYPE64	54	80	SDMSE_STORAGE_LENGTH	10	14
SDMSE_OUTPUT_SUBPLST_ADDR	28		SDMSE_STORAGE_START	0	
SDMSE_OUTPUT_WORKAREA_ADDR	C		SDMSE_STORAGE_STOKEN	4	
SDMSE_OUTPUT_WORKAREA_KEY	15		SDMSE_STORAGE64	0	
SDMSE_OUTPUT_WORKAREA_LENGTH	10		SDMSE_STORAGE64_END	14	
SDMSE_OUTPUT_WORKAREA_SUBPOOL	14		SDMSE_STORAGE64_ENTRY	4	
SDMSE_SDATA_ALLNUC	39	2	SDMSE_STORAGE64_HEADER	0	
SDMSE_SDATA_ALLPSA	38	80	SDMSE_STORAGE64_LEN	14	1C
SDMSE_SDATA_BYTE0	38		SDMSE_STORAGE64_LENGTH	0	
SDMSE_SDATA_BYTE1	39		SDMSE_STORAGE64_START	C	
SDMSE_SDATA_BYTE2	3A		SDMSE_STORAGE64_STOKEN	4	
SDMSE_SDATA_BYTE3	3B		SDMSE_SUBPLST	0	
SDMSE_SDATA_BYTE4	3C		SDMSE_SUBPLST_ASID	4	
SDMSE_SDATA_BYTE5	3D		SDMSE_SUBPLST_ENTRY	4	
SDMSE_SDATA_COUPLE	3A	10	SDMSE_SUBPLST_HEADER	0	
SDMSE_SDATA_CSA	39	80	SDMSE_SUBPLST_LEN	6	8
SDMSE_SDATA_DEFS	39	1	SDMSE_SUBPLST_LENGTH	0	
SDMSE_SDATA_GRSQ	3A	80	SDMSE_SUBPLST_SUBPOOL	6	
SDMSE_SDATA_IO	3C	40	SDMSE_VERSION	0	
SDMSE_SDATA_LPA	38	2	SDMSE_VERSION_CURRENT	58	0
SDMSE_SDATA_LSQA	38	8	SDMSE_VERSION_0	58	0
SDMSE_SDATA_NUC	38	20			
SDMSE_SDATA_OPTIONS	38				
SDMSE_SDATA_PSA	38				
SDMSE_SDATA_RGN	38	40			
SDMSE_SDATA_RSVD	3E				
SDMSE_SDATA_SERVERS	3B	20			
SDMSE_SDATA_SQA	38	4			
SDMSE_SDATA_SUM	38	10			
SDMSE_SDATA_SWA	39	20			

IHASDPD Information

IHASDPD Programming Interface information

Programming Interface information

IHASDPD

End of Programming Interface information

IHASDPD Heading Information • IHASDPD Cross Reference

IHASDPD Heading Information

Common Name: SDUMPX ProbDesc area mapping
Macro ID: IHASDPD
DSECT Name: SDPD
Owning Component: SDUMP (SCDM)
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 PROBDESC keyword
Pointed to by: PROBDESC address field of SDUMP parameter list
Serialization: None required
Function: Maps the PROBDESC parameter information

IHASDPD Map

Offsets					
Dec	Hex	Type/Value	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"

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SDPD_KLD	,
0	(0)	CHARACTER	10	SDPD_KLD_HEADER	Key-length-data entry
0	(0)	CHARACTER	8	SDPD_KLD_KEY	Header
0	(0)	CHARACTER	3	SDPD_KLD_KEY_COMPPREFIX	The 8-byte key. Keys beginning with "A" through "I" or with "SYS" are reserved for IBM use.
3	(3)	CHARACTER	5	SDPD_KLD_KEY_COMPINFO	Component identifier. IBM products should use their 3-character module prefix.
					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"

IHASDPD Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
SDPD	0				
SDPD_DATA	4				
SDPD_HEADER	0		SDPD_LEN	8	
SDPD_KLD	0		SDPD_LENGTH	4	4
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					

IHASDRMT Information

IHASDRMT Programming Interface information

Programming Interface information

IHASDRMT

End of Programming Interface information

IHASDRMT Heading Information • IHASDRMT Map

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 Map

Offsets

Dec	Hex	Type/Value	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
Comment					

Constants to identify the DSECT. Note that the constants ending with "_COPY" should use the SDRMT_COPY DSECT.

End of Comment					
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	

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
4	(4)	X'14'	0	SDRMT_IDCON_STORAGE	"17" Indicates to copy the ASIDLST used for this dump.
4	(4)	X'15'	0	SDRMT_IDCON_STORAGE_COPY	"20"
4	(4)	X'18'	0	SDRMT_IDCON_JOBLIST	"21" Indicates to copy the input LISTD specification
4	(4)	X'19'	0	SDRMT_IDCON_JOBLIST_COPY	"24"
4	(4)	X'1C'	0	SDRMT_IDCON_DSPLIST	"25"
4	(4)	X'1D'	0	SDRMT_IDCON_DSPLIST_COPY	"28"
4	(4)	X'20'	0	SDRMT_IDCON_SUBPLST	"29"
4	(4)	X'21'	0	SDRMT_IDCON_SUBPLST_COPY	"32"
4	(4)	X'24'	0	SDRMT_IDCON_KEYLIST	"33"
4	(4)	X'25'	0	SDRMT_IDCON_KEYLIST_COPY	"36"
4	(4)	X'28'	0	SDRMT_IDCON_LIST64	"37"
4	(4)	X'29'	0	SDRMT_IDCON_LIST64_COPY	"40"
4	(4)	X'4'	0	SDRMT_LEN	"41" Indicates to copy the input LIST64 specification "-SDRMT"

Offsets

Dec	Hex	Type/Value	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)
4	(4)	X'4'	0	SDRMT_MODEL_LEN	Start of data for the entry "-SDRMT_MODEL"

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SDRMT_SYSLIST	
0	(0)	CHARACTER	4	SDRMT_SYSLIST_HEADER	
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"

IHASDRMT Map

Offsets					
Dec	Hex	Type/Value	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"

Offsets					
Dec	Hex	Type/Value	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
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_BYT0	This field should be set if the caller has indicated SDATA options for the dump.
	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_BYT1	This field should be set if the caller has indicated SDATA options for the dump.
	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_BYT2	This field should be set if the caller has indicated SDATA options for the dump.
	1....			SDRMT_SDATA_GRSQ	"X'80" Corresponds to SDUMPX SDATA option GRSQ
	....1			SDRMT_SDATA_COUPLE	"X'10" Corresponds to SDUMPX SDATA option COUPLE
	.... 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_BYT3	

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
		...1.		SDRMT_SDATA_SERVERS	Sdata Byte 3 "X'20'" Corresponds to SDUMPX SDATA option SERVERS
8	(8)	BITSTRING	1	SDRMT_SDATA_BYTE4	Sdata Byte 4
		1...		SDRMT_SDATA_NODEFS	"X'80'" Corresponds to SDUMPX SDATA option NODEFS
		.1...		SDRMT_SDATA_IO	"X'40'" Corresponds to SDUMPX SDATA option IO
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"

Offsets

Dec	Hex	Type/Value	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"

Offsets

Dec	Hex	Type/Value	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
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"

Offsets

Dec	Hex	Type/Value	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"

IHASDRMT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SDRMT_JOBLIST	
0	(0)	CHARACTER	4	SDRMT_JOBLIST_HEADER	
0	(0)	SIGNED	2	SDRMT_JOBLIST_ID	
2	(2)	SIGNED	2	SDRMT_JOBLIST_LENGTH	Use SDRMT_IDCON_JOBLIST to initialize 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"

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SDRMT_DSPLIST	
0	(0)	CHARACTER	4	SDRMT_DSPLIST_HEADER	
0	(0)	SIGNED	2	SDRMT_DSPLIST_ID	
2	(2)	SIGNED	2	SDRMT_DSPLIST_LENGTH	Use SDRMT_IDCON_DSPLIST to initialize Total length of area including this length field and the ID field
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"

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SDRMT_SUBPLST	
0	(0)	CHARACTER	4	SDRMT_SUBPLST_HEADER	
0	(0)	SIGNED	2	SDRMT_SUBPLST_ID	
2	(2)	SIGNED	2	SDRMT_SUBPLST_LENGTH	Use SDRMT_IDCON_SUBPLST to initialize 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"

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SDRMT_KEYLIST	
0	(0)	CHARACTER	4	SDRMT_KEYLIST_HEADER	
0	(0)	SIGNED	2	SDRMT_KEYLIST_ID	
2	(2)	SIGNED	2	SDRMT_KEYLIST_LENGTH	Use SDRMT_IDCON_KEYLIST to initialize 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"

Offsets

Dec	Hex	Type/Value	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"

IHASDRMT Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
SDRMT	0			2	
SDRMT_ASIDLST	0		SDRMT_GRPLIST_MEMNAME	C	
SDRMT_ASIDLST_ASID	4		SDRMT_IDCON_ASIDLST	4	10
SDRMT_ASIDLST_ENTRY	4		SDRMT_IDCON_ASIDLST_COPY	4	11
SDRMT_ASIDLST_HEADER	0		SDRMT_IDCON_DSPLIST	4	1C
SDRMT_ASIDLST_ID	0		SDRMT_IDCON_DSPLIST_COPY	4	1D
SDRMT_ASIDLST_LEN	4	8	SDRMT_IDCON_GRPLIST	4	8
SDRMT_ASIDLST_LENGTH	2		SDRMT_IDCON_JOBLIST	4	18
SDRMT_COPY	0		SDRMT_IDCON_JOBLIST_COPY	4	19
SDRMT_COPY_HEADER	0		SDRMT_IDCON_KEYLIST	4	24
SDRMT_COPY_ID	0		SDRMT_IDCON_KEYLIST_COPY	4	25
SDRMT_COPY_LEN	2	4	SDRMT_IDCON_LIST64	4	28
SDRMT_COPY_LENGTH	2		SDRMT_IDCON_LIST64_COPY	4	29
SDRMT_DATA	4		SDRMT_IDCON_SDATA	4	C
SDRMT_DSPLIST	0		SDRMT_IDCON_SDATA_COPY	4	D
SDRMT_DSPLIST_ENTRY	4		SDRMT_IDCON_STORAGE	4	14
SDRMT_DSPLIST_HEADER	0		SDRMT_IDCON_STORAGE_COPY	4	15
SDRMT_DSPLIST_ID	0		SDRMT_IDCON_SUBPLST	4	20
SDRMT_DSPLIST_LEN	C	14	SDRMT_IDCON_SUBPLST_COPY	4	21
SDRMT_DSPLIST_LENGTH	2		SDRMT_IDCON_SYSLIST	4	4
SDRMT_DSPLIST_NAME	C		SDRMT_JOBLIST	0	
SDRMT_DSPLIST_OWNER	4		SDRMT_JOBLIST_ENTRY	4	
SDRMT_DSPLIST_OWNER_ASID	A		SDRMT_JOBLIST_HEADER	0	
SDRMT_DSPLIST_OWNER_JOBNAME	4		SDRMT_JOBLIST_ID	0	
SDRMT_DSPLIST_OWNER_ZEROES	4		SDRMT_JOBLIST_LEN	4	C
SDRMT_GRPLIST	0		SDRMT_JOBLIST_LENGTH	2	
SDRMT_GRPLIST_ENTRY	4		SDRMT_JOBLIST_NAME	4	
SDRMT_GRPLIST_GRPNAME	4		SDRMT_KEYLIST	0	
SDRMT_GRPLIST_HEADER	0		SDRMT_KEYLIST_ENTRY	4	
SDRMT_GRPLIST_ID	0		SDRMT_KEYLIST_HEADER	0	
SDRMT_GRPLIST_LEN	C	1C	SDRMT_KEYLIST_ID	0	
SDRMT_GRPLIST_LENGTH					

IHASDRMT Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
SDRMT_KEYLIST_KEY	0		SDRMT_SDATA_LSQA	4	8
SDRMT_KEYLIST_LEN	4		SDRMT_SDATA_NOALLPSA	5	8
SDRMT_KEYLIST_LENGTH	4	8	SDRMT_SDATA_NODEFS	8	80
SDRMT_LEN	2		SDRMT_SDATA_NOSQA	5	4
SDRMT_LENGTH	4	4	SDRMT_SDATA_NUC	4	20
SDRMT_LIST64	0		SDRMT_SDATA_OPTIONS	4	
SDRMT_LIST64_BEGIN64@C	0		SDRMT_SDATA_PSA	4	40
SDRMT_LIST64_END64@14	14		SDRMT_SDATA_RGN	4	4
SDRMT_LIST64_ENTRY	4		SDRMT_SDATA_RSVD	A	
SDRMT_LIST64_HEADER	0		SDRMT_SDATA_SERVERS	7	20
SDRMT_LIST64_ID	0		SDRMT_SDATA_SQA	4	10
SDRMT_LIST64_LEN	0		SDRMT_SDATA_SUM	5	20
SDRMT_LIST64_LENGTH	14	1C	SDRMT_SDATA_SWA	5	40
SDRMT_LIST64_STOKEN	2		SDRMT_SDATA_TRT	4	1
SDRMT_MODEL	4		SDRMT_SDATA_WLM	6	2
SDRMT_MODEL_ENTRY	0		SDRMT_SDATA_XESDATA	6	8
SDRMT_MODEL_HEADER	4		SDRMT_STORAGE	0	
SDRMT_MODEL_ID	0		SDRMT_STORAGE_BEGIN@C		
SDRMT_MODEL_LEN	0		SDRMT_STORAGE_END@10		
SDRMT_MODEL_LENGTH	4	4	SDRMT_STORAGE_ENTRY	4	
SDRMT_SDATA	2		SDRMT_STORAGE_HEADER	0	
SDRMT_SDATA_ALLNUC	0		SDRMT_STORAGE_ID	0	
SDRMT_SDATA_ALLPSA	5	2	SDRMT_STORAGE_LEN	10	14
SDRMT_SDATA_BYT0	4	80	SDRMT_STORAGE_LENGTH	2	
SDRMT_SDATA_BYT1	5		SDRMT_STORAGE_STOKEN	4	
SDRMT_SDATA_BYT2	6		SDRMT_SUBPLST	0	
SDRMT_SDATA_BYT3	7		SDRMT_SUBPLST_ASID	4	
SDRMT_SDATA_BYT4	8		SDRMT_SUBPLST_ENTRY	4	
SDRMT_SDATA_BYT5	9		SDRMT_SUBPLST_HEADER	0	
SDRMT_SDATA_COUPLE	6	10	SDRMT_SUBPLST_ID	0	
SDRMT_SDATA_CSA	5	80	SDRMT_SUBPLST_LEN	6	8
SDRMT_SDATA_DEFS	5	1	SDRMT_SUBPLST_LENGTH	2	
SDRMT_SDATA_GRSQ	6	80	SDRMT_SUBPLST_SUBPOOL	6	
SDRMT_SDATA_HEADER	0		SDRMT_SYSLIST	0	
SDRMT_SDATA_ID	0		SDRMT_SYSLIST_ASID	12	
SDRMT_SDATA_IO	8	40	SDRMT_SYSLIST_ENTRY	4	
SDRMT_SDATA_LEN	A	C	SDRMT_SYSLIST_HEADER	0	
SDRMT_SDATA_LENGTH	2				
SDRMT_SDATA_LPA	4	2			

Name	Hex Offset	Hex Value
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	

IHASDSTR Information

IHASDSTR Programming Interface information

Programming Interface information

IHASDSTR

End of Programming Interface information

IHASDSTR Heading Information • IHASDSTR Map

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 Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	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'0'	0	SDSTR_VERSION	"4" Version Number
0	(0)	X'4'	0	SDSTR_HEADER_LENGTH	"8" Length of STRLIST header
Comment					
STRLIST Length mapping - 8 bytes					
End of Comment					
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
Comment					
IHABLDP work areas - 16 bytes					
End of Comment					
0	(0)	X'0'	0	SDSTR_WORK_AREA	"0" IHABLDP 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 IHABLDP work areas
Comment					
STRLIST structure entry - 48 bytes					
End of Comment					
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_CONNNAME	"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	

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	X'2E'	0	SDSTR_STRUCTURE_FLAGS	"44" Counter of how many range and option entries follow this structure entry
		1...		SDSTR_ACCTIME_NOLIMIT	"46" Structure level flag byte
		...1		SDSTR_CONNNAME_ENTRY	"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
0	(0)	X'30'	0	SDSTR_STRUCTURE_LENGTH	"X'10'" Indicates that the value in the CONTOKEN/CONNNAME field is a CONNAME EQU X'08' Reserved EQU X'04' Reserved EQU X'02' Reserved EQU X'01' Reserved EQU 33 Reserved
					"48" Length of STRLIST structure entry

Comment

STRLIST range and option entry - 12 bytes

					End of Comment
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
		.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_EVENTQNS	"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
0	(0)	X'C'	0	SDSTR_RANGE_LENGTH	"12" Length of STRLIST structure range and option entry

Comment

Constants

End of Comment

IHASDSTR Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	X'1'	0	INIT_VERSION	"1" Initial Version number
Comment					
Return codes for IHABLDP					
End of Comment					
0	(0)	X'0'	0	SUCCESS	"0" Successful completion
0	(0)	X'8'	0	FAIL	"8" IHABLDP failed
Comment					
Reason codes for IHABLDP					
End of Comment					
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.

IHASDSTR Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
FAIL	0	8	SDSTR_OBJECT_STGCLASS	0	20
INIT_VERSION	0	1	SDSTR_RANGE	0	40
INSUFFICIENT_SPACE	0	4	SDSTR_RANGE_CNTR	0	0
INVALID_RANGE	0	8	SDSTR_RANGE_FLAG1	0	2C
NO_REASON	0	0	SDSTR_RANGE_FLAG2	0	0
SDSTR_ACCTIME_NOLIMIT	0	80	SDSTR_RANGE_FLAG3	0	1
SDSTR_ADJUNCT_CAPTURE	0	80	SDSTR_RANGE_LENGTH	0	2
SDSTR_ADJUNCT_DIRECTIO	0	20	SDSTR_START_VALUE	0	C
SDSTR_CONNNAME	0	10	SDSTR_STRUCTURE	0	4
SDSTR_CONNNAME_ENTRY	0	10	SDSTR_STRUCTURE_FLAGS	0	0
SDSTR_CONTOKEN	0	10	SDSTR_STRUCTURE_LENGTH	0	2E
SDSTR_CUR_STR_PTR	0	4	SDSTR_STRUCTURE_NAME	0	30
SDSTR_DUMP_ALL	0	10	SDSTR_SUMMARY	0	0
SDSTR_EDATA_SERIALIZE	0	80	SDSTR_USERCNTLS	0	40
SDSTR_EDATA_UNSERIALIZE	0	40	SDSTR_VERSION	0	4
SDSTR_END_VALUE	0	8	SDSTR_WORK_AREA	0	4
SDSTR_EVENTQTS	0	2	SDSTR_WORK_LENGTH	0	0
SDSTR_HEADER_LENGTH	0	8	SDSTR_WORK_VAR_PTR	0	10
SDSTR_HEADER_MAP	0	0	SUCCESS	0	0
SDSTR_LENGTH	0	0			
SDSTR_LENGTH_MAP	0	0			
SDSTR_LOCKENTRIES	0	0			
SDSTR_NEXT_SPACE	0	8			
SDSTR_OBJECT_COCLASS	0	0			
SDSTR_OBJECT_EMCONTROLS	0	80			
SDSTR_OBJECT_LISTNUM	0	1			

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: IEAVBWTO or IEAVMWTO
Pointed to by: On entry to the SLIP action processor:
 GPR 2 will point to SIMsg 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 Map

Offsets					
Dec	Hex	Type/Value	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

IHASSRX Information

IHASSRX Heading Information

Common Name: Suspended SRB Extension
Macro ID: IHASSRX
DSECT Name: SSRX
Owning 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: SsrbSsrxAddr
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 Map

Offsets					
Dec	Hex	Type/Value	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...		SSRXSTD	SRB SUSPEND WITH TOKEN and Pause DISABLE summary BIT
		.1...		SSRXSTA	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.
56	(38)	ADDRESS	4	SSRXLSDP	VIRTUAL ADDRESS OF THE CURRENT LSSED. 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.		SSRXZ1	IHAZONEO
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	

IHASSRX Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
216	(D8)	CHARACTER	8	SSRXSUSPSTOKEN	TTOKEN of the TCB to resume when this SRB completes. ONLY valid when SSRXSuspWuType represents a "TCB".
224	(E0)	CHARACTER	8	SSRXSUSPSPTOKEN	STOKEN portion of TTOKEN of the TCB to resume when this SRB completes. Valid for all SSRXSuspWuType types.
224	(E0)	CHARACTER	4	*	
228	(E4)	ADDRESS	4	SSRXSUSPTTOKENTCB@	SPTOKEN of the SRB to resume when this SRB completes. ONLY valid when SSRXSuspWuType represents an "SSRB".
232	(E8)	ADDRESS	4	SSRXSUSPRBADDR	First part of SpTOKEN TCB address
236	(EC)	CHARACTER	4	SSRXSUSPRBRESUMETOKEN	Address of the RB that was suspended when the SYNCH(YES) caller was suspended. ONLY valid when SSRXSuspWuType represents a "TCB".
240	(F0)	CHARACTER	24	SSRXSYNCHINFO	RB Token for which to resume the suspended task. ONLY valid when SSRXSuspWuType represents a "TCB".
240	(F0)	SIGNED	4	SSRXSYNCHCOMP	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 IEAVSCHD to indicate to its caller the completion info of this SRB.
244	(F4)	ADDRESS	4	SSRXSYNCHCOMPADDR	Indicates the completion type for this SRB.
248	(F8)	SIGNED	4	SSRXSYNCHCODE	Address of the storage to update with the completion type.
252	(FC)	ADDRESS	4	SSRXSYNCHCODEADDR	Indicates the code associated with the completion type for this SRB.
256	(100)	SIGNED	4	SSRXSYNCHRSN	Address of the storage to update with the associated code.
260	(104)	ADDRESS	4	SSRXSYNCHRSNADDR	Indicates the reason associated with the completion type for this SRB.
264	(108)	CHARACTER	8	SSRXSUSPT6RBOPSW	Address of the storage to update with the associated reason.
272	(110)	BITSTRING	4	SSRXSUSPT6FLAGS	RBOPSW from T6 SVC so that we can resume in IEAVSCHD and then later get back to the T6 SVC issuer.
272	(110)	BITSTRING	2	SSRXSUSPT6FLAGSBIT60	Flags serialized by CS. We need to know when it's safe to free the SSB. The "last guy out wins" is the rule, from among IEAVSYNR and IEAVSCHD. 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....	SSRXSUSPT6IEAVSCHDRAN	
			.1..	SSRXSUSPT6IEAVSYNRRAN	
			..1.	SSRXSUSPT6INEFFECT	
			....1		
274	(112)	SIGNED	2	SSRXSUSPT6HOMEASID	Home ASID
276	(114)	ADDRESS	4	SSRXSUSPT6TASKWEB@	Address of suspended task's WEB
280	(118)	CHARACTER	16	SSRXSUSPT6XSBOPSW16	XSBOPSW16 from T6 SVC so that we can resume in IEAVSCHD and then later get back to the T6 SVC issuer.
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)	CHARACTER	4	SSRXZ2	IHAZONEO
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 SSB.
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 SvtSrbldSeq#, is compared along with SRBWEB to an SrbldToken in order to fully identify a preemptable SRB

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
496	(1F0)	BITSTRING	4	SSRXFLAGS_CC	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	8	SSRXR1F8	Reserved.
512	(200)	CHARACTER	1280	SSRXFRRS	FRR STACK SAVEAREA.
1792	(700)	CHARACTER	0	*	End of mapping

IHASSRX Constants

Len	Type	Value	Name	Description
4	DECIMAL	1792	SSRXLEN	
4	CHARACTER	SSRX	SSRIDCHARS	

IHASSRX Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
SSRX	0		SSRXSUSPINFO	D4	
SSRX_HIS_AREA	1E0		SSRXSUSPRBADDR	E8	
SSRX_HIS_HOMEASID	1E4		SSRXSUSPRBRESUMETOKEN	EC	
SSRX_HIS_IS_SRB	1E4	80	SSRXSUSPSPTOKEN	E0	
SSRX_HIS_PARTIAL_WEB@	1E6		SSRXSUSPSTOKEN	D8	
SSRX_HIS_WEB@	1E0		SSRXSUSPTTOKEN	D8	
SSRXAFPR	128		SSRXSUSPTTOKENTCB@	E4	
SSRXALOV	3C		SSRXSUSPT6FLAGS		
SSRXAREATOCLEAR	C0			110	
SSRXARS	40		SSRXSUSPT6FLAGSBYTES0_1	110	
SSRXBEA	1D8		SSRXSUSPT6HOMEASID	112	
SSRXBFP	C5	80	SSRXSUSPT6IEAVSCHDRAN	110	40
SSRXDUCT	80		SSRXSUSPT6IEAVSYNRRAN	110	20
SSRXESSFL	C5		SSRXSUSPT6INEFFECT	110	10
SSRXFLAGS_CC	1F0		SSRXSUSPT6RBOPSW	108	
SSRXFPCR	188		SSRXSUSPT6TASKWEB@	114	
SSRXFPFL	C5		SSRXSUSPT6XSBOFW	118	
SSRXFPRS	8		SSRXSUSPWUTYPE	D4	
SSRXFPR0	8		SSRXSYNCHCODE	F8	
SSRXFPR2	10		SSRXSYNCHCODEADDR	FC	
SSRXFPR4	18		SSRXSYNCHCOMP	F0	
SSRXFPR6	20		SSRXSYNCHCOMPADDR	F4	
SSRXFRRS	200		SSRXSYNCHINFO	F0	
SSRXG64H	190		SSRXSYNCHRNSN	100	
SSRXLAA	C0		SSRXSYNCHRNSNADDR	104	
SSRXLSA1	34		SSRXTRAN	28	
SSRXLSDP	38		SSRXTRNE	1D0	
SSRXOPASID	C6		SSRXZ1	C5	20
SSRXOPTCB	C8		SSRXZ2	18C	
SSRXORMT	30				
SSRXR0C4	C4				
SSRXR0D0	D0				
SSRXR0D5	D5				
SSRXR0E	2E				
SSRXR1F8	1F8				
SSRXSAFN	2C				
SSRXSRBIDSEQ#	1E8				
SSRXSRBTERMREASON	1F4				
SSRXSSRBADDR	4				
SSRXSSRX	0				
SSRXSSTA	30	40			
SSRXSTD	30	80			
SSRXSSTE	30	20			
SSRXSUPFRR	CC				

IHASVTX Information

IHASVTX Programming Interface information

Programming Interface information

IHASVTX

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

- SvtxRealSpaceALET
- SvtxRealSpaceEAX

End of Programming Interface information

IHASVTX Heading Information • IHASVTX Map

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 Map

Offsets

Dec	Hex	Type/Value	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.
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	SVTXXTESQ	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	SVTCWCWTM	Address of IEAVCWWTM SERIALIZATION: None. OWNERSHIP: Supervisor Control
76	(4C)	ADDRESS	4	SVTXTR2P	Address of IEAVTR2P SERIALIZATION: None. OWNERSHIP: RTM
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

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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
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 SvtxMLSynch 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 SvtxFLSynch 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	16	SVtxr098 (0)	reserved
152	(98)	DBL WORD	8	SVtxtokenpool_moved	moved SVtxtokenpool
160	(A0)	SIGNED	4	SVtxtokencount_moved	moved SVtxtokencount
164	(A4)	SIGNED	2	SVtxtokenmax_moved	moved SVtxtokenmax
166	(A6)	SIGNED	2	SVtxtokenmin_moved	moved SVtxtokenmin
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	SVtxroc0 (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	

IHASVTX Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
214	(D6)	BITSTRING	2	SVTXR0D6	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.
216	(D8)	ADDRESS	4	SVTCIEEQ	Reserved
220	(DC)	SIGNED	4	SVTX_ISN012E_DOMID	Address of first extent of CIEs SERIALIZATION: CS OWNERSHIP: Context Services
224	(E0)	DBL WORD	8	SVTXLXSTAT (0)	DomID for ISN012E
224	(E0)	SIGNED	2	SVTXLXSYSDEFINED	LX Usage Statistics
226	(E2)	SIGNED	2	SVTXLXSYSINUSE	Count of system LXs that were defined for allocation (this does not include LXs allocated for SFT usage)
228	(E4)	SIGNED	2	SVTXLXNSYSDEFINED	Count of system LXs currently in use
230	(E6)	SIGNED	2	SVTXLXNSYSINUSE	Count of non-system LXs that may be defined
232	(E8)	CHARACTER	12	SVTXSPDE3 (0)	Count of non-system LXs that are in use
232	(E8)	BITSTRING	8	SVTXSPDE3_SEEN	When nonzero, Global Recovery is in progress. SERIALIZATION: Global Recovery Protocol. OWNERSHIP: Supervisor Control
240	(F0)	BITSTRING	4	SVTXSPDE3_CPU	Was SVTXSPDE3_SEEN
244	(F4)	ADDRESS	4	SVTXSPDE3_SEEN_ADDR	CPU with Global Recovery in Progress SERIALIZATION: Global Recovery Protocol. OWNERSHIP: Supervisor Control
248	(F8)	DBL WORD	8	SVTBLXSTAT (0)	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)	SIGNED	4	SVTBLXSYSDEFINED	Big LX Usage Statistics
252	(FC)	SIGNED	4	SVTBLXSYSINUSE	Count of system Big LXs that were defined for allocation (this does not include Big LXs allocated for SFT usage)
256	(100)	SIGNED	4	SVTBLXNSYSDEFINED	Count of system Big LXs currently in use
260	(104)	SIGNED	4	SVTBLXNSYSINUSE	Count of non-system Big LXs that may be defined
264	(108)	BITSTRING	4	SVTXNSBLX	Count of non-system Big LXs that are in use
268	(10C)	ADDRESS	4	SVTXSRBPROMOTIONTABLEADDR	Number system "Big LXs"
272	(110)	BITSTRING	8	SVTX_SPIN_TRACE_START_TRIGGER	Address of table used to record SRB promotion being initiated
280	(118)	BITSTRING	8	SVTXEGR_TIMESTAMP_RECONFIG	Time duration. After spinning this long, cut the spin-start trace record
288	(120)	DBL WORD	8	SVTX_FREEWUQH_AREA (0)	Copy of SVTXEGR_TIMESTAMP before IEEVCPRA zeroed LCCAT00P
288	(120)	ADDRESS	4	SVTX_FREEWUQH_PTR	SERIALIZATION: ENQ on SYSZVARY.CPU. OWNERSHIP: Supervisor Control
292	(124)	BITSTRING	4	SVTX_FREEWUQH_COUNT	Free WWUQ pool header and synchronous count. SERIALIZAITON: CDS OWNERSHIP: Supervisor Control
296	(128)	ADDRESS	4	SVTX_WUQH_WEE_TRAILER	Address of first available WUQ in the free pool. SERIALIZAITON: CDS on SVTX_FreeWUQH_Area for free pool adds, CS on SVTX_FreeWUQH_Ptr for free pool deletes. OWNERSHIP: Supervisor Control
300	(12C)	SIGNED	4	SVTXEDSRRETRYCOUNT	Synchronous count field for CDS of SVTX_FreeWUQH_Ptr. WUQ Global Recovery. SERIALIZAITON: CDS on SVTX_FreeWUQH_Area for free pool deletes, not updated for free pool adds. OWNERSHIP: Supervisor Control
304	(130)	BITSTRING	32	SVTXDIAG	Last WEE in WUQH WEE pool. Used for verifying the queue in global recovery.
336	(150)	ADDRESS	4	SVTXLSCL	Serialized by CS.
					IBM use only
					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:

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
AC7 REASON-CODE 00450001: Routine was not executed because it was not in the proper environment.					
				End of Comment	
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	SVTXEGRDIAGNOSTICAREOFFSET	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_Timestamp. SERIALIZATION: Global Recovery Protocol. OWNERSHIP: Supervisor Control
362	(16A)	SIGNED	2	SVTXEGR_TIMESTAMP_CPUID_RECONFIG	CPU id that last invoked global recovery at time in SVTXEGR_Timestamp_Reconfig. SERIALIZATION: ENQ on SYSZVARY.CPU. OWNERSHIP: Supervisor Control
364	(16C)	BITSTRING	6	SVTXDIAG2	IBM use only
370	(172)	BITSTRING	1	SVTXR172	Reserved
Comment					

				End of Comment	
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	SVTXYTYPE5PCTG	Type 5 Percentage
532	(214)	BITSTRING	1	SVTXR214	
Comment					
----- 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...					
				End of Comment	
768	(300)	DBL WORD	8	SVTXTOKENPOOL(0)	Doubleword for SvtxTokenSynch and SvtxTokenPtr. SERIALIZATION: CDS
768	(300)	SIGNED	4	SVTXTOKENSYNCH	Synchronization counter used in conjunction with SvtxTokenPtr.
772	(304)	ADDRESS	4	SVTXTOKENPTR	Pointer to the next SSRB/XSB in the pool used for SUSPEND with token.
776	(308)	SIGNED	4	SVTXTOKENCOUNT	Number of SSRB/XSBs in the SUSPEND with token pool which are available. Used for pool compression only. SERIALIZATION: CS
780	(30C)	SIGNED	2	SVTXTOKENMAX	Number of SSRB/XSBs in the SUSPEND with token pool which triggers pool contraction. SERIALIZATION: None, constant.
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	

IHASVTX Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<hr/>					
				End of Comment	
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.

IHASVTX Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
SVTX	0		SVTXEGRDIAGNOSTICAREAOFFSET	118	
SVTX_FREEWUQH_AREA	120		SVTXEND	15C	
SVTX_FREEWUQH_COUNT	124		SVTXESPN	500	
SVTX_FREEWUQH_PTR	120		SVTXESSX	28	
SVTX_ISN012E_DOMID	DC		SVTXFCIP	AC	
SVTX_SPIN_TRACE_START_TRIGGER	110		SVTXFCIPC	58	
SVTX_WUQH_WEE_TRAILER	128		SVTXFCIPP	5C	
SVTXBLXNSYSDEFINED	100		SVTXFCP	58	
SVTXBLXNSYSINUSE	104		SVTXFCPC	50	
SVTXBLXSTAT	F8		SVTXFCPP	54	
SVTXBLXSYSDEFINED	F8		SVTXFLSCOUNT	50	
SVTXBLXSYSINUSE	FC		SVTXFLSMAX	90	
SVTCADALET	68		SVTXFLSMIN	94	
SVTCADFSPTR	6C		SVTXFLSPPOOL	96	
SVTCADSTOKEN	B0		SVTXFLSPTR	88	
SVTXCEEQ	60		SVTXFLSSYNCH	8C	
SVTxCieeq	D8		SVTXFWP	88	
SVTxCwtm	48		SVTXFWPC	50	
SVTxDiag	130		SVTXFWPP	30	
SVTxDiag2	16C		SVTXLSCL	34	
SVTxDpsn	64		SVTXLXNSYSDEFINED	150	
SVTxEdsrretrycount	12C		SVTXLXNSYSINUSE	E4	
SVTxEgr_timestamp	40		SVTxlxstat	E6	
SVTxEgr_timestamp_cpid	168		SVTxlxsysdefined	E0	
SVTxEgr_timestamp_cpid_reconfig	16A		SVTxlxsysinuse	E0	
SVTxEgr_timestamp_reconfig			SVTxmachtype	E2	
			SVtxmdeid	160	
			SVtxmlscount	BC	
			SVtxmlsmax	80	
			SVtxmlsmin	84	
			SVtxmlspool	86	
			SVtxmlsptr	78	
			SVtxmlssynch	7C	
			SVtxnsblk	78	
			SVtxrealspacealelt	108	

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
SVTXREALSPACEEAX	D0		SVTXWORKAREAPTR	404	
SVTXR0C0	D4		SVTXWORKAREASYNCH	400	
SVTXR0D6	C0		SVTXWPM	C	
SVTXR098	D6		SVTXWUQD	24	
SVTXR164	98		SVTXWUQP	4	
SVTXR172	164		SVTXWUQ1	14	
SVTXR214	172		SVTXWUQ2	18	
SVTXR310	214		SVTXWUQ3	1C	
SVTXR410	310		SVTXWUQ4	20	
SVTXSDEID	410		SVTXXMPOSTNOLLOCKTRIGGER	3C	
SVTXSPDE3	B8				
SVTXSPDE3_CPU	E8				
SVTXSPDE3_SEEN_ADDR	F0				
SVTXSPFW	F4				
SVTXSPGW	158				
SVTXSPMA	154				
SVTXSRBPROMOTIONTABLEADDR	A8				
SVTXSRBSCPID	10C				
SVTXSRBSDATD	74				
SVTXSSRCOUNT	70				
SVTXSSRCOUNT_MOVED	208				
SVTXSSRBMAX	C8				
SVTXSSRBMAX_MOVED	20C				
SVTXSSRBMIN	CC				
SVTXSSRBMIN_MOVED	20E				
SVTXSSRBPOOL	CE				
SVTXSSRBPOOL_MOVED	200				
SVTXSSRBPTR	C0				
SVTXSSRBSYNCH	204				
SVTXSVTX	200				
SVXTESQ	0				
SVXTOKENCOUNT	38				
SVXTOKENCOUNT_MOVED	308				
SVXTOKENMAX	A0				
SVXTOKENMAX_MOVED	30C				
SVXTOKENMIN	A4				
SVXTOKENMIN_MOVED	30E				
SVXTOKENPOOL	A6				
SVXTOKENPOOL_MOVED	300				
SVXTOKENPTR	98				
SVXTOKENSYNCH	304				
SVTXTR2P	300				
SVXTYPE5PCTG	4C				
SVTXWBCH	210				
SVTXWEBS	10				
SVTXWEEL	2C				
SVTXWIAD	8				
SVTXWORKAREACOUNT	3E				
SVTXWORKAREAMAX	408				
SVTXWORKAREAMIN	40C				
SVTXWORKAREAPOOL	40E				
	400				

IHATDB Information

IHATDB Programming Interface information

Programming Interface information

IHATDB

End of Programming Interface information

IHATDB Heading Information • IHATDB Map

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 Map

Offsets													
Dec	Hex	Type/Value	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								
Comment													
Bit definitions:													
End of Comment													
<table border="0"> <tr> <td>1...</td> <td>....</td> <td>TDB_FLAGS_CTV</td> <td>"X'80'" Conflict Token Validity</td> </tr> <tr> <td>.1...</td> <td>....</td> <td>TDB_FLAGS_CTI</td> <td>"X'40'" Constrained-Transaction Indication</td> </tr> </table>						1...	TDB_FLAGS_CTV	"X'80'" Conflict Token Validity	.1...	TDB_FLAGS_CTI	"X'40'" Constrained-Transaction Indication
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								
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"								

IHATDB Cross Reference

Name	Hex Offset	Hex Value
TDB	0	
TDB_ABORTEDTRANIA	18	
TDB_BEAC	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	
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	

IHATDRMT Information

IHATDRMT Programming Interface information

Programming Interface information

IHATDRMT

End of Programming Interface information

IHATDRMT Heading Information • IHATDRMT Map

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 Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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
				Comment	

Constants to identify the DSECT. Note that the constants ending with "_COPY" should use the TDRMT_COPY DSECT.

