z/OS

MVS Data Areas, Volume 2 (DCCB - ITZYRETC)

GA22-7582-03

z/OS

MVS Data Areas, Volume 2 (DCCB - ITZYRETC)

GA22-7582-03

Note

Before using this information and the product it supports, be sure to read the general information under “Notices” on page 1099.

Fourth Edition, September 2002

This is a major revision of GA22-7582-02.

This edition applies to Version 1, Release 4 of z/OS (5694-001) and Version 1, Release 4 z/OS.e (5655-G52), and to all subsequent releases and modifications until otherwise indicated in new editions.

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About this document

This document provides graphic presentations of many data areas used by the z/OS operating system and by application programs. This document provides the data areas that are one or more of the following:

- Programming interfaces
- Needed for debugging or diagnosis.

This document supports z/OS (5694-A01) and z/OS.e (5655-G52).

For the latest information updates that have been provided in PTF cover letters and Documentation APARS for z/OS and z/OS.e, see the online document at:

`http://www.s390.ibm.com:80/bookmgr-cgi/bookmgr.cmd/BOOKS/ZIDOCMST/CCONTENTS`

Who should use this document

This document 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 publication should have a working knowledge of the functions and logic of the operating system.

How to use this document

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

There are five volumes of *Data Areas*. The following list shows the range of data areas included in each volume:

z/OS MVS Data Areas, Vol 1 (ABEP-DALT)	GA22-7581
z/OS MVS Data Areas, Vol 2 (DCCB-ITZYRETC)	GA22-7582
z/OS MVS Data Areas, Vol 3 (IVT-RCWK)	GA22-7583
z/OS MVS Data Areas, Vol 4 (RD-SRRA)	GA22-7584
z/OS MVS Data Areas, Vol 5 (SSAG-XTLST)	GA22-7585

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:

- **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.

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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:

- 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.

Where to find more information

For complete titles and order numbers of the books for all products that are part of z/OS, see *z/OS Information Roadmap*.

Summary of changes

Summary of changes
for GA22-7582-03
z/OS Version 1 Release 4

This document contains information previously presented in *z/OS MVS Data Areas*, GA22-7582-02, which supports z/OS Version 1 Release 3.

New information

The following data areas have been added:

- IRDDDCE
- IRDDFSD
- ITTUIPRM

This document contains terminology, maintenance and editorial changes.

Starting with z/OS V1R2, you may notice changes in the style and structure of some content in this document — for example, headings that use uppercase for the first letter of initial words only, and procedures that have a different look and format. The changes are ongoing improvements to the consistency and retrievability of information in our documents.

Summary of changes
for GA22-7582-02
z/OS Version 1 Release 3

New information

Information is added to indicate this document supports z/OS.e.

The document contains information previously presented in GA22-7582-01, which supports z/OS Version 1 Release 2.

This document contains terminology, maintenance and editorial changes.

New information

The following data areas have been added:

- IAXV64WA
- IGVDGNX
- IHAASTE1
- IHAETE1
- IRALPDAT
- ISGYNQBP
- ISGYNQQP
- ISGYQCBP

Summary of changes
for GA22-7582-01
z/OS Version 1 Release 2

The document contains information previously presented in GA22-7582-00, which supports z/OS Version 1 Release 1.

New information

The following data areas have been added:

- IAZCVDEV

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- IAZSPLIO
- IEEZB889
- IHAFSD
- IHALCCX
- IHAPSAX
- IHASLMSG
- IOSDSRWQ
- ISGYCON
- ISGYNQXP
- ISGYREPL

This document contains terminology, maintenance, and editorial changes.

Summary of changes
for GA22-7582-00
z/OS Version 1 Release 1

The document contains information also presented in OS/390 Version 2 Release 10.

Data Areas Volume 2 (DCCB - ITZYRETC)

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DCCB Heading Information

Common Name: N/A
Macro ID: N/A
DSECT Name: N/A
Owning Component: N/A
Eye-Catcher ID: N/A
Offset: N/A
Length: N/A
Storage Attributes: Main Storage: N/A
Virtual Storage: N/A
Auxiliary Storage: N/A
Subpool: N/A
Key: N/A
Data Space: N/A
Residency: N/A
Size: N/A
Created by: N/A
Pointed to by: N/A
Serialization: N/A
Function: N/A

DCCB Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	16	DCCB	ADDRESSABILITY ESTABLISHED VIA DCCBPTR
0	(0)	ADDRESS	4	DCCBSCRN	ADDRESS OF MESSAGE ARRAY
4	(4)	ADDRESS	4	DCCBRPLY	If reply is expected, points to a 75 byte field where the reply is placed.
8	(8)	CHARACTER	2	*	Reserved.
10	(A)	CHARACTER	2	DCCBINTF	Interface flags for input.
		1...		DCCBNOHO	DO NOT HOLD AN INFORMATIONAL MESSAGE ON THE SCREEN.
		.1..		DCCBDSAB	DO NOT ENABLE FOR I/O INTERRUPTS. CALLER MAY HOLD A UCB OR HIGHER LOCK - OBTAIN LOCK CONDITIONALLY.
		..1.		DCCBNPST	DO NOT POST CONSOLE SERVICES TO PERFORM CONSOLE CLEANUP.
		...1		DCCBNORV	Do not validate reply.
		.... 1...		DCCBNOTM	Do not time out waiting for reply.
		.... .1..		DCCBNOAL	Do not sound console alarm.
		.... ..1.		DCCBNHDR	Do not display header message.
		1		DCCBNOEI	Do not use OMAR.
11	(B)	1...		DCCBNOER	Do not erase the screen before displaying the message.
		.1..		DCCBQNIP	Send message to NIP console
		..1.		DCCBLWWC	Message is associated to a wait state request. An attempt will be made to use OMAR if necessary
		...1		DCCBONRS	OMAR needs to be reset. This flag is an output bit.
		.... 1...		DCCBRSOO	Reset OMAR only.
		.... .1..		DCCBNLCK	Do not enter lock mgr
		.... ..1.		DCCBUCON	Try to write to specified console first
		1		*	Reserved.
12	(C)	ADDRESS	4	DCCBINF@	Address of communication area for additional console information.

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Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	*	DCCBMSGS	MESSAGE ARRAY. FORMATS A LINE OF THE MESSAGE THAT WILL BE ADDRESSED FROM DCCBSCRN OR DCCBNEXT.
0	(0)	ADDRESS	4	DCCBNEXT	POINTS TO THE NEXT LINE OF MESSAGE TO BE PUT ON THE SCREEN OR ZERO FOR THE LAST LINE.
4	(4)	CHARACTER	*	DCCBWPL	
4	(4)	CHARACTER	4	DCCBMPFX	MESSAGE PREFIX DATA.
4	(4)	SIGNED	2	DCCBDLEN	LENGTH OF MESSAGE TEXT (DCCBDATA) PLUS LENGTH OF MESSAGE PREFIX (DCCBMPFX).
6	(6)	CHARACTER	2	DCCBMCS	Reserved.
8	(8)	CHARACTER	*	DCCBDATA	TEXT TO BE PUT ON THE CONSOLE'S SCREEN.

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	8	DCCBMSG	THE MESSAGE THAT WILL BE ADDRESSED FROM DCCBSCRN OR DCCBNEXT.
0	(0)	CHARACTER	8	DCCBARYD	ARRAY DATA.

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	12	DCCBCONS	Communication area for additional console info.
0	(0)	CHARACTER	8	DCCBDEST	Output: Console written to Input: Console to write to
0	(0)	CHARACTER	4	DCCBUCME	Copy of DWSAG_CNSL_UCMEDVEPT from console write (pointer to UCME)
4	(4)	UNSIGNED	1	DCCBCARQ	Copy of console request type from console write
5	(5)	CHARACTER	3	*	Reserved
8	(8)	ADDRESS	4	DCCBSYCI	Information needed by IEEVDCCA in case the destination is the system console.

DCCB Constants

Len	Type	Value	Name	Description
4	DECIMAL	14	DCCB_CALLER_LINES	Number of DCCB message text lines allowed on input
4	DECIMAL	1	DCCB_RESPONSE_LINES	Number of lines allowed for WTOR response
4	DECIMAL	1216	DCCB_MAX_LENGTH	Maximum size of a DCCB

DCCB Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
DCCB	0		DCCBNHDR	A	02
DCCBARYD	0		DCCBNLCK	B	04
DCCBCARQ	4		DCCBNOAL	A	04
DCCBCONS	0		DCCBNOEI	A	01
DCCBDATA	8		DCCBNOER	B	80
DCCBDEST	0		DCCBNOHO	A	80
DCCBDLEN	4		DCCBNORV	A	10
DCCBDSAB	A	40	DCCBNOTM	A	08
DCCBINF@	C		DCCBNPST	A	20
DCCBINTF	A		DCCBONRS	B	10
DCCBLWWC	B	20	DCCBQNIP	B	40
DCCBMCS	6		DCCBRPLY	4	
DCCBMPFX	4		DCCBRSOO	B	08
DCCBMSG	0		DCCBSCRN	0	
DCCBMSGS	0		DCCBSYCI	8	
DCCBNEXT	0		DCCBUCME	0	

Name	Hex Offset	Hex Value
DCCBUCON	B	02
DCCBWPL	4	

DCCD Programming Interface information

Programming Interface information

DCCD

End of Programming Interface information

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DCCD Heading Information

Common Name: Dynamic Configuration Change Data
Macro ID: IOSDDCCD
DSECT Name: DCCD, DCCDARRY, DCCDEDEV, DCCDEPCU, DCCDECHP
Owning Component: I/O Supervisor (SC1C3)
Eye-Catcher ID: DCCD
Offset: 0
Length: 4
Storage Attributes: Subpool: 1
Key: 0
Size: VARIABLE
Created by: The IOS Configuration Change Manager.
Pointed to by: Register 1 points to the address of IOSDDCCD when the Configuration Change Exit receives control.
Serialization: None
Function: IOSDDCCD maps the Dynamic Configuration Change Data which contains the I/O components and coupling facility components that were changed as a result of a dynamic configuration change. The DCCD is passed as input to the CONFCHG CHGREQ and CONFCHG CHGCOMPL exits. In addition, fields from the DCCD are placed in the SMF record type 22 subtype 9, which identifies a dynamic configuration change.