				End of Comment	
4	(4)	X'4'	0	TDRMT_IDCON_SYSLIST	"4"
4	(4)	X'8'	0	TDRMT_IDCON_GRPLIST	"8"
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"

Offsets					
Dec	Hex	Type/Value	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"

Offsets

Dec	Hex	Type/Value	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 ZEROS&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"

Offsets

Dec	Hex	Type/Value	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"

Offsets

Dec	Hex	Type/Value	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

IHATDRMT Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.... 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
		.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"

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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"

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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"

IHATDRMT Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
TDRMT	0				
TDRMT_COPY	0		TDRMT_SDATA_LSQA	4	8
TDRMT_COPY_HEADER	0		TDRMT_SDATA_NUC	4	4
TDRMT_COPY_ID	0		TDRMT_SDATA_OPTIONS	4	2
TDRMT_COPY_LEN	2	4	TDRMT_SDATA_PSA	5	8
TDRMT_COPY_LENGTH	2		TDRMT_SDATA_RGN	4	1
TDRMT_DATA	4		TDRMT_SDATA_RSVD	6	
TDRMT_GRPLIST	0		TDRMT_SDATA_SQA	5	80
TDRMT_GRPLIST_ENTRY	4		TDRMT_SDATA_SUM	5	40
TDRMT_GRPLIST_GRPNAME	4		TDRMT_SDATA_SWA	5	20
TDRMT_GRPLIST_HEADER	0		TDRMT_SDATA_TRT	5	10
TDRMT_GRPLIST_ID	0		TDRMT_SUBPLST	0	
TDRMT_GRPLIST_LEN	C	1C	TDRMT_SUBPLST_ENTRY	4	
TDRMT_GRPLIST_LENGTH	2		TDRMT_SUBPLST_HEADER	0	
TDRMT_GRPLIST_MEMNAME	C		TDRMT_SUBPLST_ID	0	
TDRMT_IDCON_GRPLIST	4	8	TDRMT_SUBPLST_LEN	4	6
TDRMT_IDCON_SDATA	4	C	TDRMT_SUBPLST_LENGTH	2	
TDRMT_IDCON_SDATA_COPY	4	D	TDRMT_SUBPLST_SUBPOOL	4	
TDRMT_IDCON_SUBPLST	4	20	TDRMT_SYSLIST	0	
TDRMT_IDCON_SYSLIST	4	4	TDRMT_SYSLIST_ASID	12	
TDRMT_LEN	4	4	TDRMT_SYSLIST_ENTRY	4	
TDRMT_LENGTH	0		TDRMT_SYSLIST_HEADER	0	
TDRMT_MODEL	0		TDRMT_SYSLIST_ID	0	
TDRMT_MODEL_ENTRY	4		TDRMT_SYSLIST_JOBNAME	C	
TDRMT_MODEL_HEADER	0		TDRMT_SYSLIST_JOBNAME_ASID	C	
TDRMT_MODEL_ID	0		TDRMT_SYSLIST_LEN	12	14
TDRMT_MODEL_LEN	4	4	TDRMT_SYSLIST_LENGTH	2	
TDRMT_MODEL_LENGTH	2		TDRMT_SYSLIST_SYSNAME	4	
TDRMT_SDATA	0		TDRMT_SYSLIST_ZEROES	C	
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					

IHATDUMP Information

IHATDUMP Heading Information

Common Name: Transaction Dump parameter list
Macro ID: IHATDUMP
DSECT Name: TDUMP
Owning Component: SVC Dump (SCDMP)
Eye-Catcher ID:
 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 Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	TDUMP	?IEATDUMP parameter list
0	(0)	CHARACTER	4	TDMPIID	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		TDMGRSQ	"X'10" SDATA=GRSQ specified
		.... 1...		TDMPLPA	"X'08" SDATA=LPA specified
		.... .1...		TDMPLSQA	"X'04" SDATA=LSQA specified
		.... ..1.		TDMNUC	"X'02" SDATA=NUC specified
		.... ...1		TDMRGN	"X'01" SDATA=RGN specified
9	(9)	BITSTRING	1	TDMPSDATA2 (0)	Second byte of SDATA options
		1...		TDMPSQA	"X'80" SDATA=SQA specified
		.1...		TDMPSUM	"X'40" SDATA=SUM specified
		..1.		TDMPSWA	"X'20" SDATA=SWA specified
		...1		TDMPTRT	"X'10" SDATA=TRT specified
		.... 1...		TDMPPSA	"X'08" SDATA=PSA specified
10	(A)	BITSTRING	1	TDMPFLAGS1 (0)	First byte of flags
		1...		TDMPSYNC	"X'80" ASYNC=YES specified
		.... ...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	TDMPPDDNAME (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	TDMPHDRALET	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

IHATDUMP Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
68	(44)	ADDRESS	4	TDMPIINTOKEN@	Incident token address
72	(48)	SIGNED	4	TDMPIINTOKENALET	
76	(4C)	ADDRESS	4	TDMPREMOTE@	Incident token alet
80	(50)	SIGNED	4	TDMPREMOTEALET	Remote area address
84	(54)	ADDRESS	4	TDMPPROBDESC@	Remote area alet
88	(58)	SIGNED	4	TDMPPROBDESCALET	Problem description address
92	(5C)	ADDRESS	4	TDMPLIST@	Problem description alet
96	(60)	SIGNED	4	TDMPLISTALET	List address
100	(64)	ADDRESS	4	TDMPSUBLST@	List alet
104	(68)	SIGNED	4	TDMPSUBLSTALET	Sublist address
108	(6C)	ADDRESS	4	TDMPDSPLIST@	Sublist alet
112	(70)	SIGNED	4	TDMPDSPLISTALET	Dsplist address
116	(74)	ADDRESS	4	TDMPECB@	Dsplist alet
120	(78)	SIGNED	4	TDMPECBALET	Ecb address
					Comment
Transaction dump return codes					
					End of Comment
120	(78)	X'0'	0	TDMPPRC_OK	"0" A complete transaction dump was taken
120	(78)	X'4'	0	TDMPPRC_PARTIAL_DUMP	"4" A partial transaction dump was taken
120	(78)	X'8'	0	TDMPPRC_NO_DUMP	"8" No transaction dump was taken
120	(78)	X'C'	0	TDMPPRC_INTERNAL_ERROR	"12" No transaction dump was taken due to an internal error
120	(78)	X'10'	0	TDMPPRC_BADAD00RETURNCODE	"16" IEAVTDMP received an unknown return code from IEAVAD00
					Comment
Transaction dump reason codes for return code = 0					
					End of Comment
120	(78)	X'0'	0	TDMPPRSN_OK	"0" A complete transaction dump was taken
					Comment
Transaction dump reason codes for return code = 4					
					End of Comment
120	(78)	X'1'	0	TDMPPRSN_DATASETTOOSMALL	"1" The data set was too small to contain the complete dump
120	(78)	X'2'	0	TDMPPRSN_CONTENTIONDETECTED	"2" Contention was detected
120	(78)	X'3'	0	TDMPPRSN_INVALIDDSNAME	"3" Couldn't build valid DSN for next dump dataset, or DSN too long
120	(78)	X'4'	0	TDMPPRSN_ALLOCFAILED	"4" Couldn't allocate the next dump dataset
120	(78)	X'5'	0	TDMPPRSN_OPENDCBFAILED	"5" Couldn't open the dump dataset
120	(78)	X'6'	0	TDMPPRSN_TOOMANYSECTIONS	"6" Too many dump sections created
120	(78)	X'7'	0	TDMPPRSN_RANGETABLEFULL	"7" A range table in SDUMP is full
120	(78)	X'8'	0	TDMPPRSN_TDUMPTOOBIG	"8" Automatically allocated TDUMP, without the &DS symbol in the DSN template, exceeds the maximum size of 2 gigabytes
					Comment
Transaction dump reason codes for return code = 8					
					End of Comment
120	(78)	X'1'	0	TDMPPRSN_PARMADDRZERO	"1" The address of the transaction dump parameter list was zero

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
120	(78)	X'2'	0	TDMPRSN_CHNGDUMPNODUMP	"2" The dump was suppressed by CHNGDUMP
120	(78)	X'3'	0	TDMPRSN_SUPPRESSEDDBSLIP	"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_BADPARMADDR	"5" The transaction dump parmlist was not addressable
120	(78)	X'6'	0	TDMPRSN_BADPARMVERSION	"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_BADDCCALET	"10" The ALET specified for the DCB in the transaction dump parmlist was not valid
120	(78)	X'B'	0	TDMPRSN_BADDCCBADDR	"11" The DCB in the transaction dump parmlist was not addressable
120	(78)	X'C'	0	TDMPRSN_BADDSSNALET	"12" The ALET specified for the DSN in the transaction dump parmlist was not valid
120	(78)	X'D'	0	TDMPRSN_BADDSSNADDR	"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
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_BADSYMRCALET	"21" The ALET specified for the SYMREC in the transaction dump parmlist was not valid
120	(78)	X'16'	0	TDMPRSN_BADSYMRCAADDR	"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_REMOTEONVALID	"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_BADLISTSTRANGE	"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_DSNAMENOTVALID	"33" The specified data set name was not valid
120	(78)	X'22'	0	TDMPRSN_DSNAMETOOLONG	

IHATDUMP Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
120	(78)	X'23'	0	TDMPRSN_DSNAMEBADSYMBOL	"34" The specified data set name was too long "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_SUPPRESSEDBYDAE	"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 "53" OPEN failed for the dump data set
120	(78)	X'35'	0	TDMPRSN_OPENFAILED	"54" Dump data set has invalid block size
120	(78)	X'36'	0	TDMPRSN_INVALIDBLOCKSIZE	"55" The DSP_RECORDS@ field was not accessible
120	(78)	X'37'	0	TDMPRSN_BADDSP_RECORDS@	"56" The DCB option is not supported
120	(78)	X'38'	0	TDMPRSN_DCBNOTSUPP	"57" The ASYNC=YES option is not supported
120	(78)	X'39'	0	TDMPRSN_ASYNCYESNOTSUPP	"58" DS SYMBOL FOUND IN MIDDLE OF DUMP DNS PATTERN
120	(78)	X'3A'	0	TDMPRSN_DSNOTATEND	"59" There is another TDUMP in progress
120	(78)	X'3B'	0	TDMPRSN_TDUMPINPROGRESS	"59" Used to define reason related array dimension - should follow last new code
120	(78)	X'3B'	0	TDMPRSN_RC8_REASONCOUNT	"0" ++Placeholder++
					Comment

Transaction dump reason codes for return code = 12

End of Comment					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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
120	(78)	X'9'	0	TDMPRSN_NOOBUFFSTOR	"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'FF'	0	TDMPRSN_RECOVERYRECEIVEDCONTROL	"255" IEAVTDMP's recovery received control unexpectedly
120	(78)	X'7C'	0	TDUMP_LEN	"*-TDUMP"

IHATDUMP Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
TDMPALLNUC	8	40		78	C
TDMPASYNC	A	80	TDMPRSN_BADDSP_RECORDS@	78	37
TDMPASYNCTARGET			TDMPRSN_BADECB	78	2A
TDMPCSA	A	2	TDMPRSN_BADHDRADDR	78	10
TDMPDCB@	1C		TDMPRSN_BADHDRALET	78	F
TDMPDCBALET	20		TDMPRSN_BADIDXADDR	78	13
TDMPDDNAME	1C		TDMPRSN_BADIDXALET	78	12
TDMPDEFS	8	80	TDMPRSN_BADINTOKENADDR	78	19
TDMPDSN@	24		TDMPRSN_BADINTOKENALET	78	18
TDMPDSNALET	28		TDMPRSN_BADLISTADDR	78	1E
TDMPDSPLIST@	6C		TDMPRSN_BADLISTALET	78	1D
TDMPDSPLISTALET			TDMPRSN_BADLISTSTRANGE	78	1F
TDMPDSPORIGIN	70		TDMPRSN_BADPARMADDR	78	5
	14		TDMPRSN_BADPARMALET	78	4
TDMPDSPRECORDS@	18		TDMPRSN_BADPARMLENGTH	78	7
TDMPDSPSTOKEN	C		TDMPRSN_BADPARMVERSION	78	6
TDMPECB@	74		TDMPRSN_BADREMOTEADDR	78	1B
TDMPECBALET	78		TDMPRSN_BADREMOTEALET	78	1A
TDMPFLAGS1	A		TDMPRSN_BADSYMRECADDR	78	16
TDMPGRSQ	8	10	TDMPRSN_BADSYMRECALET	78	15
TDMPHDR@	2C		TDMPRSN_CALLERNOTAUTH	78	20
TDMPHdralet	30		TDMPRSN_CHNGDUMPNODEUMP	78	2
TDMPID	0		TDMPRSN_CONTENTIONDETECTED	78	2
TDMPIDX@	34		TDMPRSN_DATASETTOOSMALL	78	1
TDMPIDXALET	38		TDMPRSN_DCBNOTSUPP	78	38
TDMPINTOKEN@	44		TDMPRSN_DSNAMEBADSYMBOL	78	23
TDMPINTOKENALET			TDMPRSN_DSNAMEINVALID	78	21
TDMPLEN	48		TDMPRSN_DSNAMETOOLONG	78	22
TDMLIST@	4		TDMPRSN_DSNOTATEND	78	3A
TDMLISTALET	5C		TDMPRSN_DSPSERVFAILED	78	24
TDMLPA	60		TDMPRSN_HDRTOOBIG	78	11
TDMLPSQA	8	8	TDMPRSN_IDXNOTVALID	78	14
TDMPNUC	8	4	TDMPRSN_INVALIDBLOCKSIZE	78	36
TDMPPROBDESC@	2		TDMPRSN_INVALIDDSNAME	78	3
	54		TDMPRSN_IOERROR	78	34
TDMPPROBDESCALET			TDMPRSN_LASTREASONHOLDER	78	0
	58		TDMPRSN_MORETHAN1DEST		
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_BADDCCBADDR					
	78	B			
TDMPRSN_BADDCALET					
	78	A			
TDMPRSN_BADDSNADDR					
	78	D			
TDMPRSN_BADDNSALET					

IHATDUMP Cross Reference

Name	Hex Offset	Hex Value
TDMPRSN_NOA253STOR	78	9
TDMPRSN_NODECBSTOR	78	B
TDMPRSN_NODEST	78	A
TDMPRSN_NODEST	78	8
TDMPRSN_NODSTABLE	78	5
TDMPRSN_NOESDSTOR	78	7
TDMPRSN_NOHEADER	78	E
TDMPRSN_NOOBUFSTOR	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_REMOTEINVALID	78	1C
TDMPRSN_SUPPRESSEDBYDAE	78	27
TDMPRSN_SUPPRESSEDBYSLIP	78	3
TDMPRSN_SYMRECNOTVALID	78	17
TDMPRSN_TDUMPINPROGRESS	78	3B
TDMPRSN_TDUMPTOOBIG	78	8
TDMPRSN_TOOMANYSECTIONS	78	6
TDMPSDATA	8	
TDMPSDATA1	8	
TDMPSDATA2	9	
TDMPSQA	9	80
TDMPSUBLST@	64	
TDMPSUBLSTALET	68	
TDMPSUM	9	40
TDMPSWA	9	20
TDMPSYMRREC@	3C	
TDMPSYMRCALET	40	
TDMPTRT	9	10
TDMPVERSION	6	
TDUMP	0	
TDUMP_LEN	78	7C

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
 ASCBLLWQ field of the ASCB data area
 ASCBLSWQ 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
 ASSBWML 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
 LCCAUQM 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 Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	WEB	
0	(0)	CHARACTER	4	WEBWEB	Acronym in EBCDIC- "WEB".
4	(4)	CHARACTER	4	WEBTYPEWORD	WEB type word. Serialization: Locking the WEB.
4	(4)	CHARACTER	2	WEBFLAG1	WEB Flag bytes.
4	(4)	BITSTRING	1	WEBMISCFLGS	Miscellaneous flag byte.

Comment

Bit definitions:

End of Comment

1...	WEBFLGSUM	"X'80'" Summary bit. This bit must be on when any bits are on in WEBFLAG1.
.1...	WEBSRBACTIV	"X'40'" (\$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

IHAWEB Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.... 1111		WEBMISCFLGSRSVD	
5	(5)	BITSTRING	1	WEBNDFLGS	"X'0F" Reserved. Checked by IEAVEGR. Nondispatchability flags. All of the flags in this byte indicate some form of nondispatchability.
Comment					
Bit definitions:					
End of Comment					
		1...		WEBCLND	"X'80" Suspended waiting for a Local lock.
		.1..		WEBCLND	"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		WEBNDFLGSRSVD	"X'07" Reserved. Checked by IEAVEGR.
6	(6)	BITSTRING	1	WEBFLAG2	
Comment					
Bit definitions:					
End of Comment					
		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.
		.... .1..		WEBGLOBALSRBFIRSTDISPATCH	"X'04" When on, this WEB represents a global SRB on its 1st dispatch where the global SRB had WEBCMAJOR_Flag WEBCSRB on.
		.... .1.		WEBFLAG2RSVD	"X'02" Checked in IEAVECBV
		.... .11		WEBFLAG2RSV2	"X'01" Reserved, do not use
7	(7)	BITSTRING	1	WEBTYPE	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 WEBTYPE without the WEBLOCK being held must be able to tolerate the WEBTYPE changing from WEBTCSR or WEBTESRB to WEBPSRB 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 WEBTCSR or WEBTESRB respectively, will not change to WEBPSRB. The same holds true for WEBTETCB changing to WEBTTCB.
8	(8)	CHARACTER	8	WEBLOCKDWORD	WEB Lock Doubleword. Serialization: WUQ protocol.
8	(8)	CHARACTER	4	WEBLOCK	WEB Lockword. Serialization: Compare and Swap.
8	(8)	CHARACTER	1	WEBLOCKWORD_BYTEx_1	First byte of WEB Lockword. Serialization: Compare and Swap. NOTE: All nonused bits must be zero.
Comment					
Bit definitions:					
End of Comment					
		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.
Comment					
Bit definitions:					
End of Comment					
		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.

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<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	End of Comment 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	WEBCPRTY_C	Workunit priority (char)
16	(10)	CHARACTER	2	WEBMAJOR_BYT_ES	
16	(10)	BITSTRING	1	WEBMAJFLG	Major priority halfword. Major priority flags.
Comment					
<p>Bit definitions:</p>					
1...	....	WEBCHDR			"X'80'" WUQ Header priority (-1).
.1...	....	WEBCGSRB			"X'40'" Global SRB priority.
..1...	....	WEBMAJFLGRSVD			
....1	....	WEBCMAST			"X'20'" Reserved. Checked by IEAVEGR.
....	11...	WEBMAJFLGRSVD2			"X'10'" Master address space priority.
....	...1.	WEBCLOGICALSWAPINPROMOTION			"X'0C'" Reserved. Checked by IEAVEGR.
....	....1.				"X'02'" SRM thought RCT might be starved for CPU during logical swap in. Promotion lasts only until next dispatch.
....	....1	WEBMAJFLGRSVD3			
....	....1				"X'01'" Reserved. Checked by IEAVEGR.
17	(11)	BITSTRING	1	WEBMAJOR	
18	(12)	CHARACTER	2	WEBMINOR_BYT_ES	ASCB (Major) priority.
18	(12)	BITSTRING	1	WEBMINFLG	Minor priority halfword. Minor Priority flags.
Comment					
<p>Bit definitions:</p>					
1...	....	WEBCLSRB			"X'80'" Default local SRB Priority. Note this bit is also set for a global SRB.
.1...	....	WEBCLLOCK			"X'40'" Locally locked priority.
..1...	....	WEBCMINFLGRSVD			
....1	....	WEBCCMLP			"X'20'" Reserved. Checked by IEAVEGR.
....	1...	WEBCEXIT			"X'10'" CML lock promotion priority.
....	.1..	WEBCRCT			"X'08'" Async exit priority.
....	....1.	WEBCMINOR_NONRQM_WEBMINOR			"X'04'" RCT priority.
....	....1.				"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 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			
....	....1				"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	WEBMINOR	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.

IHAWEB Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
26	(1A)	SIGNED	2	WEBLOGICAL_CPUID	Logical CPU id of CPU for which this WEB is the WUQ 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.
Comment					
Bit definitions:					
End of Comment					
		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.
Comment					
Bit definitions:					
End of Comment					
		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 WEBCLND 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.
Comment					
Bit definitions:					
End of Comment					
		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	WEBMISWORD	Word containing MISFLAGS
48	(30)	CHARACTER	1	WEBR030	Reserved
49	(31)	BITSTRING	1	WEBMISCFLAGS	Miscellaneous indicators byte. Serialization is the WEB lock.
Comment					
Bit definitions:					
End of Comment					
		1...		WEBENCRDYCOUNT	"X'80" Indicates that the current work unit is included in the home address space's enclave ready count (ASCBTCBE).
		.1...		WEBENCLLSUSQCOUNT	"X'40" Indicates that the current work unit is included in the home address space's enclave local lock suspend queue count (ASCBLSQE)
		..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.
Comment					
Note, the WEBQUEuEDAHEA values are only used when the RQM is off.					
End of Comment					
		.... .1..		WEBQUEUEDAHEA4	

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.... ....		WEBQUEUEUDAHEA2	"X'04'" A WEB of higher priority for this address space has been added in front of this one
		.... ....		WEBQUEUEUDAHEAD	"X'02'" A WEB of higher priority for this address space has been added in front of this one
		.... ....			"X'01'" A WEB of higher priority for this address space has been added in front of this one
50	(32)	SIGNED	2	WEBPRIORITYID	AscbASID or EncbPseudoID for the appropriate ASCB/ENCB
Comment					

Bit definitions:

		1...		WEBPRIORITYIDISFORENCLAVE	End of Comment
52	(34)	CHARACTER	12	WEBUNION	"X'80'" If on, EncbPseudoID
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.
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.
Comment					

Bit definitions:

		1...		WEBOFF_EWQ	End of Comment
52	(34)	CHARACTER	12	WEBCLIENTINFO	"X'80'" Indicates to global recovery that this WEB does not belong on an enclave related queue. Serialization: Enclave WEBQ lock.
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 WEBTCSRB. 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 WEBTCSRB. 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 WEBTCSRB. Serialization: ASCB WEBQ lock.
Comment					

Bit definitions:

		1...		WEBOFF_CWQ	End of Comment
64	(40)	ADDRESS	4	WEBNATIVECONTEXTPTR	"X'80'" Indicates to global recovery that this WEB does not belong on a client ASCB related queue.
68	(44)	ADDRESS	4	WEBPRIVATECONTEXTPTR	Address of this work unit's Native Context. Serialization:

IHAWEB Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
72	(48)	ADDRESS	4	WEB_CP_AFFINITY_NODE	Address of this work unit's Private Context Serialization: Node to use for CP queuing
Comment					
Bit definitions:					
End of Comment					
76	(4C)	ADDRESS	4	WEB_IFA_AFFINITY_NODE	"X'80'" Entitle nominee 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 WebCIFlags
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
Comment					
Bit definitions:					
End of Comment					
91	(5B)	BITSTRING	1	WEB_RQM_WEBCMajor_DP_SEQNUM	"X'80'" This preemptable SRB was the target of a CALLRTM TYPE=SRBTERM and is to be terminated at the next opportunity
92	(5C)	BITSTRING	1	WEB_NONRQM_WEBCMINOR_DP	"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
93	(5D)	BITSTRING	1	WEB_FRRINCONTROL	"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
94	(5E)	CHARACTER	2	WEBTSC	The subdivided RQM WEBCMajor dispatch priority sequence number. When RQM is active, all WEBs have this sequence number set.
94	(5E)	BITSTRING	1	WEBCTSM	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.
95	(5F)	BITSTRING	1	WEBCTSC	In HD=YES, number of short minors remaining which lock promote can occur for. This field is only meaningful when WebPromotion_HDYesLockPromote is on
Comment					
Bit definitions:					
End of Comment					
96	(60)	CHARACTER	2	WEBFDSP	"X'80'" Indicates first dispatch, this bit is on from dispatch until first minor
98	(62)	BITSTRING	1	WEBR060	Reserved
99	(63)	BITSTRING	1	WEBHELP_WEIGHT	Weight to use for this element during needs help processing
100	(64)	ADDRESS	4	WEB_SUP_AFFINITY_NODE	When WebPromotion_SRBSActive or WebPromotion_Lock are/is 1, the major priority to be used for this WEB. Serialization: WEB lock
104	(68)	BITSTRING	4	WEBPROMOTION_CONTROL	Node to use for SUP queuing
104	(68)	BITSTRING	1	WEBPROMOTION_FLAGS	When non-0 the highest of the active promotion priorities will be used when queuing the WEB to the WUQ if it is higher than the major priority that would normally be used
104	(68)	BITSTRING	1	WEBPROMOTION_MISC	WEB promotion flags in addition to those in WebPromotion_Misc. Serialization: Locking the WEB.

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
Bit definitions:					
				End of Comment	
				WEBPROMOTIONRSVD1	"X'F8'" Reserved, checked in IEAVECBV
				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).
				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.
				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
Comment					
Bit definitions:					
				End of Comment	
				WEBPROMOTION_MISC_RSVD	"X'FC'" Reserved, checked for 0 by IEAVECBV
				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
				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	
Comment					
Bit definitions:					
				End of Comment	
				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.
Comment					
RQM Dispatch Priority Mask Constants.					
				End of Comment	
128	(80)	BITSTRING	0	WEBCMINOR_MASK_RQM_DPS_HW	

IHAWEB Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
128	(80)	BITSTRING	0	WEBCMINOR_MASK_NONRQM_DPS_HW	"X'0FFF'" 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_MinorTOSOrNOTS, WEBCMINOR
128	(80)	X'3FF'	0	WEBCMINOR_CONST_RQM_DPS_HW	"X'FC00'" Mask of WEBCMINOR half word dispatch priorities not managed by RQM when RQM is active.
128	(80)	X'FFFC00'	0	WEBCMINOR_CONST_NONRQM_DPS_HW	"1023" Constant analog for assembler
128	(80)	X'4'	0	WEBTSRB	"-1024" Constant analog for assembler
128	(80)	X'8'	0	WEBTMSRB	"4" WEB represents an SRB.
128	(80)	X'C'	0	WEBTSSRB	"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'10'	0	WEBTESRB	"12" WEB represents an SSB.
128	(80)	X'14'	0	WEBTPSRB	"16" WEB represents an Enclave SRB. The WEB's priority is derived from the Enclave. All enclave SRBs are preemptable-class.
128	(80)	X'18'	0	WEBTFSRB	"20" WEB represents a Preemptable SRB. All Preemptable SRBs are of the preemptable-class.
128	(80)	X'24'	0	WEBTTCB	"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'28'	0	WEBTEXIT	"28" WEB represents a TCB.
128	(80)	X'2C'	0	WEBTCMLP	"32" WEB represents an Async Exit.
128	(80)	X'30'	0	WEBTWUQH	"36" WEB represents a CML Promotion.
128	(80)	X'34'	0	WEBTRSRB	"40" WEB represents a WUQ header.
128	(80)	X'38'	0	WEBTETCB	"44" WEB is free.
128	(80)	X'3C'	0	WEBTCMSP	"48" WEB represents a previously executing SRB which has been suspended by SUSPEND with token or by PAUSE or TRANSFER.
128	(80)	X'0'	0	WEBTERROR	"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'80'	0	WEBENCRDYCOUNTBITCONST	"56" WEB represents an enclave TCB. The WEB's priority is derived from the enclave.
128	(80)	X'40'	0	WEBENCLLSUSQCOUNTBITCONST	"60" WEB represents a CMS Promotion.
128	(80)	X'80'	0	WEBLCLNDBITCONST	"64" WEB is in error
128	(80)	X'80'	0	WEBENCLLSUSQCOUNTBITCONST	"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.
128	(80)	X'40'	0	WEBCLNDBITCONST	"128" Bit constant for bit position WEBCLND. Used by assembler macro generated in PL/X code.
128	(80)	X'C5C240'	0	WEBWEBCHARS	"64" Bit constant for bit position WEBCLND. Used by assembler macro generated in PL/X code.
128	(80)	X'E6C5C2'	0	ERRORWEBWEBCHARS	"C'WEB'" Acronym
128	(80)	X'80'	0	WEB_LEN	"C'EWEB'" Acronym
					"*-WEB"

IHAWEB Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
ERRORWEBWEBCHARS	80	E6C5C2	WEB_SHORTMINHDYESLOCKPROMOTE	5B	
WEB	0		WEB_SUP_AFFINITY_NODE	5D	
WEB_CP_AFFINITY_NODE	48		WEB_TOD	64	
WEB_ENTITLE_NOMINEE	48	80	WEB_TOD_LASTTIMEWUQADDED	70	
WEB_IFA_AFFINITY_NODE	4C		WEB_TOD_LASTTIMEWUQADDEDH	70	
WEB_LEN	80	80	WEB_TOD_LASTTIMEWUQADDEDL	74	
WEB_NONRQM_WEBCMINOR_DP	5C		WEB_TOD_SUSPENDED_FOR_LOCK	70	
WEB_OTHER_WEB_ALREADY_SUSPENDED	77	1	WEB_TOD_SUSPENDED_FOR_LOCK_LOW_BYTE	77	
WEB_REMAINING_TRICKLE_TIME	6C		WEBACCOUNTINGBLOCKINFO		
WEB_RQM_WEBCMAJOR_DP_SEQNUM					

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
WEBACCTBLKADDR	34		WEBENCLAVENEXTWEB	34	
WEBACCTBLKNEXTWEB	34		WEBENCLAVEPREVWEB	38	
WEBACCTBLKPREVWEB	38		WEBENCLLSUSQCOUNT	3C	
WEBACCTBLKPREVWEB	3C		WEBENCLLSUSQCOUNT	31	40
WEBCAPQ	2C		WEBENCLLSUSQCOUNTBITCONST	80	40
WEBCCMLP	12	10	WEBENCRDYCOUNT	31	80
WEBCEXIT	12	8	WEBENCRDYCOUNTBITCONST	80	80
WEBCGSRB	10	40	WEBEND	80	
WEBCHDR	10	80	WEBFDSP	5F	80
WEBCLFLAGS	5A		WEBFLAG1	4	
WEBCLIENTASCBADDR	34		WEBFLAG2	6	
WEBCLIENTINFO	34		WEBFLAG2RSVD	6	2
WEBCLIENTNEXTWEB	38		WEBFLAG2RSV2	6	1
WEBCLIENTPREVWEB	3C		WEBFLGSUM	4	80
WEBCLKLOCK	12	40	WEBFRRINCONTROL	5A	20
WEBCLOGICALSWAPINPROMOTION	10	2	WEBGLOBALSRBFIRSTDISPATCH	6	4
WEBCLSRB	12	80	WEBHASCB	14	
WEBCMAJFLG	10		WEBHELP_WEIGHT	62	
WEBCMAJFLGRSVD	10	20	WEBIFA	6	80
WEBCMAJFLGRSVD2	10	C	WEBISFORSRB	6	8
WEBCMAJFLGRSVD3	10	1	WEBLCLND	5	80
WEBCMAJOR	11		WEBLCLNDBITCONST	80	80
WEBCMAJOR_BYTES	10		WEBBLOCK	8	
WEBCMAST	10	10	WEBBLOCK_CPUID	A	
WEBCMINFLG	12		WEBBLOCKDWORD	8	
WEBCMINFLGRSVD	12	20	WEBBLOCKWORD_BYTE_1	8	
WEBCMINOR	13		WEBLOGICAL_CPUID	1A	
WEBCMINOR_BYTES	12		WEBLSQP	28	
WEBCMINOR_CONST_NONRQM_DPS_HW	80	FFFC00	WEBMISCFLAGS	31	
WEBCMINOR_CONST_RQM_DPS_HW	80	3FF	WEBMISCFLGS	4	
WEBCMINOR_MASK_NONRQM_DPS_HW	80	FC00	WEBMISCFLGSRSVD	4	F
WEBCMINOR_MASK_RQM_DPS_HW	80	3FF	WEBMISCWORD	30	
WEBCMINOR_MINORTSORNOTS	12	1	WEBNATIVECONTEXTPTR	40	
WEBCMINOR_NONRQM_WEBCMINOR	12	2	WEBNDFLGS	5	
WEBCMLABEND	4	20	WEBNDFLGSRSVD	5	
WEBCMLND	5	40	WEBOFF_AWQ	20	80
WEBCMLNDBITCONST	80	40	WEBOFF_CWQ	3C	80
WEBCMSND	5	20	WEBOFF_EWQ	3C	80
WEBCPRTY	10		WEBOFFQ	C	80
WEBCPRTY_UNION	10		WEBON_FREE_Q	8	80
WEBCPRTYC	10		WEBONASWUQ	6	40
WEBCRT	12	4	WEBONCAPQ	2C	80
WEBCSWORD1	58		WEBPAUSED	5	8
WEBCTSC	5F		WEBPOOL	14	
WEBCTSM	5E		WEBPRIORITYID	32	
WEBCURRENT_WUQ	50		WEBPRIORITYIDISFORENCLAVE	32	80
WEBDIAG1	54		WEBPRIVATECONTEXTPTR	44	
WEBDIAG3	58		WEBPROMOTION_CONTROL	68	
WEBENCLAVEADDR	34		WEBPROMOTION_DEFERSWITCHFROM	6A	2
WEBENCLAVEINFO			WEBPROMOTION_FLAGS	68	
			WEBPROMOTION_HDYESLOCKPROMOTE	68	4

IHAWEB Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
WEBPROMOTION_LOCK			WEBWUQP	C	
	68	2	WEBZIIP100	6	20
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			
WEBPROMOTIORSVD1					
	68	F8			
WEBPROMOTIORSVD2					
	6B				
WEBQUEUEDAHEAD					
	31	1			
WEBQUEUEDAHEA2					
	31	2			
WEBQUEUEDAHEA4					
	31	4			
WEBRESUMETASKONSUSPEND					
	31	10			
WEBR009					
	9				
WEBR030					
	30				
WEBR060					
	60				
WEBR078					
	78				
WEBSRBACTIV					
	4	40			
WEBSRBRETURNED					
	4	10			
WEBSRBTTERM					
	5A	80			
WEBSRBTTERMINPROGRESS					
	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			
WEBTCSR					
	80	34			
WEBTERROR					
	80	0			
WEBTESRB					
	80	10			
WEBTETCB					
	80	38			
WEBTEXIT					
	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			
WEBTUQH					
	80	28			
WEBTYPE					
	7				
WEBTYPEWORD					
	4				
WEBUHIGH					
	18				
WEBUNEXT					
	1C				
WEBUNION					
	34				
WEBUPREV					
	20				
WEBUPTR					
	18				
WEBWEB					
	0				
WEBWEBCHARS					
	80	C5C240			

IHAWEE Information

IHAWEE Heading Information

Common Name: WEB Extent Element
Macro ID: IHAWEE
DSECT Name: WEE
Owning 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: SVTWEFF field of the SVT data area
 SVTXWEEL field of the SVTX data area
 SVT_WUQH_WEE_Header field of the SVTX data area
 SVT_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 Map

Offsets

Dec	Hex	Type/Value	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

IHAWEE Cross Reference

Name	Hex Offset	Hex Value
WEE	0	
WEECOUNT	4	
WEEEND	80	
WEENEXT	8	
WEEPREV	C	
WEER012	12	
WEEWEBS	80	
WEEWEBSIZE	10	
WEEWEE	0	
WEEWUQHWEBs	80	

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 Map

Offsets					
Dec	Hex	Type/Value	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. Serialization: WUQ protocol.
8	(8)	CHARACTER	4	WUQLOCK	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.
	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. Serialization: Compare and Swap.
10	(A)	BITSTRING	2	WUQLOCK_CPUID	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.
	1...			WUQOFFQ	WUQ is not queued
16	(10)	SIGNED	4	WUQCPTY	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.
	1...			WUQCHDR	WUQ Header priority (-1).
20	(14)	ADDRESS	4	WUQAWUQ	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	
	1...				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

IHAWUQ Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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.
56	(38)	UNSIGNED	8	WUQFOREIGN_CPU_TIME (4294967300:562124488)	CPU time by priority bucket for work executed on processor not assigned to this WUQ. Serialization: Compare and swap.
88	(58)	UNSIGNED	2	WUQHELP_FLAGS	Need help flags Ownership: Supervisor Serialization: None
88	(58)	BITSTRING	1	WUQHELP_FLAG1 1...	first set of flags 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	WUQPROCCCLASS	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	WUQ_BYLPAR_PROCCLASS_BYTE0
94	(5E)	UNSIGNED	2	WUQ_BYLPAR_PROCCLASS_BYTE0	WUQ_BYLPAR_PROCCLASS_BYTE1
95	(5F)	UNSIGNED	2	WUQ_BYLPAR_PROCCLASS_BYTE1	WUQ_BYLPAR_PROCCLASS_BYTE1
95	(5F)	UNSIGNED	2	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.
96	(60)	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.
100	(64)	ADDRESS	4	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.
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 hypervisor 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_COULDOWN	Mask of online CPUs assigned to this WUQ. Serialization: Dispatcher Lock
117	(75)	CHARACTER	11	WUQR075	Mask of online CPUs assigned to this WUQ, with extra attributes Serialization: Dispatcher Lock
128	(80)	CHARACTER	76	WUQ_MASK	The mask defined as a bit. The mask must be defined first, as most parts only care about the mask
128	(80)	BITSTRING	64	CPUD_MWA_BMASK	To protect from CPUDMaxNumCPUs growing too large without noticing, should never be referenced
128	(80)	STRUCTURE	76	WUQCPU_MASK WUQCPU_MASK_ISA	Mask of online CPUs assigned to this WUQ. Serialization: Dispatcher Lock
128	(80)	CHARACTER	64	CPUD_MWA_CMASK	Mask of online CPUs assigned to this WUQ, with extra attributes Serialization: Dispatcher Lock

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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 on 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_WEBMAJOR_DP_SEQNUM (755914244351:562124488)	When RQM is active, this is WEBMAJOR dispatch priority sequence number for this affinity node. There is a 1-byte sequence number for every possible WEBMAJOR DP that could be RQMed (1 per dispatch priority). All WEBs that get added use their WEBMAJOR dispatch priority to extract the appropriate sequence number from the WUQ_RQM_WEBMAJOR_DP_SeqNum and plug it into WEB_RQM_WEBMAJOR_DP_SeqNum. This sequence number is used to create a logical group of RQM affected WEBs on a per WEBMAJOR 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 WEBMAJOR dispatch priority will be incremented to start a new equal priority non-RQM dispatch group for this WEBMAJOR 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.
336	(150)	UNSIGNED	4	WUQ_RQM_WEBs_REWUQADDED_SDP (4294967304:562124488)	Number of RQMed WEBs that were already subdivided and reWUQadded at the same subdivided dispatch priority. Serialization: CS
368	(170)	UNSIGNED	4	WUQ_SUBDIVIDED_ENCLAVES_RQM	Number of enclaves that were subdivided for Ready QueueManagement (RQM) Serialization: CS
372	(174)	UNSIGNED	4	WUQ_NONRQM_WEBs_WDI_OUTOFORDER	Number of WEBs IEAVEWDI found that were out of order due to their non-RQM dispatch priority.
376	(178)	UNSIGNED	4	WUQ_RQM_WEBs_WDI_OUTOFORDER	Number of WEBs IEAVEWDI found that were out of order due to their RQM dispatch priority.
380	(17C)	UNSIGNED	4	WUQ_RESUBDIVIDED_ENCLAVES_RQM	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)	CHARACTER	128	WUQR180	Reserved
512	(200)	CHARACTER	0	WUQEND	End of WUQ.