DCCD Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	DCCD	
0	(0)	X'0'	0	DCCDHDR	"*" Header information
0	(0)	CHARACTER	4	DCCDID	Control block acronym
4	(4)	BITSTRING	1	DCCDVERN	DCCD version number
5	(5)	SIGNED	1	DCCDFUNC	For CONFCHG CHGREQ exit, indicates function to be performed. Otherwise, zero.
6	(6)	BITSTRING	1	DCCDFLGS	Flags
		1...		DCCDSOFT	"X'80'" Software-only configuration change
Comment					
EQU X'7F' Reserved					
End of Comment					
7	(7)	BITSTRING	1		Reserved
8	(8)	SIGNED	4	DCCDSIZE	Total size of DCCD
12	(C)	SIGNED	4	DCCDSTRT	Offset of first DCCD entry
16	(10)	SIGNED	4	DCCDENTC	Number of entries in the DCCD
20	(14)	CHARACTER	48	DCCDIODF (0)	IODF dataset which contains new configuration
20	(14)	CHARACTER	44	DCCDIODN	IODF dataset name
64	(40)	CHARACTER	4		Reserved
68	(44)	CHARACTER	2	DCCDEDT	ID of new EDT
70	(46)	CHARACTER	2		Reserved
72	(48)	CHARACTER	8	DCCDCFID	Operating system configuration ID for new configuration
80	(50)	SIGNED	4	DCCD#UA	Number of UCBs added
84	(54)	SIGNED	4	DCCD#UD	Number of UCBs deleted
88	(58)	SIGNED	1	DCCDACTF	Activate function requested (activate or recover)
89	(59)	CHARACTER	3		Reserved
89	(59)	X'5C'	0	DCCDHLEN	"*-DCCD" Length of DCCD header

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	DCCDARRY	DCCD entry array
0	(0)	BITSTRING	32	DCCDE (0)	DCCD entry
0	(0)	SIGNED	4	DCCDEHDR (0)	DCCD entry header
0	(0)	BITSTRING	1	DCCDETYP	DCCD entry type
1	(1)	BITSTRING	1	DCCDEREQ	DCCD entry request type
2	(2)	BITSTRING	1	DCCDEFLG	DCCD entry flags
		1...		DCCDEHDW	"X'80'" Hardware change
		.1..		DCCDESFT	"X'40'" Software change
		..1.		DCCDESTA	"X'20'" Indicates that this entry was created because a static device is being changed to a dynamic device. This entry represents the delete request (DCCDEREQ=DCCDDDEL). There will be another entry which represents the add request.
		...1		DCCDECON	"X'10'" Indicates whether UCB for device is connected to a subchannel. Valid only when DCCDETYP=DCCDDEV and DCCDEREQ=DCCDADD. Also, valid only for CONFCHG CHGCOMPL exit

Comment

EQU X'0C' Reserved

End of Comment

		.... ..1.		DCCDEAP	"X'02'" The activating partition will lose access to the device because either the device is deleted from the configuration, or the activating partition is being removed from the candidate list of the device. Valid when: DCCDETYP=DCCDDEV and DCCDEREQ=DCCDDDEL
		1		DCCDECC	"X'01'" Indicates that this entry was created because the candidate list of the device was changed. When DCCDETYP=DCCDDEV, DCCDEREQ=DCCDDDEL and DCCDECC is on, partition(s) were deleted from the device candidate list. When DCCDETYP=DCCDDEV, DCCDEREQ=DCCDDADD and DCCDECC is on, partition(s) were added to the device candidate list.
3	(3)	BITSTRING	1		' Reserved
4	(4)	BITSTRING	28	DCCDENTY	Entry type specific information described below
4	(4)	X'20'	0	DCCDELEN	"*-DCCDARRY" Length of DCCD entry

Comment

The following structure provides the mapping for device
entries in the DCCD (DCCDETYP = DCCDDEV or DCCDMDEV).

End of Comment

4	(4)	SIGNED	2	DCCDDEVN	Device number
6	(6)	CHARACTER	26	DCCDDEVA (0)	Device entry area
6	(6)	BITSTRING	1	DCCDDCMK	Mask of CHPIDs contained in DCCDDCHP that are to be added/deleted from this device. Valid only when DCCDEREQ = DCCDDAC, DCCDDDC, DCCDDDP or DCCDDDP. Otherwise, zero.
7	(7)	BITSTRING	1	DCCDDPMK	Mask of physical control unit numbers in DCCDDPCU that are to be added/deleted from this device. Valid only when DCCDEREQ = DCCDDAP or DCCDDP. Otherwise, zero.
8	(8)	SIGNED	1	DCCDDCHP (8)	Array of CHPIDs that are to be added/deleted from this device. Valid only when DCCDEREQ = DCCDDAC, DCCDDDC, DCCDDDP or DCCDDAP. Otherwise, zero.
16	(10)	SIGNED	2	DCCDDPCU (8)	Array of physical control unit numbers that are to be added/deleted from this device. Valid only when DCCDEREQ = DCCDDAP or DCCDDDP. Otherwise, zero.

DCCD Map

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					Comment
					---------- Remap of the device entry area when DCCDEREQ = DCCDDDEL ----------
					End of Comment
6	(6)	BITSTRING	1	DCCDDTYP	Device type. This field is copied from UCBTBYT3
7	(7)	BITSTRING	1	DCCDDTYF	Device type flags
					Comment
					---------- Unit Record Flags
					End of Comment
		1...		DCCDSWTC	"X'80'" If 1, indicates that the device being deleted is a switch device. Valid when DCCDDTYP indicates a device type of Unit Record
					Comment
					---------- DASD Flags
					End of Comment
		1...		DCCDPAVB	"X'80'" If 1, indicates that the device being deleted is a PAV Base device. Valid when DCCDDTYP indicates a device type of DASD
		.1..		DCCDPAVA	"X'40'" If 1, indicates that the device being deleted is a PAV Alias device. Valid when DCCDDTYP indicates a device type of DASD
8	(8)	CHARACTER	24		Reserved for future use
					Comment
					The following structure provides the mapping for control unit entries in the DCCD (DCCDETYP = DCCDPCU or DCCDMP).
					End of Comment
4	(4)	SIGNED	2	DCCDPCUN	Physical control unit number
6	(6)	BITSTRING	1	DCCDFLG2	Flag byte
		1...		DCCDVLD	"X'80'" If 1, indicates DCCDLCU is valid
		.1..		DCCDSQV	"X'40'" If 1, indicates DCCDSBC, DCCDCUBC and DCCDSCNT are valid
7	(7)	BITSTRING	1	DCCDPCMK	Mask of channel path IDs that are to be added/deleted from this CU. Valid only when DCCDEREQ = DCCDPAC or DCCDPDC. Otherwise, zero.
8	(8)	SIGNED	1	DCCDPCHP (8)	Array of CHPIDs that are to be added/deleted from this CU. Valid only when DCCDEREQ = DCCDPAC or DCCDPDC. Otherwise, zero.
16	(10)	SIGNED	4	DCCDPUA (0)	Represents the range of unit addresses that are to be added to or deleted from the control unit. Valid only when DCCDEREQ = DCCDPMA or DCCDPMD. Otherwise, zero.
16	(10)	CHARACTER	1		Reserved
17	(11)	BITSTRING	1	DCCDPUAC	Count of unit addresses
18	(12)	CHARACTER	1		Reserved
19	(13)	BITSTRING	1	DCCDPSUA	Starting unit address

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
					Comment
					The following fields are counts required by RMF. They are valid only when DCCDACTF = (DCCDDCM or DCCDIMCU), DCCDETYP=DCCDPCU, DCCDEREQ=DCCDPDC and DCCDSQV equal 1
					End of Comment
20	(14)	SIGNED	4	DCCDSBC	Switch busy count
24	(18)	SIGNED	4	DCCDCUBC	Control unit busy count
28	(1C)	SIGNED	4	DCCDSCNT	Success count
28	(1C)	X'12'	0	DCCDFLTN	"DCCDPUA+2,2" Number of managed CHPIDs. Valid only when DCCDACTF=DCCDACTV and DCCDEREQ=DCCDPMNF
28	(1C)	X'10'	0	DCCDLCU	"DCCDPUA,2" Logical control unit number. Valid only when DCCDACTF=DCCDDCM or DCCDIMCU.
					Comment
					The following structure provides the mapping for CHPID entries in the DCCD (DCCDETYP = DCCDCHP).
					End of Comment
4	(4)	BITSTRING	1	DCCDCCHP	Channel path ID
5	(5)	CHARACTER	3		Reserved
					Comment
					The following constant is used to place an identifier in the DCCD (field DCCDID).
					End of Comment
5	(5)	X'C3C3C4'	0	DCCDCBID	"C'DCCD'" DCCD control block acronym
					Comment
					The following constant is used to place the version number in the DCCD (field DCCDVERN).
					End of Comment
		1		DCCDCBVN	"X'01'" DCCD version number
					Comment
					The following constants are used to identify the function requested in DCCDFUNC. These functions are valid only on input to the CONFCHG CHGREQ exit.
					End of Comment
		1		DCCDFPFC	"X'01'" Prepare for configuration change
		.... ..1.		DCCDFCCR	"X'02'" Configuration change rejected
					Comment
					The following constants are used to identify the function in DCCDACTF.
					End of Comment
		1		DCCDACTV	"X'01'" Activate function
		.... .1.1		DCCDRECV	"X'05'" Recover function
		.... .11.		DCCDDCM	"X'06'" DCM change function
		.... .111		DCCDIMCU	"X'07'" Internal IOS request to modify a control unit (e.g. to remove a managed CHPID)

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
				Comment	
The following constants are used to identify the entry type in DCCDETYP.					
				End of Comment	
		1		DCCDDEV	"X'01'" Device entry
		.... ..1.		DCCDPCU	"X'02'" Control unit entry
		11		DCCDCHP	"X'03'" CHPID entry
		.... .1..		DCCDMDEV	"X'04'" coupling facility device entry
		.... .1.1		DCCDMP	"X'05'" coupling facility CU entry
				Comment	
The following constants define DCCDEREQ when DCCDETYP is equal to DCCDDEV or DCCDMDEV.					
				End of Comment	
		1		DCCDDDEL	"X'01'" Delete device
		.... ..1.		DCCDDADD	"X'02'" Add device
				Comment	
The following constants define DCCDEREQ when DCCDETYP is equal to DCCDDEV.					
				End of Comment	
		11		DCCDDDC	"X'03'" Modify to remove CHPID(s)
		.... .1..		DCCDDAC	"X'04'" Modify to add CHPID(s)
		.... .1.1		DCCDDDP	"X'05'" Modify to remove CU(s)
		.... .11.		DCCDDAP	"X'06'" Modify to add CU(s)
		.... .111		DCCDDMSC	"X'07'" Modify subchannel characteristics (illegal status detection and interface timeout facility)
		.... 1...		DCCDDMPP	"X'08'" Modify preferred path 2
				Comment	
The following constants define DCCDEREQ when DCCDETYP is equal to DCCDPCU or DCCDMP.					
				End of Comment	
		1		DCCDPDEL	"X'01'" Delete control unit
		.... ..1.		DCCDPADD	"X'02'" Add control unit
		11		DCCDPDC	"X'03'" Modify to delete CHPID(s)
		.... .1..		DCCDPAC	"X'04'" Modify to add CHPID(s)
				Comment	
The following constants define DCCDEREQ when DCCDETYP is equal to DCCDPCU.					
				End of Comment	
		.... .1.1		DCCDPMDU	"X'05'" Modify to delete unit address range
		.... .11.		DCCDPMAU	"X'06'" Modify to add unit address range
		.... .111		DCCDPMNF	"X'07'" Modify to change the number of managed CHPIDs
		.... 1...		DCCDPMDF	"X'08'" Modify to delete a managed CHPID
		.... 1..1		DCCDPMAF	"X'09'" Modify to delete a managed CHPID with intent to add a static CHPID

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
				Comment	
The following constants define DCCDEREQ when DCCDETYP is equal to DCCDCHP.					
				End of Comment	
		1		DCCDCDEL	"X'01'" Delete CHPID
		.... ..1.		DCCDCADD	"X'02'" Add CHPID
		11		DCCDCDI	"X'03'" Modify to delete logical partition(s) from the CHPID candidate list
		.... .1..		DCCDCAI	"X'04'" Modify to add logical partition(s) to the CHPID candidate list

DCCD Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
DCCD	0		DCCDESFT	2	40
DCCD#UA	50		DCCDESTA	2	20
DCCD#UD	54		DCCDETYP	0	
DCCDACTF	58		DCCDFCCR	5	2
DCCDACTV	5	1	DCCDFLGS	6	
DCCDARRY	0		DCCDFLG2	6	
DCCDCADD	5	2	DCCDFLTN	1C	12
DCCDCAI	5	4	DCCDFPFC	5	1
DCCDCBID	5	C3C3C4	DCCDFUNC	5	
DCCDCBVN	5	1	DCCDHDR	0	0
DCCDCCHP	4		DCCDHLEN	59	5C
DCCDCDEL	5	1	DCCDID	0	
DCCDCDI	5	3	DCCDIMCU	5	7
DCCDCFID	48		DCCDIODF	14	
DCCDCHP	5	3	DCCDIODN	14	
DCCDCUBC	18		DCCDLCU	1C	10
DCCDDAC	5	4	DCCDMDEV	5	4
DCCDDADD	5	2	DCCDMP	5	5
DCCDDAP	5	6	DCCDPAC	5	4
DCCDDCHP	8		DCCDPADD	5	2
DCCDDCM	5	6	DCCDPAVA	7	40
DCCDDCMK	6		DCCDPAVB	7	80
DCCDDDC	5	3	DCCDPCHP	8	
DCCDDDEL	5	1	DCCDPCMK	7	
DCCDDDP	5	5	DCCDPCU	5	2
DCCDDEV	5	1	DCCDPCUN	4	
DCCDDEVA	6		DCCDPDC	5	3
DCCDDEVN	4		DCCDPDEL	5	1
DCCDDMPP	5	8	DCCDPMAF	5	9
DCCDDMSC	5	7	DCCDPMAU	5	6
DCCDDPCU	10		DCCDPMDF	5	8
DCCDDPMK	7		DCCDPMDU	5	5
DCCDDTYF	7		DCCDPMNF	5	7
DCCDDTYP	6		DCCDPSUA	13	
DCCDE	0		DCCDPUA	10	
DCCDEAP	2	2	DCCDPUAC	11	
DCCDECC	2	1	DCCDRECV	5	5
DCCDECON	2	10	DCCDSBC	14	
DCCDEDT	44		DCCDSCNT	1C	
DCCDEFLG	2		DCCDSIZE	8	
DCCDEHDR	0		DCCDSOFT	6	80
DCCDEHDW	2	80	DCCDSQV	6	40
DCCDELEN	4	20	DCCDSTRT	C	
DCCDENTC	10		DCCDSWTC	7	80
DCCDENTY	4		DCCDVERN	4	
DCCDEREQ	1		DCCDVLD	6	80

DCQ Heading Information

Common Name: Device Class Queue
Macro ID: IHADCQ
DSECT Name: DCQ; DCQELMNT
Owning Component: I/O Supervisor (SC1C3)
Eye-Catcher ID: DCQ
Offset: Offset 0 and length 4
Subpool and Key: NUCLEUS
Size: Header = 202 bytes
Elements = 28 bytes each
Created by: IOS SYSGEN
Pointed to by: CVTDCQA of the CVT data area
Serialization: None
Function: The DCQ is used to locate the UCB's for devices. They are grouped by device class with one DCQ element per device.

DCQ Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	20	DCQ	
0	(0)	CHARACTER	20	DCQHEAD	Header
0	(0)	CHARACTER	4	DCQNAME	Control block acronym
4	(4)	SIGNED	2	DCQLNGTH	Length of each of the DCQ entries
6	(6)	SIGNED	2	DCQCOUNT	Number of elements
8	(8)	ADDRESS	4	DCQFIRST	Address of first DCQELMNT
12	(C)	SIGNED	4	DCQDSTCT	Count of entries required in the device statistics table
16	(10)	SIGNED	4	DCQUCBNO	Total number of UCBs for the I/O configuration

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	28	DCQELMNT	Element of DCQ
0	(0)	ADDRESS	4	DCQCHAIN	Address of next DCQELMNT or zero if end of chain
4	(4)	BITSTRING	1	DCQDEVCL	Existing device class hex ID. Same contents as UCBTBYT3.
5	(5)	BITSTRING	1	DCQFLG1	Flags
6	(6)	SIGNED	2	DCQUCBCT	Number of UCB's within device class. If no UCB's exist for this class, then field is 0.
8	(8)	ADDRESS	4	DCQUCBAD	Address of first UCB for this class. If no UCB's exist for this class, then 0. All UCB addresses point to common segment of UCB.
12	(C)	CHARACTER	8	DCQDEVNM	Device class name in EBCDIC.
20	(14)	CHARACTER	8	*	Reserved

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DCQ Constants

Len	Type	Value	Name	Description
4	CHARACTER	DCQ	DCQCBID	Control block ID

DCQ Cross Reference

Name	Hex Offset	Hex Value
DCQ	0	
DCQCHAIN	0	
DCQCOUNT	6	
DCQDEVCL	4	
DCQDEVNM	C	
DCQDSTCT	C	
DCQELMNT	0	
DCQFIRST	8	
DCQFLG1	5	
DCQHEAD	0	
DCQLNGTH	4	
DCQNAME	0	
DCQUCBAD	8	
DCQUCBCT	6	
DCQUCBNO	10	

DDRCOM Heading Information

Common Name: IOS Dynamic Device Reconfiguration Communication Table
Macro ID: IHADDR
DSECT Name: DDRCOM
Owning Component: Dynamic Device Reconfiguration (BB1CS)
Eye-Catcher ID: DDR
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: N/A
Size: 236 bytes
Created by: IGF2503D - operator requested SWAP, IGE0660A - system initiated SWAP.
Pointed to by: CVTTRPOS field of the CVT (points to the queue of DDRCOMs for tapes in the repositioning phase of swap.
CVTTPUR field of the CVT (points to the queue of DDRCOMs for unit record devices, and tapes which are in the first phase of a SWAP (prior to the reposition phase).
CVTDPUR field of the CVT (points to the queue of DDRCOMs for DASD swaps.
DDRNXT field of the DDRCOM data area.
Serialization: Queued and dequeued while holding local, CMS locks.
Function: Communicate between DDR modules. Queuing control block for DDR requests.