IHAWUQ Constants

IHAWUQ Constants

Len	Type	Value	Name	Description
Comment				
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	End of Comment
Comment				
Enclave SRB RQM constants.				
4	DECIMAL	8	WUQ_NUM_DPS_FOR_RQM	End of Comment
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.
Comment				
Constants for WUQClassPriority field. The lower the value, the higher the priority.				
1	DECIMAL	128	WUQCLASSPRIORITY_CP	End of Comment
1	DECIMAL	124	WUQCLASSPRIORITY_SUP	WUQ priority for CP
1	DECIMAL	120	WUQCLASSPRIORITY_ZAAP	WUQ priority for SUP
4	DECIMAL	1	ECPX_PARKCPU	WUQ priority for zAAP
4	DECIMAL	2	ECPX_UNPARKCPU	
4	DECIMAL	3	ECPX_REMOVECPU	
4	DECIMAL	4	ECPX_REMOVECCA	
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	

IHAWUQ Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
CPUD_MWA_ATTRIBUTES			WUQHELP_NEEDED		
C0				58	80
CPUD_MWA_BLOCKOFFSETFIRST			WUQLAST_RECALC_TIME		
C2				70	
CPUD_MWA_BLOCKOFFSETLAST			WUQLAST_SIGP		1E
C4			WUQLOCK		8
CPUD_MWA_BMASK			WUQLOCK_CPUID		A
80					
CPUD_MWA_CMASK			WUQLOCKDWORD		8
80			WUQLOCKWORD_FLAGS		8
CPUD_MWA_COUNT			WUQLOGICAL_CPUID		1A
C6					
CPUD_MWA_FLAGS			WUQOFFQ	C	80
C0			WUQPROCCCLASS	5E	
CPUD_MWA_SCATTERED			WUQPROCCCLASS_BYTE0		5E
C0	80		WUQPROCCCLASS_BYTE1		5F
WUQ	0		WUQRESET_NEEDHELP_COUNTHOOKDOWN		74
WUQ_BOOK_CROSSING_INDEX					
5A			WUQR0CC	CC	
WUQ_BYLPAR_PROCCCLASS			WUQR020	20	
5E			WUQR024	24	
WUQ_BYLPAR_PROCCCLASS_BYTE0			WUQR028	28	
5E			WUQR05D	5D	
WUQ_BYLPAR_PROCCCLASS_BYTE1			WUQR068	68	
5F			WUQR075	75	
WUQ_INACTIVE	8	80	WUQR180	180	
WUQ_MASK	80		WUQSPECIFIC_HELP_LIST		60
WUQ_NEEDHELP_PRIORITY_LEVEL					
5B			WUQTYPE	7	
WUQ_NONRQM_WEBS_WDI_OUTOFORDER			WUQTYPEWORD	4	
174			WUQWEB	0	
WUQ_RESUBDIVIDED_ENCLAVES_RQM			WUQWTSS	30	
17C			WUQWUQP	C	
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				
WUQFOREIGN_CPU_TIME					
38					
WUQGENERIC_HELP_LIST					
64					
WUQHEADER_DATA					
0					
WUQHELP_FLAGS					
58					
WUQHELP_FLAG1					
58					
WUQHELP_FLAG2					
59					
WUQHELP_LIMIT					
1C					

IHAXCVT Information

IHAXCVT Programming Interface information

Programming Interface information

IHAXCVT

End of Programming Interface information

IHAXCVT Heading Information • IHAXCVT Cross Reference

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 Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	XCVT	
0	(0)	CHARACTER	4	XCVT_XCVT	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"

IHAXCVT Cross Reference

Name	Hex Offset	Hex Value
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
XCVTR004	4	
XCVTR028	28	
XCVTR030	30	
XCVT_XCVT	0	

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 (ELSPA) OR 238 (COMMON)
 Key: 0
 Residency: ABOVE 16 MB LINE
Size: 128 BYTES
Created by: IEAVEXPM
 IEAVESVC
 IEAVEMIN
 IEAMSWCB
 IEAVESPM
Pointed to by: IHSAXSB 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 Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	200	XSBO	EXTENDED STATUS BLOCK
0	(0)	CHARACTER	0	XSBOBEGIN	BEGINNING OF XSBO.
0	(0)	CHARACTER	4	XSBOSBO	XSBO ACRONYM = 'XSBO'
4	(4)	ADDRESS	4	XSBOLINK	LINK TO NEXT AVAILABLE XSBO IN POOL. SET BY EXIT, IEAVEOR, WHEN PUTTING XSBO IN POOL. CLEARED BY STAGE 3, IEAVEEE0, WHEN ASSIGNING XSBO TO AN IRB.
4	(4)	BITSTRING	4	XSBOLG	XSBO FLAGS.
8	(8)	CHARACTER	8	XSBOMCRS	XM CONTROL REGS
8	(8)	UNSIGNED	4	XSBOMCR3	CONTROL REG 3.
8	(8)	UNSIGNED	2	XSBOKM	KEY MASK.
10	(A)	UNSIGNED	2	XSBOSASID	SECONDARY ASID.
12	(C)	UNSIGNED	4	XSBOMCR4	CONTROL REG 4.
12	(C)	UNSIGNED	2	XSB0AX	AUTHORIZATION INDEX.
14	(E)	UNSIGNED	2	XSBOPASID	PRIMARY ASID.
16	(10)	CHARACTER	8	XSB0CMLE	CML LOCK STATUS ELEMENT.
16	(10)	ADDRESS	4	XSB0XLDR	DATA FOR IDENTIFICATION OF CML REQUESTOR. ASID ASSOCIATED WITH SRB MODE CML LOCK REQUESTOR (IN XSBO OF SSRB).
20	(14)	ADDRESS	4	XSB0XLAS	ASCB ADDRESS OF CML LOCK REQUESTED/OWNED.
24	(18)	CHARACTER	8	XSB0STKE	CURRENT PCLINK STACK INFORMATION
24	(18)	UNSIGNED	2	XSB0TKN	CURRENT STACK TOKEN.
26	(1A)	UNSIGNED	2	XSB0ASD	CURRENT STACK ADDRESS SPACE DESIGNATOR.
28	(1C)	ADDRESS	4	XSB0SEL	CURRENT STACK ELEMENT ADDRESS.
32	(20)	UNSIGNED	4	XSB0RSN	SUSPEND/RESUME SEQUENCE # OWNERSHIP: SUPERVISOR CONTROL SERIALIZATION: TCBACTIV AND DISABLEMENT
36	(24)	UNSIGNED	4	XSB0EAXW	EAX VALUE WORD.
36	(24)	UNSIGNED	2	XSB0EAX	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 XSB0EAXW. THE CONTENTS OF THIS HALFWORD ARE UNPREDICTABLE.
40	(28)	ADDRESS	4	XSB0ALOV	DISPATCHABLE UNIT ACCESS LIST VIRTUAL ADDRESS.
44	(2C)	ADDRESS	4	XSB0ALD	DISPATCHABLE UNIT ACCESS LIST REAL ADDRESS.
48	(30)	CHARACTER	64	XSB0ARS	ACCESS REGISTER SAVEAREA.
48	(30)	UNSIGNED	4	XSB0AR0	ACCESS REGISTER 0.
52	(34)	UNSIGNED	4	XSB0AR1	ACCESS REGISTER 1.
56	(38)	UNSIGNED	4	XSB0AR2	ACCESS REGISTER 2.
60	(3C)	UNSIGNED	4	XSB0AR3	ACCESS REGISTER 3.
64	(40)	UNSIGNED	4	XSB0AR4	ACCESS REGISTER 4.
68	(44)	UNSIGNED	4	XSB0AR5	ACCESS REGISTER 5.
72	(48)	UNSIGNED	4	XSB0AR6	ACCESS REGISTER 6.

IHAXSBO Constants • IHAXSBO Cross Reference

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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...		XSBOLSUSB	LINKAGE STACK UNSTACK SUPPRESSION BIT.
		.1...		XSBOLSRST	IF ONE, EXIT & EXIT PROLOG WILL NOT ENFORCE THE LINKAGE STACK CHECKPOINT, JUST RESTORE THE LINKAGE STACK. SET IN THE EXITING RB.
		.1.		XSBOLSESB	LINKAGE STACK EXTRACT/MODIFY SUPPRESSION BIT. '20'X RESERVED.
		...1 1111		*	RESERVED.
113	(71)	CHARACTER	3	XSBOR071	RESERVED.
116	(74)	ADDRESS	4	XSBOLSCP	LINKAGE STACK CHECKPOINT ADDRESS.
120	(78)	ADDRESS	4	XSBOSXSBO	POINTER TO THE SXSBO.
124	(7C)	CHARACTER	4	XSBOR07C	RESERVED.
128	(80)	CHARACTER	64	XSB0G64H	64-BIT GPR HIGH HALVES
128	(80)	CHARACTER	4	XSB0G64H0	64-BIT GPR 0 BITS 0-31
132	(84)	CHARACTER	4	XSB0G64H1	64-BIT GPR 1 BITS 0-31
136	(88)	CHARACTER	4	XSB0G64H2	64-BIT GPR 2 BITS 0-31
140	(8C)	CHARACTER	4	XSB0G64H3	64-BIT GPR 3 BITS 0-31
144	(90)	CHARACTER	4	XSB0G64H4	64-BIT GPR 4 BITS 0-31
148	(94)	CHARACTER	4	XSB0G64H5	64-BIT GPR 5 BITS 0-31
152	(98)	CHARACTER	4	XSB0G64H6	64-BIT GPR 6 BITS 0-31
156	(9C)	CHARACTER	4	XSB0G64H7	64-BIT GPR 7 BITS 0-31
160	(A0)	CHARACTER	4	XSB0G64H8	64-BIT GPR 8 BITS 0-31
164	(A4)	CHARACTER	4	XSB0G64H9	64-BIT GPR 9 BITS 0-31
168	(A8)	CHARACTER	4	XSB0G64HA	64-BIT GPR 10 BITS 0-31
172	(AC)	CHARACTER	4	XSB0G64HB	64-BIT GPR 11 BITS 0-31
176	(B0)	CHARACTER	4	XSB0G64HC	64-BIT GPR 12 BITS 0-31
180	(B4)	CHARACTER	4	XSB0G64HD	64-BIT GPR 13 BITS 0-31
184	(B8)	CHARACTER	4	XSB0G64HE	64-BIT GPR 14 BITS 0-31
188	(BC)	CHARACTER	4	XSB0G64HF	64-BIT GPR 15 BITS 0-31
192	(C0)	CHARACTER	8	XSBORTRNE	ESAME VIRTUAL ADDRESS CAUSING TRANSLATION EXCEPTION IF PROGRAM INTERRUPT X'10', X'11', X'39', X'3A' END OF XSBO.
200	(C8)	CHARACTER	0	XSBOEND	

IHAXSBO Constants

Len	Type	Value	Name	Description
2	DECIMAL	10	XSBOPCNT	XSBO POOL COUNT.
2	DECIMAL	10	XSBOPXCNT	XSBO POOL EXTENT COUNT.

IHAXSBO Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
XSBO	0		XSBOAX	C	
XSBOALD	2C		XSBOBEGIN	0	
XSBOALOV	28		XSBOCMLE	10	
XSBOARA	58		XSBOEAX	24	
XSBOARB	5C		XSBOEAXW	24	
XSBOARC	60		XSBOEND	C8	
XSBOARD	64		XSBOFLAG2	70	
XSBOARE	68		XSBOFLGS	4	
XSBOARF	6C		XSB0G64H	80	
XSBOARS	30		XSB0G64HA	A8	
XSBOAR0	30		XSB0G64HB	AC	
XSBOAR1	34		XSB0G64HC	B0	
XSBOAR2	38		XSB0G64HD	B4	
XSBOAR3	3C		XSB0G64HE	B8	
XSBOAR4	40		XSB0G64HF	BC	
XSBOAR5	44		XSB0G64H0	80	
XSBOAR6	48		XSB0G64H1	84	
XSBOAR7	4C		XSB0G64H2	88	
XSBOAR8	50		XSB0G64H3	8C	
XSBOAR9	54		XSB0G64H4	90	
XSBOASD	1A		XSB0G64H5	94	

Name	Hex Offset	Hex Value
XSB0G64H6		98
XSB0G64H7		9C
XSB0G64H8		A0
XSB0G64H9		A4
XSBOKM		8
XSBOLINK		4
XSBOLSCP		74
XSBOLSESB	70	20
XSBOLSRST	70	40
XSBOLSUSB	70	80
XSBOPASID		E
XSBORTRNE		C0
XSBOR07C		7C
XSBOR071		71
XSBOSASID		A
XSBSEL		1C
XSBOSRSN		20
XSBOSTKE		18
XSBOSXSBO		78
XSBOTKN		18
XSBXLAS		14
XSBXLIDR		10
XSBXMCRS		8
XSBXMCR3		8
XSBXMCR4		C
XSBOXSBO		0

IHLMGTRC Information

IHLMGTRC Programming Interface information

Programming Interface information

IHLMGTRC

End of Programming Interface information

IHLMGTRC Heading Information • IHLMGTRC Map

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 Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0		
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
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

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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
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
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

IHLMGTRC Cross Reference

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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

IHLMGTRC Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
IDAAM01	0	FF5	IMDGPD31	0	FCD
IEFDB400A	0	F1F	IMDGPD32	0	FCE
IEFDB400B	0	F1E	IMDGPD33	0	FCF
IEFDB400C	0	F1D	IMDGPD34	0	FD0
IGGSP002	0	FF3	IMDGPD35	0	FD1
IGGSP008	0	FF4	IMDGPD36	0	FD2
IGGSP112	0	FF6	IMDGPD37	0	FD3
IGGSP119	0	FF8	IMDGPD38	0	FD4
IGGSP145	0	FFB	IMDGPD39	0	FD5
IGGSP169	0	FFE	IMDGPD40	0	FD6
IGGSP215	0	FF7	IMDGPD41	0	FD7
IGGSP235	0	FF9	IMDGPD42	0	FD8
IGGSP239	0	FFA	IMDGPD43	0	FD9
IGGSP251	0	FFC	IMDGPD44	0	FDA
IGGSP451	0	FFD	IMDGPD45	0	FDB
IHLMDMA1	0	FFF	IMDGPD46	0	FDC
IMDCICS	0	F6C	IMDGPD47	0	FDD
IMDDB2VT	0	F5F	IMDGPD48	0	FDE
IMDFSITA	0	F5A	IMDGPD49	0	FDF
IMDFSITB	0	F5B	IMDGPD50	0	FE0
IMDFSITC	0	F5C	IMDLANRA	0	F29
IMDFSITD	0	F5D	IMDLANRB	0	F2A
IMDFSIT4	0	F54	IMDLANRC	0	F2B
IMDFSIT5	0	F55	IMDLANRD	0	F2C
IMDFSIT6	0	F56	IMDLANRE	0	F2D
IMDFSIT7	0	F57	IMDLANRF	0	F2E
IMDFSIT8	0	F58	IMDLANRG	0	F2F
IMDFSIT9	0	F59	IMDLANRH	0	F30
IMDGPD00	0	FAC	IMDLANRI	0	F31
IMDGPD01	0	FAF	IMDLANRJ	0	F32
IMDGPD02	0	FB0	IMDLANRK	0	F33
IMDGPD03	0	FB1	IMDLANRL	0	F34
IMDGPD04	0	FB2	IMDLANRM	0	F35
IMDGPD05	0	FB3	IMDLANRN	0	F36
IMDGPD06	0	FB4	IMDLANRO	0	F37
IMDGPD07	0	FB5	IMDLANRP	0	F38
IMDGPD08	0	FB6	IMDLANRQ	0	F39
IMDGPD09	0	FB7	IMDLANRR	0	F3A
IMDGPD10	0	FB8	IMDLANRS	0	F3B
IMDGPD11	0	FB9	IMDLANRT	0	F3C
IMDGPD12	0	FBA	IMDLANRU	0	F3D
IMDGPD13	0	FBB	IMDLANRV	0	F3E
IMDGPD14	0	FBC	IMDLANRW	0	F3F
IMDGPD15	0	FBD	IMDLANR1	0	F20
IMDGPD16	0	FBE	IMDLANR2	0	F21
IMDGPD17	0	FBF	IMDLANR3	0	F22
IMDGPD18	0	FC0	IMDLANR4	0	F23
IMDGPD19	0	FC1	IMDLANR5	0	F24
IMDGPD20	0	FC2	IMDLANR6	0	F25
IMDGPD21	0	FC3	IMDLANR7	0	F26
IMDGPD22	0	FC4	IMDLANR8	0	F27
IMDGPD23	0	FC5	IMDLANR9	0	F28
IMDGPD24	0	FC6	IMDNFS01	0	FAB
IMDGPD25	0	FC7	IMDOSIC	0	F53
IMDGPD26	0	FC8	IMDTCAM0	0	FA0
IMDGPD27	0	FC9	IMDTCAM1	0	FA1
IMDGPD28	0	FCA	IMDTCAM2	0	FA2
IMDGPD29	0	FCB	IMDTCAM3	0	FA3
IMDGPD30	0	FCC	IMDTCAM4	0	FA4

Name	Hex Offset	Hex Value
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

IHSA Information

IHSA Heading Information

Common Name: INTERRUPT HANDLER SAVE AREA
Macro ID: IHAIHSA
DSECT Name: IHSA
Owning 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 Map

Offsets					
Dec	Hex	Type/Value	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	IHSAOOTCB	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	IHS AFLGS	IHSA FLAGS
		1....		IHSANSS	ONE OR MORE FRRS ESTABLISHED WITH EUT=YES
133	(85)	CHARACTER	3	IHSAR085	RESERVED
136	(88)	CHARACTER	64	IHS AARS	ACCESS REGISTER SAVE AREA.
136	(88)	UNSIGNED	4	IHS AAR0	ACCESS REGISTER 0 SAVE AREA.
140	(8C)	UNSIGNED	4	IHS AAR1	ACCESS REGISTER 1 SAVE AREA.
144	(90)	UNSIGNED	4	IHS AAR2	ACCESS REGISTER 2 SAVE AREA.
148	(94)	UNSIGNED	4	IHS AAR3	ACCESS REGISTER 3 SAVE AREA.
152	(98)	UNSIGNED	4	IHS AAR4	ACCESS REGISTER 4 SAVE AREA.
156	(9C)	UNSIGNED	4	IHS AAR5	ACCESS REGISTER 5 SAVE AREA.
160	(A0)	UNSIGNED	4	IHS AAR6	ACCESS REGISTER 6 SAVE AREA.
164	(A4)	UNSIGNED	4	IHS AAR7	ACCESS REGISTER 7 SAVE AREA.
168	(A8)	UNSIGNED	4	IHS AAR8	ACCESS REGISTER 8 SAVE AREA.
172	(AC)	UNSIGNED	4	IHS AAR9	ACCESS REGISTER 9 SAVE AREA.
176	(B0)	UNSIGNED	4	IHS AAR10	ACCESS REGISTER 10 SAVE AREA.
180	(B4)	UNSIGNED	4	IHS AAR11	ACCESS REGISTER 11 SAVE AREA.
184	(B8)	UNSIGNED	4	IHS AAR12	ACCESS REGISTER 12 SAVE AREA.
188	(BC)	UNSIGNED	4	IHS AAR13	ACCESS REGISTER 13 SAVE AREA.
192	(C0)	UNSIGNED	4	IHS AAR14	ACCESS REGISTER 14 SAVE AREA.
196	(C4)	UNSIGNED	4	IHS AAR15	ACCESS REGISTER 15 SAVE AREA.
200	(C8)	ADDRESS	4	IHS ALSDP	LINKAGE STACK ENTRY DESCRIPTOR (LSED) POINTER.
204	(CC)	CHARACTER	1280	IHS AFRRS	FRR STACK SAVEAREA
1484	(5CC)	CHARACTER	4	IHS AR5CC	RESERVED
1488	(5D0)	CHARACTER	100	IHS AAFPR	FPRS 1,3,5,7-15,FPCR
1488	(5D0)	CHARACTER	96	*	FPRS 1,3,5,7-15
1584	(630)	CHARACTER	4	IHS AFPCR	FPCR
1588	(634)	ADDRESS	4	IHS AESSA@	Address of IHSA's ESSA
1592	(638)	CHARACTER	64	IHS AG64H	HIGH ORDER HALVES OF 64-BIT GPRS
1656	(678)	CHARACTER	16	IHS ACPSW16	VALUE OF CURRENT PSW
1672	(688)	CHARACTER	0	IHS AEND	DOUBLE WORD ALIGN

IHSA Cross Reference

IHSA Cross Reference

Name	Hex Offset	Hex Value
IHSA		0
IHSAAFPR		5D0
IHSAAARS		88
IHSAAAR0		88
IHSAAAR1		8C
IHSAAAR10		B0
IHSAAAR11		B4
IHSAAAR12		B8
IHSAAAR13		BC
IHSAAAR14		C0
IHSAAAR15		C4
IHSAAAR2		90
IHSAAAR3		94
IHSAAAR4		98
IHSAAAR5		9C
IHSAAAR6		A0
IHSAAAR7		A4
IHSAAAR8		A8
IHSAAAR9		AC
IHSACPSW		10
IHSACPSW16		678
IHSACPUT		0
IHSAAEND		688
IHSAAESSA@		634
IHS AFLGS		84
IHS AFPCR		630
IHS AFPRS		18
IHS AFPR0		18
IHS AFPR2		20
IHS AFPR4		28
IHS AFPR6		30
IHS AFRRS		CC
IHS AGPRS		38
IHS AG64H		638
IHS ALSDP		C8
IHS ANSS	84	80
IHS ANTCB		8
IHS AOTCB		C
IHS AR078		78
IHS AR085		85
IHS AR5CC		5CC
IHS AXSB		80

IIT Information

IIT Heading Information

Common Name:	IPL Information Table (IIT)
Macro ID:	IOSDIIT
DSECT Name:	IIT, IITMLTNL, ITTDDTNL, 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:	IVTIIITP 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 Map

Offsets					
Dec	Hex	Type/Value	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	IITMLTPL	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

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	12	IITMLTNL (*)	MLT Name List
0	(0)	CHARACTER	8	IITMLTNM	MLT name
8	(8)	BITSTRING	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

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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)

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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

IIT Constants

Len	Type	Value	Name	Description
Comment				

The following constant is used to place an identifier in the IIT (field IITID).

4	CHARACTER	IIT	ITCBID	End of Comment IIT identifier
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IIT Cross Reference

Name	Hex Offset	Hex Value
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	
IITMLTCT	18	
IITMLTFL	8	
IITMLTLP	14	
IITMLTNL	0	
IITMLTNM	0	
IITMLTOP	8	80
IITTIME	C	
IITVERS	2C	

IKJTAIE Information

IKJTAIE Programming Interface information

Programming Interface information

IKJTAIE

End of Programming Interface information

IKJTAIE Heading Information • IKJTAIE Cross Reference

IKJTAIE Heading Information

Common Name: TSO Terminal Attention Interrupt Element
Macro ID: IKJTAIE
DSECT Name: TAIE
Owning 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 Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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 ATTEN. EXIT OCCURS
8	(8)	X'48'	0	TAIELNGT	"*-TAIE" LENGTH OF TAIE

IKJTAIE Cross Reference

Name	Hex Offset	Hex Value
TAIE	0	
TAIEATTN	3	
TAIEIAD	4	
TAIEIAD3	7	
TAIEIA64	7	1
TAIELNGT	8	48
TAIEMSGL	0	
TAIERSAV	8	
TAIETGET	2	

IMCB Information

IMCB Heading Information

Common Name: SYSTEM RESOURCES MANAGER USER I/O MEASUREMENT CONTROL BLOCK
Macro ID: IRAIMCB
DSECT Name: IMCB
Owning 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: IRARMIOM
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 Map

Offsets					
Dec	Hex	Type/Value	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

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	8	IMBENTY	
0	(0)	UNSIGNED	4	IMBCONNB	CONNECT TIME BASE IN 128 MICRO SECONDS
4	(4)	SIGNED	2	IMBCONNP	PERCENT CONNECT TIME IN PERCENT TIMES 100
6	(6)	SIGNED	2	IMBLPBO	OFFSET TO LOGICAL PATH BLOCK

IMCB Cross Reference

Name	Hex Offset	Hex Value
IMBCONNB	0	
IMBCONNP	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

IMDMEDIT Information

IMDMEDIT Programming Interface information

Programming Interface information

IMDMEDIT

End of Programming Interface information

IMDMEDIT Heading Information • IMDMEDIT Map

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 Map

Offsets					
Dec	Hex	Type/Value	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		IMMDDSP1	"X'0001" DISPATCHER
0	(0)	X'1'	0	IEADISP1	"IMMDSP1" DISPATCHER
		.... ...1.		IMMDDSP2	"X'0002" DISPATCHER
0	(0)	X'2'	0	IEADISP2	"IMMDSP2" DISPATCHER
		.... ...11		IMMDDSP	"X'0003" DISPATCHER
		.... ...11		IMMDDSP3	"X'0003" DISPATCHER
0	(0)	X'3'	0	IEADISP3	"IMMDSP3" DISPATCHER
0	(0)	BITSTRING	0	IMMDDSP4	"X'1004" SVC EXIT PROLOG DISPATCH
0	(0)	X'1004'	0	IEADISP4	"IMMDSP4" EXIT PROLOG DISPATCH
0	(0)	BITSTRING	0	IMDMSVC	"X'1000" SVC INTERRUPT
0	(0)	X'1000'	0	IEASVCH	"IMDMSVC" SVC INTERRUPT
0	(0)	BITSTRING	0	IMDMPCI	"X'2100" PCI I/O INTERRUPT
0	(0)	X'2100'	0	IECPCI	"IMDMPCI" PCI I/O INTERRUPT
0	(0)	BITSTRING	0	IMDMPCIX	"X'2101" PCI I/O INTERRUPT SUMMARY RCD
0	(0)	X'2101'	0	IECPICIX	"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	IEAVSLSU	"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

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	BITSTRING	0	IMDMINTG	"X'5109'" Interrogate GTF Record
0	(0)	X'5109'	0	IECINTG	"IMDMINTG" Interrogate GTF Record
0	(0)	BITSTRING	0	IMDMIO2	"X'5200'" I/O INTERRUPT
0	(0)	X'5200'	0	IECIO2	"IMDMIO2" I/O INTERRUPT
0	(0)	BITSTRING	0	IMDMIO1	"X'5201'" I/O Inter w/concurrent sense
0	(0)	X'5201'	0	IECIO1	"IMDMIO1" I/O Inter w/concurrent sense
0	(0)	BITSTRING	0	IMDMIO1X	"X'5202'" I/O INTERRUPT SUMMARY RECORD
0	(0)	X'5202'	0	IECIO1X	"IMDMIO1X" 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	IMDMP1	"X'6101'" PROGRAM INTERRUPT
0	(0)	X'6101'	0	IEAPINT	"IMDMP1" 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	ISPTPIO1	"IMDMTP1" TPIOS
0	(0)	BITSTRING	0	IMDMTP2	"X'8200'" TPIOS
0	(0)	X'8200'	0	ISPTPIO2	"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'E5FO'" 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
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

IMMDEDIT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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
0	(0)	BITSTRING	0	IMDFSITD	"X'EF5D'" FSI TRACE
0	(0)	BITSTRING	0	IMDBB2VT	"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
0	(0)	BITSTRING	0	IMDGPD00	"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	IMDGPD01	"X'EFAF'" RESERVED FOR GPD
0	(0)	BITSTRING	0	IMDGPD02	"X'EFB0'" RESERVED FOR GPD
0	(0)	BITSTRING	0	IMDGPD03	"X'EFB1'" RESERVED FOR GPD

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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'EFCB'" 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'EFCF'" 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
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	ISTRPEID	"X'EFEF'" ACF/VTAM USER BUFFER CONTENTS TRACE
0	(0)	BITSTRING	0	ISTRPTEID	"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

IMMDMEDIT Cross Reference

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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'EFFE'" 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	IECPST	"X'F201'" PCIE STORE
0	(0)	BITSTRING	0	IECPIN	"X'F301'" PCIE INT
0	(0)	BITSTRING	0	IECPDM	"X'F401'" PCIE DEMUX

IMDMEDIT Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
IDAAM01	0	EFF5	IMDEFE8	0	EFE8
IEADISP1	0	1	IMDEFE9	0	EFE9
IEADISP2	0	2	IMDEF42	0	EF42
IEADISP3	0	3	IMDEF43	0	EF43
IEADISP4	0	1004	IMDEF44	0	EF44
IEAEINT	0	6201	IMDEF45	0	EF45
IEAFRR	0	4003	IMDEF47	0	EF47
IEAPINT	0	6101	IMDEF48	0	EF48
IEASTAE	0	4002	IMDEF49	0	EF49
IEASVCH	0	1000	IMDEF52	0	EF52
IEATINT	0	6200	IMDEF6D	0	EF6D
IEAVSLSD	0	4004	IMDEF6E	0	EF6E
IEAVSLSU	0	4005	IMDEF6F	0	EF6F
IEAVSLUR	0	4006	IMDEF60	0	EF60
IECCSCH	0	5102	IMDEF62	0	EF62
IECCS1X	0	5203	IMDEF63	0	EF63
IECEOS	0	5101	IMDEF7A	0	EF7A
IECEOSX	0	5107	IMDEF7B	0	EF7B
IECHSCH	0	5103	IMDEF7C	0	EF7C
IECINTG	0	5109	IMDEF7D	0	EF7D
IECIO1	0	5201	IMDEF7E	0	EF7E
IECIO1X	0	5202	IMDEF7F	0	EF7F
IECIO2	0	5200	IMDEF70	0	EF70
IECMSCH	0	5104	IMDEF71	0	EF71
IECPDCM	0	F401	IMDEF72	0	EF72
IECPCI	0	2100	IMDEF73	0	EF73
IECPIN	0	F301	IMDEF74	0	EF74
IECPIX	0	2101	IMDEF75	0	EF75
IECPCLD	0	F101	IMDEF76	0	EF76
IECPST	0	F201	IMDEF77	0	EF77
IECRSCH	0	5106	IMDEF78	0	EF78
IECSIO	0	5100	IMDEF79	0	EF79
IECSSCH	0	5105	IMDEF8A	0	EF8A
IECXSCH	0	5108	IMDEF8B	0	EF8B
IEFDB400EA	0	EF1F	IMDEF8C	0	EF8C
IEFDB400EB	0	EF1E	IMDEF80	0	EF80
IEFDB400EC	0	EF1D	IMDEF81	0	EF81
IGGSP002	0	EFF3	IMDEF82	0	EF82
IGGSP008	0	EFF4	IMDEF83	0	EF83
IGGSP112	0	EFF6	IMDEF84	0	EF84
IGGSP119	0	EFF8	IMDEF85	0	EF85
IGGSP145	0	EFFB	IMDEF86	0	EF86
IGGSP169	0	EFFE	IMDEF87	0	EF87
IGGSP215	0	EFF7	IMDEF88	0	EF88
IGGSP235	0	EFF9	IMDEF89	0	EF89
IGGSP239	0	EFFA	IMDE5EA	0	E5EA
IGGSP251	0	EFFC	IMDE5EB	0	E5EB
IGGSP451	0	EFFD	IMDE5EC	0	E5EC
IMDCICS	0	EF6C	IMDE5ED	0	E5ED
IMDBB2VT	0	EF5F	IMDE5EE	0	E5EE
IMDEFAD	0	EFAD	IMDE5EF	0	E5EF
IMDEFAE	0	EFAE	IMDE5E2	0	E5E2
IMDEFEA	0	EFEA	IMDE5E4	0	E5E4
IMDEFEB	0	EFEB	IMDE5E5	0	E5E5
IMDEFEC	0	Efec	IMDE5E6	0	E5E6
IMDEFED	0	EFED	IMDE5E7	0	E5E7
IMDEFEE	0	EFEE	IMDE5E8	0	E5E8
IMDEFE5	0	EFE5	IMDE5E9	0	E5E9
IMDEFE6	0	EFE6	IMDE5FA	0	E5FA
IMDEFE7	0	EFE7	IMDE5FB	0	E5FB

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
IMDE5F0	0	E5F0	IMDLANRI	0	EF31
IMDE5F1	0	E5F1	IMDLANRJ	0	EF32
IMDE5F4	0	E5F4	IMDLANRK	0	EF33
IMDE5F5	0	E5F5	IMDLANRL	0	EF34
IMDE5F6	0	E5F6	IMDLANRM	0	EF35
IMDFSITA	0	EF5A	IMDLANRN	0	EF36
IMDFSITB	0	EF5B	IMDLANRO	0	EF37
IMDFSITC	0	EF5C	IMDLANRP	0	EF38
IMDFSITD	0	EF5D	IMDLANRQ	0	EF39
IMDFSIT4	0	EF54	IMDLANRR	0	EF3A
IMDFSIT5	0	EF55	IMDLANRS	0	EF3B
IMDFSIT6	0	EF56	IMDLANRT	0	EF3C
IMDFSIT7	0	EF57	IMDLANRU	0	EF3D
IMDFSIT8	0	EF58	IMDLANRV	0	EF3E
IMDFSIT9	0	EF59	IMDLANRW	0	EF3F
IMDGPD00	0	EFAC	IMDLANR1	0	EF20
IMDGPD01	0	EFAF	IMDLANR2	0	EF21
IMDGPD02	0	EFB0	IMDLANR3	0	EF22
IMDGPD03	0	EFB1	IMDLANR4	0	EF23
IMDGPD04	0	EFB2	IMDLANR5	0	EF24
IMDGPD05	0	EFB3	IMDLANR6	0	EF25
IMDGPD06	0	EFB4	IMDLANR7	0	EF26
IMDGPD07	0	EFB5	IMDLANR8	0	EF27
IMDGPD08	0	EFB6	IMDLANR9	0	EF28
IMDGPD09	0	EFB7	IMDMCSCH	0	5102
IMDGPD10	0	EFB8	IMDMCS1X	0	5203
IMDGPD11	0	EFB9	IMDMDMA1	0	EFFF
IMDGPD12	0	EFBA	IMDMDSP	0	3
IMDGPD13	0	EFBB	IMDMDSP1	0	1
IMDGPD14	0	EFBC	IMDMDSP2	0	2
IMDGPD15	0	EFBD	IMDMDSP3	0	3
IMDGPD16	0	EFBE	IMDMDSP4	0	1004
IMDGPD17	0	EFBF	IMDMEOS	0	5101
IMDGPD18	0	EFC0	IMDMEOSX	0	5107
IMDGPD19	0	EFC1	IMDMEXT	0	6201
IMDGPD20	0	EFC2	IMDMFRR	0	4003
IMDGPD21	0	EFC3	IMDMHSCH	0	5103
IMDGPD22	0	EFC4	IMDMINTG	0	5109
IMDGPD23	0	EFC5	IMDMIO1	0	5201
IMDGPD24	0	EFC6	IMDMIO1X	0	5202
IMDGPD25	0	EFC7	IMDMIO2	0	5200
IMDGPD26	0	EFC8	IMDMMSCH	0	5104
IMDGPD27	0	EFC9	IMDMPCI	0	2100
IMDGPD28	0	EFCA	IMDMPCIX	0	2101
IMDGPD29	0	EFCB	IMDMPI	0	6101
IMDGPD30	0	EFCC	IMDMPIPG	0	0
IMDGPD31	0	EFCD	IMDMRSCH	0	5106
IMDGPD32	0	EFCE	IMDMSIO	0	5100
IMDGPD33	0	EFCF	IMDMSLSD	0	4004
IMDGPD34	0	EFD0	IMDMSLSU	0	4005
IMDGPD35	0	EFD1	IMDMSLUR	0	4006
IMDGPD36	0	EFD2	IMDMSRM	0	4001
IMDGPD37	0	EFD3	IMDMSSCH	0	5105
IMDGPD38	0	EFD4	IMDMSSM	0	0
IMDGPD39	0	EFD5	IMDMSSM1	0	0
IMDGPD40	0	EFD6	IMDMSTAE	0	4002
IMDGPD41	0	EFD7	IMDMSVC	0	1000
IMDGPD42	0	EFD8	IMDMTINT	0	6200
IMDGPD43	0	EFD9	IMDMTP1	0	8100
IMDGPD44	0	EFDA	IMDMTP2	0	8200
IMDGPD45	0	EFDB	IMDMXSCH	0	5108
IMDGPD46	0	EFDC	IMDOSIC	0	EF53
IMDGPD47	0	EFDD	IMDTCAM0	0	EFA0
IMDGPD48	0	EFDE	IMDTCAM1	0	EFA1
IMDGPD49	0	EFDF	IMDTCAM2	0	EFA2
IMDGPD50	0	EFE0	IMDTCAM3	0	EFA3
IMDLANRA	0	EF29	IMDTCAM4	0	EFA4
IMDLANRB	0	EF2A	IMDTCAM5	0	EFA5
IMDLANRC	0	EF2B	IMDTCAM6	0	EFA6
IMDLANRD	0	EF2C	IMDTCAM7	0	EFA7
IMDLANRE	0	EF2D	IMDTCAM8	0	EFA8
IMDLANRF	0	EF2E	IMDTCAM9	0	EFA9
IMDLANRG	0	EF2F	IMDVSM	0	EF65
IMDLANRH	0	EF30	IRASRM	0	4001

IMDMEDIT Cross Reference

Name	Hex Offset	Hex Value
ISPTPIO1	0	8100
ISPTPIO2	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

INF Information

INF Heading Information

Common Name: VSM Information Message Table
Macro ID: IHAINF
DSECT Name: DSECT
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 Map

Offsets

Dec	Hex	Type/Value	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	INFBAADDR	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	VARIABLE INFORMATION (4294967303:562115048)
48	(30)	CHARACTER	0	INFEND	END OF MAPPING MACRO

INF Cross Reference

Name	Hex Offset	Hex Value
INFASCB	0	
INFBAADDR	8	
INFBODY	4	
INFBRENT	11	80
INFCC	E	
INFCL	10	
INFEND	30	
INFFLG	11	
INFFRMN	11	40
INFLIST	0	
INFTCB	4	
INFVAR	14	
INFVARCT	C	

IOBE Information

IOBE Programming Interface information

Programming Interface information

IOBE

End of Programming Interface information

IOBE Heading Information • IOBE Map

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 Map

Offsets					
Dec	Hex	Type/Value	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.)
Comment					

EQU X'7F' Reserved

End of Comment					
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...		IOBEPCIS	"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
7	(7)	.... ...1	1	IOBEFMT1	"X'01" Format-1 CCWs
		BITSTRING		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.
		.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.

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
					Comment
		EQU X'20' Reserved			
		EQU X'10' Reserved			
		EQU X'08' Reserved			
		EQU X'04' Reserved			
		EQU X'02' Reserved			
		EQU X'01' Reserved			
					End of Comment
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
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 being bypassed. No message or logrec entry will be created when the condition occurs.
19	(13)	BITSTRING	1	IOBEFLG4	Flag byte 4
		1...		IOBEZHPF	"X'80'" zHPF channel program - used for EXCPVR and EXCP virtual requests
20	(14)	BITSTRING	4	IOBERESCOUNT	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)	CHARACTER	15		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.

IOBE Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
IOBE	0		IOBEERPM	7	
IOEBBPER	7	40	IOBEFLG1	5	
IOBECPNM	6	20	IOBEFLG2	6	
IOBECTKN	2C		IOBEFLG3	10	
IOBEDCWOFFSET	18		IOBEFLG4	13	
IOBEDCWOFFSETVALID	10	8	IOBEFMT1	6	1
IOBEDDPC_DATA	1A		IOBEID	0	
IOBEDDPC_RC	1A		IOBEIEDB	C	
IOBEDDPC_RCQ	1B		IOBEIOT	10	10
IOBEDSMC	10	20	IOBEKEYFLDS0	10	2
IOBEEIDA	6	10	IOBELNTH	2C	30
IOBEEND	2C	30	IOBEMIDA	6	80
			IOBENOIL	10	1
			IOBENSER	10	80
			IOBENVAL	10	40

IOBE Cross Reference

Name	Hex Offset	Hex Value
IOBEP	6	40
IOBEP CIS	6	8
IOBEP MSG	7	80
IOBER COD	1C	
IOBERES COUNT	14	
IOBERES COUNT VALID	10	4
IOBES IOC	11	
IOBES PAB	5	80
IOBE TIME	12	
IOBE U PTR	8	
IOBE USER	8	
IOBE VERS	4	
IOBE VRSC	2C	1
IOBE ZHPF	13	80
IOBNOR WS	6	4
IOB2CSWS	6	2

IOCOM Information

IOCOM Programming Interface information

Programming Interface information

IOCOM

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

- IOCSSID
- IOCEMW
- IOCMCSS
- IOCPAVE
- IOCDAOATH
- IOCIECAA
- IOCOMWPT

End of Programming Interface information

IOCOM Heading Information • ICOM Map

IOCOM Heading Information

Common Name: I/O Communication area
Macro ID: IECDIOMC
DSECT Name: ICOM, ICOMW
Owning Component: I/O Supervisor (SC1C3)
Eye-Catcher ID: ICOM
Offset: ICOM-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 ICOM data area
IOWIOMC field of the IOWA data area to the ICOM data area
IOCOMWPT field of the ICOM data area to the ICOM writable
IOWIOMW field of the IOWA data area to the ICOM writable
IOCOMEX field of the ICOM data area to the ICOM extension
IOCSYNCA field of the ICOM data area to the IOS SYNCH table
Serialization: None for the readable portion of the
IOCOM. The writeable portion of the ICOM (IOCOMW), the
IOCHTFLD, is serialized using CDS instruction.
Function: ICOM contains addresses to IOS modules and
control blocks.

IOCOM Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	IOCOM	
0	(0)	X'0'	0	IECXIAVL	"IOCOM" Compatibility name
0	(0)	DBL WORD	8	(0)	
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	IOCPOST	X'80000000'+IECPST Entry address of the IOS Post Status module
8	(8)	ADDRESS	4	IOCOMWPT	"V" IECONW Pointer to modifiable part of ICOM
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'+HOSVQFRR 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" IECHOID 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	IOCDIRB	"V" IOSVIRB Pointer to default error IRB
44	(2C)	ADDRESS	4	IOCPRGID	X'80000000'+IOSPGRTM Purge Dequeue routine address
48	(30)	ADDRESS	4	IOCCHRIB	"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	IOCOSHUP	X'80000000'+IOSVSHUP Entry address of the routine to check for device reservations.
64	(40)	ADDRESS	4	IOCOMEX	IOSVIOCX Address of the ICOM 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
88	(58)	ADDRESS	4	IOCMSCQ	X'80000000'+IOCMSCQ Entry address of the Modify subchannel routine
92	(5C)	ADDRESS	4	IOCBHPCI	X'80000000'+BHPIPCI 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	IOCVARVY	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'+IECVQCNT Address of purge IPIB quiesce count decrement/post subroutine
120	(78)	ADDRESS	4	IOCASC8	"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

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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
168	(A8)	ADDRESS	4	IOCSMLF	X'80000000'+IOSVSMLF Address of IOS Storage Manager free large block entry
172	(AC)	ADDRESS	4	IOCSMPF	X'80000000'+IOSVSMPF 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'+IECVDPHT 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" IEVSHDR Pointer to EXCP storage page pool header tables
208	(D0)	ADDRESS	4	IOCIOTP	"V" IOVT Address of IOS Vector Table (IOVT)
212	(D4)	ADDRESS	4	IOCDPSV	X'80000000'+IOSRDPDV DPS Validation
216	(D8)	ADDRESS	4	IOCBind	X'80000000'+IOSVBIND IOS PAV BIND Service
220	(DC)	ADDRESS	4	IOCSCTMT	X'80000000'+IOSCSCMT 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	IOCDDRLV	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'+IOSVFBDN 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)
	.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	IOCIOQVR	IOQ Version number
	.... .1..			IOCIOQV1	"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	IOCIOSQS	"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	IOCIPID	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'+IOSCDTSR 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
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 ICOM

IOCOM Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	IOCOMW	Modifiable part of ICOM
0	(0)	DBL WORD	8	(0)	
Comment					
(Addressed by ICOMWPT)					
End of Comment					
0	(0)	CHARACTER	4	IOCIOCW	Acronym for modifiable section of the ICOM ('IOCW')
4	(4)	ADDRESS	2	IOCLENW	Length of the modifiable section of the ICOM
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	IOCMIACA	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 the CDT SSCB chain. This allows services like SSCBSCAN to check for SSCB changes.
28	(1C)	ADDRESS	4	IOCCDT	Pointer to configuration data table
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...			IOCRLFSD	"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 the that IOS record in the couple dataset has been updated.
	.... 1...			IOCGDPSHSWAP2	
	.... .1...				"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..			IOCDAOTH	"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.
	.... 1...			IOCGDPSIOT	"X'08'" If ON, indicates that GDPS supports the IO Timing trigger for HyperSwap
	.... .1..			IOCINBAND	"X'04'" If ON, indicates that in-band Key management is preferred
	.... ..1.			IOCGDPSHSWPACT	"X'02'" If ON, indicates that a HyperSwap is in the process of being performed
	.... ...1			IOCGDPSHSWPCLN	"X'01'" If ON, indicates that HyperSwap is in the process of post swap cleanup
46	(2E)	BITSTRING	2	IOCPURGQ	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	IOCIECAA	"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			IOCZHFPFIL	"X'10'" zHPF incorrect length support provided by the processor
	.... 1...			IOCSWAPMGRSETSSYSCANHSWAP	"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	

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
65	(41)	BITSTRING	3		"X'04" 0-The sysplex and/or this system is currently not enabled for hyperswap
68	(44)	ADDRESS	4	IOC_BHS_CSMARRAY@	1-The sysplex and this system are currently enabled for hyperswap
72	(48)	BITSTRING	4		Reserved
72	(48)	X'4C'	0	IOCENDW	Address of the BHS CsmArray
					Reserved
					"" End of the modifiable section of the ICOM

IOCOM Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
IECIXAVL	0	0	IOCIECAA	38	
IOC_BHS_CSMARRAY@	44		IOCIMSGA	148	
IOCACRW	11C		IOCINBAND	2D	4
IOCASCB	78		IOCIOCW	0	
IOCATTBL	44		IOCIODF	110	40
IOCBHICT	158		IOCIOPTA	14	
IOCBHSPCI	5C		IOCIOPTC	18	
IOCBIND	D8		IOCIOQSQ	114	
IOCCADSALET	3C		IOCIOQVR	112	
IOCCDT	1C		IOCIOQV1	112	1
IOCCDTIN	2C	40	IOCIOSHswap	2C	2
IOCCDTSR	138		IOCIOSSM	24	
IOCCHRB	30		IOCIOVTP	D0	
IOCCMB	E0		IOCIOWA	80	
IOCCNT	4C		IOCIOWEL	84	
IOCCNXL	70		IOCIPID	128	
IOCCPAT	20		IOCISDT	34	
IOCCPRM	88		IOCJES3HSWAP	2D	20
IOCCRWE	110	20	IOCLENW	4	
IOCCSCM	154		IOCLEVl	C4	
IOCCSSID	113		IOCLOVTBL	10C	
IOCCSTK	EC		IOCMANI	150	
IOCCUIR	13C		IOCMAP	10	
IOCCUIRQ	24		IOCMCSS	110	4
IOCCULA	2C	20	IOCMIHCA	10	
IOCDAOTH	2C	4	IOCMIHQ	14C	
IOCDDRLV	E8		IOCMSCQ	58	
IOCDIRB	28		IOCNSTP	7C	
IOCDPINC	2D	40	IOCODS	2D	80
IOCDPSV	D4		IOCEND	158	15C
IOCDPTH	C0		IOCOM	0	
IOCEMW	110	8	IOCOME	40	
IOCENDW	48	4C	IOCOWM	0	
IOCEXHDR	CC		IOCOWWPt	8	
IOCFBND	F0		IOCOPAVE	34	
IOCFDEV	118		IOCOPAVS	110	10
IOCFLAGS	110		IOCOPGCT	6	
IOCFLAG2	2C		IOCOPREFPATHS	2D	10
IOCFLAG3	2D		IOCOPRGID	2C	
IOCFLAG4	40		IOCOPRVT	12C	
IOCFLG4A	40		IOCOPST	4	
IOCGDPSHswap	2C	1	IOCOPURGQ	30	
IOCGDPSHswap2	2C	8	IOCQCNT	74	
IOCGDPSHswpact	2D	2	IOCQSCLV	111	
IOCGDPSHswpcln	2D	1	IOCRRERT	134	
IOCGDPSIOT	2D	8	IOCRSUM	C8	
IOCGENA	54		IOCRSV4	F4	
IOCHCRS	98		IOCSCHNO	124	
IOCHIDT	120		IOCSCMT	DC	
IOCHOTCT	C		IOCSCOMP	18	
IOCHPAV	40	80	IOCSCP	8C	
IOCHPAVD	40	20	IOCSDUMP	94	
IOCHPBO	40	40	IOCSHUP	3C	
IOCHSCH	50		IOCINTC	110	80
IOCHSSID	110	110	IOCPIOQC	90	
IOCHSWP	E4		IOCRLFCT	28	
IOCHTFLD	8		IOCSLFD	140	
			IOCSLFI	144	
			IOCSLFSD	2C	80
			IOCSLIH	8	
			IOCMEF	BC	

IOCOM Cross Reference

Name	Hex Offset	Hex Value
IOCSMEG	B8	
IOCSMFRR	14	
IOCSMGSZ	86	
IOCSMHDR	A0	
IOCSMLF	A8	
IOCSMLG	A4	
IOCSMMF	B4	
IOCSMMG	B0	
IOCSMPF	AC	
IOCSSCBT	1A	
IOCSSCQ	C	
IOCSTIO	1C	
IOCSTSQ	60	
IOCSVCF	68	
IOCSWAP	38	
IOCSWAPMGRSETSSYSCANHSWAP	40	8
IOCSYNCA	48	
IOCSYSTEMCANHYPERSWAP	40	4
IOCTCCW	64	
IOCUPCDS	2C	10
IOCURGC	130	
IOCVARY	6C	
IOCVOICT	0	
IOCVOID	20	
IOCVOILN	2	
IOCZHPFIL	40	10
IOCZTAB	9C	

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 Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0		
Offsets					
Dec	Hex	Type/Value	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
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

IOQ Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
30	(1E)	BITSTRING	1	IOQCSSPR	Channel subsystem priority
31	(1F)	CHARACTER	1		Reserved
32	(20)	CHARACTER	4	IOQIOS2 (0)	IOQ area 2, this area should not be initialized to zero
32	(20)	ADDRESS	4	IOQEPR	Address of IOQ Extension
36	(24)	CHARACTER	92	IOQIOS3 (0)	IOS area 3
36	(24)	BITSTRING	92	IOQDDTW1 (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

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	IOQE	
0	(0)	DBL WORD	8	(0)	Align on double word
0	(0)	BITSTRING	64	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
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.			IOQUELKNA	"X'20'" Lock was not available at least one time (UCBLOCK)
	.... 1...			IOQBYPINTG	"X'10'" Bypass interrogate processing for this I/O request
	.... 1...			IOQFORCERCVY	"X'08'" A problem with user I/O control blocks occurred. IOS sets this flag to force MIH to provide IOQ recovery.
	.... .1..			IOQECAUTED	"X'04'" The UCB is captured

Comment

EQU X'03' Reserved

End of Comment

30	(1E)	BITSTRING	1	IOQEKPRI	Priority at which this IOQ is queued to the SSCB identified in IOQESSCB
31	(1F)	BITSTRING	1		Reserved
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	IOQEIMOS	I/O management support data
58	(3A)	CHARACTER	2		Reserved
60	(3C)	ADDRESS	4	IOQEIOQX	IOQX pointer, or zero
60	(3C)	X'40'	0	IOQLEN	"*-IOQE" Length of IOQE

IOQ Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
IOQ	0		IOQSNCCW	30	
IOQ_FCX_FORMAT	24		IOQSNS	13	1
IOQ_NON_FCX_FORMAT	24		IOQSTART	C	
IOQACTV	10	80	IOQSTOR	13	4
IOQAIOQ	14		IOQSTRT	13	0
IOQALLOC	17	3C	IOQST1	13	6
IOQASID	1C		IOQTCW	40	
IOQBYPINTG	1D	10	IOQTYPE	13	
IOQCHAIN	4		IOQUCB	18	
IOQCLR	13	3	IOQWLM	10	10
IOQCSSPR	1E				
IOQDDTWA	30				
IOQDDTWT	24				
IOQDDT2	7C				
IOQDORMT	17	22			
IOQE	0				
IOQECAPTURED	1D	4			
IOQEFLAG	1D				
IOQEID	0				
IOQEIOMS	38				
IOQEIOQX	3C				
IOQEIOS	10				
IOQELEN	3C	40			
IOQUELKNA	1D	20			
IOQENCLV	20				
IOQENPFX	1D	40			
IOQEPRTR	20				
IOQEQPRI	1E				
IOQESSBP	34				
IOQESSCB	2C				
IOQESSFP	30				
IOQEXT	0				
IOQFLA	10				
IOQFLAGS	10				
IOQFORCERCY	1D	8			
IOQHIPRI	12	FF			
IOQHLT	13	2			
IOQID	0				
IOQIMEX	10	8			
IOQINCP	13	7			
IOQINTER	13	8			
IOQIOS	4				
IOQIOSB	8				
IOQIOS1	4				
IOQIOS2	20				
IOQIOS3	24				
IOQIOTCT	18				
IOQIOTQS	1D	80			
IOQIRB	50				
IOQLEN	40	80			
IOQMAREA	4				
IOQMDFY	13	5			
IOQMERGE	10	40			
IOQMIHCT	1A				
IOQMIHSF	1C				
IOQORBUA	28				
IOQPRFXO	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				

IORB Information

IORB Heading Information

Common Name: Input/Output Request Block
Macro ID: ILRIORB
DSECT Name: IORB
Owning 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 Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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	IOREAOB	Pointer operation block
12	(C)	ADDRESS	4	IORIOSB	IOSB address
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	IORSRBP	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	*	

IORB Constants • IORB Cross Reference

IORB Constants

Len	Type	Value	Name	Description
1	DECIMAL	5	IORMAXRETRIES	Max retry count

IORB Cross Reference

Name	Hex Offset	Hex Value
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	
IORSAVE	10	
IORSCMAIDAW	3	10
IORSCMRQ	3	20
IORSION	28	
IORSRBP	30	
IORTREQ	24	
IORTSMP	18	

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 either below or above the 16M line. . . from the IOS storage manager. Other IOS drivers could obtain the IOSB
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 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 Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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
		..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 IOSB and obtained from the IOS storage manager.
1	(1)	CHARACTER	1	IOSFLB	Flag byte B
		1...		IOSDIESE	Second entry to DIE
		.1..		IOSSDR	ERP doesn't 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
		.... .1..		IOSLOG	Create an OBR record.
2	(2)	CHARACTER	1	IOSFLC	Flag byte C
		1...		IOSGDPLP	With IOSGDP set, limit IOSGPMSK field to logically available paths (UCBLPM).
		.1..		IOSEIDAW	Extended 4K 8-byte IDAWs

IOSB Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.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 IOSXB BASE 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.

Comment

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.

3	(3)	CHARACTER	1	IOSPROC	End of Comment IOSPROC field
Comment					

IOSDVRID - This byte identifies the I/O driver requesting the I/O request. Driver identification values are assigned by IOS.

DCLs constants are provided at end of IOSB.

4	(4)	CHARACTER	1	IOSDVRID	End of Comment 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..		IOSLIOFF	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..		IOSNULL	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.
		.... ...1		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	IOSPKKEY	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).
		.... ..1..		IOSPGDPX	This request has a back-up copy (duplexed page)
		.... ...1		IOSCHCMP	Set by driver to indicate that the driver has built a complete channel program, IOS is not to build a standard prefix.

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<p>Field IOSCOD values - I/O completion codes IOSCOD values assigned by IOS. DCLs constants are provided at the end of the IOSB.</p> <hr/> <p>Completion codes 41 - 5F - Indicate permanent error conditions these codes will always be last entry codes to abnormal end exits.</p> <p>Completion codes 60 - 73 - Indicate conditions that IOS has detected in processing the I/O request.</p> <p>Completion codes 74 - 7E - Indicate abnormal conditions for which correction may be possible. These codes denote first entry to abnormal exits.</p> <p>Completion code 7F - Indicate normal I/O completion. It does not indicate that the I/O request completed successfully.</p> <hr/> <p>Completion code 49 - Applies only to Store and Modify subchannel requests.</p>					
End of Comment					
13	(D)	CHARACTER	1	IOSCOD	I/O completion code field.
Comment					
<p>IOSOPT and IOSOPT2 bit definitions - For Start Subchannel requests. See redefinition area for definitions for modify and store subchannel requests.</p>					
End of Comment					
14	(E)	CHARACTER	1	IOSOPT	Driver requested option byte.
	1...	....		IOSBYP	Bypass IOS channel program prefixing.
	.1...	....		IOSDEP	Device-end post requested.
	..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	....		IOSPSLL	If 0, Local lock needed for IOS Post Status processing. If 1, Local lock not needed.
	....	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.
	....	.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. IOSGPMSK contains the available retry paths. Must be initially set to zero by driver
	....	...1		IOSRELSE	Request for a stand-alone release CCW to be issued
Comment					
<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>					
End of Comment					
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).

IOSB Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.... .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 operational.

Comment

Unit Control Block (UCB) address - address to common segment.

16	(10)	ADDRESS	4	IOSUCB	End of Comment Unit Control Block address
----	------	---------	---	--------	--

Comment

IOSFCSW field - Subchannel Status Word field.

- See redefinition area for definitions for modify subchannel requests.

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.

					End of Comment
20	(14)	CHARACTER	8	IOSFCSW	8 byte subchannel CSW.
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	IOSTSAA	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
		.... .1.1		IOSDSUEX	Unit Exception
25	(19)	CHARACTER	1	IOSTSBB	Subchannel Status
25	(19)	BITSTRING	1	IOSSSTAT	Subchannel Status
		1...		IOSSPCI	Program-Controlled Interrupt
		.1...		IOSSIL	Incorrect Length
		.1.		IOSSPGC	Program Check
		....1		IOSSPTC	Protection Check
		.... 1...		IOSSCDC	Channel-Data Check
		.... .1..		IOSSCCC	Channel-Control Check
		.... ..1.		IOSSICC	Interface-Control Check
		.... ...1		IOSSCC	Chaining Check
		.... .1.1		IOSSCRF	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

Comment

					End of Comment
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.

Comment

Subchannel control field provided with the Subchannel status word (SCSW).

					End of Comment
40	(28)	BITSTRING	2	IOSSCHC	Subchannel Control field
		1...		*	Reserved for architecture
		.111		IOSFC	Function Control field.....

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
40	(28)	BITSTRING	0	IOSFSSCH	.. Start Subchannel
				IOSFHSC	.. Halt Subchannel
				IOSFCSC	.. Clear Subchannel
				IOSAC	Activity Control field.....
				IOSARSCH	.. Resume Pending
				IOSASSCH	.. Start Pending
				IOSAHSC	.. Halt Pending
				IOSACSC	.. Clear Pending
				IOSASUBA	.. Subchannel Active
				IOSADEVA	.. Device Active
41	(29)	1....	1	IOSSSPND	.. Subchannel Suspended
				IOSSC	Status Control Field.....
				IOSSALRT	.. Alert status
				IOSSINTR	.. Intermediate status
				IOSSPRIM	.. Primary status
				IOSSEC	.. Secondary status
				IOSSPNDG	.. Status pending (if bit is 0, this is simulated status).
					Comment
					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.
					End of Comment

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.

42 (2A) BITSTRING 2 IOSSNS End of Comment 1st two bytes of sense data

Comment
End of common section - start of processing dependent sections.

- .. NML - Normal I/O request processing
- .. WTO - attention processing
- .. PCI - Intermediate status processing

Dec	Hex	Type/Value	Len	Name (Dim)	End of Comment
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.

Comment
Driver Exit addresses - High order bit defines addressing mode.

Dec	Hex	Type/Value	Len	Name (Dim)	End of Comment
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.

Comment

Real Channel program - virtual and real addresses of the first CCW or the FCX TCW

Dec	Hex	Type/Value	Len	Name (Dim)	End of Comment
72	(48)	ADDRESS	4	IOSRST	Real address
76	(4C)	ADDRESS	4	IOSVST	Virtual address

Comment

Dec	Hex	Type/Value	Len	Name (Dim)	End of Comment
80	(50)	ADDRESS	4	IOSDSID	Data set ID for purge- set by driver or zero.
84	(54)	UNSIGNED	1	IOSLEVEL	IOS serialization level
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.

IOSB Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
88	(58)	CHARACTER	1	IOSFMSK	Mode set/File mask
				Comment	

				End of Comment	
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
				Comment	

				End of Comment	
90	(5A)	CHARACTER	1	IOSMDB	ERP immediate CCW oper code
91	(5B)	CHARACTER	1	IOSMDM	ERP modifier mask
				Comment	

				End of Comment	
92	(5C)	CHARACTER	8	IOSEEK	Static seek address
92	(5C)	CHARACTER	4	*	Padding
96	(60)	CHARACTER	4	IOSCTC	Start of CTC overlay- see below
				Comment	

				End of Comment	
100	(64)	CHARACTER	8	IOSEEKA	Dynamic seek address
100	(64)	ADDRESS	1	IOSSKM	M
101	(65)	ADDRESS	2	IOSSKB	BB
103	(67)	CHARACTER	4	IOSCCHH	CCHH
103	(67)	ADDRESS	2	IOSSKCC	CC
105	(69)	ADDRESS	2	IOSSKHH	HH
105	(69)	ADDRESS	1	IOSSKH1	H
106	(6A)	ADDRESS	1	IOSSKH2	H
107	(6B)	ADDRESS	1	IOSSKR	R
				Comment	

				End of Comment	
108	(6C)	CHARACTER	0	IOSEND	End of standard IOSB
				Comment	

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.					
Note - The IOSB extension cannot grow beyond the end of the IOS large block (SRIOS).					

				End of Comment	
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.
	.1.			IOSXGDP	.. 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

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
		...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...	1	IOSXFLG2 IOSXIOT	Flag byte 2..... 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 PCI (CCW+8) when prefetching (IOSP) is also set.
		.... .1..		IOSXDSMC	Set ON when Streaming Mode Control is disabled for the current I/O operation.
		.... ..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...	1	IOSXFLG3 IOSXNSER	Flag byte 3 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
		.... 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

Comment

IOS Extension miscellaneous field. Dependent based on I/O type. Specific mappings are defined below.

End of Comment

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	IOSXRSVF	Reserved IOSB extension area- initialized to zero
156	(9C)	CHARACTER	0	IOSEEND	End of IOSB w extension

Offsets

Dec	Hex	Type/Value	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

IOSB Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
136	(88)	STRUCTURE SIGNED	8 4	IOSXMSCS IOSXATI	IOS Extension Miscellaneous mapping for sense I/O requests. Attention index save area. Used to preserve the attention index while processing an unsolicited interrupt with unit check status
140	(8C)	BITSTRING 1... .... .1...	1	IOSXSFLG IOSXRAT2 IOSXRAT3	Sense flag byte USLRRAT2 save area. Used to preserve this bit while processing an unsolicited interrupt with unit check status 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

Offsets

Dec	Hex	Type/Value	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)

Offsets

Dec	Hex	Type/Value	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.

Offsets

Dec	Hex	Type/Value	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

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
44	(2C)	STRUCTURE	64	IOSPCISC	
44	(2C)	ADDRESS	4	*	IOSPIIB 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

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
40	(28)	STRUCTURE	2	*	
40	(28)	CHARACTER	2	IOSAPMSK	Redefined field

Offsets

Dec	Hex	Type/Value	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.

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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

Offsets

Dec	Hex	Type/Value	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

Offsets

Dec	Hex	Type/Value	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)

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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 IOSPOM 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 IOSPOMO are ignored, and the old LPM and/or POM are to be replaced by the new LPM/POM.
	....1111	1111		*	Reserved- initialized to zero

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
20	(14)	STRUCTURE	8	*	
20	(14)	UNSIGNED	4	IOSSID	UCB Subsystem-identification word
24	(18)	CHARACTER	4	*	Reserved

IOSB Constants

Len	Type	Value	Name	Description
			Comment	

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

IOSB Constants

Len	Type	Value	Name	Description
Comment				
Constants for the IOSIRBCC field - deferred condition codes				
End of Comment				
0	BIT	11	IOSIRBC3	Deferred condition code 3
0	BIT	01	IOSIRBC1	Deferred condition code 1
0	BIT	00	IOSIRBC0	Deferred condition code 0
Comment				
4 IOSPROC CHAR(1), SEE DCL FOR DESCRIPTION				
End of Comment				
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
1	HEX	20	IOSAUR	Unconditional Reserve
1	HEX	F8	IOSAINTER	Interrogate
1	HEX	F9	IOSAST1	Subchannel type 1 request
1	HEX	FA	IOSASNRRQ	IOS Sense Request
1	HEX	FC	IOSACLR	Clear Subchannel request
1	HEX	FD	IOSAHALT	Halt Subchannel request
1	HEX	FE	IOSAMOD	Modify Subchannel request
1	HEX	FF	IOSASTOR	Store Subchannel request
Comment				
4 IOSDVRID CHAR(1), SEE DCL FOR DESCRIPTION				
End of Comment				
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	IOSSS1ID	MSC driver
1	HEX	0A	IOSPRGID	IECVIOPM driver
1	HEX	0B	IOSVPSID	VPSS
Comment				
'0C'X CRYPTO				
End of Comment				
1	HEX	0E	IOSASMID	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	IOSAOVID	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

Len	Type	Value	Name	Description
1	HEX	85	IOSMIHID	Missing Interrupt Handler (MIH) driver
1	HEX	86	IOSPRVID	I/O Prevention Handler driver
1	HEX	87	IOSRSVID	Re-reserve service

Comment

4 IOSCOD CHAR(1), SEE DCL FOR DESCRIPTION

End of Comment				
1	HEX	41	IOSEERRC	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	IOSEXTRM	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	IOSPVTO	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
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	60	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	IOSNRMIC	Normal Completion

Comment

Field IOSSNS value - Bad sense indication

End of Comment				
2	HEX	10FE	IOSSNSBD	Value supplied for unsuccessful sense

Comment

Field IOSXRCCOD value - Reason code detailing IOSCOD value

End of Comment				
1	HEX	09	IOSXRCC9	Value indicating started I/O request timed-out
1	HEX	0A	IOSXRCC10	Value indicating queued I/O request timed-out
1	HEX	0B	IOSXRCC11	Value indicating PAV binding changed out from underneath IOSEXP request
1	HEX	0C	IOSXRCC12	Value indicating 64-bit IDAWs requested on an unsupported host
1	HEX	0D	IOSXRCC13	Value indicating an active IOQ exists with an inactive UCB.
1	HEX	0E	IOSXRCC14	Value indicating that an FCX I/O was issued to a device that does not support FCX.
1	HEX	0F	IOSXRCC15	Value indicating that the I/O request was terminated due to a HyperSwap being active.
1	HEX	10	IOSXRCC16	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	IOSXRCC17	Value indicating that the I/O request was terminated because a configuration change affected the device.

IOSB Cross Reference

IOSB Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
IOSA	F	10	IOSEPCIS	5	08
IOSAATI	4C		IOSERP	34	
IOSABN	40		IOSERR	0	20
IOSAC	28		IOSEX	0	04
IOSACHN	0	C0	IOSEXP	2	10
IOSACSCH	28	01	IOSF	F	80
IOSADEVA	29	40	IOSFC	28	70
IOSAFLGS	4B		IOSFCSCH	28	10
IOSAH SCH	28	02	IOSFCSW	14	
IOSAINTE	4B	40	IOSFCXST	1A	
IOSAINTR	4B	80	IOSFH SCH	28	20
IOSAPMSK	28		IOSFLA	0	
IOSAPR	E	02	IOSFLB	1	
IOSARSCH	28	08	IOSFLC	2	
IOSASID	6		IOSFLD	5	
IOSASIS	1	10	IOSFMSK	58	
IOSASNS	2A		IOSFSSCH	28	40
IOSASSCH	28	04	IOSGDP	2	01
IOSASUBA	29	80	IOSGDPLP	2	80
IOSATPMK	4A		IOSGPM SK	55	
IOSATSNS	2C		IOSI	F	20
IOSATTNS	2A		IOSIDR	C	04
IOSATTSC	2C		IOSINTG FAILED		
IOSATTSN	2C			1B	80
IOSATTWA	54		IOSIONRD	1	08
IOSB	0		IOSIOPID	24	
IOSBDCST	1	02	IOSIOSB	0	01
IOSBEXT	6C		IOSIPIB	2C	
IOSBEXTF	5	01	IOSIPIBP	2D	
IOSBSTD	0		IOSIRBCC	59	03
IOSBYP	E	80	IOSIRBK Y	59	F0
IOSCC	14		IOSIRBL	59	04
IOSCCHH	67		IOSLCL	C	08
IOSCCHN	0	40	IOSLEVEL	54	
IOSCCWAD	14		IOSLIOPF	5	04
IOSCCWDS	5	10	IOSLOG	1	01
IOSCC3WE	2	20	IOSMD	F	01
IOSCHCMP	C	01	IOSMDB	5A	
IOSCKEY	59		IOSMDM	5B	
IOSCOD	D		IOSME	F	40
IOSCSW	15		IOSMISC	F	80
IOSCSWCA	15		IOSMLM	F	20
IOSCSWRC	1A		IOSMLPM	F	08
IOSCTC	60		IOSMLPMO	1	80
IOSCTCDW	60		IOSMMBI	F	04
IOSCTCMD	65		IOSMMM	F	10
IOSCTCNR	2	02	IOSMMMO	1	20
IOSCTCOP	68		IOSMNORQ	5	40
IOSDCHN	0	80	IOSMPOM	F	02
IOSDCTI	56		IOSMPOMO	1	40
IOSDEP	E	40	IOSMSG	1	04
IOSDIE	44		IOSN	F	01
IOSDIESE	1	80	IOSNERP	E	08
IOSDOM	0	02	IOSNOINT	5	80
IOSDSATN	18	80	IOSNOLL	5	02
IOSDSBSY	18	10	IOSNOPTH	E	40
IOSDSCE	18	08	IOSNORTY	2	02
IOSDSCUE	18	20	IOSNORWS	2	08
IOSDSDE	18	04	IOSNOTRS	1	20
IOSDSID	50		IOSNRM	3C	
IOSDSSM	18	40	IOSOPT	E	
IOSDSTAT	18		IOSOPT2	F	
IOSDSUC	18	02	IOSP	F	40
IOSDSUEX	18	01	IOSPCHN	30	
IOSDVRID	4		IOSPCI	38	
IOSE	F	02	IOSPCIRS	34	
IOSEEK	5C		IOSPCISC	2C	
IOSEEKA	64		IOSPCIWA	54	
IOSEEND	9C		IOSPGAD	8	
IOSEIDAW	2	40	IOSPGDPX	C	02
IOSEND	6C		IOSPKEY	C	
IOSEPCIF	5	20	IOSPROC	3	

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
IOSPSLL	E	10	IOSXMIDA	80	08
IOSQISCE	E	20	IOSXMIHI	72	10
IOSRELSE	E	01	IOSXMSAV	54	
IOSRESRC	1	10	IOSXMSC	88	
IOSRST	48		IOSXMSCN	88	
IOSS	59	08	IOSXMCS	88	
IOSSALRT	29	10	IOSXNMIIH	73	40
IOSSC	29	1F	IOSXNORQ	72	80
IOSSCHC	28		IOSXNSER	80	80
IOSSDR	1	40	IOSXNVAL	80	40
IOSSESQ	1B	7F	IOSXPCIS	73	08
IOSSESTAT	1B		IOSXRAT2	8C	80
IOSSI	F	08	IOSXRAT3	8C	40
IOSSID	14		IOSXRCOD	7C	
IOSSINTR	29	08	IOSXRSVF	94	
IOSSKBB	65		IOSXSFLG	8C	
IOSSKCC	67		IOSXSILC	73	02
IOSSKHH	69		IOSXSSXA	74	
IOSSKH1	69		IOSXTIME	7D	
IOSSKH2	6A		IOSXZHPF	80	04
IOSSKM	64		IOSZ	F	04
IOSSKR	6B		IOS2CSWS	2	04
IOSSMDA	0	10			
IOSSMDB	0	08			
IOSSNS	2A				
IOSSPNDG	29	01			
IOSSPRIM	29	04			
IOSSRB	1C				
IOSSSCC	19	01			
IOSSSCCC	19	04			
IOSSCDC	19	08			
IOSSSCRF	19	01			
IOSSSEC	29	02			
IOSSSIIC	19	02			
IOSSSIL	19	40			
IOSSSPCI	19	80			
IOSSSPGC	19	20			
IOSSSPND	29	20			
IOSSSPTC	19	10			
IOSSSTAT	19				
IOSSYN	E	80			
IOSTATUS	18				
IOSTCWAD	14				
IOSTSA	18				
IOSTSBB	19				
IOSTSLL	E	04			
IOSUCB	10				
IOSUSE	20				
IOSVERIF	2	40			
IOSVST	4C				
IOSXALTS	80	10			
IOSXASPR	7E				
IOSXATI	88				
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				

IOSDCHPD Information

IOSDCHPD Programming Interface information

Programming Interface information

IOSDCHPD

End of Programming Interface information

IOSDCHPD Heading Information • IOSDCHPD Map

IOSDCHPD Heading Information

Common Name: IOSCHPD ATTRIBUTES MAPPING
Macro ID: IOSDCHPD
DSECT Name: CHPDATTR
Owning 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 Map

Offsets

Dec	Hex	Type/Value	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
	....	....		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 (PCPID). OFF - indicates that CHPDA_CHID contains an internal channel id. This bit is valid only when CHPDA_CHID_Valid is on.
	....	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

Comment

IQD Specific channel path parameter data

....	....	CHPDA_MFS_16KB	End of Comment
.1..	....	CHPDA_MFS_24KB	"X'00'" 16KB frame size
1...	....	CHPDA_MFS_40KB	"X'40'" 24KB frame size
11..	....	CHPDA_MFS_64KB	"X'80'" 40KB frame size
....	.1..	CHPDA_IQD_OSD	"X'C0'" 64KB frame size
....	..1.	CHPDA_IQD_IQDX	"X'04'" When 1, this CHPID is connected to an OSA direct-express channel
....	...1.		"X'02'" When 1, this CHPID provides connectivity to the IEDN via a bridge function

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
					Comment
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

IOSDCHPD Cross Reference

Name	Hex Offset	Hex Value
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	
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	
CHPAVRS	5	

IOSDCUIN Information

IOSDCUIN Programming Interface information

Programming Interface information

IOSDCUIN

End of Programming Interface information

IOSDCUIN Heading Information • IOSDCUIN Map

IOSDCUIN Heading Information

Common Name:	IOS Control Unit Information Mapping
Macro ID:	IOSDCUIN
DSECT Name:	CUIN
Owning Component:	IOS (SC1C3)
Eye-Catcher ID:	CUIN
	Offset: 0
	Length: 4
Storage Attributes:	Subpool: 248 or 1, use CUIN_SUBPOOL when releasing storage
	Key: IOSCUINF caller's key
	Residency: Above 16M
Size:	CUIN -- X'0020' bytes CUINENTRY -- X'0090' bytes CUIN_PATHINFO_HEADER -- X'0004' bytes CUIN_PATHINFO -- X'0018' bytes
Created by:	IOSVCUIN
Pointed to by:	N/A
Serialization:	N/A
Function:	Maps the output area associated with the IOSCUINF service.

IOSDCUIN Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	CUIN	
0	(0)	CHARACTER	32	CUINHDR (0)	
0	(0)	CHARACTER	4	CUINID	Control block id 'CUIN'
4	(4)	BITSTRING	1	CUIN_VERSION	Version number
5	(5)	BITSTRING	1	CUIN_HEADER_LENGTH	
					Length of header
6	(6)	BITSTRING	1	CUIN_SUBPOOL	CUIN area subpool
7	(7)	BITSTRING	1		Reserved
8	(8)	SIGNED	4	CUIN_TOTAL_LENGTH	
					Length of entire area that must be freed by the caller
12	(C)	SIGNED	4	CUIN_COUNT	Number of control unit entries
16	(10)	SIGNED	4	CUIN_ENTRY_LENGTH	
					Length of each entry that is returned
20	(14)	CHARACTER	12		Reserved
20	(14)	X'20'	0	CUIN_LEN	"*-CUIN"

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	CUINENTRY	
0	(0)	CHARACTER	144	CUIN_ENTRY (0)	Control unit entry
0	(0)	CHARACTER	16	CUIN_NUMBERS (0)	List of unique control unit numbers
0	(0)	SIGNED	2	CUIN_NUMBER	Control unit number
16	(10)	BITSTRING	1	CUIN_NUMBER_VALID	
17	(11)	BITSTRING	1	CUIN_CLASS	Control unit number validity mask 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	CUIN_ATTRIBUTES (0)	Control unit group "X'80'" At least one Parallel Access Volume exists in this LSS
		1... 1...		CUIN_PAV CUIN_HYPERPAV	"X'40'" HyperPAV Reserved
19	(13)	CHARACTER	1		Node descriptor
20	(14)	CHARACTER	32	CUIN_ND	
52	(34)	CHARACTER	32	CUIN_TOKEN_NED	Token NED
84	(54)	CHARACTER	32	CUIN CU_NED	Control unit NED
116	(74)	CHARACTER	20	CUIN_STATS (0)	Performance statistics
116	(74)	SIGNED	4	CUIN_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	CUIN_IO_REQUESTS	The total number of HyperPAV I/O requests for the LSS
124	(7C)	SIGNED	4	CUIN HW ALIASES IN USE	

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
128	(80)	SIGNED	4	CUIN_HW_CONCURRENT_ALIASES	The high water mark usage information on the number of in-use HyperPAV-alias devices for the LSS
132	(84)	SIGNED	4	CUIN_HW_IO_REQUESTS	The high water mark of the number of aliases concurrently in use by any HyperPAV-base for the LSS
136	(88)	SIGNED	4	CUIN_PATHINFO_OFFSET	The high water mark of IO requests
140	(8C)	CHARACTER	4	CUINENTRY_LEN	Offset into the CUIN structure where pathinfo data for this CUIN_Entry is returned
140	(8C)	X'90'	0		Reserved "**-CUINENTRY"

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	CUIN_PATHINFO_HEADER	PATHINFO data
0	(0)	SIGNED	2	CUIN_PI_ENTLEN	Length of each PI entry
2	(2)	BITSTRING	1	CUIN_PI_HDRLEN	Length of CUIN_PathInfo_Header
3	(3)	BITSTRING	1	CUIN_PI_ENTRY_NUMBER	Number of PI entries
3	(3)	X'4'	0	CUIN_PATHINFO_HEADER_LEN	"*-CUIN_PATHINFO_HEADER"

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	CUIN_PATHINFO	PathInfo Entry
0	(0)	SIGNED	2	CUIN_PI_CU	Control unit number
2	(2)	SIGNED	2	CUIN_PI_INTERFACEID	Interface Id
4	(4)	SIGNED	2	CUIN_PI_TAG	Tag
6	(6)	BITSTRING	1	CUIN_PI_CHPID	CHPID
7	(7)	BITSTRING	5	CUIN_PI_FLAGS(0)	PathInfo flags
				CUIN_PI_LA_VALIDITY_FLAGS	"X'F0'" Validity flags
				CUIN_PI_LA_DOMAIN_VALID	"X'80'" Link address domain valid
				CUIN_PI_LA_PORT_VALID	"X'40'" Link address port valid
				CUIN_PI_LA_PP_VALID	"X'20'" Link address PP valid
				CUIN_PI_LA_LOGADDR_VALID	"X'10'" Link address logical address valid
				CUIN_PI_FICON	"X'08'" CHPID is FICON
				CUIN_PI_TAG_VALID	"X'04'" Tag field is valid
7	(7)	BITSTRING	4	CUIN_PI_LINKADDRESS(0)	Reserved
12	(C)	SIGNED	4		Link address
12	(C)	BITSTRING	1	CUIN_PI_LA_DOMAIN	Domain of switch
13	(D)	BITSTRING	1	CUIN_PI_LA_PORTADDR	Destination port address for path associated with corresponding CHPID
14	(E)	BITSTRING	1	CUIN_PI_LA_PP	F-PORT and NL_PORT
15	(F)	BITSTRING	1	CUIN_PI_LOGICALADDR	Logical address
16	(10)	BITSTRING	8	CUIN_PI_WWPN	WWPN
16	(10)	X'E4C9D5'	0	CUIN_NAME	"C'CUIN'" Defines CUINID
16	(10)	X'1'	0	CUIN_CURRVRSN	"1" Current version

IOSDCUIN Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
16	(10)	X'18'	0	CUIN_PATHINFO_LEN	"*-CUIN_PATHINFO"

IOSDCUIN Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
CUIN	0		CUIN_PI_LA_PORTADDR	D	
CUIN_ATTRIBUTES	12		CUIN_PI_LA_PP	E	
CUIN_CLASS	11		CUIN_PI_LA_PP_VALID	7	20
CUIN_COUNT	C		CUIN_PI_LA_VALIDITY_FLAGS	7	F0
CUIN CU_NED	54		CUIN_PI_LINKADDRESS	C	
CUIN_CURRVRSN	10	1	CUIN_PI_LOGICALADDR	F	
CUIN_ENTRY	0		CUIN_PI_TAG	4	
CUIN_ENTRY_LENGTH	10		CUIN_PI_TAG_VALID	7	4
CUIN_HEADER_LENGTH	5		CUIN_PI_WWPN	10	
CUIN_HW_ALIASES_IN_USE	7C		CUIN_STATS	74	
CUIN_HW_CONCURRENT_ALIASES	80		CUIN_SUBPOOL	6	
CUIN_HW_IO_REQUESTS	84		CUIN_TOKEN_NED	34	
CUIN_HYPERPAV	12	40	CUIN_TOTAL_LENGTH	8	
CUIN_IO_REQUESTS	78		CUIN_VERSION	4	
CUIN_LEN	14	20	CUINENTRY	0	
CUIN_NAME	10	E4C9D5	CUINENTRY_LEN	8C	90
CUIN ND	14		CUINHDR	0	
CUIN_NO_ALIAS_IO	74		CUINID	0	
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			

IOSDDACH Information

IOSDDACH Programming Interface information

Programming Interface information

IOSDDACH

End of Programming Interface information

IOSDDACH Heading Information • IOSDDACH Map

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 IOSECDCDR or IOSVLPEP or IOSVVSWR
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 Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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) reserved
11	(B)	CHARACTER	1		
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"

Comment

Qualifier dependent areas follow.

Qualifier dependent area for I/O subchannel change.

End of Comment

12	(C)	BITSTRING	1	DACH_IO_FIELDS (0)	
12	(C)	SIGNED	2	DACH_IO_DEVN	Device number undergoing a subchannel change

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
14	(E)	CHARACTER	4	DACH_IO_DTYP	Device type from UCBTYP
18	(12)	BITSTRING	1	DACH_IO_SSID	Subchannel set of the device number
18	(12)	X'7'	0	DACH_IO_FIELDS_LEN	"-DACH_IO_FIELDS"
Comment					
Qualifier dependent area for IO resource accessible					
End of Comment					
12	(C)	BITSTRING	1	DACH_IORA_FIELDS (0)	
12	(C)	SIGNED	2	DACH_IORA_DEVN	Device number becomming 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	
	.1...				"X'80" On if device was online
				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
20	(14)	BITSTRING	1	DACH_IORA_SSID	Subchannel set ID associated with the IO resource
21	(15)	CHARACTER	23		Reserved
Comment					
Value for DACHID					
End of Comment					
21	(15)	X'C1C3C8'	0	DACHDACH	"C'DACH'" DACH control block ID
Comment					
Value for DACHVERS					
End of Comment					
21	(15)	X'1'	0	DACHVERC	"1" DACH version number
Comment					
Value for DACHDEVC					
End of Comment					
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
Comment					
Value for DACH_TRAN_MODE					
End of Comment					
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.
Comment					
Value for DACH_PCIE_EVENT					
End of Comment					
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	

IOSDDACH Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
"**-DACH_IORA_FIELDS"					
Comment					
Qualifier dependent area for CDR change (add or delete CDR record)					
End of Comment					
12	(C)	BITSTRING	1	DACH_CCDR_FIELDS (0)	
12	(C)	CHARACTER	8	DACH_CCDR_TIMESTAMP (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_CDRLEN	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"	
Comment					
Qualifier dependent area for Parallel Access Volume changes.					
End of Comment					
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
	..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_ALIASMBIVALID	"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_DEVICEBUSYDTIME	Device busy delay time
28	(1C)	SIGNED	4	DACH_PAV_CUBUSYDTIME	CU busy delay time
32	(20)	SIGNED	4	DACH_PAV_DPORTBUSYDTIME	Destination port busy delay time
36	(24)	SIGNED	2	DACH_PAV_DEVNALIAS	Device number of PAV-Alias device if this is a bind or unbind request

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
38	(26)	SIGNED	2	DACH_PAVBASEMBI	MBI for base device
40	(28)	SIGNED	2	DACH_PAVALIASMBI	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"

Comment

Qualifier dependent area for Switch table change.