DDRCOM Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	DDRCOM	
0	(0)	SIGNED	4	DDRID	DDRCOM INDICATOR
4	(4)	SIGNED	4	DDRNXT	NEXT DDRCOM
8	(8)	BITSTRING	4	DDRCNTRL (0)	CONTROL DATA
8	(8)	BITSTRING	1	DDRSRC	SOURCE OF DDR REQUEST
		1...		DDROPER	"X'80'" OPERATOR REQUEST
		.1..		DDRSYS	"X'40'" SYSTEM REQUEST
		..1.		DDRPAGE	"X'20'" PAGE I/O ERROR REQUEST
9	(9)	BITSTRING	1	DDRSTAT	REQUEST STATUS
		1...		DDRACTV	"X'80'" REQUEST IS EXECUTING
		.1..		DDRQUE	"X'40'" REQUEST IS QUEUED
		..1.		DDRHAMA	"X'20'" PERMANENTLY INACTIVE REQUEST
		...1		DDRRMV	"X'10'" REMOVE INVALID REQUEST
		.... 1...		DDRPRG	"X'08'" TERMINATE REQUEST
		.... .1..		DDRSIRB	"X'04'" REQUEST IS EXECUTED BY SIRB IN IGE0660A
		.... ..1.		DDRBYPTM	"X'02'" SYSTEM SWAP AND 'FROM' DEVICE INELIBIBLE FOR SWAP - BYPASS ISSUING THE IGF512I ERROR TERMINATION MESSAGE
10	(A)	BITSTRING	2	DDRDCHAR (0)	DEVICE CHARACTERISTICES
10	(A)	BITSTRING	1	DDRMDR	MDR RECORD ID

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Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
11	(B)	BITSTRING	1	DDRDSTAT	DEVICE TYPE AND FLAGS
		1...		DDRBUFL	"X'80'" BUFFERER LOG
		.1..		DDRDA	"X'40'" DIRECT ACCESS DEVICE
		..1.		DDRMT	"X'20'" MAGNETIC TAPE DEVICE
		...1		DDRUR	"X'10'" UNIT RECORD DEVICE
		.... 1...		DDRRCYLE	"X'08'" A MAGNETIC TAPE DEVICE SWAP THAT IS BEING RECYCLED BECAUSE OF AN I/O ERROR DURING REPOSITIONING
		.... .1..		DDRTRPOS	"X'04'" A MAGNETIC TAPE DEVICE SWAP THAT IS IN THE REPOSITIONING PHASE OF THE SWAP
		.... ..1.		DDRMTEND	"X'02'" A MAGNETIC TAPE DEVICE SWAP THAT HAS COMPLETED THE REPOSITIONING PHASE
12	(C)	BITSTRING	4	DDRUIOSB	USER IOSB ADDRESS
16	(10)	BITSTRING	2	DDRUASID	USER ADDRESS SPACE
18	(12)	BITSTRING	2		RESERVED.
20	(14)	BITSTRING	4	DDRFMNAM (0)	"FROM" UCB name in 4 bytes.
20	(14)	BITSTRING	1		High order byte UCB nane. .
21	(15)	BITSTRING	3	DDRFMCUA	"FROM" UCB name in 3 bytes.
24	(18)	BITSTRING	4	DDRTONAM (0)	"TO" UCB name in 4 bytes.
24	(18)	BITSTRING	1		High order byte UCB name.
25	(19)	BITSTRING	3	DDRTOCUA	"TO" UCB name in 3 bytes.
28	(1C)	BITSTRING	4	DDRTOUCB	TO UCB ADDRESS
32	(20)	BITSTRING	4	DDRFMUCB	FROM UCB ADDRESS
36	(24)	BITSTRING	1	DDRROWN	REQUEST RESOURCES
		1...		DDRRTENQ	"X'80'" TAPE ALLOC RESOURCE HELD
		.1..		DDRRUENQ	"X'40'" UNIT RECORD ALLOC RESOURCE HELD
		..1.		DDRRDENQ	"X'20'" DISK ALLOC RESOURCE HELD
		...1		DDRRYENQ	"X'10'" DYNAMIC RESOURCE HELD
		.... .1..		DDRDEN	"X'04'" A MAGNETIC TAPE DEVICE SWAP IN WHICH THE TAPES ARE COMPATIBLE BUT NOT IDENTICAL IN THE DENSITIES THAT THEY SUPPORT
		.... ..1.		DDRJES3L	"X'02'" IGFDL1 USING JES3 UCB LIST Y02BKCI
		1		DDRFIRST	"X'01'" IGFDL1 RECURSIVE BIT/FIRST TIME SWITCH
37	(25)	BITSTRING	1	DDRLEVEL	IOS DDR LEVEL FROM IOSLEVEL
38	(26)	BITSTRING	2	DDRASID	DDR ADDRESS SPACE
40	(28)	BITSTRING	4	DDRUDCB	USER DCB ADDRESS OZ11029
44	(2C)	BITSTRING	4	DDRUDEB	USER DEB ADDRESS OZ11029
48	(30)	BITSTRING	4	DDRUIOB	USER IOB ADDRESS
52	(34)	BITSTRING	4	DDRUTCB	USER TCB ADDRESS
56	(38)	BITSTRING	4	DDRUASCB	USER ASCB ADDRESS
60	(3C)	BITSTRING	4	DDRTEST	TESTING FIELD
64	(40)	BITSTRING	2	DDRTER (0)	TERMINATION PARM FIELD
64	(40)	BITSTRING	1	DDRTER1	TERMINATION REASON CODE
		1		DDRTNF	"X'01'" NO USER FOUND
		.... ..1.		DDRTEP	"X'02'" ERP IN PROGRESS
		11		DDRTOC	"X'03'" OPEN/CLOSE/EOV IN PROGRESS
		.... .1..		DDRTBR	"X'04'" BLOCKCOUNT UNRELIABLE
		.... .1.1		DDRTCO	"X'05'" OPERATOR CANCELLED
		.... .11.		DDRTIU	"X'06'" INVALID USER EXIT
		.... .111		DDRTCE	"X'07'" CATASTROPHIC ERROR
		.... 1...		DDRTID	"X'08'" INVALID DEVICE
		.... 1..1		DDRTCU	"X'09'" CANCELLED BY USER
		.... 1.1.		DDRTJE	"X'0A'" JES3 ERROR Y02BKCI
		.... 1.11		DDRTEXC	"X'0B'" EXIT CANCELLED SWAP BUT DID NOT SUPPLY MESSAGE
		.... 11..		DDRTAIP	"X'0C'" ACTIVATE IN PROGRESS
		.... 11.1		DDRTREP	"X'0D'" REPOSITIONING ERROR IN TAPE LIBRARY
		.... 111.		DDRTRD	"X'0E'" READ ERROR IN TAPE LIBRARY
		 1111		DDRTRR	"X'0F'" READ OR REPOSITIONING ERROR IN TAPE LIBRARY
		...1		DDRTLF	"X'10'" FAILURE DURING MOUNT, DEMOUNT, OR VOLUME VERIFICATION in TAPE LIBRARY ENVIRONMENT

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		...1 ...1		DDRTIOA	"X'11'" IOACTION REQUIRED - DEVICE IS SHARED DASD BUT THE DEVICE WAS FOUND NOT TO BE QUIESCED BY THE IOACTION COMMAND
		1111 1111		DDRTMSG	"X'FF'" TEXT FOR THE TERMINATION REASON IS SUPPLIED IN DDEMSG (IN IGFDDE)
65	(41)	BITSTRING	1	DDRTER2	TERMINATION FIELD
66	(42)	BITSTRING	2	DDRINV (0)	INVALID FLAGS
66	(42)	BITSTRING	1	DDRINV1	INVALID REASON CODE
		1		DDRIMP	"X'01'" MOUNT PENDING
		.... ..1.		DDRIUF	"X'02'" UNIT REFERENCE INVALID
		11		DDRINS	"X'03'" UNSUPPORTED USE
		.... .1..		DDRIIN	"X'04'" INCOMPATIBLE
		.... .1.1		DDRINO	"X'05'" NOT OPERATIONAL
		.... .11.		DDRINA	"X'06'" NOT ALLOCATED
		.... .111		DDRIDT	"X'07'" INVALID DEVICE TYPE
		.... 1...		DDRIJ3	"X'08'" JES3 INCOMPATIBLE Y02BKCI
		.... 1..1		DDRIONL	"X'09'" OFFLINE DEVICE CANNOT BE VARIED ONLINE
		.... 1.1.		DDRIDYST	"X'0A'" DEVICES DYNAMIC/STATIC INCOMPATIBLE
		.... 1.11		DDRIVOLI	"X'0B'" DASD TO DEVICE DOES NOT HAVE MATCHING VOLSER
		.... 11..		DDRIIOA	"X'0C'" DASD FROM DEVICE HAS NOT BEEN QUIESCED VIA IOACTION COMMAND
		.... 11.1		DDRIOPD	"X'0D'" CANNOT SWAP TO AN ONLINE PERMANENTLY RESIDENT DASD DEVICE
		.... 111.		DDRIPAG	"X'0E'" CANNOT SWAP A DEVICE WITH AN ACTIVE PAGE DATASET
		 1111		DDRIDIGT	"X'0F'" CANNOT SWAP A 3-DIGIT UCB TO A 4-DIGIT UCB OR VICE VERSA
67	(43)	BITSTRING	1	DDRINV2	VALIDATE'S PARM FIELD
		1		DDRVFM	"X'01'" VALIDATE FROM DEVICE
		.... ..1.		DDRVCM	"X'02'" VALIDATE TO DEVICE
		11		DDRVUS	"X'03'" USER IS AVAILABLE
68	(44)	BITSTRING	2	DDRAPP (0)	APPENDAGE PARM FIELDS
68	(44)	BITSTRING	1	DDRAPP1	APPENDAGE PARM LIST 1
69	(45)	BITSTRING	1	DDRAPP2	APPENDAGE PARM LIST 2
70	(46)	BITSTRING	2	DDRIBUFL	I/O BUFFER LENGTH
72	(48)	BITSTRING	4	DDRIBUF	I/O BUFFER ADDRESS
76	(4C)	BITSTRING	4	DDRCOUNT	I/O OPERATION REPEAT COUNT
80	(50)	BITSTRING	2	DDRIOF (0)	I/O PARM FLAGS
80	(50)	BITSTRING	1	DDRIOF1	I/O PARM FLAGS FIELD 1
		.... ..1.		DDRREAD	"X'02'" ISSUE A READ COMMAND
		 1111		DDRRUN	"X'0F'" ISSUE A REWIND AND RELOAD COMMAND
		.... 11..		DDRRDBK	"X'0C'" ISSUE A READ BACKWARDS COMMAND
		1.1. .1..		DDRXA4	"X'A4'" ISSUE A READ AND RESET BUFFERED LOG COMMAND
		..1. 1111		DDRBSF	"X'2F'" ISSUE A BACKWARD SPACE FILE COMMAND
		..11 1111		DDRFSF	"X'3F'" ISSUE A FORWARD SPACE FILE COMMAND
		11		DDRNOP	"X'03'" ISSUE A NOP COMMAND
		.... .1..		DDRSNS	"X'04'" ISSUE A SENSE COMMAND
		1		DDRLOAD	"X'01'" LIBRARY MOUNT SUBCOMMAND OF PERFORM LIBRARY FUNCTION
81	(51)	BITSTRING	1	DDRIOF2	I/O PARM FLAGS FIELD 2
		1...		DDRWHICH	"X'80'" I/O TO BE PERFORMED
		.1..		DDRITAKE	"X'40'" GET/RELEASE CONTROL
		..1.		DDRILAB	"X'20'" LABEL PROCESSING
		...1		DDRIMNT	"X'10'" MOUNT REQUEST
		.... 1...		DDRICNT	"X'08'" COUNT FIELD INDICATOR
		.... .1..		DDRTCNTL	"X'04'" NOP BEING USED TO TAKE CONTROL OF DEVICE
		.... ..1.		DDR@WAIT	"X'02'" IGFDM1 at SVC 1 waiting on STARTIO.
82	(52)	BITSTRING	2	DDRMSG (0)	MESSAGE PARM FLAGS
82	(52)	BITSTRING	1	DDRMSGOP	OPERATOR RESPONSE
		1		DDRWTOR	"X'01'" ISSUE WTOR MESSAGE
		.... ..1.		DDRYES	"X'02'" YES REPLY
		11		DDRNO	"X'03'" NO REPLY