End of Comment

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"

Comment

Qualifier dependent area for Device Offline and In Use by System Component

End of Comment

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"

Comment

Qualifier dependent area for Control Unit Transitions

End of Comment

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"

Comment

Qualifier dependent area for PCIE Device Event

End of Comment

12	(C)	BITSTRING	1	DACH_PCIE_FIELDS (0)	
12	(C)	SIGNED	4	DACH_PCIE_PFIG	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

IOSDDACH Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<p>Values for DACH qualifier number field (DACHQN). This is part of the ENF qualifier.</p>					
				End of Comment	
....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
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
Comment					
<p>Values for DACTYPE 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 DACTYPE field. These are types defining the IO subchannel change qualifier number.</p>					
				End of Comment	
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
Comment					
<p>Values for DACTYPE field. These are types defining the IO resource available qualifier number.</p>					
				End of Comment	
21 (15) X'D7C540'	0	DACLPE			"C'LPE'" Logical path established type.
Comment					
<p>Values for DACTYPE field. These are types defining the change CDR qualifier number.</p>					
				End of Comment	
21 (15) X'C3C4D9'	0	DACHACDR			"CACDR'" Change CDR is an add CDR record
21 (15) X'C3C4D9'	0	DACHDCDR			"CDCDR'" Change CDR is a delete CDR record
Comment					
<p>Values for DACTYPE field. This type is for the set of Parallel Access Volumes Alias UCBs.</p>					
				End of Comment	
21 (15) X'C1E5E2'	0	DACHPAVS			"CPAVS'" Change in the set of PAV-alias devices

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
					Comment
Values for DACTYPE field. This type is for the Adjunct Processor Information.					
21	(15)	X'D7C940'	0	DACHAPI	End of Comment "C'API'" Change in the Adjunct Processor Info
					Comment
Values for DACTYPE field. These fields define the Port Record update.					
21	(15)	X'E6E3C2'	0	DACHSWTB	End of Comment "C'SWTB'" Change in the Port State
					Comment
Values for DACTYPE field. This type is for the Device Offline and In Use by System Component ENF.					
21	(15)	X'C1D3C3'	0	DACHNALOC	End of Comment "C'NALC'" Offline device in use
					Comment
Values for DACTYPE field. This type is for the Control Unit Transition event					
21	(15)	X'D9C1D5'	0	DACTYPETRAN	End of Comment "C'TRAN'" Transition
					Comment
Values for DACTYPE field. This type is for the PCIE Online/Offline event					
21	(15)	X'C3C9C5'	0	DACTYPEPCIE	End of Comment "C'PCIE'" PCIE Event
21	(15)	X'20'	0	DACH_PCIE_FIELDS_LEN	"*-DACH_PCIE_FIELDS"

IOSDDACH Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
DACH	0		DACH_IO_DEVN	C	
DACH_BASEPAV_TRANSITION	15	2	DACH_IO_DTYP	E	
DACH_CCDR_CDRADR	1C		DACH_IO_FIELDS	C	
DACH_CCDR_CDRLEN	1A		DACH_IO_FIELDS_LEN	12	7
DACH_CCDR_CHPID	20		DACH_IO_SSID	12	
DACH_CCDR_DATE	C		DACH_IORA_CHPD	12	
DACH_CCDR_DEVN	14		DACH_IORA_DEVN	C	
DACH_CCDR_DTYP	16		DACH_IORA_DTYP	E	
DACH_CCDR_FIELDS	C		DACH_IORA_FIELDS	C	
DACH_CCDR_FIELDS_LEN	20	15	DACH_IORA_FIELDS_LEN	15	20
DACH_CCDR_TIME	10		DACH_IORA_FLAGS	13	
DACH_CCDR_TIMESTP	C		DACH_IORA_ONLI	13	80
DACH_HYPERPAV_TRANSITION	15	1	DACH_IORA_SSID	14	
			DACH_IORA_VARY_DEV	13	40

IOSDDACH Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
DACH_LEN	40	40		C	
DACH_NALOC	C		DACH_TRAN_FIELDS_LEN	F	20
DACH_NALOC_FIELDS	C		DACH_TRAN_MODE	E	
DACH_NALOC_FIELDS_LEN	2C	20	DACHACDR	15	C3C4D9
DACH_PAV_ALIASMBIVALID	E	4	DACHAPI	15	D7C940
DACH_PAV_BASEMBIVALID	E	8	DACHCCDR	15	3
DACH_PAV_CNT	10		DACHDACH	15	C1C3C8
DACH_PAV_CUBUSYDTIME	1C		DACHDCDR	15	C3C4D9
DACH_PAV_DBT_VALID	E	2	DACHDEVC	5	
DACH_PAV_DEVICEBUSYDTIME	18		DACHHTCU	15	C3E4
DACH_PAV_DEVN	C		DACHHTIO	15	C9D6
DACH_PAV_DEVNalias	24		DACHEND	40	
DACH_PAV_DPORTBUSYDTIME	20		DACHID	0	
DACH_PAV_FIELDS	C		DACHIO	15	1
DACH_PAV_FIELDS_LEN	2B	20	DACHIO_AS	15	1001
DACH_PAV_FLGS	E		DACHIORA	15	2
DACH_PAV_SCHIBDATA	18		DACHIORA_AS	15	1002
DACH_PAV_SSIDALIAS	2A		DACHIPI	15	D7C940
DACH_PAV_SSIDBASE	12		DACHIPM	15	D7D440
DACH_PAV_TOKN	14		DACHIPR	15	D7D940
DACH_PAVALIASMBI	28		DACHLPE	15	D7C540
DACH_PAVBASEMBI	26		DACHNAC	15	7
DACH_PAVBIND	E	80	DACHNALOC	15	C1D3C3
DACH_PAVSCHIBDATAVALID	E	10	DACHNALOCUCB	C	
DACH_PAVUNBIND	E	40	DACHPAV	15	4
DACH_PAVUNBINDALL	E	20	DACHPAV_AS	15	1004
DACH_PCIE_DEVICE_OFFLINE	15	2	DACHPAVS	15	C1E5E2
DACH_PCIE_DEVICE_ONLINE	15	1	DACHPCIE	15	9
DACH_PCIE_DEVID	10		DACHQAPI	15	5
DACH_PCIE_EVENT	14		DACHQC	2C	
DACH_PCIE_FIELDS	C		DACHQN	2E	
DACH_PCIE_FIELDS_LEN	15	20	DACHQUALD	C	
DACH_PCIE_PFID	C		DACHRES	30	
DACH_PCIE_VENDID	12		DACHSTC	15	6
DACH_ST_FIELDS	C		DACHSWTB	15	E6E3C2
DACH_ST_FIELDS_LEN	10	6	DACHTRAN	15	8
DACH_SW_PORTNUMBER	10		DACHTYPE	7	
DACH_SW_SWITCHNUMBER	C		DACHTYPEPCIE	15	C3C9C5
DACH_TRAN CU	C		DACHTYPEPETRAN	15	D9C1D5
DACH_TRAN_FIELDS			DACHUCBC	2C	

IOSDDCMI Information

IOSDDCMI Programming Interface information

Programming Interface information

IOSDDCMI

End of Programming Interface information

IOSDDCMI Heading Information • IOSDDCMI Map

IOSDDCMI Heading Information

Common Name: Dynamic Channel Path Management Information Area
Macro ID: IOSDDCMI
DSECT Name: IOSDDCMI
Owning Component: I/O Supervisor (SC1C3)
Eye-Catcher ID:
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: IOSDDCMI maps the Dynamic Channel Path Management (DCM) information returned by the IOCINFO DCMINFO service.

IOSDDCMI Map

Offsets					
Dec	Hex	Type/Value	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 monplex.
	..1.			DCMIMULTISYSTEM	"X'20'" When set to 1, indicates the system is a member of a multisystem cluster.
	....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....			DCMINOCFCONNECT	"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.			DCMINOMGDCHPPIDS	"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....			DCMICHTPTERROR	"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			DCMINOLPARSEURITY	"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

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
11	(B)	BITSTRING	1	DCMINODYNAMICIO	"X'04'" When set to 1, indicates that dynamic I/O changes to the channel subsystem are not allowed on this image
				DCMIDCMINGROUP	"X'02'" When set to 1, indicates that the DCM Group has been joined
				DCMINNDError	"X'01'" When set to 1, neighbor node descriptor topology has not been built
				DCMILOCALREASON2	DCM flags which indicate the reasons why DCM is not fully operational on this system image within a multisystem cluster.
12	(C)	CHARACTER	20	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
					Available

IOSDDCMI Cross Reference

Name	Hex Offset	Hex Value
DCMI	0	
DCMIACTIVE	8	80
DCMICHPERROR	A	80
DCMIDCMINGROUP	A	2
DCMIGLOBALREASON	9	
DCMIGOALMODE	8	10
DCMIID	0	
DCMILOCALMONO	8	40
DCMILOCALREASON	A	
DCMILOCALREASON2	B	
DCMIMULTISYSTEM	8	20
DCMINNDError	A	1
DCMINOALGORITHMS	A	8
DCMINOCFCONNECT	9	80
DCMINODYNAMICIO	A	4
DCMINOHSATOKEN	9	40
DCMINOHWFACILITIES	9	10
DCMINOLPARSEURITY	A	10
DCMINOMGDCHPIDS	9	20
DCMINOMGDSUBSYSTEMS	A	20
DCMISETOFF	9	8
DCMISTATUSFLAGS	8	
DCMISWITCHTABLESYNCHRONIZED	B	80
DCMISWTBERROR	A	40
DCMIVERSION	4	

IOSDDEVI Information

IOSDDEVI Programming Interface information

Programming Interface information

IOSDDEVI

End of Programming Interface information

IOSDDEVI Heading Information • IOSDDEVI Map

IOSDDEVI Heading Information

Common Name: Device information mapping
Macro ID: IOSDDEVI
DSECT Name: DEVI
Owning 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 Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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	DEVIOFRS (0)	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.
		.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'02'" Indicates that the input device is a HyperPAV device. This implies that DEVIPAVH 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_BYT0 (0)	

Comment

Device facilities area byte 0

		1...	DEVIFCX	End of Comment
		.1...	DEVIMIDA	"X'80'" The FICON Channel Extensions (FCX) facility (i.e., High Performance FICON) is supported
13	(D)	BITSTRING	1	DEVIFACL_BYT0 (0)
				"X'40'" Device supports MIDAWs

Comment

Device facilities area byte 1

				End of Comment
13	(D)	BITSTRING	1	Reserved
14	(E)	BITSTRING	1	DEVIFACL_BYT2 (0)

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
Device facilities area byte 2					
14	(E)	BITSTRING	1		End of Comment
15	(F)	BITSTRING	1	DEVIFACL_BYTE3 (0)	Reserved
Comment					
Device facilities area byte 3					
15	(F)	BITSTRING	1		End of Comment
16	(10)	CHARACTER	2	DEVIFLAG1 (0)	Reserved
16	(10)	BITSTRING	1	DEVIFLAG1_BYT0 (0)	Device information flags
				1...	Device information flags byte 0
				.1...	"X'80'" This device supports dynamic
				.1.	"X'40'" This device is dynamic
				...1....	"X'20'" Customer has requested dynamic alias tuning by WLM for this device
				...1....	"X'10'" This device is currently pinned
				.... 1...	"X'08'" This device is currently unavailable for allocation
18	(12)	CHARACTER	238		Reserved
18	(12)	X'100'	0	DEVI_LEN	"*-DEVI"

IOSDDEVI Cross Reference

Name	Hex Offset	Hex Value
DEVI	0	
DEVI_LEN	12	100
DEVIALOC	2	20
DEVIALVA	0	40
DEVICRSN	2	8
DEVICUIR	2	4
DEVIDYN	10	40
DEVIDNSUP	10	80
DEVIFACA	0	20
DEVIFACL	C	
DEVIFACL_BYT0	C	
DEVIFACL_BYT1	D	
DEVIFACL_BYT2	E	
DEVIFACL_BYT3	F	
DEVIFCTN	0	
DEVIFCX	C	80
DEVIFLAG1	10	
DEVIFLAG1_BYT0	10	
DEVIHPPC	4	
DEVIHRSN	2	40
DEVILRSN	2	10
DEVIMIDA	C	40
DEVIOFRS	2	
DEVIOFSA	0	80
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

IOSDE63R Information

IOSDE63R Programming Interface information

Programming Interface information

IOSDE63R

End of Programming Interface information

IOSDE63R Heading Information • IOSDE63R Map

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: IOSVHSPW (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 Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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

Comment

EQU X'04' Reserved for GDPS/OS use

				End of Comment
	....	.1.1		E63RSOURCEEOS
		....	.11.	E63RSOURCEIOT
				"X'05" Device end-of-sense (EOS) exit processing
6	(6)	SIGNED	2	E63RDEVNUM
8	(8)	CHARACTER	32	E63RTOKENNED
				"X'06" IO Timing (IOT) processing
				Device number of the device that caused this ENF signal
				Token NED of the subsystem for the device (Zeros if no subsystem data exists for the device).
40	(28)	SIGNED	1	E63RSSID
41	(29)	BITSTRING	1	E63RFLAGS
	1...	....		E63RNDSS
42	(2A)	CHARACTER	86	
				"X'80" Non-Disruptive state save (NDSS) is to be requested
				Available

IOSDE63R Cross Reference

Name	Hex Offset	Hex Value
E63R	0	
E63RDEVNUM	6	
E63RFLAGS	29	
E63RID	0	
E63RNDS	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	

IOSDFEAT Information

IOSDFEAT Programming Interface information

Programming Interface information

IOSDFEAT

End of Programming Interface information

IOSDFEAT Heading Information • IOSDFEAT Map

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 Map

Offsets					
Dec	Hex	Type/Value	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_WLMPAV	"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"

IOSDIECA Information

IOSDIECA Programming Interface information

Programming Interface information

IOSDIECA

End of Programming Interface information

IOSDIECA Heading Information • IOSDIECA Cross Reference

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: IOCIECAA field of the writable ICOM
Serialization: Compare and Swap (CS) when setting the Fsdq queue header
Function: Provide an area for communication between IOS and other programs.

IOSDIECA Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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_IRDVFSD_EP@	E.P. address of IRDVFSD
36	(24)	BITSTRING 1...	1	IECA_FLAGS (0)	"X'80" OK to invoke IOSVFSD
				IECA_IOSVFSD_IS_READY	Reserved
37	(25)	BITSTRING	3		Reserved
40	(28)	BITSTRING	24		"C'IECA" Characters for acronym
40	(28)	X'C5C3C1'	0	IECA_NAME	"*-IECA"
40	(28)	X'40'	0	IECA_LEN	

IOSDIECA Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
IECA	0		IECA_IRDVFSD_EP@		
IECA_FLAGS	24		IECA_LEN	20	
IECA_FSDQ_HEADER	1C		IECA_NAME	28	40
IECA_ID	0	C9C5C3C1			C5C3C1
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			

IOSDIODI Information

IOSDIODI Programming Interface information

Programming Interface information

IOSDIODI

End of Programming Interface information

IOSDIODI Heading Information • IOSDIODI Map

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 Map

Offsets					
Dec	Hex	Type/Value	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_IODFDNAME	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_IODFOSS	Original IODF device subchannel set id
65	(41)	CHARACTER	63		Available

Comment

IODI Eye-Catcher

65	(41)	X'D6C4C9'	0	IODISTRING	End of Comment
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"C'ODI'" IODI Eye-Catcher

Comment

IODI Version

65	(41)	X'1'	0	IODIVERSIONNUMBER	End of Comment
----	------	------	---	-------------------	----------------

"1" IODI Version Number

65	(41)	X'80'	0	IODI_LEN	"*-ODI"
----	------	-------	---	----------	---------

"*-ODI"

IOSDIODI Cross Reference

Name	Hex Offset	Hex Value
IODI	0	
IODI_FLAGS	5	
IODI_ID	0	
IODI_IODFDNAME	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

IOSDIOFC Information

IOSDIOFC Programming Interface information

Programming Interface information

IOSDIOFC

End of Programming Interface information

IOSDIOFC Heading Information • IOSDIOFC Cross Reference

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 IOFACILTIES
Pointed to by: IOCINFO parameter list
Serialization: None
Function: IOSDIOFC maps the information which is returned by the IOCINFO IOFACILTIES function, which shows which I/O facilities are supported by the hardware and software.
 Notes: None

IOSDIOFC Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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
		...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	IOFC_END (0)	Reserved
256	(100)	CHARACTER	1		End of IOFC

Comment

IOFC Version

256	(100)	X'1'	0	IOFC_VERSION_CURRENT	End of Comment
256	(100)	X'100'	0	IOFC_LEN	"1" Current IOFC version number "*-IOFC"

IOSDIOFC Cross Reference

Name	Hex Offset	Hex Value
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

IOSDMAP Information

IOSDMAP Programming Interface information

Programming Interface information

IOSDMAP

End of Programming Interface information

IOSDMAP Heading Information • IOSDMAP Map

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 Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	IOSDMAP	
0	(0)	ADDRESS	4	MAPUCB	UCB Common Segment address (Required)
4	(4)	BITSTRING	1	MAPFLGS	UCB flag information
		1...		MAPVALPH	"X'80" If on, path validation has not been done. Reflects setting of UCBVALPH.
Comment					

EQU X'7F' Reserved

End of Comment

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

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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 corresponds to the bit settings in the PIM for this Channel path.
2	(2)	BITSTRING	1	MAPBIT	
Comment					

EQU X'80' Reserved

End of Comment

.1...	MAPDCMVSW	"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 available
.... ...1	MAPVARY	"X'01" If ON, Vary offline in progress

IOSDMAP Cross Reference

Name	Hex Offset	Hex Value
IOSDMAP	0	
MAPBIT	2	
MAPCHPDT	10	
MAPCHIPID	0	
MAPCHPNO	8	
MAPCMM	2	20
MAPCPM	2	8
MAPDATA	0	
MAPDCMVSW	2	40
MAPFLGS	4	
MAPLPM	2	4
MAPLPUM	9	
MAPOPM	2	10
MAPPAM	2	2
MAPPTHMK	1	
MAPRESV	5	
MAPTABLE	8	
MAPUCB	0	
MAPVALPH	4	80
MAPVARY	2	1

IOSDNPPL Information

IOSDNPPL Programming Interface information

Programming Interface information

IOSDNPPL

End of Programming Interface information

IOSDNPPL Heading Information • IOSDNPPL Map

IOSDNPPL Heading Information

Common Name: New Purge Parameter List
Macro ID: IOSDNPPL
DSECT Name: NPPL
Owning Component: IOS (SC1C3)
Eye-Catcher ID:
 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 Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NPPL	Option byte one
0	(0)	BITSTRING	1	NPPLOPT1	"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...		NPPLDS	"X'40" ECBs associated with the I/O requests purged should be posted with X'48'
		.1...		NPPLPOST	"X'20" Halt the I/O requests
		.1.		NPPLHIO	"X'10" Purge only the I/O requests marked related and associated with the argument (EXCP only)
		.... 1...		NPPLREL	"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
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
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

IOSDNPPL Cross Reference

Name	Hex Offset	Hex Value
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	
NPPLLOPT	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	
NPPLTSM	1	4
NPPLUCB	1	1
NPPLVC	1	10

IOSDPATH Information

IOSDPATH Programming Interface information

Programming Interface information

IOSDPATH

End of Programming Interface information

IOSDPATH Heading Information • IOSDPATH Map

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 Map

Offsets					
Dec	Hex	Type/Value	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 UCBVALPH.
5	(5)	CHARACTER	1	PATHFLAGS1 (0)	More Flags
		1...		PATHINTTYPENOAVAILABLE	"X'80'" If on, no interface type information was available.
		.1...		PATHUAVALID	"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
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...		PATHDCMVSW	"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

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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

Comment

Values for PathAttribute

End of Comment

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	"2" This path is a non-preferred path
256	(100)	X'100'	0	PATH_LEN	"*-PATH"

IOSDPATH Cross Reference

IOSDPATH Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
PATH	0		PATHINTTYPE_IISC_RECEIVER	100	19
PATH_LEN	100	100	PATHINTTYPE_IISC_SENDER	100	18
PATH#CHPIDS	0		PATHINTTYPE_IQD	100	24
PATHATTRIBUTE	25		PATHINTTYPE_ISD	100	13
PATHATTRIBUTE_NONPREFERREDPATH	100	2	PATHINTTYPE_OSA	100	12
PATHATTRIBUTE_NOTSPECIFIED	100	0	PATHINTTYPE_OSA_DIRECT_EXPRESS	100	11
PATHATTRIBUTE_PREFERREDPATH	100	1	PATHINTTYPE_OSA_EXPRESS	100	10
PATHATTRIBUTESVALID	5	10	PATHINTTYPE_OSA_ZBX_DATA	100	30
PATHBITS	23		PATHINTTYPE_OSA_ZBX_MANAGEMENT	100	31
PATHCHPID	20		PATHINTTYPE_OSC	100	14
PATHCHPIDARRAY	20		PATHINTTYPE_OSN	100	15
PATHCMM	23	20	PATHINTTYPE_UNKNOWN	100	0
PATHCPM	23	8	PATHINTTYPENOTAVAILABLE	5	80
PATHDCMVSW	23	40	PATHLPM	23	4
PATHFC	5	20	PATHLPUM	6	
PATHFLAGS	4		PATHMASK	22	
PATHFLAGS1	5		PATHOPM	23	10
PATHINTTYPE	24		PATHPAM	23	2
PATHINTTYPE_BLOCK_MTPX	100	1	PATHUA	7	
PATHINTTYPE_BYTE_MTPX	100	2	PATHUAVALID	5	40
PATHINTTYPE_CBP	100	21	PATHVALPH	4	80
PATHINTTYPE_CFP	100	22	PATHVARY	23	1
PATHINTTYPE_CIB	100	26			
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			
PATHINTTYPE_ICP	100	23			

IOSDPAVA Information

IOSDPAVA Programming Interface information

Programming Interface information

IOSDPAVA

End of Programming Interface information

IOSDPAVA Heading Information

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

Function:	<p>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.</p> <p>The PAVA consists of the following:</p> <ul style="list-style-type: none"> -- 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. <p>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.</p> <p>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.</p> <p>If UCBINFO HYPERPAVALIASES is specified, a separate entry is created for each HyperPAV alias for the logical subsystem associated with the input base device.</p> <p>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.</p> <p>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.</p> <p>If the extended format PAVA is requested, the following occurs:</p> <ul style="list-style-type: none"> -- 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. -- PVAELEN 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. <p>If the non-extended format PAVA is requested, the following occurs:</p> <ul style="list-style-type: none"> -- 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. -- PVAELEN 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. <p>The following shows what the PAVA looks like depending on whether the extended or non-extended was requested:</p>
------------------	--

IOSDPAVA Map

Extended Format = Yes		Extended Format = No	
1 PAVA	1 PAVA	3 PAVAHead	3 PAVAHead
3 PAVAHead	3 PAVAHead	5 PAVALd	5 PAVALd
5 PAVALd	5 PAVALd	5 PAVAVers (3 or higher)	5 PAVAVers (2 or lower)
5 PAVATokn	5 PAVATokn	5 PAVATokn	5 PAVATokn
5 PAVAHend (End of header)			
1 PAVAEEntry Based	3 PAVAArrray(*)	5 PAVADevn	5 PAVADevn
5 PAVADevn	5 PAVADevn	5 Flags and statistics	5 Flags and statistics
5 Flags and statistics	5 Flags and statistics	5 PAVAELEN (non-zero)	5 PAVAELEN (unpredictable)
5 PAVAELEN (non-zero)	5 PAVAELEN (unpredictable)	3 PAVAEfStart (extfrm start)	
3 PAVAEfStart (extfrm start)		5 Version 3 information	
5 Version 3 information		5 Version x information...	
5 Version x information...		Note: If your program is compiled with the level of the UCBINFO 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 Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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 UCBINFO service
8	(8)	SIGNED	2	PAVATCNT	--- For PAVINFO requests: If PAVAPAVB is 0 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-alien 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-Alien devices change in any way
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-alien device(s). If HYPERPAVALIASES is selected, each element represents a single HyperPAV-alien 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	PAVAFGL1 (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-alien devices associated with it.
	.1..	....		PAVAPAVA	"X'20" PAV-Alien 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.

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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	PAVACCONN	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	PAVADAQ	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
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	X'C1E5C1'		0	PAVANAME	"C'PAVA" Defines PAVAID field
80	X'1'		0	PAVAVER1	"1" PAVAVERS version 1
80	X'2'		0	PAVAVER2	"2" PAVAVERS version 2
80	X'3'		0	PAVAVER3	"3" PAVAVERS version 3
80	X'50'		0	PAVA_LEN	"L'PAVAHead+(PAVANEFEnd-PAVADevn)" Length of PAVA header plus one non-extended format PAVA entry

IOSDPAVA Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
PAVA	0		PAVASTSC	16	4
PAVA_LEN	50	50	PAVATCNT	8	
PAVACBSY	3C		PAVATOKN	10	
PAVACMB	18		PAVAVERS	4	
PAVACCONN	1C		PAVAVER1	50	1
PAVACUQT	28		PAVAVER2	50	2
PAVADAQ	2C		PAVAVER3	50	3
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			
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				

IOSDPAVE Information

IOSDPAVE Programming Interface information

Programming Interface information

IOSDPAVE

End of Programming Interface information

IOSDPAVE Heading Information • IOSDPAVE Cross Reference

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 ICOM
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 Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0		

Offsets					
Dec	Hex	Type/Value	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

Comment

PAVE Constants

End of Comment					
24	(18)	X'4'	0	PAVEMAXENTRY	"4" Current number of entries in the PAVE

IOSDPAVE Cross Reference

Name	Hex Offset	Hex Value
PAVE	0	
PAVEARRAY	8	
PAVEENTRY	8	
PAVEHDR	0	
PAVEID	0	
PAVEMAXENTRY	18	4
PAVERTN	8	
PAVEVERS	4	

IOSDSCMM Information

IOSDSCMM Programming Interface information

Programming Interface information

IOSDSCMM

End of Programming Interface information

IOSDSCMM Heading Information • IOSDSCMM Map

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 Designated by the hardware
Size:	Frequency: Designated by hardware
Created by:	IECVIOSI
Pointed to by:	The storage that contains all of the individual blocks is pointed to by COPB_SCMM_MBS_PTR. 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 Map

Offsets

Dec	Hex	Type/Value	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	

Comment _____

Bit definitions:

		1...	SCMM_LASTBLOCK	End of Comment
				"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_REQSPROCESSED_CPC Internal requests processed by the SCM- resource part
16	(10)	SIGNED	4	SCMM_REQSPROCESSED Internal requests processed by the SCM- resource part
20	(14)	SIGNED	4	SCMM_DATAUNITSWRITTEN_CPC 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_DATAUNITSREAD_CPC 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_AGGRRESRESPTIME_CPC Aggregate time spent on execution of requests involving the SCM- resource part
40	(28)	SIGNED	4	SCMM_AGGRRESRESPTIME Aggregate time spent on execution of requests involving the SCM- resource part
44	(2C)	SIGNED	4	SCMM_IOPQUEUEINGTIME_CPC Accumulated IOP-queueing time
48	(30)	SIGNED	4	SCMM_UTILIZATION_CPC Count of work units
52	(34)	SIGNED	4	SCMM_UTILIZATION Count of work units
52	(34)	X'38'	0	SCMM_LEN "-SCMM"

Offsets

Dec	Hex	Type/Value	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"

IOSDSCMM Cross Reference

Name	Hex Offset	Hex Value
SCMM	0	
SCMM_AGGRESRESPTIME	28	
SCMM_AGGRESRESPTIMECPC	24	
SCMM_DATAUNITSREAD	20	
SCMM_DATAUNITSREADCPC	1C	
SCMM_DATAUNITSWRITTEN	18	
SCMM_DATAUNITSWRITTENCPC	14	
SCMM_FLAGS	4	
SCMM_IOPQUEUEINGTIMECPC	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	
SCMM_TIMESTAMP	5	
SCMM_UTILIZATION	34	
SCMM_UTILIZATIONCPC	30	

IOSDSHID Information

IOSDSHID Programming Interface information

Programming Interface information

IOSDSHID

End of Programming Interface information

IOSDSHID Heading Information • IOSDSHID Map

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 Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SHID	
Comment					

System Host ID Mapping

					End of Comment
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 hypervisor 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
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)
Comment					

Alternate System Host ID Mapping

					End of Comment
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 hypervisor 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

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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)

Comment

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_INVAL.

End of Comment					
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_INVAL	"X'40" Node descriptor invalid
	...1			CPCND_NTYPE	"X'10" Node type

Comment

EQU X'0F' Reserved

End of Comment					
23	(17)	CHARACTER	3	CPCND_PARMS	Node parameters
26	(1A)	CHARACTER	28	CPCND_SDC (0)	Self-describing component (SDC) Identifier
26	(1A)	CHARACTER	6	CPCND_TYPE	Type number
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

Comment

Central Processing Complex Node Identifier Mapping

End of Comment					
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

IOSDSHID Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
AHID_BYTES01	B		CPCID_FLAGS	36	
AHID_BYTES234	D		CPCID_MAP	37	
AHID_CPSN	D	3	CPCID_VALID	36	80
AHID_CPUAD	B	0	CPCND_FLAGS	16	
AHID_CPUID	D	2	CPCND_INVAL	16	40
AHID_CSSID	B	1	CPCND_MAN	23	
AHID_FMT1_BYTES01	B	0	CPCND_MODEL	20	
AHID_FMT1_BYTES234	D	2	CPCND_NTYPE	16	10
AHID_FORMAT	B	0	CPCND_PARMS	17	
AHID_INFO	D		CPCND_PLANT	26	
AHID_LPID	D	2	CPCND_SDC	1A	
AHID_MODNO	10		CPCND_SEQNO	28	
AHID_PGIDFMT0	B	0	CPCND_TAG	34	
AHID_PGIDFMT1	B	80	CPCND_TYPE	1A	
AHID_TODCL	12		CPCND_VALID	16	E0
AHID_VM	B	8	SHID_AHID	B	
			SHID_BYTES01	0	
			SHID_BYTES234	2	
			SHID_CPCID	36	

IOSDSHID Cross Reference

Name	Hex Offset	Hex Value
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

IOSDSPOF Information

IOSDSPOF Programming Interface information

Programming Interface information

IOSDSPOF

End of Programming Interface information

IOSDSPOF Heading Information • IOSDSPOF Map

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 Map

Offsets					
Dec	Hex	Type/Value	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
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_0TO3	"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_4TO7	"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

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SPOFCHECK	Check description mapping
					Comment
Checks for single points of failure					
					End of Comment
0	(0)	BITSTRING	8	SPOFCHECK_MASK64	

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	BITSTRING	4	SPOFCHECK_32MASK1	Mask of single points of failure in 64 bit form
0	(0)	BITSTRING	2	SPOFCHECK_16MASK1	Mask of single points of failure in 32 bit form
0	(0)	BITSTRING	1	SPOFCHECK_8MASK1	Mask of single points of failure in 16 bit form

Comment

Bit definitions:

1...	....	SPOFCHECK_NOTFOUND	End of Comment	
.1..	....	SPOFCHECK_NOTONLINE	"X'80" Device does not exist	
..1.	....	SPOFCHECK_NOPATHS	"X'40" Device is not online	
...1	....	SPOFCHECK_ONEPATH	"X'20" Device has no paths varied online	
....1	....	SPOFCHECK_ONESWITCH	"X'10" Device has only one path varied online	
....1..	.	SPOFCHECK_NOPREFPATHS	"X'08" All online paths go through one switch		
....1..	.	SPOFCHECK_ONLYPREFPATHS	"X'04" Device has only non preferred paths online		
....1..	1..	SPOFCHECK_NOPREFPATH	"X'02" Device has only preferred paths online		
....1..	1..	SPOFCHECK_ONEPREFPATH	"X'01" Device has only one preferred path online		
1	(1)	BITSTRING	1	SPOFCHECK_8MASK2	Mask of single points of failure in 8 bit form

Comment

Bit definitions:

1...	....	SPOFCHECK_HOSTCHPSPF	End of Comment
.1..	....	SPOFCHECK_CUINTERSPF	"X'80" All chpids share a single point of failure, on the host
..1.	....	SPOFCHECK_SWCMHDWCOMP	"X'40" All control unit interfaces share a single point of failure

Comment

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	End of Comment
8	(8)	BITSTRING	4	SPOFCHECK_NC_32MASK1	Mask of single points of failure in 64 bit that couldn't be performed
8	(8)	BITSTRING	2	SPOFCHECK_NC_16MASK1	Mask of single points of failure in 32 bit form
8	(8)	BITSTRING	1	SPOFCHECK_NC_8MASK1	Mask of single points of failure in 16 bit form

Comment

Bit definitions:

1...	....	SPOFCHECK_NNOTFOUND	End of Comment
.1..	....	SPOFCHECK_NC_NOTONLINE	"X'80" Device does not exist
..1.	....	SPOFCHECK_NC_NOPATHS	"X'40" Device is not online
...1	....	SPOFCHECK_NC_ONEPATH	"X'20" Device has no paths varied online
....1	....	SPOFCHECK_NC_ONESWITCH	"X'10" Device has only one path varied online

IOSDSPOF Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.... .1..		SPOFCHECK_NC_NOPREFPATHS	"X'08" All online paths go through one switch
		.... ..1.		SPOFCHECK_NC_ONLYPREFPATHS	"X'04" Device has only non preferred paths online
		.... ...1		SPOFCHECK_NC_ONEPREFPATH	"X'02" Device has only preferred paths online
9	(9)	BITSTRING	1	SPOFCHECK_NC_8MASK2	"X'01" Device has only one preferred path online Mask of single points of failure in 8 bit form
Comment					
Bit definitions:					
		1...		SPOFCHECK_NC_HOSTCHPSPF	End of Comment
		.1...		SPOFCHECK_NC_CUINTERSPF	"X'80" All chpids share a single point of failure, on the host "X'40" All control unit interfaces share a single point of failure
Comment					
Validity flags					
16	(10)	BITSTRING	1	SPOFCHECK_FLAGS	End of Comment
					Use Flags
Comment					
Bit definitions:					
		1...		SPOFCHECK_DEVNCH_VALID	End of Comment
		.1...		SPOFCHECK_VOLSER_VALID	"X'80" Is the devnchar 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
Comment					
The CU interface numbers and compare channel components words					
					End of Comment
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
Comment					
Switch Diagnostic Area					
Contains additional information regarding the common switch hardware components shared by all the online paths.					
					End of Comment
44	(2C)	CHARACTER	224	SPOFCHECK_SWITCH_DIAG	Switch diagnostic area
44	(2C)	CHARACTER	30	SPOFCHECK_SD_PND	

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
74	(4A)	BITSTRING	1	SPOFCHECK_SD_COUNT	The physical switch's node descriptor dot qualified
75	(4B)	CHARACTER	1		The total number of hardware components in common among the online paths.
76	(4C)	CHARACTER	24	SPOFCHECK_SD_HWPART_NAME	Reserved
268	(10C)	CHARACTER	16		The array of common hardware component names, obtained from the switch
					Reserved

Comment

The number of checks in a SPOFCHECK

End of Comment

268	(10C)	X'B'	0	SPOFCHECK_NUMBER	"11" There are 11 types of checks in a SPOFCHECK
-----	-------	------	---	------------------	--

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SPOFGROUPCHECK	

Comment

Group Check mapping

Checks for single points of failure

End of Comment

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
0	(0)	BITSTRING	1	SPOFGROUPCHECK_8MASK1	Mask of single points failure in 8 bit form

Comment

Bit definitions:

End of Comment

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_COUNTERSPF	"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

Comment

If the 'N' bits are on the check for single points of failure
could not be done, due to check failure.

End of Comment

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

IOSDSPOF Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
Bit definitions:					
End of Comment					
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_SHAREPHYS CU			"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 chipids 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
Comment					
Validity flags					
End of Comment					
16	(10)	BITSTRING	1	SPOFGROUPCHECK_FLAGS	Use Flags
Comment					
Bit definitions:					
End of Comment					
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
Comment					
The CU interface numbers and compare channel components words					
End of Comment					
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
Comment					
Group Switch Diagnostic Area					
Contains additional information regarding the common switch hardware components shared by all the online paths.					
End of Comment					
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

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
					Comment
					The number of checks in a SPOFGroupCheck
260	(104)	X'7'	0	SPOFGROUPCHECK_NUMBER	End of Comment "7" There are 7 types of checks in a SPOFGroupCheck

IOSDSPOF Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
SPOFAREA	0	8	SPOFCHECK_NC_NOTONLINE	4	4
SPOFAREA_ENTRIESADDR	2C	8	SPOFCHECK_NC_ONEPATH	40	40
SPOFAREA_EYECATCH	0	10	SPOFCHECK_NC_ONEPREFPATH	10	10
SPOFAREA_EYECATCHCONST_0TO3	2C	D7D6C6	SPOFCHECK_NC_ONESWITCH	1	1
SPOFAREA_EYECATCHCONST_4TO7	2C	D9C5C1	SPOFCHECK_NC_ONLYPREFPATHS	8	8
SPOFAREA_GROUPCHECKSADDR	28	2	SPOFCHECK_NC_16MASK1	2	2
SPOFAREA_HDRLEN	9	8	SPOFCHECK_NC_32MASK1	8	8
SPOFAREA_HEADER	0	8	SPOFCHECK_NC_8MASK1	8	8
SPOFAREA_LEN	C	9	SPOFCHECK_NC_8MASK2	9	9
SPOFAREA_NUMENTRIES	10	80	SPOFCHECK_NNOTFOUND	80	80
SPOFAREA_SUBPOOL	A	80	SPOFCHECK_NOPATHS	0	20
SPOFAREA_SUMCHECKSADDR	24	0	SPOFCHECK_NOPREFPATHS	0	4
SPOFAREA_VERSION	8	0	SPOFCHECK_NOTFOUND	0	80
SPOFAREA_VERSIONCURRENT	2C	1	SPOFCHECK_NOTONLINE	0	40
SPOFAREA_VERSIONONE	2C	1	SPOFCHECK_NUM_COM_CUI	28	28
SPOFCHECK	0	0	SPOFCHECK_NUM_PSB_CUI	29	29
SPOFCHECK_CHP_DIAG	1C	0	SPOFCHECK_NUMBER	10C	B
SPOFCHECK_CHP_DIAG_CHAR	1C	0	SPOFCHECK_ONEPATH	0	10
SPOFCHECK_CHP_DIAG_VLD	10	20	SPOFCHECK_ONEPREFPATH	0	1
SPOFCHECK_CUI_DIAG	28	0	SPOFCHECK_ONESWITCH	0	8
SPOFCHECK_CUI_DIAG_VLD	10	10	SPOFCHECK_ONLYPREFPATHS	0	2
SPOFCHECK_CUINTERSPF	1	40	SPOFCHECK_SD_COUNT	4A	4A
SPOFCHECK_DEVNCH_VALID	10	80	SPOFCHECK_SD_HWPART_NAME	4C	4C
SPOFCHECK_DEVNCHAR	11	0	SPOFCHECK_SD_PND	2C	2C
SPOFCHECK_FLAGS	10	0	SPOFCHECK_SWCMHDWCOMP	1	20
SPOFCHECK_HOSTCHPSPF	1	80	SPOFCHECK_SWITCH_DIAG	2C	2C
SPOFCHECK_MASK64	0	0	SPOFCHECK_VOLSER	16	16
SPOFCHECK_NC_CUINTERSPF	9	40	SPOFCHECK_VOLSER_VALID	10	40
SPOFCHECK_NC_HOSTCHPSPF	9	80	SPOFCHECK_16MASK1	0	0
SPOFCHECK_NC_MASK64	8	0	SPOFCHECK_32MASK1		
SPOFCHECK_NC_NOPATHS	8	20			
SPOFCHECK_NC_NOPREFPATHS					

IOSDSPOF Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
SPOFCHECK_8MASK1	0	0		0	0
SPOFCHECK_8MASK2	0	0			
SPOFGROUPCHECK	1				
SPOFGROUPCHECK_CHP_DIAG	0				
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_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_SHAREPHSCU	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_SHAREPHSCU	0	20			
SPOFGROUPCHECK_SHARESWITCH	0	10			
SPOFGROUPCHECK_SWCMHDWCOMP	0	2			
SPOFGROUPCHECK_SWITCH_DIAG	24				
SPOFGROUPCHECK_16MASK1	0				
SPOFGROUPCHECK_32MASK1	0				
SPOFGROUPCHECK_8MASK1					

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:
 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 Map

Offsets					
Dec	Hex	Type/Value	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 SRWQCSCB field contains valid SCHIB data.
		.... 1...		SRWQEBCBA	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 IOS164!
		.... .1.		SRWQCMPL	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.		SRWQTTHRD	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	SRWQRSPV1	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

IOSDSRWQ Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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

IOSDSRWQ Cross Reference

Name	Hex Offset	Hex Value
SRWQ	0	
SRWQ_PIN_UCBLOOK	1C	10
SRWQ_PIN_UCBSCAN	1C	08
SRWQASCB	70	
SRWQASNO	10	
SRWQCML	18	01
SRWQCP	1E	
SRWQCRW	8	
SRWQDATA	14	
SRWQEALYUCBDEFER	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

IOSDSWAP Information

IOSDSWAP Programming Interface information

Programming Interface information

IOSDSWAP

End of Programming Interface information

IOSDSWAP Heading Information • IOSDSWAP Map

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 Map

Offsets					
Dec	Hex	Type/Value	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
Comment					
Bit definitions:					
End of Comment					
1... SWAPBYPASSALLOCTABLES "X'80" Indicates that IOSVSWAP should bypass swapping the allocation tables					
.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					
Available					
6	(6)	CHARACTER	2	SWAPLISTCOUNTER	Count of device pairs to swap
8	(8)	SIGNED	4	SWAPLISTADDRESS	Address of device pair list
12	(C)	ADDRESS	4	SWAPEND (0)	End of table
Comment					

Constants - Header Information

End of Comment					
16	(10)	X'0'	0	SWAP_VERSION	"0" Current version constant
16	(10)	X'E6C1D7'	0	SWAP_IDENTIFIER	"C'SWAP'" Swap Id
16	(10)	X'10'	0	SWAP_LEN	"*-Swap"

Offsets

Dec	Hex	Type/Value	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

Comment

Constants - IOSVSWAP Return Codes

End of Comment

14	(E)	X'0'	0	SWAP_RCSUCCESS	"0" Swap successful
14	(E)	X'4'	0	SWAP_RCFAILED	"4" Swap failed

Comment

Constants - IOSVSWAP Reason Codes

End of Comment

14	(E)	X'2'	0	SWAP_RSNFROMDISABLEFAILED1	"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_RSNFROMDISABLEFAILED2	"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_RSNFROMHASQUEUEDMSCH	"6" The FROM device had a modify subchannel request queued
14	(E)	X'7'	0	SWAP_RSNTOHASQUEUEDMSCH	"7" The TO device had a modify subchannel request queued
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_RSNULUTENTRYNOTFOUND	"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"

IOSDSWAP Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
SWAP	0		SWAP_VERSION	10	0
SWAP_IDENTIFIER	10	E6C1D7	SWAPBYPASSALLOCABLES	5	80
SWAP_LEN	10	10	SWAPBYPASSMIDAWCHECKS	5	20
SWAP_RCFAILED	E	4	SWAPBYPASSQUEUEDMSCHCHECKS	5	40
SWAP_RCSUCCESS	E	0	SWAPEND	10	
SWAP_RSNFROMDISABLEFAILED1	E	2	SWAPENTRYRC	E	
SWAP_RSNFROMDISABLEFAILED2	E	3	SWAPENTRYRESULT	C	
SWAP_RSNFROMHASQUEUEDMSCH	E	6	SWAPENTRYRSN	C	
SWAP_RSNMIDAWINCOMPATIBLE	E	8	SWAPFLAGS	5	
SWAP_RSNTODISABLED	E	5	SWAPFROMUCB	0	
SWAP_RSNTODISABLEFAILED	E	4	SWAPID	0	
SWAP_RSNTOHASQUEUEDMSCH	E	7	SWAPLIST	0	
SWAP_RSNULUTENTRYNOTFOUND	E	9	SWAPLIST_LEN	E	10
			SWAPLISTADDRESS	C	
			SWAPLISTCOUNTER	8	
			SWAPTOUCB	4	
			SWAPVERSION	4	
			SWAPWORKAREA	8	

IOSDSWTD Information

IOSDSWTD Programming Interface information

Programming Interface information

IOSDSWTD

End of Programming Interface information

IOSDSWTD Heading Information • IOSDSWTD Map

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 Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0		

Offsets					
Dec	Hex	Type/Value	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
		.... .11		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.
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	SWITCH_FLAGS	Flags
		1...		SWITCH_OFFLINE	"X'80" On = offline switch
		.1...		SWITCH_RPSN_VALID	"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"

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SWITCH_PORT_RECORD	

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	SIGNED	2	SWITCH_PORT_OFFSET_NEXT	Port record
2	(2)	SIGNED	1	SWITCH_PORT_ADDRESS	Offset to next port record
3	(3)	SIGNED	1	SWITCH_PORT_NUMBER	Logical port address
4	(4)	CHARACTER	1	SWITCH_PORT_FLAGS_1	Port number
			1...	....	Port flags set 1
			.1..	....	"X'80'" On = port installed
			..1.	....	"X'40'" On = offline to DCM by command
			...1	....	SWITCH_PORT_SYSTEM_OFFLINE
			....	1...	"X'20'" On = offline to DCM by system
			....	....1	SWITCH_PORT_STATE_OFFLINE
			....	....1..	"X'10'" On = offline to DCM by port state
			....	....1..1	SWITCH_PORT_DCM_INELIGIBLE
			....	....1..1..	"X'08'" On = ineligible for use by DCM
			....	....1..1..1	SWITCH_PORT_CHANNEL
			....	....1..1..1..	"X'04'" On = attached to channel
			....	....1..1..1..1	SWITCH_PORT CU
			....	....1..1..1..1..1	"X'02'" On = attached to CUs
			....	....1..1..1..1..1..1	SWITCH_PORT UNKNOWN
			....	....1..1..1..1..1..1..1	"X'01'" On = neither CHPID or CU(s)
5	(5)	CHARACTER	1	SWITCH_PORT_FLAGS_2	Port flags set 2
			1...	....	SWITCH_PORT_SYSTEM CHANNEL
			1...	....	"X'80'" On = channel is known to caller's system
			.1..	....	SWITCH_PORT_MACHINE CHANNEL
					"X'80'" Old name for bit
					SWITCH_E PORT
					"X'40'" On = port is an E PORT and attached device is a switch
6	(6)	CHARACTER	4		Reserved
10	(A)	SIGNED	2	SWITCH_PORT_PATH_COUNT	Number of CHPIIDs 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

IOSDSWTD Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
SWITCH_CURRVRSN	4	3	SWITCH_PORT_ADDRESS	54	
SWITCH_DATA_AREA	0		SWITCH_PORT ATT ND	2	
SWITCH_DEVICE	6		SWITCH_PORT CHANNEL	34	
SWITCH_E PORT	5	40	SWITCH_PORT_CHPID	4	4
SWITCH_FLAGS	A		SWITCH_PORT_COMMAND OFFLINE	54	
SWITCH_ID	0		SWITCH_PORT CU	4	40
SWITCH_LEN	54	74	SWITCH_PORT CU #	4	2
SWITCH_NODE_DESC	C		SWITCH_PORT CU COUNT	56	
SWITCH_OFFLINE	A	80	SWITCH_PORT_DCM_INELIGIBLE	55	
SWITCH_OFFSET_1ST_PORT	5				
SWITCH_PHYSICAL ND					

IOSDSWTD Cross Reference

Name	Hex Offset	Hex Value
SWITCH_PORT_DESC	4	8
	10	
SWITCH_PORT_FLAGS_1	4	
	5	
SWITCH_PORT_FLAGS_2	5	
	4	80
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	
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

IOSDTCCB Information

IOSDTCCB Programming Interface information

Programming Interface information

IOSDTCCB

End of Programming Interface information

IOSDTCCB Heading Information • IOSDTCCB Map

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 Map

Offsets					
Dec	Hex	Type/Value	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

Comment

Constants for TCAH_Format

End of Comment

.111 1111

TCAH_FORMAT_7F

"X'7F" Only format allowed

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					

Constants for TCAH_ServAct

16	(10)	BITSTRING	0	TCAH_SERVACT_1FFE	End of Comment "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"

Offsets

Dec	Hex	Type/Value	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	
		.1...		DCW_CMDCHAIN	"X'80" Reserved
		..1.		DCW_SLI	"X'40" Command chain to the next DCW
		...1 1111		DCW_FBIT37_RSVD	"X'20" Suppress length indication
					"X'1F" Reserved
2	(2)	CHARACTER	1	DCW_W0B2RSVD	Reserved
3	(3)	BITSTRING	1	DCW_CDCCOUNT	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
8	(8)	CHARACTER	1	DCW_CONTROL_DATA (0)	
		.1.1		DCW_CMD_TCAX	Start of control data (if any)
		.11.		DCW_CMD_TCOB	"X'50" Transfer-TCA-extension (TCAX) command code
8	(8)	X'8'	0	DCW_LEN	"X'60" Transfer-CBC-offset-block (TCOB) command code
					"*-DCW"

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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"

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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"

IOSDTCCB Cross Reference

IOSDTCCB Cross Reference

Name	Hex Offset	Hex Value
DCW	0	
DCW_CDCount	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	
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	

IOSDTCW Information

IOSDTCW Programming Interface information

Programming Interface information

IOSDTCW

End of Programming Interface information

IOSDTCW Heading Information • IOSDTCW Map

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)
 ORBCPA in IHORB (real address)
 IRBTCWAD in IHAIIRB (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_Addr in IOSDTCW (real address)
Serialization: None
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 Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	TCW	Transport Control Word
0	(0)	CHARACTER	4	TCWWORD0 (0)	Word 0
0	(0)	BITSTRING	1	TCWWORD0BYTE0 (0)	Word 0, byte 0
			11..	TCWFORMAT	"X'CO" 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....	TCWRSPVD1	"X'80" Reserved
			.1....	TCWRSPVD2	"X'40" Reserved
			..1....	TCWRSPVD3	"X'20" Reserved
			...1....	TCWRSPVD4	"X'10" Reserved

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.... 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		TCWOOUTPUT@TIDAL	"X'01" The output address in TCWOutputAddr points to a TIDAL. Otherwise, it points to data.
2	(2)	BITSTRING 11..	1	TCWFLAG2 (0) TCWTIDAWFORMAT	Flag two "X'C0" The format of the TIDAW "X'20" TSRQB is designated "X'1F" Reserved
3	(3)	BITSTRING ...1 1111	1	TCWTSRQB TCWRSVD6	Flag three Reserved
3	(3)	BITSTRING	1	TCWFLAG3 (0)	Word 1
4	(4)	CHARACTER	4	TCWORD1 (0)	Word 2
4	(4)	CHARACTER	1	TCWRSVD8	Word 3
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. .... ...1		TCWREAD TCWWRITE	"X'02" Data is transferred from the device to storage "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 IOSDTCCB.
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	TCWORD12	Word 12 - Reserved
52	(34)	CHARACTER	4	TCWORD13	Word 13 - Reserved
56	(38)	CHARACTER	4	TCWORD14	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.

Comment

Constants for TCWFormat

End of Comment

....	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

Comment

Constants for TCWTIDAWFormat

End of Comment

....	TCWTIDAWFORMAT_0	"B'00000000" Format 0 TIDAW
.1..	TCWTIDAWFORMAT_1	"B'01000000" Reserved for future use
1...	TCWTIDAWFORMAT_2	"B'10000000" Reserved for future use
11..	TCWTIDAWFORMAT_3	"B'11000000" Reserved for future use
60 (3C) X'40'	TCW_LEN	"-TCW"

IOSDTCW Cross Reference

Offsets					
Dec	Hex	Type/Value	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"

IOSDTCW Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
TCW	0				
TCW_LEN	3C	40	TCWTIDAWFORMAT_2	3C	40
TCWFLAGS	1		TCWTIDAWFORMAT_3	3C	80
TCWFLAG1	1		TCWTSBADDR	3C	C0
TCWFLAG2	2		TCWTSRQB	18	
TCWFLAG3	3		TCWWORD0	2	20
TCWFORMAT	0	C0	TCWWORD0BYTE0	0	
TCWFORMAT_0	3C	0	TCWWORD1	0	
TCWFORMAT_1	3C	40	TCWWORD12	4	
TCWFORMAT_2	3C	80	TCWWORD13	30	
TCWFORMAT_3	3C	C0	TCWWORD14	34	
TCWFORMATRSVD1	0	3F	TCWWRITE	38	
TCWINPUT@TIDAL	1	4	TIDAW0	5	1
TCWINPUTADDR	10		TIDAW0_COUNT	TIDAW0	0
TCWINPUTBYTECOUNT	2C		TIDAW0_ADDR	8	
TCWINTERROGATEADDR	3C		TIDAW0_ADDR_HIGH	8	
TCWOUTPUT@TIDAL	1	1	TIDAW0_ADDR_LOW	TCWWORD1	8
TCWOUTPUTADDR	8		TIDAW0_COUNT	TCWWORD12	C
TCWOUTPUTBYTECOUNT	28		TIDAW0_DTINT	TCWWORD13	30
TCWREAD	5	2	TIDAW0_FLAGS	TCWWORD14	34
TCWRSDV1	1	80	TIDAW0_GENCBC	TIDAW0_LAST	38
TCWRSDV2	1	40	TIDAW0_LEN	TIDAW0_RSVD1	0
TCWRSDV3	1	20	TIDAW0_SKIP	TIDAW0_SKIP	40
TCWRSDV4	1	10	TIDAW0_TTIC	TIDAW0_TTIC	10
TCWRSDV5	1	8			
TCWRSDV6	2	1F			
TCWRSDV7	3				
TCWRSDV8	4				
TCWRSDV9	6				
TCWTCCB@TIDAL	1	2			
TCWTCCBADDR	20				
TCWTCCBL	5	FC			
TCWTCCBLRW	5				
TCWTIDAWFORMAT	2	C0			
TCWTIDAWFORMAT_0	3C	0			
TCWTIDAWFORMAT_1					

IOSDUPFX Information

IOSDUPFX Programming Interface information

Programming Interface information

IOSDUPFX

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

- UCBCHPID
- UCBMCMB
- UCBRESVP
- UCBSID
- UCBMBI
- UCBRESVH
- UCBRRP

End of Programming Interface information

IOSDUPFX Heading Information • IOSDUPFX Map

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
 THE FIELDS IN THE UCB PREFIX WILL BE VOLATILE,
 AND ARE ONLY FOR MONITORING PROGRAMS.
Function: UPFX WILL CONTAIN INFORMATION ABOUT THE STATE OF THE DEVICE.

IOSDUPFX Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	UPFX	,
0	(0)	BITSTRING	1	UCBRSTEM	Reset Event mask
1	(1)	SIGNED	1	UCBMLHKY	MIH UCB time interval key

Comment

IOS MIH control byte

2	(2)	BITSTRING	1	UCBMLHTI	End of Comment
		1...		UCBMLHSS	Missing Interrupt Handler byte
		.1...		UCBMLHPB	"X'80'" Customer-specified scan interval being used
					"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)
					"X'20'" MIH processing was turned off for the device via the SETIOS command or parmlib
					"X'10'" MIH Message-Only flag. Bypasses MIH/IOT recovery actions for the device. Currently used for I/O timing processing only.
					"X'08'" Pending I/O request condition
					"X'04'" Message pending, to be DOM'D during the next MIH scan
					"X'02'" Clear subchannel scheduled by MIH
					"X'01'" Device is being used for paging. For PAV devices, this bit is only set in the base.

Comment

IOS HOT I/O control byte

3	(3)	SIGNED	1	UCBHOTIO	End of Comment
		1...		UCBHSCD	HOT-I/O indicator
		.1...		UCBHSOL	"X'80'" SCD associated with the UCB
					"X'40'" A solicited interrupt has completed with other than DCC-3 since the last time HOT-I/O detection was called.
					"X'20'" - Indicates that the last unsolicited interrupt occurred when a request was outstanding, and could have been induced
					"X'10'" - Indicates that an induced hot I/O condition has been detected on the device
					"X'08'" Channel path recovery is attempting to clear up a HOT-I/O condition for this device.
					"X'07'" IF UCBCHCHPR is on, this is an index into UCBCHPID, specifying the channel path over which the HOT-I/O condition was detected.

Comment

IOS UCB IOQ chains of I/O requests associated with this device

4	(4)	ADDRESS	4	UCBIOQF	End of Comment
8	(8)	ADDRESS	4	UCBIOQL	First request for this device

Last request for this device

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
Associated subchannel data					
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	UCBPMCW1	Path management control word
Comment					
EQU X'8000' Reserved - set to zero EQU X'4000' Reserved - set to zero					
16	(10)	BITSTRING	0	UCBISC	End of Comment "X'3800" Interruption subclass
Comment					
EQU X'0400' Reserved - set to zero EQU X'0200' Reserved - set to zero EQU X'0100' Reserved - set to zero					
1...	....	UCBENABL			End of Comment "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...	UCBM			"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..	UCBDPPMPM			"X'0004" Dynamic pathing multiple path state
Comment					
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.
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.)
Comment					
I/O Supervisor general fields					
32	(20)	SIGNED	1	UCBLEVEL	End of Comment 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

IOSDUPFX Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
				Comment	
				IOS I/O timing time interval key	
34	(22)	SIGNED	1	UCBIOTKY	End of Comment I/O timing time interval key
				Comment	
				IOS MIH flags byte	
				End of Comment	
35	(23)	SIGNED	1	UCBMLHFG	MIH flags byte
	1...	....		UCBMLHMT	"X'80'" Mount pending condition has been detected
	.1..	....		UCBMLHMI	"X'40'" Missing interrupt condition has been detected
	..1.	....		UCBMLHIW	"X'20'" Idle with work queued condition been detected
	....1	....		UCBMLHIC1	"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...		UCBMLTTM	"X'08'" An I/O timeout condition has been detected for an active I/O request
	.....	.1..		UCBMLHC2	"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..		UCBMLMIMH	"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		UCBMLTHS	"X'01'" An IO Timing HyperSwap was triggered on this device.
				Comment	
				IOS level bit mask	
				End of Comment	
36	(24)	BITSTRING	4	UCBLVMSK	UCB level bit mask

IOSDUPFX Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
UCBAPGID	21	1	UCBMLHIC1	23	10
UCBCHPID	18		UCBMLHIC2	23	4
UCBCHPS	18		UCBMLHFF	2	20
UCBDPPPM	10	4	UCBMLHFG	23	
UCBDPTH	21	8	UCBMLHIO	2	2
UCBDPVAL	21	4	UCBMLHIW	23	20
UCBDSTF	21	2	UCBMLHKY	1	
UCBENABL	10	80	UCBMLHMI	23	40
UCBCHCPI	3	7	UCBMLHMO	2	10
UCBCHCPR	3	8	UCBMLHMP	2	4
UCBHOTIO	3		UCBMLHMT	23	80
UCBHSCD	3	80	UCBMLHPB	2	40
UCBHSOL	3	40	UCBMLHSS	2	80
UCBINDHI	3	10	UCBMLHTI	2	
UCBIOQF	4		UCBMLMIMH	23	2
UCBIOQL	8		UCBMM	10	18
UCBIOQRP	2	8	UCBPGDEV	2	1
UCBIOSF1	21		UCBPIM	17	
UCBIOHTS	23	1	UCBPMCW1	10	
UCBIOTKY	22		UCBRESVH	21	80
UCBMLTTM	23	8	UCBRESVP	21	20
UCBISC	10	3800	UCBRRP	21	10
UCBLEVEL	20		UCBRSTEM	0	
UCBLGTE	10	20	UCBSCHNO	E	
UCBLLT	10	40	UCBSID	C	
UCBLM	10	60	UCBSIDA	C	
UCBLNONE	10	0	UCBSSID	C	D
UCBLPM	14		UCBSUSOL	3	20
UCBLPUM	16		UCBVALPH	21	40
UCBLVMSK	24		UPFX	0	
UCBMBI	12				
UCBMCMB	10	10			
UCBMDCTI	10	8			

IOSDUPI Information

IOSDUPI Programming Interface information

Programming Interface information

IOSDUPI

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

- UCBCHPID
- UCBMCMB
- UCBRESVP
- UCBSID
- UCBMBI
- UCBRESVH
- UCBRRP

End of Programming Interface information

IOSDUPI Heading Information • IOSDUPI Map

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 Map

Offsets

Dec	Hex	Type/Value	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	UCBMLHKY	MIH UCB time interval key

Comment

IOS MIH control byte

2	(2)	BITSTRING	1	UCBMLHTI	End of Comment
		1...		UCBMLHSS	Missing Interrupt Handler byte
		.1...		UCBMLHPB	"X'80'" Customer-specified scan interval being used
					"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)
					"X'20'" MIH processing was turned off for the device via the SETIOS command or parmlib
					"X'10'" MIH Message-Only flag. Bypasses MIH/IOT recovery actions for the device. Currently used for I/O timing processing only.
					"X'08'" Pending I/O request condition
					"X'04'" Message pending, to be DOM'D during the next MIH scan
					"X'02'" Clear subchannel scheduled by MIH
					"X'01'" Device is being used for paging. For PAV devices, this bit is only set in the base.

Comment

IOS HOT I/O control byte

3	(3)	SIGNED	1	UCBHOTIO	End of Comment
		1...		UCBHSCD	HOT-I/O indicator
		.1...		UCBHSOL	"X'80'" SCD associated with the UCB
					"X'40'" A solicited interrupt has completed with other than DCC-3 since the last time HOT-I/O detection was called.
					"X'20'" - Indicates that the last unsolicited interrupt occurred when a request was outstanding, and could have been induced
					"X'10'" - Indicates that an induced hot I/O condition has been detected on the device
					"X'08'" Channel path recovery is attempting to clear up a HOT-I/O condition for this device.
					"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.

Comment

IOS UCB IOQ chains of I/O requests associated with this device

4	(4)	ADDRESS	4	UCBIOQF	End of Comment
8	(8)	ADDRESS	4	UCBIOQL	First request for this device

Last request for this device

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
Associated subchannel data					
12	(C)	SIGNED	4	UCBSID (0)	End of Comment 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	UCBPMCW1	Path management control word
Comment					
EQU X'8000' Reserved - set to zero EQU X'4000' Reserved - set to zero					
16	(10)	BITSTRING	0	UCBISC	End of Comment "X'3800" Interruption subclass
Comment					
EQU X'0400' Reserved - set to zero EQU X'0200' Reserved - set to zero EQU X'0100' Reserved - set to zero					
1...	....	UCBENABL			End of Comment "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...	UCBM			"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..	UCBDPPMPM			"X'0004" Dynamic pathing multiple path state
Comment					
EQU X'0002' Reserved - set to zero EQU X'0001' Reserved - set to zero					
18	(12)	SIGNED	2	UCBMBI	End of Comment 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.
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.)
Comment					
I/O Supervisor general fields					
32	(20)	SIGNED	1	UCBLEVEL	End of Comment 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

IOSDUP1 Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
				Comment	
				IOS I/O timing time interval key	
				End of Comment	
34	(22)	SIGNED	1	UCBIOTKY	I/O timing time interval key
				Comment	
				IOS MIH flags byte	
				End of Comment	
35	(23)	SIGNED	1	UCBMLHFG	MIH flags byte
		1....		UCBMLHMT	"X'80'" Mount pending condition has been detected
		.1....		UCBMLHMI	"X'40'" Missing interrupt condition has been detected
		..1....		UCBMLHIW	"X'20'" Idle with work queued condition been detected
		....1....		UCBMLHC1	"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...		UCBMLTTM	"X'08'" An I/O timeout condition has been detected for an active I/O request
		..... 1..		UCBMLHC2	"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..		UCBMLIMIH	"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		UCBMLTHS	"X'01'" An IO Timing HyperSwap was triggered on this device.
				Comment	
				IOS level bit mask	
				End of Comment	
36	(24)	BITSTRING	4	UCBLVMSK	UCB level bit mask
				Comment	
				UCB lock word and pointer to the active IOQ element	
				End of Comment	
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.

IOSDUP1 Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
UCBAPGID	21	1	UCBLEVEL	20	
UCBCHPID	18		UCBLGTE	10	20
UCBCHPS	18		UCBLLT	10	40
UCBDPPPM	10	4	UCBLM	10	60
UCBDPTH	21	8	UCBLNONE	10	0
UCBDPVAL	21	4	UCBLOCKC	28	
UCBDSTF	21	2	UCBLPM	14	
UCBENABL	10	80	UCBLPUM	16	
UCBHCHPI	3	7	UCBLVMSK	24	
UCBHCHPR	3	8	UCBMBI	12	
UCBHOTIO	3		UCBMCMB	10	10
UCBHSCD	3	80	UCBMDCTI	10	8
UCBHSOL	3	40	UCBMLHC1	23	10
UCBINDHI	3	10	UCBMLHC2	23	4
UCBIOQC	2C		UCBMLHFF	2	20
UCBIOQF	4		UCBMLHFG	23	
UCBIOQL	8		UCBMLHIO	2	2
UCBIOQRP	2	8	UCBMLHIW	23	20
UCBIOSF1	21		UCBMLHKY	1	
UCBIOSTS	23	1	UCBMLHMI	23	40
UCBIOTKY	22		UCBMLHMO	2	10
UCBMLTTM	23	8	UCBMLHMP	2	4
UCBISC	10	3800	UCBMLHMT	23	80

Name	Hex Offset	Hex Value
UCBMMIHPB	2	40
UCBMMHSS	2	80
UCBMMHTI	2	
UCBMMIMH	23	2
UCBMM	10	18
UCBPDATA	0	
UCBPGDEV	2	1
UCBPIM	17	
UCBPMCW1	10	
UCBRESVH	21	80
UCBRESVP	21	20
UCBRP	21	10
UCBRSTEM	0	
UCBSCHNO	E	
UCBSID	C	
UCBSIDA	C	
UCBSSID	C	D
UCBSUSOL	3	20
UCBVALPH	21	40

IOSDVSAP Information

IOSDVSAP Programming Interface information

Programming Interface information

IOSDVSAP

End of Programming Interface information

IOSDVSAP Heading Information • IOSDVSAP Map

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 Map

Offsets					
Dec	Hex	Type/Value	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.
Comment					
EQU X'1F' Reserved					
End of Comment					
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
Comment					
Various constants					
End of Comment					
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
Comment					
Return Code constants					
End of Comment					
		....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	

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
13	(D)	BITSTRING	0	IOSDVSAP_ESTAE_ERROR	"X'FF14'" The processing suffered a catastrophic error. Function could not be processed. "X'FF18'" IOSVRYSW processing module IOSVVSWF could not establish a recovery environment.

IOSDVSAP Cross Reference

Name	Hex Offset	Hex Value
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
VSAP_VER	4	
VSAPEND	D	10
VSAPSIZEx	D	10
VSAPVRSN	D	1
VSAPV707	D	1

IOSDZHPF Information

IOSDZHPF Programming Interface information

Programming Interface information

IOSDZHPF

End of Programming Interface information

IOSDZHPF Heading Information • IOSDZHPF Map

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 Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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
	....	....		ZHPF_BIDI	"X'80'" Indicates that all of the online paths for the device support bidirectional data for zHPF I/O requests.
	....	....		ZHPF_EXCPVRR	"X'40'" zHPF is supported for EXCPVR requests
	....	....		ZHPF_INCORRECT_LEN	"X'20'" The incorrect length facility is supported by the processor
	....	....		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

Comment

ZHPF Version

32	(20)	X'1'	0	ZHPF_VERSION_CURRENT	End of Comment
32	(20)	X'20'	0	ZHPF_INFO_LEN	"1" Current ZHPF version number "-ZHPF_INFO"

IOSDZHPF Cross Reference

Name	Hex Offset	Hex Value
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

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:

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 ICOM

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 Map

Offsets					
Dec	Hex	Type/Value	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
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.

IPIB Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
<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	End of Comment Purge argument.....
Comment					
<hr/>					
16	(10)	ADDRESS	4	IPIBSRB	End of Comment 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)
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	IPIBPIB	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
<hr/>					
Offsets					
Dec	Hex	Type/Value	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

IPIB Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
IPBE	0		IPIBLNK	24	
IPBENIPB	0		IPIBMEM	0	80
IPBEPIPB	4		IPIBOPT	0	
IPIB	0		IPIBOTCB	0	02
IPIBARG	C		IPIBPASS	30	
IPIBARG2	34		IPIBPBUV	2	20
IPIBASCB	28		IPIBPIRL	1C	
IPIBCHN	2	10	IPIBPOST	0	10
IPIBCNT	4		IPIBPSQ	20	
IPIBDQ	2	80	IPIBPVNT	0	01
IPIBDVID	1		IPIBQUIA	2	04
IPIBDVRU	18		IPIBRBP	0	20
IPIBECB	8		IPIBREL	0	08
IPIBEND	38		IPIBSRB	10	
IPIBFLG1	2		IPIBSRBP	8	
IPIBHALT	0	04	IPIBSRBS	2	08
IPIBIO	14		IPIBTASK	0	40
IPIBPIB	2C		IPIBTIME	2	40

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:
 Offset: 0
 Length: 4
Storage Attributes:
 Main Storage: YES
 Virtual Storage: n/a
 Auxiliary Storage: n/a
 Key: 0
Size:
 Residency: PWA Above 16M line SQA storage PWAEXT below 16M line SQA storage
 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 PWAIPBE 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 Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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	PWAIPBA	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
		...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		PWFREE	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	PWARETO	Return address for subroutines.
84	(54)	ADDRESS	4	PWARET1	Return address for subroutines.

IPWA Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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	

Comment

Static parameters are placed here.

End of Comment

120	(78)	ADDRESS	4	PWAEASPT	ASID pointer
124	(7C)	ADDRESS	4	PWAEPMPT	address of ASID and TCB pointer.
128	(80)	ADDRESS	4	PWAERMRTR	Cleanup routine address.
132	(84)	CHARACTER	8	PWAEPDPM	
132	(84)	CHARACTER	2	*	Halfword alignment.
134	(86)	SIGNED	2	PWAEASID	ASID.
136	(88)	SIGNED	4	PWAETCB	TCB pointer.
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	PWAIQLN	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..		PWAIOQP	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....		PWANSDDWA	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	PWAES213	savearea for savearea pointer.
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....		PWAPHWDWT	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	PWAPHWDFT	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
		..11 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

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
476	(1DC)	ADDRESS	4	PWASVR14	Save area for REG14 during I/O Prevention processing
480	(1E0)	ADDRESS	4	PWARET6	Return address for subrtn
484	(1E4)	CHARACTER	32	PWAIPBE	IPIB Extension
516	(204)	SIGNED	4	PWATQERC	Return code from ENQTQE
520	(208)	CHARACTER	128	PWATQE	TQE area (DWORD bdy)
Comment					

10@0AD

End of Comment

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
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	PWAINTG	Interrogate parameter list
710	(2C6)	CHARACTER	2	*	Reserved for future use
712	(2C8)	CHARACTER	0	*	Align TQE on DWORD bndry

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	248	PWAEXT	PWA ext
Comment					

THE FOLLOWING FIELD CONFORMS TO STORAGE OBTAINED FROM IOSVSMGR

End of Comment

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

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	4	*	Redefinition of IPIB address
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).

IPWA Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		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 PREVNTO request should have its associated IPIBCNT decremented.
		.1.		PWAIOQSC	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..1.		PWADFRR	When set, indicates that IOSPURGD has obtained an FRR.
		....1..1.1		*	Reserved.
1	(1)	ADDRESS	3	PWAIPBA	24-bit address of IPIB

IPWA Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
PWA	0		PWAIOMEM	0	10
PWAASCB	288		PWAIOPRV	0	40
PWAASID	14E		PWAIOQLN	14C	
PWABRNCH	42	02	PWAIOQP	152	04
PWACLKCC	29C		PWAIOQSC	0	20
PWACLK1	28C		PWAIOSP	152	40
PWACLK1H	28C		PWAIPBA	1	
PWACLK1L	290		PWAIPIB	58	
PWACLK2	294		PWAIPBA	8	
PWACLK2H	294		PWAIPIBE	1E4	
PWACLK2L	298		PWAIPBV	0	80
PWACMS	153	40	PWALOCAL	153	80
PWACSAV1	70		PWAMASK	42	
PWACSAV2	74		PWAMEM	44	80
PWACYCLE	44	08	PWANEXT	0	
PWADFRR	0	02	PWANODRV	42	04
PWADIVIO	1D7	40	PWANOENQ	43	20
PWADLLCK	0	08	PWANPPL	C	
PWADMODE	0	04	PWANSDDWA	153	10
PWADSID	43	40	PWAPGCT	152	80
PWAEABSV	BC		PWAPHWD	1D5	
PWAEASID	86		PWAPHWDF	1D6	
PWAEASPT	78		PWAPHWDT	1D5	10
PWAEBCR0	104		PWAPHWDW	1D5	08
PWAEBCR1	108		PWAPHWD1	1D5	80
PWAEBCR2	10C		PWAPHWD2	1D5	40
PWAECBSV	104		PWAPHWD3	1D5	20
PWAECBSV	160		PWAPRBST	1D4	80
PWAEMCPM	78		PWAPRLNG	150	
PWAENQFL	152	10	PWAPRLPT	2C	
PWAEPDPM	84		PWAPURGB	44	20
PWAEPMPT	7C		PWAPURGC	44	10
PWAERMTR	80		PWARCRTY	152	02
PWAESRB	1A8		PWARCVYH	2A0	40
PWAESTA	44	40	PWAREGA	38	
PWAESV13	158		PWAREGB	3C	
PWAETCB	88		PWAREGC	40	
PWAEXT	0		PWAREGD	44	
PWAES2S13	15C		PWAREGE	48	
PWAFLAGS	2A0		PWAREGF	4C	
PWAFLG0	152		PWAREGSV	10	
PWAFLG1	153		PWAREGO	10	
PWAFLG2	1D4		PWAREG1	14	
PWAFLG3	1D7		PWAREG2	18	
PWFREE	42	01	PWAREG3	1C	
PWFRR	152	01	PWAREG4	20	
PWAGETMN	42	20	PWAREG5	24	
PWAHALTQ	38		PWAREG6	28	
PWAHCNT	34		PWAREG7	2C	
PWAHECB	3C		PWAREG8	30	
PWAHISAV	3C		PWAREG9	34	
PWAID	0		PWARESTP	1D7	80
PWAINTG	2A6		PWARETC	43	
PWAINVAL	44	04	PWARETC2	44	
PWAIOCNT	42	08	PWARETRY	153	04

Name	Hex Offset	Hex Value
PWARET0		50
PWARET1		54
PWARET15		68
PWARET2		58
PWARET3		5C
PWARET4		60
PWARET5		64
PWARET6	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
PWA13BSV		154
PWA24ID		4
PWA24PTR		4
PWA31PTR		C

IQE Information

IQE Programming Interface Information

Programming Interface Information

IQE

ONLY the following fields are part of the programming interface:

- IQEPARAM
- IQEIRB
- IQETCB

End of Programming Interface Information

IQE Heading Information • IQE Cross Reference

IQE Heading Information

Common Name:	Interruption Queue Element
Macro ID:	IHAIQE
DSECT Name:	IQE
Owning Component:	Supervisor Control (SC1C5)
Eye-Catcher ID:	None
Storage Attributes:	Subpool: 253 24 bytes
Size:	24 bytes
Created by:	Caller of stage 2 exit effector
Pointed to by:	ASXBFIQE field of the ASXB data area ASXBLIQE 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) TCBHQE 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 Map

Offsets					
Dec	Hex	Type/Value	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" .STIMERM 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
13	(D)	ADDRESS	3	IQETCBA	.ADDR TCB ASSOCIATED WITH THIS IQE

Comment

THE FOLLOWING IS IN BEHALF OF S.M.F.

End of Comment

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

IQE Cross Reference

Name	Hex Offset	Hex Value
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

IRACPMB Information

IRACPMB Programming Interface information

Programming Interface information

IRACPMB

End of Programming Interface information

IRACPMB Heading Information

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

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 CMTCRCT 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.

@OA22918

IRACPMB Map

IRACPMB Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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.
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"

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	CPMB_CHP_ENTRY	A channel path measurement entry
0	(0)	SIGNED	4	CPMB_CUM_CHP_BUSY (0)	Cumulative channel path busy.
	1...			CPMB_CHP_ENTRY_NOT_VALID	"X'80'" Validity flag for the CHP entry. 0 - Entry is valid. 1 - Entry is not valid.
0	(0)	BITSTRING	3	CPMB_CHP_FLAGS (0)	CHP busy count data
4	(4)	BITSTRING	1		Flags.
	1...			CPMB_SHARED_CHANNEL	"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"

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	CMC2	Channel Measurement Characteristics for CPM2
0	(0)	CHARACTER	32	CMC2CHANMEASUREMENTCHARBLOCK (0)	

Comment

Channel Measurement Characteristics Block

End of Comment

0	(0)	BITSTRING	1	CMC2FLAGS (0)	Channel Measurement Characteristics Flags
	1...			CMC2NOTVALID	"X'80'" Not Valid - when 0 indicates that information is provided in this CMC block
	.1...			CMC2SHAREDCHPID	"X'40'" Shared channel path
	..1.			CMC2EXTSUPPORT	"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
	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	1	CMC2MISC (0)	

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.... 1111		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

Comment

Values for the CMC2CMG field, the channel measurement group types.

End of Comment

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"

Offsets

Dec	Hex	Type/Value	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"

Offsets

Dec	Hex	Type/Value	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"

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	CPM2	Channel Path Measurement Block - format 2
0	(0)	CHARACTER	32	CPM2CHANNELUTILIZATIONENTRY (0)	

Comment

Channel Utilization Entry

End of Comment

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	

IRACPMB Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
4 8192	(4) (2000)	CHARACTER X'2000'	28 0	CPM2DATA CPM2_LEN	Time stamp indicating when data was last stored in this CUE, 128 microsecond granularity Channel measurement group data "--CPM2"
Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0 0	(0) (0)	STRUCTURE SIGNED	0 4	CPM2CMG1 CMG1TOTALCHANNELBUSYTIME	Channel Measurement Group 1 Channel Path Busy Time, total for the CHPID
4	(4)	SIGNED	4	CMG1LPARCHANNELBUSYTIME	Channel Path Busy Time, just for this LPAR
8 8	(8) (8)	CHARACTER X'1C'	20 0	CPM2CMG1_LEN	Reserved "--CPM2CMG1"
Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0 0	(0) (0)	STRUCTURE SIGNED	0 4	CPM2CMG2 CMG2TOTALBUSCYCLECOUNT	Channel Measurement Group 2 Count of Bus Cycles, total for the CHPID
4	(4)	SIGNED	4	CMG2TOTALCHANNELWORKUNITCOUNT	Count of Channel Work Units, total for the CHPID
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"
Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0 0	(0) (0)	STRUCTURE SIGNED	0 4	CPM2CMG3 CMG3MESSAGEUNITSSENT	Channel Measurement Group 3 Count of message units sent by programs
4	(4)	SIGNED	4	CMG3MESSAGEUNITSSENTCPC	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	CMG3UNAVAILRECEIVEBUFFERSCPC	Unavailable receive buffers in the target partition including all unsucc. attempts from all partitions using the channel path
20	(14)	SIGNED	4	CMG3DATAUNITSSENT	Number of data units sent by programs in the issuing logical partition
24	(18)	SIGNED	4	CMG3DATAUNITSSENTCPC	Number of data units sent by all logical partitions which have access to the channel path
24	(18)	X'1C'	0	CPM2CMG3_LEN	--CPM2CMG3"
Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0 0	(0) (0)	STRUCTURE CHARACTER	0 64	CPMX CPMXCHANNELUTILIZATIONENTRY (0)	Extended Channel Utilization Block

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					

Extended Channel Utilization
Entry

End of Comment

0 16384	(0) (4000)	CHARACTER X'4000'	64 0	CPMXDATA CPMX_LEN	Extended channel measurement group data "--CPMX"
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Offsets

Dec	Hex	Type/Value	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"

IRACPMB Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
CMCCMG1	C	1	CMG1LPARCHANNELBUSYTIME		
CMCCMG2	C	2	CMG1TOTALCHANNELBUSYTIME	4	
CMCCMG3	C	3	CMG2LPARCHANNELWORKUNITCOUNT	0	
CMC2	0		CMG2LPARREADDATAUNITS	8	
CMC2_LEN	2000	2000	CMG2LPARWRITEDATAUNITS	18	
CMC2CHANMEASUREMENTCHARBLOCK	0		CMG2TOTALBUSCYCLECOUNT	10	
CMC2CHPID	3		CMG2TOTALCHANNELWORKUNITCOUNT	0	
CMC2CMCVALIDITYMASK	4	F8	CMG2TOTALREADDATAUNITS	4	
CMC2CMG	7		CMG2TOTALWRITEDATAUNITS	14	
CMC2CMGP	5	F	CMG3DATAUNITSSENT	C	
CMC2CMGQ	6		CMG3DATAUNITSSENTCPC	14	
CMC2CMG2	0		CMG3MESSAGEUNITSSENT	18	
CMC2CMG2_LEN	10	14	CMG3MESSAGEUNITSSENTCPC	0	
CMC2CMG3	0		CMG3UNAVAILRECEIVEBUFFERS	4	
CMC2CMG3_LEN	10	14	CMG3UNAVAILRECEIVEBUFFERSCPC	C	
CMC2DATA	C		CMG3UNSUCCATTEMPTSTOSEND	10	
CMC2DATAUNITSIZE	10		CPMB	8	
CMC2EXTSUPPORT	0	20	CPMB_CHP_DATA	0	
CMC2FLAGS	0		CPMB_CHP_ENTRY	8	
CMC2MASKBYTE	4		CPMB_CHP_ENTRY_LEN	0	
CMC2MAXBUSCYCLES	0		CPMB_CHP_ENTRY_NOT_VALID	5	8
CMC2MAXCHANNELWORKUNITS	4		CPMB_CHP_FLAGS	0	
CMC2MAXREADDATAUNITS	C		CPMB_CUM_CHP_BUSY	80	
CMC2MAXWRITEDATAUNITS	8			0	
CMC2MISC	5				
CMC2NOTVALID	0	80			
CMC2SHAREDCHPID	0	40			
CMC2SPEED	A				
CMC3DATAUNITSIZECPC	0				
CMC3MESSAGEUNITSIZECPC	4				
CMC3MESSAGEUNITSIZECPC	8				
CMC3MESSAGEUNITSIZECPC	C				

IRACPMB Cross Reference

Name	Hex Offset	Hex Value
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	
CPMXSUMMATIONCOUNTOPSFCX	18	
CPMXTOTALCOUNTOPS	0	
CPMXTOTALCOUNTOPSDEFERRED	4	
CPMXTOTALCOUNTOPSDEFERREDFCX	14	
CPMXTOTALCOUNTOPSFCX	10	
CPM2	0	
CPM2_LEN	2000	2000
CPM2CHANNELUTILINFOVALITYMASK	0	
CPM2CHANNELUTILIZATIONENTRY	0	
CPM2CMG1	0	
CPM2CMG1_LEN	8	1C
CPM2CMG2	0	
CPM2CMG2_LEN	18	1C
CPM2CMG3	0	
CPM2CMG3_LEN	18	1C
CPM2DATA	4	
CPM2TIMESTAMP	1	

IRAEcmb Information

IRAEcmb Programming Interface information

Programming Interface information

IRAEcmb

End of Programming Interface information

IRAEcmb Heading Information • IRAECMB Map

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.
 - CMCTECMBPptr 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 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 CMCTECMBPptr. That is:

$$\text{ECMBPptr} = \text{CMCTECMBPptr} + 64 * (\text{UCBSSID} * 65536 + \text{UCBMBI})$$

Serialization: None
Function: IRAECMB maps the Extended Channel Measurement Block.