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		.... .1..		DDRCUA	"X'04'" CUA REPLY
83	(53)	BITSTRING	1	DDRMSGCD	MESSAGE NUMBER CODE
		1		DDRM500I	"X'01'" ISSUE IGF500I MESSAGE
		.... ..1.		DDRM500D	"X'02'" ISSUE IGF500D MESSAGE
		11		DDRM502E	"X'03'" ISSUE IGF502E MESSAGE
		.... .1..		DDRM503I	"X'04'" ISSUE IGF503I MESSAGE
		.... .1.1		DDRM505I	"X'05'" ISSUE IGF505I MESSAGE
		.... .11.		DDRM509I	"X'06'" ISSUE IGF509I MESSAGE
		.... .111		DDRM509D	"X'07'" ISSUE IGF509D MESSAGE
		.... 1...		DDRM511A	"X'08'" ISSUE IGF511A MESSAGE
		.... 1..1		DDRM512I	"X'09'" ISSUE IGF512I MESSAGE
		.... 1.1.		DDRM513I	"X'0A'" ISSUE IGF513I MESSAGE
		.... 1.11		DDRM515I	"X'0B'" ISSUE IGF515I MESSAGE
		.... 11..		DDRM514I	"X'0C'" ISSUE IGF514I MESSAGE
		.... 11.1		DDRM501I	"X'0D'" ISSUE IGF501I MESSAGE
		.... 111.		DDRM516I	"X'0E'" ISSUE IGF516I MESSAGE
		 1111		DDRM517I	"X'0F'" ISSUE IGF517I MESSAGE
		...1		DDRM518I	"X'10'" ISSUE IGF518I MESSAGE
		...1 ...1		DDRM519I	"X'11'" ISSUE IGF519I MESSAGE
84	(54)	BITSTRING	8	DDRMSGP (0)	MESSAGE CODES
84	(54)	BITSTRING	1	DDRMSGPN	NUMBER OF MESSAGE CODES
85	(55)	BITSTRING	7	DDRMSGPC	(0-7) MESSAGE CODES
		1		DDRPNO	"X'01'" COMPRESS FIELD
		.... ..1.		DDRPFM	"X'02'" FROM CUA
		11		DDRPTO	"X'03'" TO CUA
		.... .1..		DDRPVL	"X'04'" VOLUME SERIAL NUMBER
		.... .1.1		DDRPLT	"X'05'" LABEL TYPE
		.... .11.		DDRPSN	"X'06'" VOLUME SEQUENCE NUMBER
		.... .111		DDRPTM	"X'07'" TERMINATION CODE
		.... 1...		DDRLIB	"X'08'" OBTAIN LIBRARY NAME OF TAPE DRIVE
		.... 1..1		DDRPIC	"X'09'" INVALID CONDITION CODE
		.... 1.1.		DDRPDV	"X'0A'" DEVICE-CHARACTER STRING
		.... 1.11		DDRPRC	"X'0B'" REASON CODE
92	(5C)	BITSTRING	1	DDRLABEL	TAPE FROM LABEL TYPE
		1...		DDRLAL	"X'80'" ANSI LABEL
		.1..		DDRLBLP	"X'40'" BYPASS LABEL PROCESSING
		..1.		DDRLNL	"X'20'" NO LABEL
		...1		DDRLNSL	"X'10'" NON-STANDARD LABEL
		.... 1...		DDRLSD	"X'08'" STANDARD LABEL
		1		DDRLNOP	"X'01'" NO POSITIONING AND TAPE READING
93	(5D)	BITSTRING	1	DDRRETRY	IGFDM0 RETRY COUNT
94	(5E)	BITSTRING	2	DDRREC (0)	RECORDER PARM FIELDS
94	(5E)	BITSTRING	1	DDRREC1	RECORDER FLAGS
		1		DDRRECON	"X'01'" WRITE DDR RECORD
		.... ..1.		DDRR91	"X'02'" ISSUE SVC 91
		11		DDRRBLF	"X'03'" BUFFERED LOG TO BE READ/RESET AND RECORDED
95	(5F)	BITSTRING	1	DDRREC2	RECORDER PARM LIST
		1...		DDRRFMTO	"X'80'" (0=TO,1=FROM) RECORD
96	(60)	BITSTRING	4	DDRUSER (0)	USER FIELDS YM04069
96	(60)	BITSTRING	1	DDRUMODE	USER MODE YM04069
97	(61)	BITSTRING	3	DDRURESV	RESERVED YM04069
100	(64)	BITSTRING	4	DDRUBCNT	USER BLOCK COUNT YM04069
104	(68)	BITSTRING	4	DDRSSOB	ADDRESS OF SSOB Y02BKCI
108	(6C)	ADDRESS	4	DDREXITI	ADDRESS OF DDREXIT INFORMATION CONTROL BLOCK
112	(70)	BITSTRING	4	DDRWTOWD (0)	WTO ID WORD
112	(70)	BITSTRING	1	DDRWTO1	FIRST BYTE OF WTO ID WORD, USED BY DDR WHEN DOING CS WITH UCBWTOID
113	(71)	BITSTRING	3	DDRWTOID	WTO ID (SAVED FOR MESSAGES WHICH MUST BE DOM'D
116	(74)	BITSTRING	1	DDRRSV	RESERVED
117	(75)	BITSTRING	1	DDRFLAGS	MISC FLAGS
		1...		DDRINTER	"X'80'" INTERCEPT INDICATOR
		.1..		DDRIOA	"X'40'" 'FROM' DEVICE QUIESCED BY IOACTION
		..1.		DDRPDASV	"X'20'" PDASoption was found on the SWAP command.

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		...1		DDRFXBND	"X'10'" UCBXNBND status for FROM UCB
		.... 1...		DDRTXBND	"X'08'" UCBXNBND status for TO UCB X'04' (RESERVED) X'02' (RESERVED) X'01' (RESERVED)
118	(76)	BITSTRING	2	DDRERRCD	ERROR CODE FOR CURRENTLY MOUNTED VOLUME
120	(78)	BITSTRING	4	DDRMBTKN	Address of message buffer token for Console Services message buffer
124	(7C)	BITSTRING	4	DDRFTPTS (0)	DDR FOOTPRINTS
124	(7C)	BITSTRING	1	DDRFTPT1	FIRST FOOTPRINT BYTE
125	(7D)	BITSTRING	1	DDRFTPT2	SECOND FOOTPRINT BYTE
126	(7E)	BITSTRING	1	DDRFTPT3	THIRD FOOTPRINT BYTE
		1...		DDRDW0IN	"X'80'" DW0 RECEIVED CONTROL
		.1..		DDRIOSIN	"X'40'" IOSSWAP ABOUT TO BE ISSUED
		..1.		DDRIOSOT	"X'20'" RETURN FROM IOSSWAP
		...1		DDRJES3C	"X'10'" THE FINAL SSI CALL TO JES3 SIGNALING SWAP COMPLETE HAS BEEN ISSUED
		.... 1...		DDRSCHED	"X'08'" THE SRB ASSOCIATED WITH THE I/O REQUEST HAS BEEN SCHEDULED.
127	(7F)	BITSTRING	1	DDRFTPT4	FOURTH FOOTPRINT BYTE
128	(80)	BITSTRING	16	DDRSERVE	FIELD RESERVED FOR SERVICEABILITY USE
144	(90)	SIGNED	4	DDRCONID	Four byte console ID.
148	(94)	CHARACTER	8	DDRCART	Command And Response Token.
156	(9C)	CHARACTER	4	DDRLTKN	TOKEN RETURNED BY LACS SERVICE
160	(A0)	CHARACTER	8	DDRFMPT	FROM UCB Pin Token
168	(A8)	CHARACTER	8	DDRTOPT	TO UCB Pin Token
176	(B0)	BITSTRING	4	DDRORIGF	ADDR. OF PRE-SWAP 'FROM' UCB
180	(B4)	BITSTRING	4	DDRORIGT	ADDR. OF PRE-SWAP 'TO' UCB
184	(B8)	BITSTRING	4	DDRASUCB	ADDR. OF ALLOCATION-SERIALIZED UCB
188	(BC)	BITSTRING	4	DDRASIM	ADDRESS OF ASIM USED FOR IOACTION PROCESSING FOR SHARED DASD
192	(C0)	BITSTRING	2	DDRASIML	ASIM LENGTH
194	(C2)	CHARACTER	1	DDRPDAS	Value of PDASoption (when DDRFLAGS.DDRPDASV is on)
195	(C3)	BITSTRING	1		RESERVED
196	(C4)	BITSTRING	40	DDREXPAN	RESERVED FOR EXPANSION
236	(EC)	SIGNED	4	DDRCEND (0)	END DDRCOM ON WORD BOUNDARY. SRB FOLLOWS IN GETMAIN AREA.