IRAEcmb Map

Offsets

Dec	Hex	Type/Value	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"

Offsets

Dec	Hex	Type/Value	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	

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
28	(1C)	SIGNED	4	ECMBDEVICEBUSYTIME	Summation of device- active-only times
32	(20)	SIGNED	4	ECMBINITIALCMDRESPTIME	Summation of device busy times
36	(24)	SIGNED	4	ECMBINTERRUPTDELAYTIME	Initial command response time
40	(28)	CHARACTER	24		Interrupt delay time
40	(28)	'XC3D4C2'	0	ECMBECMB	Reserved
40	(28)	X'40'	0	ECMB_LEN	"C'ECMB'" Acronym for ECMBname "-ECMB"

IRAEcmb Cross Reference

Name	Hex Offset	Hex Value
ECMB	0	
ECMB_LEN	28	40
ECMBBITS	8	
ECMBCONNECTTIME	8	
ECMBCUQUEUEINGTIME	14	
ECMBDEVICEACTIVEONLYTIME	18	
ECMBDEVICEBUSYTIME	1C	
ECMBDISCONNECTTIME	10	
ECMBECMB	28	C3D4C2
ECMBENTRY	40	
ECMBHEADER	0	
ECMBINITIALCMDRESPTIME	20	
ECMBINTERRUPTDELAYTIME	24	
ECMBLENGTH	4	
ECMBNAME	0	
ECMPENDINGTIME	C	
ECMBSAMPLECOUNT	4	
ECMBSSCHRSCHCOUNT	0	
ECMBSUBCHANNELSET	8	C0
IRAEcmb	0	
IRAEcmb_LEN	40	80

IRAENF55 Information

IRAENF55 Programming Interface information

Programming Interface information

IRAENF55

End of Programming Interface information

IRAENF55 Heading Information • IRAENF55 Map

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
Created by: @LHISTOC
 IRASTFXS @LHISTOC
 IRASTAUX @LPSMONA
 IRASTSCM @LPSMONA
 IRARMMRM @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
- @LLSENHA
- Preferred Frame Queue Shortages
- ENF55QLF_PREF_SHORTAGE
- ENF55QLF_PREF_SHORTAGE_RELIEVED

 @LPSMONA

IRAENF55 Map

Offsets					
Dec	Hex	Type/Value	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	ENF55LOTSNEEDED	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)

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
32	(20)	SIGNED	2	ENF55RSV4	Reserved

Comment

When the system is in a pageable storage shortage, the address space elements get filled with the top cause of the current shortage. The field ENF55NoOfAsidElements contains the number of valid address space elements, mapped via ENF55AsidElement.

End of Comment

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
40	(28)	X'28'	0	ENF55_LEN	"-ENF55"

Offsets

Dec	Hex	Type/Value	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

Comment

Constants

End of Comment

....	....	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	
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	

IRAENF55 Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
4	(4)	BITSTRING	0	ENF55QLF_AFQ_SHORTAGE	"X'000020000" High usage of Flash Storage relieved. Issued when IRA252I occurs
4	(4)	BITSTRING	0	ENF55QLF_AFQ_SHORTAGE_RELIEVED	"X'000080000" Available Frame Queue Shortage Not enough frames on the available frame queue
4	(4)	BITSTRING	0	ENF55QLF_PREF_SHORTAGE	"X'000040000" Available Frame Queue Shortage relieved
4	(4)	BITSTRING	0	ENF55QLF_PREF_SHORTAGE_RELIEVED	"X'000020000" Preferred Frame Queue Shortage Not enough frames on the preferred frame queue. See ENF55TYP for the storage area.
4	(4)	BITSTRING	0	ENF55QLF_SHORTAGE_RELIEVED	"X'000010000" Preferred Frame Queue Shortage relieved
	....	....		ENF55QLF_SHORTAGE_RECOGNIZED	"X'800000000" Obsolete, use new constant above
	....	....		ENF55QLF_SHORTAGE_RELIEVED	"X'400000000" Obsolete, use new constant above
4	(4)	BITSTRING	0	ENF55QLF_HIGH_SCM_USAGE	"X'000400000" Obsolete, use new constant above
4	(4)	BITSTRING	0	ENF55QLF_HIGH_SCM_USAGE_RELIEVED	"X'000200000" Obsolete, use new constant 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_0TO3	"C'IRAE" This is the first 4-byte segment of an 8-byte constant. Storage due to fixed storage - relieved
4	(4)	X'C6F5F5'	0	ENF55_EYECATCHER_4TO7	"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"

IRAENF55 Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
ENF55	0		ENF55FRAMESNEEDED		
ENF55_ASIDELEMENTLENGTH	4	8	ENF55FRM		14
ENF55_EYECATCHER_0TO3	4	D9C1C5	ENF55ID		10
ENF55_EYECATCHER_4TO7	4	C6F5F5	ENF55LEN		0
ENF55_LATEST_VERSION	4	2	ENF55NOOFASIDELEMENTS		8
ENF55_LEN	28	28	ENF55QLF		26
ENF55_LENGTH	4	C8	ENF55QLF_AFQ_SHORTAGE		C
ENF55_MAXNOOFASIDELEMENTS	4	14	ENF55QLF_AFQ_SHORTAGE_RELIEVED		8000
ENF55_VERSION1	4	1	ENF55QLF_AUX_APPL_WARNING		4000
ENF55_VERSION2	4	2	ENF55QLF_AUX_APPL_WARNING_RELIEVED		200000
ENF55ASID	0		ENF55QLF_AUX_CRITICAL_SHORTAGE		100000
ENF55ASIDELEMENT	0		ENF55QLF_AUX_SHORTAGE		0
ENF55ASIDELEMENT_LEN	4	8	ENF55QLF_AUX_SHORTAGE_RELIEVED		0
ENF55ASIDELEMENTLENGTH	24		ENF55QLF_AUX_WARNING		0
ENF55ASIDELEMENTOFFSET	22		ENF55QLF_HIGH_SCM_USAGE		40000
ENF55FIXEDEND	28		ENF55QLF_HIGH_SCM_USAGE_RELIEVED		20000
ENF55FRAMES	4		ENF55QLF_PREF_SHORTAGE		

Name	Hex Offset	Hex Value
ENF55QLF_PREF_SHORTAGE_RELIEVED	4	2000
ENF55QLF_REAL_APPL_WARNING	4	1000
ENF55QLF_REAL_APPL_WARNING_RELIEVED	4	800000
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	
ENF55LOTS	4	
ENF55LOTSNEEDED	14	
ENF55TIMESTAMP	18	
ENF55TYP	B	
ENF55VER	A	

IRAEVPL Information

IRAEVPL Programming Interface information

Programming Interface information

IRAEVPL

End of Programming Interface information

IRAEVPL Heading Information • IRAEVPL Map

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 Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	IRAENCSTATE_PARMLIST	
0	(0)	SIGNED	4	IRAENCSTATE_FUNCTIONCODE	
IRAEVPL.17: See constants					

Comment

IRAEVPL.26: Enclave is entering the idle state

0	(0)	X'1'	0	IRAENCSTATE_IDLE	End of Comment
					"1"

Comment

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	End of Comment
0	(0)	X'4'	0	IRAENCSTATE_PARMLIST_LEN	"2" "--IRAENCSTATE_PARMLIST"

Offsets

Dec	Hex	Type/Value	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
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 ENQLRSE
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 ENQLRSE
68	(44)	BITSTRING	4	IRAENQHR_FLAGS	

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
					IRAEVPL.589: flags
Comment					
Bit definitions:					
					End of Comment
					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	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	IRAEVPL.613: Address space token or 0 if resource holder is identified by ASID or enclave token	
84	(54)	CHARACTER	4	IRAEVPL.619: reserved	
Comment					
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.					
					End of Comment
84	(54)	X'8'	0	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.	
					"8"
Comment					
					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.
					End of Comment
84	(54)	X'A'	0	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.	
					"10"
Comment					
					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
					End of Comment
84	(54)	X'C'	0	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	
					"12"
Comment					
					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
					End of Comment
84	(54)	X'E'	0	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	
					"14"
Comment					
					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
					End of Comment
84	(54)	X'10'	0	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	
					"16"

IRAEVPL Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
				Comment	
				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	IRARENQHR_NOWORKUNITINFO	End of Comment "0"
				Comment	
				IRAEVPL.682: Enqhold/Enqrse against address space or enclave, and the TCB and ASCB of the holder are supplied.	
84	(54)	X'1'	0	IRARENQHR_WORKUNITINFO	End of Comment "1"
				Comment	
				IRAEVPL.691: Enqhold/Enqrse against address space or enclave with subsystem information	
84	(54)	X'2'	0	IRARENQHR_SUBSYSTEMINFO	End of Comment "2"
				Comment	
				IRAEVPL.700: Enqhold/Enqrse against address space or enclave with subsystem information. Support of short time / high frequency enqueue promotion. Support of STOKEN	
84	(54)	X'3'	0	IRARENQHR_SHORT_TIME	End of Comment "3"
				Comment	
				IRAEVPL.709: Maximum request type for Enqhold/Enqrse Sysevents	
84	(54)	X'3'	0	IRARENQHR_MAXREQUESTTYPE	End of Comment "3"
				Comment	
				IRAEVPL.718: Function code for standard enqueue promotion	
84	(54)	X'0'	0	IRARENQHR_FUNCTION_STANDARD	End of Comment "0"
				Comment	
				IRAEVPL.727: Function code for short time / high frequency enqueue promotion	
84	(54)	X'1'	0	IRARENQHR_FUNCTION_STP	End of Comment "1"
84	(54)	X'58'	0	IRARENQHR_PARMLIST_LEN	"*-IRARENQHR_PARMLIST"

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	IRAENCASSOC_PARMLIST	
0	(0)	BITSTRING	1	IRAENCASSOC_FUNCTION_CODE	

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
1	(1)	BITSTRING	1	IRAENCASSOC_RSV1	IRAEVPL.470: Function code for this request. See EncAssoc function code constants
2	(2)	CHARACTER	22		IRAEVPL.444: Reserved field. Must be set to zero IRAEVPL.438: For future use
Comment					
IRAEVPL.217: Return code 4 will be passed to the caller of EncAssoc if the specified function code is invalid					
End of Comment					
2	(2)	X'4'	0	IRAENCASSOC_RETURN_CODE_04	"4"
Comment					
IRAEVPL.459: Return code 10 will be passed to the caller of EncAssoc if the specified enclave token is invalid					
End of Comment					
2	(2)	X'10'	0	IRAENCASSOC_RETURN_CODE_10	"16"
Comment					
IRAEVPL.392: Function code for SYSEVENT EncAssoc: Associate an enclave with an address space					
End of Comment					
2	(2)	X'1'	0	IRAENCASSOC_FUNCTION_ASSOC	"1"
Comment					
IRAEVPL.468: Function code for SYSEVENT EncAssoc: Disassociate an enclave with an address space					
End of Comment					
2	(2)	X'2'	0	IRAENCASSOC_FUNCTION_DISASSOC	"2"
2	(2)	X'18'	0	IRAENCASSOC_PARMLIST_LEN	"*IRAENCASSOC_PARMLIST"

Offsets

Dec	Hex	Type/Value	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
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

IRAEVPL Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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

Comment

IRAEVPL.785: Return code 4 will be passed to the caller of
SYSEVENT QRYCONT if there are no contentions.

				End of Comment
200	(C8)	X'4'	0	IRAQRYCN_RETURN_CODE_04 "4"

Comment

IRAEVPL.502: Return code 8 will be passed to the caller of
SYSEVENT QRYCONT if an invalid enclave token was specified.

				End of Comment
200	(C8)	X'8'	0	IRAQRYCN_RETURN_CODE_08 "8"

Comment

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.

				End of Comment
200	(C8)	X'A'	0	IRAQRYCN_RETURN_CODE_10 "10"

Comment

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.

				End of Comment
200	(C8)	X'C'	0	IRAQRYCN_RETURN_CODE_12 "12"

Comment

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.

				End of Comment
200	(C8)	X'E'	0	IRAQRYCN_RETURN_CODE_14 "14"

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
Comment					
IRAEVPL.821: Return code 16 will be passed to the caller of SYSEVENT QRYCONT if there is additional resource contention information available					
200	(C8)	X'10'	0	IRAQRYCN_RETURN_CODE_16	End of Comment "16"
Comment					
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	End of Comment "18"
Comment					
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	End of Comment "20"
Comment					
IRAEVPL.848: Contention caused by SYSEVENT ENQHOLD Standard					
200	(C8)	X'1'	0	IRAQRYCN_CONTENTION_ID_STD_ENQHOLD	End of Comment "1"
Comment					
IRAEVPL.883: Contention caused by SYSEVENT ENQHOLD Short time promotion					
200	(C8)	X'2'	0	IRAQRYCN_CONTENTION_ID_STP_ENQHOLD	End of Comment "2"
Comment					
IRAEVPL.892: Contention caused by Chronic resource contention service IWMCNTN					
200	(C8)	X'3'	0	IRAQRYCN_CONTENTION_ID_CNTN	End of Comment "3"
Comment					
IRAEVPL.946: Eyecatcher of query contention parmlist					
200	(C8)	X'D9C1D8'	0	IRAQRYCN_EYE_CATCHER_VALUE_0TO3	End of Comment "C'IRAQ" This is the first 4-byte segment of an 8-byte constant.
200	(C8)	X'E8C3D5'	0	IRAQRYCN_EYE_CATCHER_VALUE_4TO7	"C'RYCN" This is the second 4-byte segment of an 8-byte constant.
Comment					
IRAEVPL.499: Parmlist length value					
200	(C8)	X'D0'	0	IRAQRYCN_LENGTH_VALUE	End of Comment

IRAEVPL Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
					"208"
					Comment
					IRAEVPL.982: Parmlist version 01
					End of Comment
200	(C8)	X'1'	0	IRAQRYCN_VERSION_01	"1"
					Comment
					IRAEVPL.1022: Request type 'All' returns contention information for Standard EnqHolds, Short time EnqHolds, and Chronic resource contentions
					End of Comment
200	(C8)	X'0'	0	IRAQRYCN_REQTYPE_ALL	"0"
					Comment
					IRAEVPL.1013: Request type 'EnqHold' returns contention information for Standard EnqHolds and Short time EnqHolds
					End of Comment
200	(C8)	X'1'	0	IRAQRYCN_REQTYPE_ENQHOLD	"1"
					Comment
					IRAEVPL.1031: Request type 'CNTN' returns contention information for Chronic resource contentions
					End of Comment
200	(C8)	X'2'	0	IRAQRYCN_REQTYPE_CNTN	"2"
200	(C8)	X'D0'	0	IRAQRYCN_PARMLIST_LEN	"*-IRAQRYCN_PARMLIST"

IRAEVPL Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
IRAECCASSOC_FUNCTION_ASSOC	2	1	IRAEQHR_FLAGS	0	
IRAECCASSOC_FUNCTION_CODE	0		IRAEQHR_FLAGS_RHTERM	44	
IRAECCASSOC_FUNCTION_DISASSOC	2	2	IRAEQHR_FUNCTION	44	80
IRAECCASSOC_PARMLIST	0		IRAEQHR_FUNCTION_STANDARD	40	
IRAECCASSOC_PARMLIST_LEN	2	18	IRAEQHR_FUNCTION_STP	54	0
IRAECCASSOC_RETURN_CODE_04	2	4	IRAEQHR_MAXREQUESTTYPE	54	1
IRAECCASSOC_RETURN_CODE_10	2	10	IRAEQHR_NOWORKUNITINFO	54	3
IRAECCASSOC_RSV1	1		IRAEQHR_PARMLIST	54	0
IRAECCSTATE_FUNCTIONCODE	0		IRAEQHR_PARMLIST_LEN	0	
IRAECCSTATE_IDLE	0	1	IRAEQHR_RETURN_CODE_08	54	58
IRAECCSTATE_NONIDLE	0	2	IRAEQHR_RETURN_CODE_10	54	8
IRAECCSTATE_PARMLIST	0		IRAEQHR_RETURN_CODE_12	54	A
IRAECCSTATE_PARMLIST_LEN	0	4	IRAEQHR_RETURN_CODE_14	54	C
IRAEQHR_ASID	48		IRAEQHR_RETURN_CODE_16	54	E
IRAEQHR_ETOKEN				54	10

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
IRAENQHR_SHORT_TIME	54	3	IRAQRYCN_RETURN_CODE_16	C8	10
IRAENQHR_STOKEN	4C		IRAQRYCN_RETURN_CODE_18	C8	12
IRAENQHR_SUBSYS	14		IRAQRYCN_RETURN_CODE_20	C8	14
IRAENQHR_SUBSYSNAME	18		IRAQRYCN_STOKEN	10	
IRAENQHR_SUBSYSREQUEST	20		IRAQRYCN_SUBSYS	28	
IRAENQHR_SUBSYSTEMINFO	54	2	IRAQRYCN_SUBSYSNAME	2C	
IRAENQHR_TCBPTR	8		IRAQRYCN_VERSION	A	
IRAENQHR_TOKEN	C		IRAQRYCN_VERSION_01	C8	1
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				
IRAQRYCN_EYE_CATCHER	0				
IRAQRYCN_EYE_CATCHER_VALUE_0TO3	C8	D9C1D8			
IRAQRYCN_EYE_CATCHER_VALUE_4TO7	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			

IRAIISM Information

IRAIISM Programming Interface information

Programming Interface information

IRAIISM

End of Programming Interface information

IRAIISCM Heading Information • IRAIISCM Cross Reference

IRAIISCM Heading Information

Common Name: System Resource Manager Installation Control Specification Symbol Table Entry Mapping Macro
Macro ID: IRAIISCM
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, user id, 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.

IRAIISCM Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	ICSM	
0	(0)	CHARACTER	4	ICSMSUBN	SUBSYSTEM NAME
4	(4)	CHARACTER	10	ICSMTRXN	TRANSACTION NAME
14	(E)	CHARACTER	10	ICSMUSRD	USERID
24	(18)	CHARACTER	10	ICSMCLS	TRANSACTION CLASS
34	(22)	CHARACTER	10	ICSMSRVC	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	ICSMLEN	"ICSMEND-ICSM" LENGTH OF ICSM

IRAIISCM Cross Reference

Name	Hex Offset	Hex Value
ICSM	0	0
ICSMACTN	2C	80
ICSMCLS	18	40404040
ICSMEND	30	0
ICSMFLAG	2C	0
ICSMLEN	30	30
ICSMRSVD	2D	0
ICSMSRVC	22	40404040
ICSMSUBN	0	40404040
ICSMTRXN	4	40404040
ICSMUSRD	E	40404040

IRALPDAT Information

IRALPDAT Programming Interface information

Programming Interface information

IRALPDAT

End of Programming Interface information

IRALPDAT Heading Information • IRALPDAT Map

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 REQSRMST 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 Map

Offsets					
Dec	Hex	Type/Value	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	
12	(C)	CHARACTER	8	LPDATIMGLOGICALPARTITIONNAME	IRALPDAT.455: CEC CPU capacity in millions of service units per hour
20	(14)	SIGNED	4	LPDATIMGCAPACITY	IRALPDAT.461: Logical partition name
24	(18)	SIGNED	4	LPDATPHYCPUADJFACTOR	IRALPDAT.467: Logical partition CPU capacity in millions of service units per hour

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
					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
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	LPDATCUMUNCAPPEDDELAPSEDTIME	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	LPDATCUMCAPPEDDELAPSEDTIME	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)
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	LPDATMODELCAPIDENT	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	LPDATMODELPERMPCAPIDENT	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.
160	(A0)	SIGNED	4	LPDATMODELCAPRATING	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.

IRALPDAT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
164	(A4)	SIGNED	4	LPDATMODELPERMCAPRATING	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	LPDATMODELTEMPCAPRATING	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)	CHARACTER	8	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"

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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.324: Service units which would be allowed by the group capacity limit but are not consumed by the members of the group.

Comment

IRALPDAT.630: Version 1

16	(10)	X'1'	0	LPDATVER1	End of Comment "1"
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Comment

IRALPDAT.16: Version 2

16	(10)	X'2'	0	LPDATVER2	End of Comment "2"
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Comment

IRALPDAT.44: Version 3 (additional fields) @LGCL2

16	(10)	X'3'	0	LPDATVER3	End of Comment "3"
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Comment

IRALPDAT.49: Version 4 (additional fields)

16	(10)	X'4'	0	LPDATVER4	End of Comment "4"
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Comment

IRALPDAT.639: Current Version

16	(10)	X'4'	0	LPDATCURVER	End of Comment "4"
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Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
					Comment
IRALPDAT.648: Service completed successfully					
16	(10)	X'0'	0	LPDATRCOK	End of Comment "0"
					Comment
IRALPDAT.335: Parameter list is too small to contain current version data					
16	(10)	X'4'	0	LPDATRCTOOSMALL	End of Comment "4"
					Comment
IRALPDAT.657: Current required length of Parameter list					
16	(10)	X'474'	0	LPDATPARMLENGTH	End of Comment "1140"
16	(10)	X'14'	0	LPDATSERVICETABLEENTRYMAP_LEN	"*-LPDATSERVICETABLEENTRYMAP"

IRALPDAT Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
LPDATAVGIMGSERVICE			LPDATMODELPERMCAPIDENT		
	24			80	
LPDATCAPACITYGROUPMSULIMIT			LPDATMODELPERMCAPRATING		
	50			A4	
LPDATCAPACITYGROUPNAME			LPDATMODELTEMPCAPIDENT		
	48			90	
LPDATCECCAPACITY			LPDATMODELTEMPCAPRATING		
	8			A8	
LPDATCUMCAPPEDDELAPSEDTIME			LPDATOUT		
	30			4	
LPDATCUMUNCAPPEDDELAPSEDTIME			LPDATPARMLENGTH		
	28			10	474
LPDATCUMWEIGHT			LPDATPHYCPUADJFACTOR		
	1C			18	
LPDATCURVER	10	4	LPDATRCOK	10	0
LPDATDEFCDATA			LPDATRCTOOSMALL		
	24			10	4
LPDATDEFCDATAVALID			LPDATRESERVED		
	5	40		AC	
LPDATDEFCAPSET			LPDATSERVICECAPPED		
	5	80		8	
LPDATEND1	B4		LPDATSERVICECAPPEDTIME		
LPDATFLAGS	5			C	
LPDATGROUPJOINEDTOD			LPDATSERVICETABLEENTRIES		
	54			44	
LPDATIMGCAPACITY			LPDATSERVICETABLEENTRYINTERVAL		
	14			38	
LPDATIMGLOGICALPARTITIONNAME			LPDATSERVICETABLEENTRYLENGTH		
	C			40	
LPDATIMGMSULIMIT			LPDATSERVICETABLEENTRYMAP		
	5C			0	
LPDATINOUT	0		LPDATSERVICETABLEENTRYMAP_LEN		
LPDATINSTALLEDCDATA				10	14
	60		LPDATSERVICETABLEOFFSET		
LPDATLEN	0			3C	
LPDATMAP	0		LPDATSERVICEUNCAPPED		
LPDATMAP_LEN	B4	B4		0	
LPDATMODEL	70		LPDATSERVICEUNCAPPEDTIME		
LPDATMODELCAPIDENT				4	
	60		LPDATSERVICEUNUSEDGROUPCAPACITY		
LPDATMODELCAPRATING	A0			10	

IRALPDAT Cross Reference

Name	Hex Offset	Hex Value
LPDATVER2	10	2
LPDATVER3	10	3
LPDATVER4	10	4
LPDATWEIGHTACCUMCOUNTER		
	20	

IRAOUCBX Information

IRAOUCBX Heading Information

Common Name: Resources Manager User Control Block Extension
Macro ID: IRAOUCBX
DSECT Name: Oucbx,OucbS,OucbSamples,OucbReptSamples
Owning 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 Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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
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 ascsbwct
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
84	(54)	SIGNED	4	OUCBPINE	Base value for page-in from expanded count
88	(58)	SIGNED	4	OUCBBKIA	Base value for blocks in aux count
92	(5C)	SIGNED	4	OUCBBKIE	Base value for blocks in expanded count
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 TERMWAITS DETECTED BY MS6
104	(68)	ADDRESS	4	OUCBSQFP	secondary oucb queue forward pointer
108	(6C)	ADDRESS	4	OUCBSQBP	secondary oucb queue back pointer

IRAOUCBX Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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	OUCBXSMF30EXPPAGERESIDENCYTIME	Page seconds for expanded storage, SMF30 interval
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 IWMSSEL 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	OUCBUSINTTIMEBASE	Base for I/O using time (ouxbcon + ouxbdisc)
164	(A4)	BITSTRING	1	OUCBWLMF	WLM flags, name used in IPCS formatter
	.... ....			OUCBXSPECIALFULLPREEMPT	Special full preemption requested via the FULLPRE sysevent
	.... ....			OUCBXMF	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
	.... 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
177	(B1)	UNSIGNED	1	OUCBESH	expanded storage access policy for hyperspace
178	(B2)	UNSIGNED	1	OUCBESTP	expanded storage access policy for swap trim
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
196	(C4)	UNSIGNED	4	OUCBESB2	UIC-expanded bucket 2
200	(C8)	UNSIGNED	4	OUCBESB3	UIC-expanded bucket 3
204	(CC)	UNSIGNED	4	OUCBESB4	UIC-expanded bucket 4
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
220	(DC)	UNSIGNED	4	OUCBSDAC	Swap delay accumulator

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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
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 deputation)
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
296	(128)	UNSIGNED	4	OUCBEXOB	Base for OUXBPOTE
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. @OW23722
	.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.
	....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..	....		OUCBXTRXMGMTBOTHSPECIFIED	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	OUCBPROPAGATEDENQHOLDCOUNT	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/tswap/fixed storage shortage swap
312	(138)	SIGNED	4	OUCBEUB1	Unadjusted expanded uic bucket 1
316	(13C)	SIGNED	4	OUCBEUB2	Unadjusted expanded uic bucket 2
320	(140)	SIGNED	4	OUCBEUB3	Unadjusted expanded uic bucket 3
324	(144)	SIGNED	4	OUCBEUB4	Unadjusted expanded uic bucket 4

IRAOUCBX Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
328	(148)	CHARACTER 1... .... .1... .... .1. .... .1 1... .... .1.. .... ..1. .... ...1	1	OUCBWL2 OUCBDFRR OUCBEFRR OUCBGFRR OUCBWSMT OUCBMDAC OUCBSSPS OUCBRSNS OUCBPSRB	Flags Dequeued by IRARMERR Enqueued by IRARMERR Getmained by IRARMERR WSM last set protective processor storage target Indicates that the mpl delay for this space has been accumulated Shared page second base (oucbspss) is non-zero OUCBNNSWI bit set by SRM recovery Preemptible SRB time attributable to this address space (AssbAsst) is non-zero
329	(149)	BITSTRING 1... .... .1...	1	OUCBWL2F OUCBPSRV OUCBXDEPENCLTIMEEXISTS	Flags used by WL2, clustered in one byte to reduce pathlength in service calculations Transaction service preemptible SRB time base (ouxprss) is non-zero Dependent enclave CPU time exists that may not have been merged into the owning address space's CPU time.
330	(14A)	..11 1111 UNSIGNED	2	OUCBXDEPENLCOUNT * reserved	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	OUCBNCL	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	OUCBNQMAGEMENT	
360	(168)	BITSTRING 1... .... .1... .... .1. .... .1 ...	2	OUCBNQFLAGS OUCBENQP OUCBPROA OUCBPROE OUCBCQHASBEENCORRUPTED	Enq related info Enq status flags Increase CPU DP for enqueue promotion Enqueue promotion due to A/S EnqHold Enqueue promotion due to enclave EnqHold 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	OUCBNQCPUTIMECONSUMEDBASE	Reference value to calculate OUCBEnqCPUtimeConsumed. 1.024 milliseconds unit@WLMPEMG
372	(174)	SIGNED	4	OUCBNQCPUTIMECONSUMED	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	OUCBCONTEXTQUEUEUTAIL	address of last element in queue
384	(180)	CHARACTER	128	OUCB_CACHELINE6	6th cache line of OUCB
384	(180)	ADDRESS	4	OUCBGRLU	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	OUCBFRAAMESTOBESTOLENBYRSM	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 SRMGOOD class
432	(1B0)	UNSIGNED	2	OUCBSSCI	goal mode: Workload reporting saved service class index
434	(1B2)	UNSIGNED	2	OUCBSCRI	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

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
440	(1B8)	ADDRESS	4	OUCBETCBLAST	Last ETCB on queue
444	(1BC)	CHARACTER	8	OUCBXDETOTALCPUETIME	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.
454	(1C6)	CHARACTER	2	*	Matches spte_number in the spte pointed to by OucbSpte. 0 is not a valid index.
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 EncbloSC 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 EncbloSC 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 SCHEDEX 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	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
491	(1EB)	.... ...1		OUCBXCANCEL	indicates that sysevent CANCEL was issued
		1...		OUCBXNONCANCELABLE	The address space is non cancelable. In the PPT and/or SCHEDEX the NOCANCEL keyword is specified for the program
		.111		*	reserved
		.... 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	OUCBIRSFLAGS	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	

IRAOUCBX Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.... .1..		OUCBREALSWAPREDRIVE	Do not call in Realswap Type=Complete the RSM module IARYBLSW.
		.... .1..		OUCBTRANSWAPREDRIVE	This flag is set when a REALSWAP request has failed in RSM. The flag stays on while SRM redrives the request.
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	OUCBREALSWAPRSMFAILEDTIME	Save the time when RCT notified SRM that RSM was unable to complete a REALSWAP or TRANSWAP 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 TRANSWAP 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	OUCBXCLSFYPRIORITY	Subsystem priority used for classification purposes, in binary format. Contains hexadecimal 80000000 if the subsystem did not provide a priority.
516	(204)	UNSIGNED	4	OUCBXQUEUEUTIME	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	OUCBXSYSRERESAFTIME	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.
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	OUCBXSCHEDEXV	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	OUCBXIOCOUNTINTVBASE	Interval base for OUXBIOSC
568	(238)	UNSIGNED	4	OUCBXIODISCTIMEINTVBASE	Interval base for OUXBDISC
572	(23C)	UNSIGNED	4	OUCBXIOSQTIMEINTVBASE	Interval base for OucbxlosQtime
576	(240)	ADDRESS	4	OUCBXCRRB	Pointer to CRRB for address space
580	(244)	ADDRESS	4	OUCBXCRAS	Pointer to CRAS
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	

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
608	(260)	UNSIGNED	4	OUCBXARRIVALTIMESTCKWORD1	Amount of remote service attributed to starting the address space's current period
612	(264)	UNSIGNED	4	OUCBX_CONNTIME_BASE	Time that work unit entered MVS system - STCK format, 1st word only
616	(268)	CHARACTER	8	OUCBXSUBSYSTEMCOLLECTIONNAME	RM2 interval base for OUXBCONN
624	(270)	BITSTRING 1...	4	OUCBX_GMI_F1 OUCBX_STCR_CHSK	Subsystem collection name corresponding to IWMCLSFY SUBCOLN value. For JES2/JES3, MAS/JESplex name. Blanks for other address spaces.
		.1...		OUCBX_STCR_PHSK	Flags
		..1.		OUCBX_PA_PCS_TAR	Indicates, that storage critical housekeeping was the last who has set the central storage protective target
		...1		OUCBX_PA_PPS_TAR	Indicates, that storage critical housekeeping was the last who has set the processor storage protective target
				OUCBX_PA_PPS_TAR	Indicates, that policy adjustment was the last who has set the central storage protective target
				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 (4294967298:562218112)	base for service time calculation for special processor work
656	(290)	BITSTRING	8	OUCBX_BASE_SERVTIME_PRO_ON_CP (4294967298:562218112)	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 (4294967298:562218112)	accumulator for special processor transaction service units
688	(2B0)	BITSTRING	8	OUCBXDEPENCPROTIMEFORWM1 (4294967298:562218112)	special processor time spent for enclaves owned by this space but not yet rolled up by WM1
704	(2C0)	UNSIGNED 1...	2	OUCBXEXPRESS OUCBCRMP	express user bits CRM promotion process is active
704	(2C0)	BITSTRING	1	*	reserved for future
706	(2C2)	BITSTRING	8	OUCBX_TIME_AT_PDP	time at promotion DP
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 auxilliary 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.

IRAOUCBX Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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	OUCBEWLMFLAGS	EWLM flag bits
		1...		OUCBEWLMSARMREGED	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	OUCBXENCSUPTIMEQUAL	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_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	
				(4294967298:562230200)	Time spent for work running on special processor, in service units scaled with 2**20
912	(390)	BITSTRING	8	OUCBX_TIME_PRO_ON_CP	Time spent on CP for special processor work, in service units scaled with 2**20
928	(3A0)	BITSTRING	8	OUCBX_TIME_ON_PRO_BASE	(4294967298:562230200)
944	(3B0)	BITSTRING	8	OUCBX_TIME_PRO_ON_CP_BASE	Base for processor time calculation (STCK format)
				(4294967298:562230200)	

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
960	(3C0)	BITSTRING	8	OUCBXENCTIMEONPRO (4294967298:562230200)	Base for Processor_On_CP time calculation (STCK format)
976	(3D0)	BITSTRING	8	OUCBXDEPENCTIMEONPRO (4294967298:562230200)	Time of completed enclaves owned by this space
992	(3E0)	BITSTRING	8	OUCBXENCTIMEPROONCP (4294967298:562230200)	Time of completed dependent enclaves owned by this space
1008	(3F0)	BITSTRING	8	OUCBXDEPENCTIMEPROONCP (4294967298:562165800)	Processor_On_CP time of completed enclaves owned by this space
1024	(400)	CHARACTER	128	OUCB_CACHELINE11	
1024	(400)	BITSTRING	8	OUCBXTASKTIMEONCP	
					Processor_On_CP time of dependent enclaves owned by this space
1032	(408)	BITSTRING	8	OUCBXSRTIMEONCP	
					Time of TASK MODE on CP
1040	(410)	BITSTRING	8	OUCBCPUL	Time of SRB MODE on CP
1048	(418)	BITSTRING	8	OUCBSRBL	Accumulate scaled CPU service
1056	(420)	BITSTRING	8	OUCBXRSTORFLTIME	Accumulate scaled SRB service
					Time the last RstorFl occured
1064	(428)	BITSTRING	1	OUCBXRSTORFLTYPE	
					Rstorfl type information
			1...	OUCBXRSTORFLTYPE1	
					Type=FramesNotRestored
1065	(429)	BITSTRING	1	OUCBXRSTORFLFLAG	
			1...	OUCBXRSTORFLREDRIVE	Flags
					Wait for redrive
1066	(42A)	CHARACTER	1	OUCBXRSTORFLRSV3	
					reserved
1067	(42B)	BITSTRING	1	OUCBXNSWDPREASON	
			1...	OUCBXNSWDPREASONFIXED	Flags
					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	
1096	(448)	BITSTRING	8	OUCBMSOL	Accumulate scaled CPU service of completed enclaves owned by this space
1104	(450)	BITSTRING	8	OUCBTRSL	Accumulate scaled MSO service
1112	(458)	BITSTRING	8	OUCBWMSL	Accumulate scaled transaction service
1120	(460)	CHARACTER	16	*	Interval service Accumulator long
1136	(470)	BITSTRING	8	OUCBCPUG	reserved
1144	(478)	BITSTRING	8	OUCBSRBG	Interval CPU Service Accum long
1152	(480)	CHARACTER	128	OUCB_CACHELINE12	INTVL SRB SVCE ACCUM long
					Cache line reserved for Storage Monitoring
1152	(480)	BITSTRING	8	OUCBXSTM	STMA pointer - 64bit pointer to move the STMA above 2G commom
1152	(480)	SIGNED	4	*	Higher half
1156	(484)	ADDRESS	4	OUCBXSTM31	Pointer to STMA - Lower half
1160	(488)	SIGNED	4	OUCBXFIXEDINCVALUE	
					Fixed frame inc.
1164	(48C)	SIGNED	4	OUCBXVIRTINCVALUE	
					Virtual increase
1168	(490)	SIGNED	4	*	
1172	(494)	SIGNED	4	*	
1176	(498)	SIGNED	4	*	
1180	(49C)	SIGNED	4	*	

IRAOUCBX Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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)	CHARACTER	28	*	reserved
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
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)	CHARACTER	80	*	reserved
1408	(580)	CHARACTER	0	OUCBXEND	end of OUCBX

Offsets

Dec	Hex	Type/Value	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	OUCBXIQCUTIMEINTVBASE	CUQT samps.
20	(14)	CHARACTER	1	OUCBFLGX2	More WLM Flags
	1...	....		*	Reserved
	.1...	....		OUCBXSERVTASKSMANAGED	Flag that indicates whether the server instances for this address space are managed.
	..1.	....		*	Reserved
	...1	....		OUCBXVSADATACOLLECTED	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

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
32	(20)	UNSIGNED	4	OUCBXVSAVLABV16MB	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	OUCBXINSTVSPLIT	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 Trm 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	OUCBSERVINACTIVE	Current number of server instances between IWMSTBGN (Begin) and IWMSTEND (End)
130	(82)	CHARACTER	2	*	reserved
132	(84)	UNSIGNED	4	OUCBWAITLEFTTIMEBASESM	Base for I/O wait time, used by sampling
136	(88)	UNSIGNED	4	OUCBUSINGLEFTTIMEBASESM	Base for I/O using time, used by sampling
140	(8C)	ADDRESS	4	OUCBESMBPTR	Enclave Storage Management Block anchor or 7FFFF000.
144	(90)	ADDRESS	4	OUCBSPTE	SPTE pointer. If the address space is a server, this period cannot be found via OucbScte because it is associated with a dynamic internal service class. 7FFFF000 if no period is associated with the address space.
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	OUCBSXMX	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	

IRAOUCBX Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
188	(BC)	BITSTRING 1... .... .1. .... .1. .... ...1 1111	1	OUCBWLMF OUCBL SMP * OUCBCPUR * Reserved	Buffer pool token whose delay samples are being excluded from individual tracking WLM flags, name used in IPCS formatter Last sample complete Reserved Indicates the state sampler noted this space requesting CPU Reserved
189	(BD)	CHARACTER 1... .... .111 1111	1	OUCBSFLG OUCBXMSV OUCBRSV8 Reserved.	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 Sampling has saved this OUCB address as a target of xmem page faults. The OUCB must not be freemained while this bit is on Address space ID
190	(BE)	UNSIGNED	2	OUCBASID	Reserved. Note see comment on OUCBSFLG before using
192	(C0)	CHARACTER 1... .... .1... .... .1.	1	OUCBVALB OUCB_VALID_PB_SEEN OUCB_VALID_REPORTONLY_PB_SEEN OUCB_VALID_BPMGMT_PB_SEEN Valid PB seen bit, old field name is OUCBVAPB Valid report-only PB seen bit Valid buffer pool mgmt PB seen bit @ME21083A * Reserved @ME21083C	OUCB Valid Bits OUCB VALID_PB_SEEN OUCB VALID_REPORTONLY_PB_SEEN OUCB VALID_BPMGMT_PB_SEEN Valid buffer pool mgmt PB seen bit @ME21083A * 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	OUCBXSRMTOKEN	IWMCLSFY SRMTOKEN value
208	(D0)	ADDRESS	4	*	Reserved- was OUCBNRCT
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	OUCBTMPAFFINITYEXIST	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	OUCBEWLMTIMMESSAMPLED	Number of times this address space was sampled for EWLM
260	(104)	UNSIGNED	4	OUCBEWLMSERVTIMELO	Service time left from previous calculation 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

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
288	(120)	UNSIGNED	4	OUCBEWLMTOTIOUSING	Total DASD I/O Using samples
292	(124)	UNSIGNED	4	*	Reserved for array (4294967299:562141928)
304	(130)	CHARACTER	70	OUCBEHIS	Enclave History
304	(130)	UNSIGNED	4	OUCBEHIS_QTIME	Queue Time and
308	(134)	UNSIGNED	4	OUCBEHISETIME	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 (4294967306:562145624)	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

Comment

-- Special processor (IFA,SUP) fields used to calculate
processor usings from captured service times -----

End of Comment

384	(180)	UNSIGNED	4	OUCBX_PRO_SERVTIME_LEFTOVER (4294967298:562146936)	Time on processor that is not yet converted to usings
392	(188)	UNSIGNED	4	OUCBX_PRO_SERVTIME_BASE (4294967298:562146936)	Base value for captured service time
400	(190)	UNSIGNED	4	OUCBX_PROCP_SERVTIME_LEFTOVER (4294967298:562146936)	Time_on_cp that is not yet converted processor_on_CP usings
408	(198)	UNSIGNED	4	OUCBX_PROCP_SERVTIME_BASE (4294967298:562146936)	Base value for captured processor_on_cp time