DDRCOM Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
DDR@WAIT	51	2	DDRERRCD	76	
DDRACTV	9	80	DDREXITI	6C	
DDRAPP	44		DDREXPAN	C4	
DDRAPP1	44		DDRFIRST	24	1
DDRAPP2	45		DDRFLAGS	75	
DDRASID	26		DDRFMCUA	15	
DDRASIM	BC		DDRFMNAM	14	
DDRASIML	C0		DDRFMPT	A0	
DDRASUCB	B8		DDRFMUCB	20	
DDRBSF	50	2F	DDRFSF	50	3F
DDRBUFL	B	80	DDRFTPTS	7C	
DDRBYPTM	9	2	DDRFTPT1	7C	
DDRCART	94		DDRFTPT2	7D	
DDRCEND	EC		DDRFTPT3	7E	
DDRCNTRL	8		DDRFTPT4	7F	
DDRCOM	0		DDRFXBND	75	10
DDRCONID	90		DDRHAMA	9	20
DDRCOUNT	4C		DDRIBUF	48	
DDRCUA	52	4	DDRIBUFL	46	
DDRDA	B	40	DDRICNT	51	8
DDRDCHAR	A		DDRID	0	
DDRDEN	24	4	DDRIDIGT	42	F
DDRDSTAT	B		DDRIDT	42	7
DDRDW0IN	7E	80	DDRIDYST	42	A

Name	Hex Offset	Hex Value
DDRIIN	42	4
DDRIIOA	42	C
DDRIJ3	42	8
DDRILAB	51	20
DDRIMNT	51	10
DDRIMP	42	1
DDRINA	42	6
DDRINO	42	5
DDRINS	42	3
DDRINTER	75	80
DDRINV	42	
DDRINV1	42	
DDRINV2	43	
DDRIOA	75	40
DDRIOF	50	
DDRIOF1	50	
DDRIOF2	51	
DDRIONL	42	9
DDRIOPD	42	D
DDRIOSIN	7E	40
DDRIOSOT	7E	20
DDRIPAG	42	E
DDRITAKE	51	40
DDRIUF	42	2
DDRIVOLI	42	B
DDRJES3C	7E	10
DDRJES3L	24	2
DDRLABEL	5C	
DDRLAL	5C	80
DDRLBLP	5C	40
DDRLEVEL	25	
DDRLIB	55	8
DDRLNL	5C	20
DDRLNOP	5C	1
DDRLNSL	5C	10
DDRLOAD	50	1
DDRLSD	5C	8
DDRLTKN	9C	
DDRMBTKN	78	
DDRMDR	A	
DDRMSG	52	
DDRMSGCD	53	
DDRMSGOP	52	
DDRMSGP	54	
DDRMSGPC	55	
DDRMSGPN	54	
DDRMT	B	20
DDRMTEND	B	2
DDRM500D	53	2
DDRM500I	53	1
DDRM501I	53	D
DDRM502E	53	3
DDRM503I	53	4
DDRM505I	53	5
DDRM509D	53	7
DDRM509I	53	6
DDRM511A	53	8
DDRM512I	53	9
DDRM513I	53	A
DDRM514I	53	C
DDRM515I	53	B
DDRM516I	53	E
DDRM517I	53	F
DDRM518I	53	10
DDRM519I	53	11

Name	Hex Offset	Hex Value
DDRNO	52	3
DDRNOP	50	3
DDRNXT	4	
DDROPER	8	80
DDRORIGF	B0	
DDRORIGT	B4	
DDRPAGE	8	20
DDRPDAS	C2	
DDRPDASV	75	20
DDRPDV	55	A
DDRPFM	55	2
DDRPIC	55	9
DDRPLT	55	5
DDRPNO	55	1
DDRPRC	55	B
DDRPRG	9	8
DDRPSN	55	6
DDRPTM	55	7
DDRPTO	55	3
DDRPVL	55	4
DDRQUE	9	40
DDRRBLF	5E	3
DDRRCYLE	B	8
DDRRDBK	50	C
DDRRDENQ	24	20
DDRREAD	50	2
DDRREC	5E	
DDRRECON	5E	1
DDRREC1	5E	
DDRREC2	5F	
DDRRETRY	5D	
DDRRFMTO	5F	80
DDRRMV	9	10
DDRROWN	24	
DDRRSV	74	
DDRRTENQ	24	80
DDRRUENQ	24	40
DDRRUN	50	F
DDRRYENQ	24	10
DDRR91	5E	2
DDRSCHED	7E	8
DDRSERVE	80	
DDRSIRB	9	4
DDRSNS	50	4
DDRSRC	8	
DDRSSOB	68	
DDRSTAT	9	
DDRSYS	8	40
DDRTAIP	40	C
DDRTBR	40	4
DDRTCE	40	7
DDRTCNTL	51	4
DDRTCO	40	5
DDRTCU	40	9
DDRTEP	40	2
DDRTER	40	
DDRTER1	40	
DDRTER2	41	
DDRTEST	3C	
DDRTEXC	40	B
DDRTID	40	8
DDRTIOA	40	11
DDRTIU	40	6
DDRTJE	40	A
DDRTLF	40	10

Name	Hex Offset	Hex Value
DDRTMSG	40	FF
DDRTNF	40	1
DDRTOC	40	3
DDRTOCUA	19	
DDRTONAM	18	
DDRTOPT	A8	
DDRTOUCB	1C	
DDRTRD	40	E
DDRTREP	40	D
DDRTRPOS	B	4
DDRTRR	40	F
DDRTXBND	75	8
DDRUASCB	38	
DDRUASID	10	
DDRUBCNT	64	
DDRUDCB	28	
DDRUDEB	2C	
DDRUIOB	30	
DDRUIOSB	C	
DDRUMODE	60	
DDRUR	B	10
DDRURESV	61	
DDRUSER	60	
DDRUTCB	34	
DDRVCM	43	2
DDRVFM	43	1
DDRVUS	43	3
DDRWHICH	51	80
DDRWTOID	71	
DDRWTOR	52	1
DDRWTOWD	70	
DDRWTO1	70	
DDRXA4	50	A4
DDRYES	52	2

DDT Heading Information

Common Name: IECDDT Device Descriptor Table Mapping
Macro ID: IECDDT
DSECT Name: DDT
Owning Component: I/O Supervisor (SC1C3)
Eye-Catcher ID: DDT
Offset: 0
Length: 4
Storage Attributes: Subpool: 245
Key: 0
Data Space: N/A
Residency: N/A
Size: 76-bytes
Created by: N/A
Pointed to by: The UCBDDT field of the UCB data area
Serialization: None
Function: Maps the fields of a DDT pointed to by a UCB

Notes: The DDT is a logical extension of the UCB. It is a variable length list of entries that correspond to device dependent routines or tables which reside in either the Nucleus or Link Pack Area (LPA). A Device Descriptor Table (DDT) will be pointed to by all UCBs that describe the same device type.

DDT Map

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	76	DDT	
0	(0)	CHARACTER	4	DDTNAME	Character ID (DDT) and a blank
4	(4)	BITSTRING	1	DDTFL1	Flag byte
		1...		DDTLPAIN	LPA addresses in the DDT are initialized.
		.111 1111		*	Reserved
5	(5)	UNSIGNED	1	DDTRSVD2	Reserved
6	(6)	CHARACTER	2	DDTRSVD1	Reserved

Comment

Validity bit map - With bit set, indicates that the corressponding 4 byte field exists in the DDT.
For those fields marked as required, the contents of the field is valid in that it contains a valid address or pointer.
For those fields not marked as required DDT fields, the field needs to be checked to determine if the field is non-zero.

End of Comment

8	(8)	CHARACTER	4	DDTVALBM	Validity bit map
8	(8)	BITSTRING	1	DDTVALB1	Bit map byte 1
		1...		DDTVSIO	SIO TRAP is valid (Required)
		.1..		DDTVTRAP	TRAP EXIT is valid (Required)
		..1.		DDTVUNIN	Unsolicited Interrupt exit is valid
		...1		DDTVSENS	Sense exit is valid
		.... 1...		DDTVEOS	End-of-sense exit is valid
		.... .1..		DDTVTCCW	CCW table entry is valid (Required)
		.... ..1.		DDTVERPM	ERP Message write exit is valid (Required)
		1		DDTVMIH	MIH exit entry is valid
9	(9)	BITSTRING	1	DDTVALB2	Bit map byte 2

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DDT Cross Reference

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		1...		DDTVERAS	Erase exit is valid
		.1..		DDTVDSE	Device service exit valid.
		..1.		DDTVDDR	DDR exit is valid
		...1		DDTVCPS	Channel program scan exit is valid (EXCP processor use only)
		.... 1...		DDTVOPEN	Subsystem name for OPEN is valid
		.... .111		*	Reserved
10	(A)	BITSTRING	1	DDTVALB3	Bit map byte 3
11	(B)	BITSTRING	1	DDTVALB4	Bit map byte 4
12	(C)	CHARACTER	4	DDTLPABM	LPA Bit map
12	(C)	BITSTRING	1	DDTLPAB1	LPA bit map byte 1
		1111 11..		*	Reserved
		.... ..1.		DDTLPERP	ERP message writer entry contains a module suffix instead of an addr.
		1		*	Reserved
13	(D)	BITSTRING	1	DDTLPAB2	LPA bit map byte 2
		11..		*	Reserved
		..1.		DDTLPDDR	DDR exit entry contains a 4 character suffix instead of an address
		...1 1111		*	Reserved
14	(E)	BITSTRING	1	DDTLPAB3	LPA bit map byte 3
15	(F)	BITSTRING	1	DDTLPAB4	LPA bit map byte 4
16	(10)	CHARACTER	4	DDTLPAPF	Four character prefix concatenated with four character suffix to build LPA module names.

Comment

Start of the DDT entries

End of Comment

20	(14)	CHARACTER	56	DDTENTRY	Start of DDT entries
20	(14)	ADDRESS	4	DDTSIO	SIO exit address (Required)
24	(18)	ADDRESS	4	DDTTRAP	TRAP code exit address (Required)
28	(1C)	ADDRESS	4	DDTUNIN	Unsolicited interrupt exit address
32	(20)	ADDRESS	4	DDTSENSE	Sense routine exit address
36	(24)	ADDRESS	4	DDTEOS	End-Of-Sense exit address
40	(28)	ADDRESS	4	DDTTCCW	TCCW OP table address (Required)
44	(2C)	ADDRESS	4	DDTERPMS	ERP message writer exit ID(required)
48	(30)	ADDRESS	4	DDTMIH	MIH exit address
52	(34)	ADDRESS	4	DDTERASE	Erase Exit Address
56	(38)	ADDRESS	4	DDTDSE	Device service exit address.
60	(3C)	ADDRESS	4	DDTDDR	DDR exit ID or address
64	(40)	ADDRESS	4	DDTCPS	Channel Program Scan exit address
68	(44)	CHARACTER	4	DDTOPEN	Subsystem name for OPEN
72	(48)	ADDRESS	4	DDTRERPA	Resident ERP address or zero.

DDT Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
DDT	0		DDTLPAPF	10	
DDTCPS	40		DDTLPDDR	D	20
DDTDDR	3C		DDTLPERP	C	02
DDTDSE	38		DDTMIH	30	
DDTENTRY	14		DDTNAME	0	
DDTEOS	24		DDTOPEN	44	
DDTERASE	34		DDTRERPA	48	
DDTERPMS	2C		DDTRSVD1	6	
DDTFL1	4		DDTRSVD2	5	
DDTLPABM	C		DDTSENSE	20	
DDTLPAB1	C		DDTSIO	14	
DDTLPAB2	D		DDTTCCW	28	
DDTLPAB3	E		DDTTRAP	18	
DDTLPAB4	F		DDTUNIN	1C	
DDTLPAIN	4	80	DDTVALBM	8	

Name	Hex Offset	Hex Value
DDTVALB1	8	
DDTVALB2	9	
DDTVALB3	A	
DDTVALB4	B	
DDTVCPS	9	10
DDTVDDR	9	20
DDTVDSE	9	40
DDTVEOS	8	08
DDTVERAS	9	80
DDTVERPM	8	02
DDTVMIH	8	01
DDTVOPEN	9	08
DDTVSENS	8	10
DDTVSIO	8	80
DDTVTCCW	8	04
DDTVTRAP	8	40
DDTVUNIN	8	20

DEIB Heading Information

Common Name: Data Set Extent Informarion Block
Macro ID: ILRDEIB
DSECT Name: DEIB
Owning Component: Auxiliary Storage Manager (SC1CW)
Eye-Catcher ID: DEIB
Offset: 0
Length: 4
Storage Attributes: Virtual Storage: YES
Subpool: 245
Key: 0
Data Space: NO
Residency: Above 16 Megabytes virtual
Size: Header is 8 bytes plus one 12 byte entry for each data set extent
Created by: ILROPS00
Pointed to by: PAREDEIB field of the PART entry.
Serialization: None
Function: Describes the starting and ending cylinders for eac extent of a page data set.

DEIB Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	*	DEIB	
0	(0)	CHARACTER	8	DEIBHDR	Header information for all entries
0	(0)	CHARACTER	4	DEIBID	DEIB identifier 'DEIB'
4	(4)	SIGNED	2	DEINO	Number of extents in data set
6	(6)	SIGNED	2	DEILEN	Length of entry to map an extent
8	(8)	CHARACTER	12	DEIENTS (*)	Entry to define each extent of a data set

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	12	DEIENT	DEIB entry
0	(0)	SIGNED	4	DEISTCYL	Actual starting cylinder number for this extent
4	(4)	SIGNED	4	DEILOCYL	Relative cylinder for beginning of this extent
8	(8)	SIGNED	4	DEIHICYL	Relative cylinder for end of this extent

DEIB Cross Reference

Name	Hex Offset	Hex Value
DEIB	0	
DEIBHDR	0	
DEIBID	0	
DEIENT	0	
DEIENTS	8	
DEIHICYL	8	
DEILEN	6	
DEILOCYL	4	
DEINO	4	
DEISTCYL	0	

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DFE Heading Information

Common Name: VSM Double Free Element
Macro ID: IHADFE
DSECT Name: DFE
Owning Component: Virtual Storage Manager (SC1CH)
Eye-Catcher ID: None
Storage Attributes: Subpool: 245 or 255
Key: 0
Residency: Above 16M line
Size: 24 bytes
Created by: IGVADFE, IGVBDFE, IGVGCAS, IEAIPL04
Pointed to by: AQATDFE, SQATDFE, DFEANEXT, DFEAPREV, DFESNEXT, DFESPREV
Serialization: VSMFIX lock for global subpools
LOCAL lock for private area subpools
Function: Describes SQA and LSQA free area within pages allocated to a subpool.

DFE Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	24	DFE	DOUBLE FREE ELEMENT
0	(0)	ADDRESS	4	DFEANEXT	ADDRESS OF NEXT DFE ON ADDRESS QUEUE
4	(4)	ADDRESS	4	DFEAPREV	ADDRESS OF PREVIOUS DFE ON ADDRESS QUEUE
8	(8)	ADDRESS	4	DFESNEXT	ADDRESS OF NEXT DFE ON SIZE QUEUE
12	(C)	ADDRESS	4	DFESPREV	ADDRESS OF PREVIOUS DFE ON SIZE QUEUE
16	(10)	ADDRESS	4	DFEAREA	ADDRESS OF FREE AREA
20	(14)	UNSIGNED	4	DFESIZE	SIZE OF FREE AREA

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DFLM Heading Information

Common Name: DAE OPTIONS
Macro ID: ADYDFLM
DSECT Name: DFLM
Owning Component: DUMP ANALYSIS AND ELIMINATION (SC143)
Eye-Catcher ID: DFL
Offset: 0
Length: 3
Storage Attributes: Subpool: 239
Key: 0
Residency: BELOW,ANYWHERE
Size: LENGTH(DFLM)
Created by: IEAVTSDI
Pointed to by: DSCDFL
Serialization: NONE
Function: Maps the current values for the DAE operations. The current values are a result of the DAE default values found in module ADYDFLT and the options specified by the most recent SET DAE=xx operator command.

DFLM Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	196	DFLM	DAE DEFAULT DATA AREA
0	(0)	CHARACTER	4	DFLID	MACRO ID
0	(0)	CHARACTER	3	DFLDFL	ACRONYM 'DFL'
3	(3)	CHARACTER	1	DFLVSD	VERSION NUMBER
4	(4)	CHARACTER	8	DFLPLMEM	LAST SYS1.PARMLIB MEMBER SUCCESSFULLY PROCESSED FOR A SET DAE COMMAND.
12	(C)	CHARACTER	84	DFLCRIT	CRITERIA FOR SYMPTOM STRING TO BE CONSIDERED AS A UNIQUE IDENTIFIER BY DAE
12	(C)	SIGNED	2	DFLSCNT	MINIMUM NUMBER OF SYMPTOM KEYWORDS
14	(E)	SIGNED	2	DFLSLN	MINIMUM SYMPTOM STRING LENGTH
16	(10)	CHARACTER	40	DFLREQ	KEYS OF SPECIFIC SYMPTOMS REQUIRED FOR MATCHING - EACH TWO BYTES DEFINES A KEY
16	(10)	CHARACTER	2	DFLREQA (20)	ARRAY CONTAINING ONE REQUIRED KEY PER ENTRY
56	(38)	CHARACTER	40	DFLOPT	OPTIONAL KEYS FOR MATCHING - EACH TWO BYTES DEFINES A KEY WHICH IS OPTIONAL FOR MATCHING
56	(38)	CHARACTER	2	DFLOPTA (20)	ARRAY CONTAINING ONE OPTIONAL KEY PER ENTRY
96	(60)	CHARACTER	44	DFLDSN	NAME OF THE DATA SET CONTAINING THE DAE PROBLEM RECORDS.
140	(8C)	SIGNED	4	DFLEXPIR	EXPIRATION PERIOD IN DAYS FOR RECORDS IN THE DAE DATASET. IF THE DATE WHEN DAE IS STARTED IS MORE THAN THIS PERIOD AFTER THE LAST OCCURRENCE DATE, THEN THE RECORD WILL BE IGNORED.
144	(90)	SIGNED	4	DFLRECNO	MAXIMUM SIZE TO WHICH THE SYMPTON QUEUE WILL BE ALLOWED TO GROW. RECORD(NN). THIS WILL BE ROUNDED UP TO A MULTIPLE OF THE CPOOL BLKSIZE.
148	(94)	CHARACTER	8	DFLOFLAG	DAE OPTION FLAGS
148	(94)	BITSTRING	1	DFLDAEO	OPTIONS FOR DAE KEYWORDS WHICH DO NOT HAVE FLAGS FOR THE SUBPARAMETERS
		1...		DFLSTRT	START
		.1..		DFLSTOP	STOP
		..1.		DFLSHR	SHARED DAE DATA SET
		...1		DFLDSNS	DATASET NAME SPECIFIED
		.... 1...		DFLGSTP	GLOBALSTOP SPECIFIED