Comment

-- Special processor (IFA,SUP) samples found when jobstep
ends -----

End of Comment

416	(1A0)	UNSIGNED	4	OUCBX_PR0U_AT_JOBEND (4294967298:562146936)	processor using samples
424	(1A8)	UNSIGNED	4	OUCBX_PROCPU_AT_JOBEND (4294967298:562146936)	processor_on_CP using samples

Comment

-- Blocked workloads (trickle) support -----

End of Comment

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

IRAOUCBX Map

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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
Comment					
<hr/>					
----- -- HD lock time at promotion DP ----- -----					
End of Comment					
452	(1C4)	UNSIGNED	4	OUCBX_HDLOCK_AT_PDP_SERVTIME_LEFTOVER	HD lock time at promotion DP not yet converted to usings
456	(1C8)	UNSIGNED	4	OUCBX_HDLOCK_AT_PDP_SERVTIME_BASE	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
Comment					
<hr/>					
----- -- Time promoted to a variable dispatch priority by supervisor -----					
End of Comment					
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	OUCBCUQTLLEFTOVER	CUQT sampling
504	(1F8)	UNSIGNED	4	OUCBCUQTTIMEBASESM	CUQT sampling
508	(1FC)	UNSIGNED	4	OUCBCUQTLLEFTOVERSM	CUQT sampling
Comment					
<hr/>					
----- -- New cacheline for future extensions in Oucbs -----					
<hr/>					
End of Comment					
512	(200)	CHARACTER	128	OUCBS_CACHELINES	
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	

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
536	(218)	UNSIGNED	4	OUCBTHROLEFTOVERSM	LO for sampl
540	(21C)	UNSIGNED	4	OUCBXIOCNTDTIMEINTVBASE	Interval Bas
544	(220)	UNSIGNED	4	OUCBXIEIOCNTDTIME	Independent
548	(224)	UNSIGNED	4	OUCBXDEIOCNTDTIME	Dependent En
552	(228)	UNSIGNED	4	OUCBCNTDTIMEBASE	Time Base
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	

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	128	OUCBSAMPLES	
0	(0)	CHARACTER	128	OUCBSAMPLES_CACHELINE1	
0	(0)	CHARACTER	124	OUCBSOS	cache line of OUCB,
0	(0)	UNSIGNED	4	OUCBIS	set of state samples. Note new delays must be added before oucbxmo
4	(4)	UNSIGNED	4	OUCBOUS	idle state
8	(8)	UNSIGNED	4	OUCBCU	other unknown state
12	(C)	UNSIGNED	4	OUCBDASDIOUSING	cpu using
16	(10)	UNSIGNED	4	OUCBIFAU	DASD I/O using samples
20	(14)	UNSIGNED	4	OUCBSUPU	IFA using count
24	(18)	UNSIGNED	4	OUCBCD	SUP using count
28	(1C)	UNSIGNED	4	OUCBAPPD	cpu delay
32	(20)	UNSIGNED	4	OUCBAPCD	primary private area paging delay from aux
36	(24)	UNSIGNED	4	OUCBAVD	common area paging delay from aux
40	(28)	UNSIGNED	4	OUCBASHD	vio delay from aux
44	(2C)	UNSIGNED	4	OUCBACHD	scroll hyperspace delay from aux
48	(30)	UNSIGNED	4	OUCBASWD	cache hyperspace delay from aux
52	(34)	UNSIGNED	4	OUCBMD	Aux swap delay
56	(38)	UNSIGNED	4	OUCBCCD	mpl delay
60	(3C)	UNSIGNED	4	OUCBASPD	Address space delayed because it is in a resource group being capped
64	(40)	UNSIGNED	4	OUCBDASDIODELAY	Shared area paging delay from aux
68	(44)	UNSIGNED	4	OUCBWLMQUEUEDELAY	DASD I/O delay samples
72	(48)	UNSIGNED	4	OUCBENCLAVEPVTPAGING	Delay samples experienced while on WLM-managed work queue
76	(4C)	UNSIGNED	4	OUCBENCLAVEVIOPAGING	Aux private paging delay samples experienced by enclave work units known to be associated with an address space
80	(50)	UNSIGNED	4	OUCBENCLAVEHSPPAGING	Aux VIO paging delay samples experienced by enclave work units known to be associated with an address space
84	(54)	UNSIGNED	4	OUCBENCLAVEEMPLDELAY	Aux hyperspace paging delay samples experienced by enclave work units known to be associated with an address space
88	(58)	UNSIGNED	4	OUCBENCLAVESWAPDELAY	MPL delay samples experienced by enclaves known to be associated with an address space
92	(5C)	UNSIGNED	4	OUCBIFADL	Swap-in delay samples experienced by enclaves known to be associated with an address space
96	(60)	UNSIGNED	4	OUCBSUPDL	IFA delay count

Comment

----- Add new non-xmem-type delays before OucbPxmo ---

End of Comment

100	(64)	UNSIGNED	4	OUCBPXMO	cross memory other address space paging delay from aux.
104	(68)	UNSIGNED	4	OUCBUFFERPOOLOTHERDELAY	

IRAOUCBX Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
108	(6C)	UNSIGNED	4	OUCBPXM1	Buffer pool delay samples not due to the buffer pools that are being individually tracked
112	(70)	UNSIGNED	4	OUCBPXM2	cross memory address space 1 paging delay from aux
116	(74)	UNSIGNED	4	OUCBBUFFERPOOL1DELAY	cross memory address space 2 paging delay from aux
120	(78)	UNSIGNED	4	OUCBBUFFERPOOL2DELAY	Buffer pool delay samples due to the buffer pool identified by OucbBufferPoolToken1
124	(7C)	CHARACTER	4	OUCBSOS_NAME	Buffer pool delay samples due to the buffer pool identified by OucbBufferPoolToken2 eyecatcher 'SOS'
Offsets					
Dec	Hex	Type/Value	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	
16	(10)	UNSIGNED	4	OUCBDASDIODISC	Non-DASD I/O delay+using samples
20	(14)	UNSIGNED	4	OUCBCAMU	DASD I/O disconnect samples. These should actually be reported in OUCBSamples, but there's no more place
24	(18)	UNSIGNED	4	OUCBCAMD	Asynchronous CAM using samples
28	(1C)	UNSIGNED	4	OUCBAPU	Asynchronous CAM delay samples
32	(20)	UNSIGNED	4	OUCBAPD	Asynchronous AP using samples
36	(24)	UNSIGNED	4	OUCBFQD	Asynchronous AP delay samples
40	(28)	CHARACTER	16	*	Feature queue delay samples
56	(38)	UNSIGNED	4	OUCBDASDIOPEND	Reserved for future crypto hardware
60	(3C)	UNSIGNED	4	OUCBDASDIOTHRO	DASD I/O pending samples
64	(40)	UNSIGNED	4	OUCBDASDIOCNTD	DASD I/O induced throttle samples.
68	(44)	UNSIGNED	4	OUCBDASDIOCUQT	DASD I/O Contention Delta samples.
72	(48)	UNSIGNED	4	OUCBRCSD	DASD I/O control unit queue samples.
76	(4C)	UNSIGNED	4	OUCBRCSU	Contention delay sample count of work waiting for resources as reported to WLM on the IWMCNTN interface by the resource manager
80	(50)	UNSIGNED	4	OUCBIFACU	Contention delay sample count of work holding resources as reported to WLM on the IWMCNTN interface by the resource manager
84	(54)	UNSIGNED	4	OUCBSUPCU	using count of IFA work running on regular CPs
88	(58)	UNSIGNED	4	OUCB_NORMAL_COMPLETIONS_PA	using count of SUP work running on regular CPs
92	(5C)	UNSIGNED	4	OUCB_ABNORMAL_COMPLETIONS_PA	Normal Completions last PA Interval if reported by IWMRPT
96	(60)	UNSIGNED	2	OUCB_ABNORMAL_COMP_RATE_LTA	Abnormal Completions last PA Interval if reported by IWMRPT
98	(62)	UNSIGNED	1	OUCB_ABNORMCOUNT_SKIPCLOCK_1	Abnormal Completions Rate, long term average
99	(63)	UNSIGNED	1	OUCB_ABNORMCOUNT_SKIPCLOCK_2	Skipclock counter for high abnormal rate level 1
100	(64)	CHARACTER	24	*	Skipclock counter for high abnormal rate level 2
124	(7C)	CHARACTER	4	OUCBRSOS_NAME	unused
					eyecatcher 'RSOS'
Offsets					
Dec	Hex	Type/Value	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	

IRAOUCBX Constants

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	

Comment

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). @WLMPESM

End of Comment

4	DECIMAL	0	OUCBXLESSTHANEQUALOUCBX1
4	DECIMAL	0	OUCBX1LESSTHANEQUALOUCBX

IRAOUCBX Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
OUCB_ABNORMAL_COMP_RATE_LTA			OUCBAPRQ		0
	60		OUCBAPU		1C
OUCB_ABNORMAL_COMPLETIONS_PA			OUCBASHD		28
	5C		OUCBASID		BE
OUCB_ABNORMCOUNT_SKIPCLOCK_1			OUCBASMP		8
	62		OUCBASPD		3C
OUCB_ABNORMCOUNT_SKIPCLOCK_2			OUCBASST		1A0
	63		OUCBASWD		30
OUCB_BPAH		188	OUCBAUXB		3C
OUCB_CACHELINE10		380	OUCBAVD		24
	380		OUCBAXPU		D0
OUCB_CACHELINE11		400	OUCBBKIA		58
	400		OUCBBKIE		5C
OUCB_CACHELINE12		480	OUCBBPIN		4C
	480		OUCBBPNE		50
OUCB_CACHELINE13		500	OUCBBUFFERPOOLOTHERDELAY		
	500				68
OUCB_CACHELINE3		0	OUCBBUFFERPOOLTOKENEXCLUDE		
	0				B4
OUCB_CACHELINE4		80	OUCBBUFFERPOOLTOKEN1		
	80				A4
OUCB_CACHELINE5		100	OUCBBUFFERPOOLTOKEN2		
	100				AC
OUCB_CACHELINE6		180	OUCBBUFFERPOOL1DELAY		
	180				74
OUCB_CACHELINE7		200	OUCBBUFFERPOOL2DELAY		
	200				78
OUCB_CACHELINE8		280	OUCBCAMD		18
	280		OUCBCAMU		14
OUCB_CACHELINE9		300	OUCBCAP		4
	300		OUCBCAPB		248
OUCB_NORMAL_COMPLETIONS_PA		58	OUCBCCD		38
	58		OUCBCD		18
OUCB_RAW_SERVICE_ACCUM		184	OUCBCFCT		2C
	184		OUCBCNTDLEFTOVER		
OUCB_VALID_BPMGMT_PB_SEEN		C0			22C
	C0	20	OUCBCNTDLEFTOVERSM		
OUCB_VALID_PB_SEEN		C0			234
	C0	80	OUCBCNTDTIMEBASE		
OUCB_VALID_REPORTONLY_PB_SEEN		C0			228
	C0	40	OUCBCNTDTIMEBASESM		
OUCBACFL		131			230
OUCBACHD		2C	OUCBCONTEXTQUEUE		
OUCBAPCD		20			178
OUCBAPD		20	OUCBCONTEXTQUEUEHEAD		
OUCBAPDS		E0			178
OUCBAPPD		1C	OUCBCONTEXTQUEUETAIL		

IRAOUCBX Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
OUCBCONTIMEBASE	17C		OUCBEHIS_HI	139	
OUCBCONTIMEBASESM	4C		OUCBEHIS_LOW	138	
OUCBCONTIMEBASESM	58		OUCBEHIS_LTA	13E	
OUCBCPUG	470		OUCBEHIS_QTIME		
OUCBCPUL	410		OUCBEHIS_SC	13A	
OUCBCPUR	BC	20	OUCBEJST	8	
OUCBCPUS	130		OUCBENCH	14C	
OUCBCQHASBEENCORRUPTED	168	10	OUCBENCL	150	
OUCBCRM	FC		OUCBENCLAVEHSPPAGING	50	
OUCBCRMB	12C		OUCBENCLAVEMPLDELAY	54	
OUCBCRMCPUTIME	430		OUCBENCLAVEPVTPAGING	48	
OUCBCRMCPUTIMECONSUMED	434		OUCBENCLAVESWAPDELAY	58	
OUCBCRMCPUTIMECONSUMEDBASE	430		OUCBENCLAVEVIOPAGING	4C	
OUCBCRMCPUTIMECONSUMEDI	43C		OUCBENQCPUTIMECONSUMED	174	
OUCBCRMDP	FD		OUCBENQCPUTIMECONSUMEDBASE	170	
OUCBCRMFLAGS	FC		OUCBENQCPUTIMECONSUMEDI	1F0	
OUCBCRMI	FC	20	OUCBENQFLAGS	168	
OUCBCRMP	2C0	80	OUCBENQMANAGEMENT	168	
OUCBCRMPROA	FC	80	OUCBENQP	168	80
OUCBCRMPROE	FC	40	OUCBESB1	C0	
OUCBCRMPROPAGATEDCOUNT	FE		OUCBESB2	C4	
OUCBCRMR	FC	10	OUCBESB3	C8	
OUCBCSUM	28		OUCBESB4	CC	
OUCBCU	8		OUCBESH	B1	
OUCBCUQTLEFTOVER	1F4		OUCBESMBPTR	8C	
OUCBCUQTLEFTOVERSM	1FC		OUCBESTP	B2	
OUCBCUQTTIMEBASE	1F0		OUCBESVP	B0	
OUCBCUQTTIMEBASESM	1F8		OUCBETCBFIRST		
OUCBDASDIOCNTD	40		OUCBETCBLAST	1B4	
OUCBDASDIOCQT	44		OUCBETCBQ	1B4	
OUCBDASDIODELAY	40		OUCBETIM	154	
OUCBDASDIODISC	10		OUCBETRC	164	
OUCBDASDIOOPEND	38		OUCBEUB1	138	
OUCBDASDIOOTHRO	3C		OUCBEUB2	13C	
OUCBDASDIOUSING	C		OUCBEUB3	140	
OUCBDFRR	148	80	OUCBEUB4	144	
OUCBDISCLEFTOVER	30		OUCBEWLARMNOTACTIVE		
OUCBDISCLEFTOVERSM	3C		320	20	
OUCBDISCTIMEBASE	34		OUCBEWLMASRM	32C	
OUCBDISCTIMEBASESM	40		OUCBEWLMDATA	300	
OUCBECPL	440		OUCBEWLMECONNYES	320	10
OUCBECPT	15C		OUCBEWLFLAGS		
OUCBECPU	158		320		
OUCBEFRR	148	40	OUCBEWLMISSARMREGED	320	
OUCBEFS	D8		320	80	
OUCBEHIS	130		OUCBEWLMISSWLMAGENT	320	
OUCBEHIS_A	13C		320	40	
OUCBEHIS_ENTRY	13A		OUCBEWLMPID	310	
OUCBEHISETIME	134		OUCBEWLRESERVED		
			334		
			OUCBEWLMSERVTIMELO		
			104		
			OUCBEWLMSRBTIME		
			308		
			OUCBEWLMTASKRM		
			324		
			OUCBEWLMTCBTIME		
			300		
			OUCBEWLMTMESSAMPLED		
			100		
			OUCBEWLMTOTCPUDELAY		
			10C		

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
OUCBEWLMTOTCPUUSING			OUCBNQT_SHORTTIME		
108			2E4		
OUCBEWLMTOTIDLE			OUCBNSPPT		C8
118			OUCBOUS		4
OUCBEWLMTOTIODELAY			OUCBOUTT		1C
114			OUCBPGIB		44
OUCBEWLMTOTIOUSING			OUCBPGTB		38
120			OUCBPINB		10C
OUCBEWLMTOTOTHER			OUCBPINE		54
11C			OUCBPINT		110
OUCBEWLMTOPAGEDELA			OUCBPLAB		D4
110			OUCBPQID		109
OUCBEWLMTOTSAMPLES			OUCBPROA	168	40
108			OUCBPROE	168	20
OUCBEWLMWASDISABLED			OUCBPROPAGATEDENQHOLDCOUNT		
320	08		132		
OUCBEXIB	124		OUCBPSO		10
OUCBEXOB	128		OUCBPSRB	148	01
OUCBFDISTIMEBASE			OUCBPSRV	149	80
38			OUCBPU2B		48
OUCBFDISTIMEBASESM			OUCBPXMO		64
44			OUCBPXM1		6C
OUCBFX	20		OUCBPXM2		70
OUCBFLGX	131		OUCBQID		108
OUCBFLGX2	14		OUCBRCSD		48
OUCBFMNOBASE	48		OUCBRCSU		4C
OUCBFMNOBASESM			OUCBREALSEWAPINRSM		
54			1F4	40	
OUCBFQD	24		OUCBREALSEWAPREDRIVE		
OUCBFRAMESTOBESTOLENBYRSM			1F4	04	
18C			OUCBREALSEWAPRSMFAILEDTIME		
OUCBFWAITTIMEBASE			1FC		
50			OUCBREPTSAMPLES		0
OUCBFWAITTIMEBASESM			OUCBREPTSAMPLES_CACHELINE1		0
5C			OUCBREPTSAMPLESPTR		
OUCBGENERICIRS			78		
1F4	80		OUCBRESB		40
OUCBGFRR	148	20	OUCBRQCT		0
OUCBGRLU	180		OUCBRSNS	148	02
OUCBHEALTHIND			OUCBRSOS		0
176			OUCBRSOS_NAME		
OUCBHOLD	18		7C		
OUCBHSUM	24		OUCBRSTB		4
OUCBIATK	100		OUCBRSV8		BD
OUCBIFACU	50		OUCBS		7F
OUCBIFADL	5C		OUCBS_CACHELINE1		0
OUCBIFAU	10		0		
OUCBIQFL	10A		OUCBS_CACHELINE2		80
OUCBIRSFLAGS	1F4		80		
OUCBIRST	1F8		OUCBS_CACHELINE3		100
OUCBIS	0		100		
OUCBJAFB	0		OUCBS_CACHELINE4		180
OUCBJAFB_DEPENC			180		
80			OUCBS_CACHELINE5		200
OUCBJAFB_ENCLAVE			200		
0			OUCBSAMPLES		0
OUCBJAFB_END	100		OUCBSAMPLES_CACHELINE1		0
OUCBLPSS	520		OUCBSAMPLESPTR		
OUCBLRPS	104		74		
OUCBLRST	528		OUCBSCLS		1B0
OUCBL SMP	BC	80	OUCBSCPI		1C4
OUCBMD	34		OUCBSCTE		D4
OUCBMDAC	148	08	OUCBSDAC		DC
OUCBMDEL	B4		OUCBSEEC		64
OUCBMSOL	448		OUCBSEND		280
OUCBMTRM	66		OUCBSERVINSTACTIVE		
OUCBNONDASDIO			80		
C			OUCBSERVINSTACTIVERGNWORK		
OUCBNQC	16A		E8		
OUCBNQC_SHORTTIME			OUCBSERVINSTCAPACITY		94
2E2					
OUCBNQC_STANDARD					
2E0					
OUCBNQT	16C				

IRAOUCBX Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
OUCBSFEC	62		OUCBWAITTIMEBASESM		
OUCBSFLG	BD		84		
OUCBSHBP	94		OUCBCWCFO	C4	
OUCBSHEADER	0		OUCBWKTM	30	
OUCBSLEN	C		OUCBWL MF	A4	
OUCBSMSK	10B		OUCBWL MF	BC	
OUCBSNAME	0		OUCBWL MQUEUEDELAY	44	
OUCBSONA	B3		OUCBWLM2	148	
OUCBSOS	0		OUCBWL2F	149	
OUCBSOS_NAME	7C		OUCBWMSL	458	
OUCBSPSS	190		OUCBWORKQTOKEN		
OUCBSPTE	90		98		
OUCBSPTR	70		OUCBWSMT	148	10
OUCBSQBP	6C		OUCBWSS	14	
OUCBSQFP	68		OUCBWTKN	C4	
OUCBSRBG	478		OUCBX	0	
OUCBSRBL	418		OUCBX_AT_PDP_DELTA_TIME		
OUCBSRCI	1B2		1C0		
OUCBSRRC	34		OUCBX_AT_PDP_SERVTIME_BASE		
OUCBSRST	1A8		1B4		
OUCBSSCI	1B0		OUCBX_AT_PDP_SERVTIME_LEFTOVER		
OUCBSSPS	148	04	1B0		
OUCBSUPCU	54		OUCBX_BA_AS_IFA_TIME_BASE		
OUCBSUPDL	60		348		
OUCBSUPU	14		OUCBX_BA_AS_IOC_TIME_BASE		
OUCBSVER	8		360		
OUCBSWCB	2E		OUCBX_BA_AS_SOC_TIME_BASE		
OUCBSWFC	60		370		
OUCBSWPC	10		OUCBX_BA_AS_SUP_TIME_BASE		
OUCBSWSA	B8		368		
OUCBSWSC	BC		OUCBX_BA_AS_TTIME_BASE		
OUCBSXMX	A0		340		
OUCBSXM1	98		OUCBX_BASE_SERVTIME_ON_PRO		
OUCBSXM2	9C		280		
OUCBTAXB	114		OUCBX_BASE_SERVTIME_PRO_ON_CP		
OUCBTMFAFFINITYEXIST	E4		290		
OUCBTROLEFTOVER	210		OUCBX_CONNTIME_BASE		
OUCBTROLEFTOVERSM	218		264		
OUCBTROTIMEBASE	20C		OUCBX_CPSRP_CUR_FP_SAMP		
OUCBTROTIMEBASESM	214		F2		
OUCBTMC	F4		OUCBX_CPSRP_PREV_FP_SAMP		
OUCBTMCT	E8		F4		
OUCBTMF	134		OUCBX_CPSRP_SAMP		
OUCBTMPS	E4		F0		
OUCBTMRD	F0		OUCBX_CPU_SERVTIME_BASE		
OUCBTMSD	EC		E0		
OUCBTTRANSWAPINRSM	1F4	20	OUCBX_CPUU_AT_JOBEND		
OUCBTTRANSWAPREDRIVE	1F4	02	EC		
OUCBTRSL	450		OUCBX_GMI_F1	270	
OUCBUSINGLEFTOVER	74		OUCBX_HDLOCK_AT_PDP_DELTA_TIME		
OUCBUSINGLEFTOVERSM	6C		1D4		
OUCBUSINGTIMEBASE	A0		OUCBX_HDLOCK_AT_PDP_SERVTIME_BASE		
OUCBUSINGTIMEBASESM	88		1C8		
OUCBVALB	C0		OUCBX_HDLOCK_AT_PDP_SERVTIME_LEFTOVER		
OUCBVHDB	118		1C4		
OUCBVHPB	11C		OUCBX_HDLOCK_TIME_AT_PDP_BASE		
OUCBVHUB	120		4C8		
OUCBWAITLEFTOVER	78		OUCBX_HDLOCK_TIME_AT_PDP_LEFTOVER		
OUCBWAITLEFTOVERSM	70		4D0		
OUCBWAITTIMEBASE	9C		OUCBX_HDLOCK_TIME_AT_PDP_USING		
			1CC		
			OUCBX_HDLOCK_TIME_AT_PDP_USING_JOBEND		
			1D0		
			OUCBX_HDLOCKPROMOTION_TIME_AT_PDP		
			4C0		
			OUCBX_IFACP_TIME		
			4A0		
			OUCBX_PA_PCS_TAR		
			4B0		
			270	20	
			OUCBX_PA_PPS_TAR		
			270	10	

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
OUCBX_PCS_CHANGETIME			OUCBX_VARWEIGHTED_TIME_AT_PDP_BASE		
278			518		
OUCBX_PPS_CHANGETIME			OUCBXARRIVALTIMESTCKWORD1		
274			260		
OUCBX_PRO_SERVTIME_BASE			OUCBXCANCEL	1EA	01
188			OUCBXCLSFY_PRIORITY		
OUCBX_PRO_SERVTIME_LEFTOVER			200		
180			OUCBXCRAS	244	
OUCBX_PROCP_SERVTIME_BASE			OUCBXCRRB	240	
198			OUCBXDAT	D8	
OUCBX_PROCP_SERVTIME_LEFTOVER			OUCBXDECPUTIMEFORWM1		
190			88		
OUCBX_PROCPU_AT_JOBEND			OUCBXDECRMCPUTIMECONSUMED		
1A8			438		
OUCBX_PROMOTIONADJF			OUCBXDEENQCPUTIMECONSUMED		
4DC			1EC		
OUCBX_PROMOTIONBASE			OUCBXDEIOCNTDTIME		
4D4			224		
OUCBX_PROMOTIONTIMEACCUM			OUCBXDEIOCONNECTTIME		
4D8			1D8		
OUCBX_PRDU_AT_JOBEND			OUCBXDEIOCQTTIME		
1A0			FC		
OUCBX_QSCEST_TIME			OUCBXDEIODISCONNECTTIME		
27C			1DC		
OUCBX_RSTORCMP_TIME			OUCBXDEIOTHROTIME		
19C			208		
OUCBX_SERVTIME_LEFTOVER			OUCBXDEIOWAITTIME		
DC			1E0		
OUCBX_STCR_CHSK			OUCBXDEPENCLCOUNT		
270	80		14A		
OUCBX_STCR_PHSK			OUCBXDEPENCLTIMEEXISTS		
270	40		149	40	
OUCBX_SUP_TIME			OUCBXDEPENCPUTIMEFORWM1		
4A8			2B0		
OUCBX_SUPCP_TIME			OUCBXDEPENCSUPTIMEQUAL		
4B8			358		
OUCBX_TIME_AT_PDP			OUCBXDEPENTIMEONPRO		
2C2			3D0		
OUCBX_TIME_AT_PDP_BASE			OUCBXDEPENTIMEPROONCP		
2CA			3F0		
OUCBX_TIME_AT_PDP_LEFTOVER			OUCBXDESSCHCOUNT		
2D4			1E4		
OUCBX_TIME_AT_PDP_USING			OUCBXDETOTALCPUTIME		
1B8			1BC		
OUCBX_TIME_AT_PDP_USING_JOBEND			OUCBXENCSSCHCOUNT		
1BC			A8		
OUCBX_TIME_ON_PRO			OUCBXENCSUPTIMEQUAL		
380			350		
OUCBX_TIME_ON_PRO_BASE			OUCBXENCTIMEONPRO		
3A0			3C0		
OUCBX_TIME_PRO_ON_CP			OUCBXENCTIMEPROONCP		
390			3E0		
OUCBX_TIME_PRO_ON_CP_BASE			OUCBXEND		
3B0			580		
OUCBX_TIMEOFLASTSAMPLESGATHERING			OUCBXENDPERIOD		
4E0			14	08	
OUCBX_VARTIME_AT_PDP			OUCBXEQUBATCHQDELAY		
500			224		
OUCBX_VARTIME_AT_PDP_BASE			OUCBXEXPRESS	2C0	
508			OUCBXFIX_B2G	AC	
OUCBX_VARTIME_AT_PDP_DELTA_TIME			OUCBXFIXEDINCVALUE		
1E0			488		
OUCBX_VARTIME_AT_PDP_SERVTIME_BASE			OUCBXFLAGS	1EA	
1DC			OUCBXFXSALL	2F1	02
OUCBX_VARTIME_AT_PDP_SERVTIME_LEFTOVER			OUCBXFXS BELOW16M		
1D8			2F1	04	
OUCBX_VARTIME_AT_PDP_USING_JOBEND			OUCBXFXSBETWEEN16M2G		
1E4			2F1	08	
OUCBX_VARWEIGHTED_AT_PDP_DELTA_TIME			OUCBXFXSDREF	2F1	01
1EC			OUCBXFXSREASON		
OUCBX_VARWEIGHTED_AT_PDP_SERVTIME_BASE			2F1		
1E8			OUCBXFXSRV4	2F1	F0
OUCBX_VARWEIGHTED_TIME_AT_PDP			OUCBXHASREMOTESYSTEMDATA		
510			1EA	04	
			OUCBXIEIOCNTDTIME		

IRAOUCBX Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
OUCBXIEIOCONNECTTIME	220		OUCBXOUCBSRCSAVE	1F5	
OUCBXIEIQCUTIME	1C8		OUCBXPERFORMVALUE	1E8	
OUCBXIEIQCUTIME	F8		OUCBXPERIODSTARTREMOTESERVICE	25C	
OUCBXIEIDISCONNECTTIME	1CC		OUCBXPROTRXSERVICEUNITS	2A8	
OUCBXIEIOTHROTIME	204		OUCBXQUEUETIME	204	
OUCBXIEIOWAITTIME	1D0		OUCBXRAXSWAPREASON	1F7	
OUCBXIESSCHCOUNT	1D4		OUCBXREGISTRATIONCOUNT	F8	
OUCBXIGNORETRXNSSPECIFIED	131	02	OUCBXREMOTESERVICE	250	
OUCBXINELIGIBLETIME	210		OUCBXREMOTESYSTEMDATAINCOMPLETE	1EA	02
OUCBXINSTLLPLOT	2C		OUCBXREMOTESYSTEMDATAPTR	254	
OUCBXINSTVS PLOT	28		OUCBXRESETAFTERINITIATION	1EA	40
OUCBXIOCNTDTIMEINTVBASE	21C		OUCBXRESETBEFOREINITIATION	1EA	80
OUCBXIOTIMEINTVBASE	230		OUCBXRESTARTTRANATSWAPIN	A4	04
OUCBXIOCOUNTINTVBASE	234		OUCBXRSTORFLFLAG	429	
OUCBXIQCUTIMEINTVBASE	10		OUCBXRSTORFLREDRIVE	429	80
OUCBXIODISCTIMEINTVBASE	238		OUCBXRSTORFLRSV3	42A	
OUCBXIOFCONTIMEINTVBASE	7C		OUCBXRSTORFLRSV4	42C	
OUCBXIOFDISTIMEINTVBASE	68		OUCBXRSTORFLTIME	420	
OUCBXIOFMNOINTVBASE	60		OUCBXRSTORFLTYPE	428	
OUCBXIOFWAITTIMEINTVBASE	64		OUCBXRSTORFLTYPE1	428	80
OUCBXIOSQTIME	18		OUCBXSCHEDENV	214	
OUCBXIOSQTIMEINTVBASE	23C		OUCBXSERVINSTINITIAL	92	
OUCBXIOTHROTIMEINTVBASE	200		OUCBXSERVINSTLIMIT	90	
OUCBXIOWAITTIMEINTVBASE	22C		OUCBXSERVTASKSMANAGED	14	40
OUCBXJAFBADDR	198		OUCBXSMF30EXPPAGERESIDENCYTIME	80	
OUCBXJCLCONVERSIONTIME	208		OUCBXSPECIALFULLPREEMPT	A4	80
OUCBXJOBREINCARNATED	1EA	10	OUCBXSPECIALFULLPREEMPTTIME	7C	
OUCBLATCHCOUNT	258		OUCBXSRBTIMEONCP	408	
OUCBXLLOCKUTIL	24		OUCBXSRTOKEN	CC	
OUCBXMF T	A4	40	OUCBXSTEPSTARTTIME	2F8	
OUCBXMSV	BD	80	OUCBXSTGCRIT_SPECIFIED_EXPLICIT	131	04
OUCBXNOIARYBLSWCALL	1F4	08	OUCBXSTGPROTNOW	131	08
OUCBXNONCANCELABLE	1EB	80	OUCBXSTM A	480	
OUCBXNOPR	A4	20	OUCBXSTM A31	484	
OUCBXNSWDPREASON	42B		OUCBXSUBSYSTEMCOLLECTIONNAME	268	
OUCBXNSWDPREASONAUX	42B	40	OUCBXSYSORRESAFFTIME	20C	
OUCBXNSWDPREASONFIXED	42B	80	OUCBXSYST	1EA	08
OUCBXOLDPREEMPTION	A4	01	OUCBXTASKTIMEONCP	400	
OUCBXOPERATORFORCEDINITIATION	1EA	20	OUCBXTOTALSERVICEBASE		

Name	Hex Offset	Hex Value
OUCBXTRXMGMTBOTHSPECIFIED	228	
OUCBXVIRTINCVALUE	131	01
OUCBXVSAVLABV16MB	48C	
OUCBXVSAVLBEL16MB	20	
OUCBXVSADATACOLLECTED	1C	
OUCBXWASHIDP	14	10
OUCBXWASPRIV	A4	08
OUCBX03FLAGS	A4	02
OUCBX203RATE	2F0	
OUCBX203REQUIRED	2EC	
OUCBX203TOTFRAMESLOTS	2F0	40
OUCBX403REQUIRED	2E8	
OUCBX403TOTFIXED	2F0	80
OUCBX403TOTFRAMES	2EC	
	2E8	

IRAQVS Information

IRAQVS Programming Interface information

Programming Interface information

IRAQVS

End of Programming Interface information

IRAQVS Heading Information • IRAQVS Map

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:
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 Map

Offsets					
Dec	Hex	Type/Value	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....		QVSVMVALID	"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
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 EBDCIC. 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	QVSCECAPACITY	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	QVSVMCAPACITY	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

Comment

IRAQVS.228: Version 1

End of Comment

96 (60) X'1'

0 QVSVER1

"1"

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
					Comment
					IRAQVS.370: Version 2 (includes QvsCecCapacityStatus)
96	(60)	X'2'	0	QVSVER2	End of Comment "2"
					Comment
					IRAQVS.246: Service completed successfully
96	(60)	X'0'	0	QVSRCCOK	End of Comment "0"
					Comment
					IRAQVS.234: Parameter list is too small to contain version 1 data
96	(60)	X'4'	0	QVSRCTOOSMALL	End of Comment "4"
					Comment
					IRAQVS.292: QvsCecCapacityStatus is undefined (not supported by hardware)
96	(60)	X'0'	0	QVSCECCAPSTATUNDEF	End of Comment "0"
					Comment
					IRAQVS.304: Machine is running at nominal capacity
96	(60)	X'1'	0	QVSCECCAPSTATNOMINAL	End of Comment "1"
					Comment
					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	End of Comment "2"
					Comment
					IRAQVS.340: Machine is running with reduced capacity due to a machine exception condition (e.g. cooling problem)
96	(60)	X'3'	0	QVSCECCAPSTATREDMACHEX	End of Comment "3"
					Comment
					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	End of Comment "4"

IRAQVS Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
					Comment
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	End of Comment
96	(60)	X'60'	0	QVS_LEN	"*-QVS"
IRAQVS Cross Reference					
Name	Hex Offset	Hex Value			
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				
QVSLEN	0				
QVSOUT	4				
QVSRCKOOSMALL	60	0			
QVSRCTOOSMALL	60	4			
QVSVER	4				
QVSVER1	60	1			
QVSVER2	60	2			
QVSVMCAPACITY	5C				
QVSVMNAME	54				
QVSVMVALID	5	20			

IRARASC Information

IRARASC Programming Interface information

Programming Interface information

IRARASC

End of Programming Interface information

IRARASC Heading Information • IRARASC Map

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 Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	RASC	
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	RASCTRNX	Transaction program name
16	(10)	CHARACTER	8	RASCUSER	Userid
24	(18)	CHARACTER	8	RASCTRXC	Transaction class
32	(20)	CHARACTER	4	RASCSUBT	Subsystem Type
36	(24)	CHARACTER	8	RASCSUBN	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	RASCPERF	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	RASCPRI0	Subsystem priority in binary format. Contains hexadecimal 80000000 if the subsystem did not provide a priority.
200	(C8)	CHARACTER	4	RASCRSV1	Reserved for future use
204	(CC)	CHARACTER	1	RASC_END_VERSION2 (0)	

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
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	RASCRTK	IWMCLSY SRMOKEN 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"

IRARASC Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
RASC	0		RASC_VERSION3_LEN	E8	CC
RASC_ACCT_AREA	2C		RASC_VERSION4	E8	4
RASC_ACRO	0		RASC_VERSION4_DATA	CC	
RASC_CURRENTVERSION	E8	4	RASC_VERSION4_LEN	E8	E8
RASC_CURRENTVERSION_LEN	E8	E8	RASCACCL	2C	
RASC_END_VERSION1	BC		RASCACCT	2D	
RASC_END_VERSION2	CC		RASCPERF	BC	
RASC_END_VERSION3	CC		RASCPRIO	C4	
RASC_END_VERSION4	E8		RASCRSV1	C8	
RASC_ID_CONSTANT	E8	C1E2C3	RASCSENV	CC	
RASC_INPUTS	0		RASCRTK	E4	
RASC_LEN	E8	E8	RASCSSCL	DC	
RASC_LENGTH	6		RASCSUBN	24	
RASC_OUTPUTS	8		RASCSUBT	20	
RASC_VERSION	4		RASCTRXC	18	
RASC_VERSION1	E8	1	RASCTRZN	8	
RASC_VERSION1_LEN	E8	BC	RASCUSER	10	
RASC_VERSION2	E8	2			
RASC_VERSION2_LEN	E8	CC			
RASC_VERSION3	E8	3			
RASC_VERSION3_DATA	C4				

IRARASD Information

IRARASD Programming Interface information

Programming Interface information

IRARASD

End of Programming Interface information

IRARASD Heading Information • IRARASD Map

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 Map

Offsets

Dec	Hex	Type/Value	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	RASDLEN	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

Offsets

Dec	Hex	Type/Value	Len	Name (Dim)	Description
45	(2D)	CHARACTER	3	RASDRSV3	IRARASD.139: Reserved
48	(30)	CHARACTER	4	RASDSCTK	IRARASD.409: Service class token
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
	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			RASDTRXNMGMTEXEMPT	"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..			RASDSTGPOTECTED	"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
	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 RasdCIOPriorGroup) or to transaction service classes served by the space
104	(68)	BITSTRING	4	RASDSRMTOKEN	IRARASD.552: IWMCLSY 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 Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
128	(80)	BITSTRING	8	RASDENCTIMEIFAONCP	IRARASD.621: Cumulative IFA time for all completed dependent enclaves owned by the address space (STCK format)
136	(88)	BITSTRING	8	RASDDEPENCTIMEIFAONCP	IRARASD.627: Cumulative IFA_on_CP time for all completed independent enclaves owned by the address space (STCK format)
144	(90)	CHARACTER	1	RASDEND5 (0)	IRARASD.633: Cumulative IFA_On_CP time for all completed independent enclaves owned by the address space (STCK format)
144	(90)	CHARACTER	48	RASDOUT6 (0)	IRARASD.606: end for version 5
144	(90)	BITSTRING	8	RASDENCTIMEONSUP	IRARASD.642: RASD output fields added for version 6
					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)
176	(B0)	BITSTRING	8	RASDENCTIMESUPQUAL	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

Comment

IRARASD.181: size of rasd

192	(C0)	X'CO'	0	RASDSIZE	End of Comment "192"
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Comment

IRARASD.13: size of workarea for REQFASD

192	(C0)	X'200'	0	RQFASDWA	End of Comment "512"
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Comment

IRARASD.334: size of IRARMF81's dynamic area

192	(C0)	X'E8'	0	F81DSIZE	End of Comment "232"
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Comment

IRARASD.32: size of IRARMASD's dynamic area

192	(C0)	X'A2'	0	ASDDDSIZE	End of Comment "162"
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Comment

IRARASD.712: size of IRARMASD's dynamic area without savearea size

192	(C0)	X'12'	0	ASDDDSIZE_DYN	End of Comment "18"
192	(C0)	X'CO'	0	RASD_LEN	"*-RASD"

IRARASD Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
ASDDSIZE	C0	A2	RASDRSV2	A	
ASDDSIZE_DYN	C0	12	RASDRSV3	2D	
F81DSIZE	C0	E8	RASDRSV4	4E	
RASD	0		RASDSCL	C	
RASD_LEN	C0	C0	RASDSCTK	30	
RASDACRO	0		RASDSIZE	C0	C0
RASDASPROTSTG			RASDSRMTOKEN	68	
	64	20	RASDSRV	2C	80
RASDBITS	9		RASDSTAT	2C	
RASDCINF	34		RASDSTGPROTTECTED		
RASDCIOPRIOGROUP				64	4
	65	80	RASDSUBT	48	
RASDCPROTCPU	64	80	RASDTAF	2C	10
RASDCPROTSTG	64	40	RASDTRR	60	
RASDCPUPROTTECTED			RASDTRXNMGMTBOTH		
	64	8		64	2
RASDDECPUTIME			RASDTRXNMGMTEXEMPT		
	40			64	10
RASDDEPENCTIMEIFAONCP			RASDTWSS	54	
	88		RASDWALEN	6	
RASDDEPENCTIMEONIFA			RASDWKLD	14	
	78		RASDWSS	50	
RASDDEPENCTIMEONSUP			RQFASDWA	C0	200
	98				
RASDDEPENCTIMESUPONCP					
	A8				
RASDDEPENCTIMESUPQUAL					
	B8				
RASDDMN	36				
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				

IRARENF1 Information

IRARENF1 Programming Interface information

Programming Interface information

IRARENF1

End of Programming Interface information

IRARENF1 Heading Information • IRARENF1 Cross Reference

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 Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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
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

IRARENF1 Cross Reference

Name	Hex Offset	Hex Value
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	

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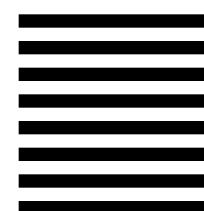
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