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DFLM Constants

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		.... .1..		DFLSHRO	SHARE OPTIONS
149	(95)	BITSTRING	2	DFLDOPT	DUMP OPTIONS WHICH ARE SHARED IN THE SYSPLEX.
149	(95)	BITSTRING	1	DFLSVC	OPTIONS FOR THE SVCDUMP KEYWORD
		1...		DFLSVCM	SVCDUMP(MATCH)
		.1..		DFLSVCS	SVCDUMP(SUPPRESS)
		..1.		DFLSVCU	SVCDUMP(UPDATE)
		...1		DFLSVCA	SVCDUMP(SUPPRESSALL)
150	(96)	BITSTRING	1	DFLSYSM	OPTIONS FOR THE SYSMDUMP KEYWORD
		1...		DFLSYSMM	SYSMDUMP(MATCH)
		.1..		DFLSYSMS	SYSMDUMP(SUPPRESS)
		..1.		DFLSYSMU	SYSMDUMP(UPDATE)
		...1		DFLSYSMA	SYSMDUMP(SUPPRESSALL)
151	(97)	BITSTRING	1	DFLGLB	OPTIONS FOR GLOBAL
		1...		DFLGLBD	GLOBAL(DSN)
		.1..		DFLGLBO	GLOBAL(OPTIONS)
152	(98)	CHARACTER	4	*	RESERVED FOR FUTURE OPTION FLAGS
156	(9C)	UNSIGNED	4	DFLNOTIF	NOTIFY VALUES
156	(9C)	SIGNED	2	DFLNOTDN	NOTIFY DUMP NUMBER
158	(9E)	SIGNED	2	DFLNOTTM	NOTIFY TIME VALUE
160	(A0)	CHARACTER	2	DFLSUFF	Sysplex ADYSETxx suffix
162	(A2)	CHARACTER	34	DFLRSVD1	RESERVED

DFLM Constants

Len	Type	Value	Name	Description
4	CHARACTER	DFL1	DFLVSNC	NAME AND VERSION NUMBER VALUE TO BE PLACED IN DFLID WHEN THIS DATAAREA IS CREATED.
4	DECIMAL	5	DFLSMINC	MINIMUM VALUE ALLOWED FOR DFLSCNT (NUMBER OF SYMPTOMS FOR UNIQUENESS)

Comment

NOTE: THE MAXIMUM NUMBER OF SYMPTOMS ALLOWED IS RESTRICTED BY THE IMPLEMENTAION OF FIELDS DFLREQA AND DFLOPTA.

End of Comment

4	DECIMAL	25	DFLSMINL	MINIMUM VALUE ALLOWED FOR DFLSLN (BYTES OF DATA FOR UNIQUENESS)

Comment

NOTE: THE MAXIMUM SYMPTOM STRING LENGTH ALLOWED IS RESTRICTED BY THE IMPLEMENTAION OF THE SYMPTOM QUEUE AND DATASET. SEE MAPPINGS ADYSYMP AND ADYSRCD.

End of Comment

4	DECIMAL	1	DFLRMIN	MINIMUM VALUE ALLOWED FOR DFLRECNO (RECORD KEYWORD)
4	DECIMAL	1	DFLEXMIN	MINIMUM VALUE ALLOWED FOR DFLEXPIR (EXPIRATION OF ERROR RECORD IN DAE DATASET)
4	DECIMAL	50	DFLSMAXL	MAXIMUM LENGTH ALLOWED FOR ANY SINGLE MVS SYMPTOM (KEYWORD PLUS DATA). THIS IS DONE TO PREVENT A SINGLE SYMPTOM FROM USING UP THE ENTIRE SYMPTOM STRING.
4	DECIMAL	15	DFLSMXRL	MAXIMUM LENGTH ALLOWED FOR ANY SINGLE RETAIN SYMPTOM (KEYWORD PLUS DATA). THIS IS A RETAIN DATA BASE RESTRICTION.

DFLM Cross Reference

Name	Hex Offset	Hex Value
DFLCRIT	C	
DFLDAEO	94	
DFLDFL	0	
DFLDOPT	95	
DFLDSN	60	
DFLDSNS	94	10
DFLEXPIR	8C	
DFLGLB	97	
DFLGLBD	97	80
DFLGLBO	97	40
DFLGSTP	94	08
DFLID	0	
DFLM	0	
DFLNOTDN	9C	
DFLNOTIF	9C	
DFLNOTTM	9E	
DFLOFLAG	94	
DFLOPT	38	
DFLOPTA	38	
DFLPLMEM	4	
DFLRECNO	90	
DFLREQ	10	
DFLREQA	10	
DFLRSVD1	A2	
DFLSCNT	C	
DFLSHR	94	20
DFLSHRO	94	04
DFLSLN	E	
DFLSTOP	94	40
DFLSTRT	94	80
DFLSUFF	A0	
DFLSVC	95	
DFLSVCA	95	10
DFLSVCM	95	80
DFLSVCS	95	40
DFLSVCU	95	20
DFLSYSM	96	
DFLSYSMA	96	10
DFLSYSMM	96	80
DFLSYSMS	96	40
DFLSYSMU	96	20
DFLVSD	3	

DMDT Heading Information

Common Name: Domain Table Description
Macro ID: IRADMDT
DSECT Name: DMDT (unless DSECT=NO is coded)
Owning Component: System Resource Manager (SC1CX)
Eye-Catcher ID: DMDT
Offset: 'EC'x
Length: 4
Storage Attributes: Subpool: 245
Key: 0
Residency: Above 16M line
Size: 240 bytes (per domain or service class period)
Created by: IEEMB812, IEAVNP10, IRAMSCHG, IRAMSBLD, IRAMSBL2, IRAPATOP
Pointed to by: RMCTDMDT field of the RMCT data area
(OUCBDMO is used to get to a particular domain in compatibility mode)
DMDTNEXT field of the DMDT data area
DMDTPREV field of the DMDT data area
Serialization: SRM Lock
Function: The DMDT specifies the domains into which user transactions are divided, and for each domain, the constraints on its participation in the changing of the multi-system programming level and current domain control status.
The domain to be used for a transaction is indicated by the -WPGPDMN- field of the current period within the applicable performance group description.

DMDT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	256	DMDT	
0	(0)	UNSIGNED	1	DMDTNO	DOMAIN NUMBER
1	(1)	UNSIGNED	1	DMDTRSV0	RESERVED
2	(2)	SIGNED	2	DMDTMPLI	MPL IN TARGET
4	(4)	SIGNED	2	DMDTMPLO	MPL OUT TARGET
6	(6)	SIGNED	2	DMDTRSV1	Reserved
8	(8)	SIGNED	2	DMDTFITS	last FITS return code
10	(A)	SIGNED	2	DMDTCMPL	CURRENT MPL
12	(C)	SIGNED	2	DMDTOUTU	CURRENT # USERS ON OUT Q
14	(E)	SIGNED	2	DMDTINCU	CURRENT # SWAPPABLE INCORE USERS
16	(10)	SIGNED	4	DMDTRUC	ACCUMULATOR FOR READY USER AVERAGE
20	(14)	UNSIGNED	4	DMDTWMS	INTVL DMN SVCE ACCUM
24	(18)	UNSIGNED	4	DMDTTWSR	WEIGHTED INTVL DMN SVCE
28	(1C)	SIGNED	4	DMDTMTA1	maximum of in target and achieved accumulator, wlm mode only
32	(20)	UNSIGNED	2	DMDTCIDX	CONTENTION INDEX, srm mode only
34	(22)	SIGNED	2	DMDTNSW	CURRENT # NONSWAPPABLE IN USERS
36	(24)	SIGNED	2	DMDTRUMX	MAX # READY USERS IN INTERVAL
38	(26)	BITSTRING	1	DMDTFLGS	FLAG BYTE
		1...		DMDTRTO	RTO PERIOD IN THIS DMN
		.1..		DMDTASRV	ASRV SPECIFIED FOR THIS DOMAIN
		..1.		DMDTFXCI	FIXED CONTENTION INDEX SPECIFIED FOR THIS DOMAIN
		...1 1111		*	RESERVED
39	(27)	UNSIGNED	1	DMDTRSV3	RESERVED

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Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
40	(28)	SIGNED	4	DMDTTRNC	XACTN COUNT FOR RTO, srm mode only
40	(28)	UNSIGNED	4	DMDTRUC2	ready user accumulator for plotting, wlm mode only
44	(2C)	SIGNED	4	DMDTTRNT	ELAPSED TIME ACCUM FOR RTO, srm mode only
44	(2C)	UNSIGNED	4	DMDTMTA2	maximum of in target and achieved accumulator for plotting, wlm mode only
48	(30)	SIGNED	4	DMDTTWET	ELAPSED TIME AVG FOR RTO, srm mode only
48	(30)	UNSIGNED	4	DMDTINT1	in target accumulator, wlm mode only
52	(34)	SIGNED	2	DMDTLO	MIN MPL LEVEL, srm mode only
54	(36)	SIGNED	2	DMDTHI	MAX MPL LEVEL, srm mode only
56	(38)	SIGNED	4	DMDTASRL	LOW AVERAGE SERVICE RATE, srm mode only
56	(38)	UNSIGNED	4	DMDTACH1	mpl achieved accumulator, wlm mode only
60	(3C)	SIGNED	4	DMDTASRH	HIGH AVERAGE SERVICE RATE
64	(40)	SIGNED	4	DMDTDSRL	LOW TOTAL SERVICE RATE
68	(44)	SIGNED	4	DMDTDSRH	HIGH TOTAL SERVICE RATE
72	(48)	SIGNED	2	DMDTCRTI	ESTOR CRITERIA TABLE INDEX, srm mode only
74	(4A)	SIGNED	2	DMDTCRTR	REQUESTED CRITERIA TABLE INDEX
76	(4C)	SIGNED	2	DMDTRUMW	weighted ready user max, srm mode only
76	(4C)	SIGNED	2	DMDTLRUA	long term ready user average (*16), wlm mode only
78	(4E)	SIGNED	2	DMDTRSV2	Reserved
80	(50)	SIGNED	4	DMDTRUA	Average number of ready users to 1 hex place
84	(54)	SIGNED	4	DMDTASCT	number of spaces in period, wlm mode only.
88	(58)	SIGNED	4	DMDTASAC	accumulator for dmdtasav, wlm mode only. Includes enclaves
92	(5C)	SIGNED	4	DMDTASAV	average spaces in period * 256, wlm mode only. Includes enclaves
96	(60)	SIGNED	4	DMDTLASA	long term number of address spaces in period, wlm mode only Includes enclaves
100	(64)	SIGNED	4	DMDTRUC3	Accumulator for ready users (rm2 interval wlm mode only)
104	(68)	SIGNED	4	DMDTMTA3	maximum of in target and achieved (rm2 interval, wlm mode only)
108	(6C)	UNSIGNED	4	DMDTACH3	mpl achieved accumulator (rm2 interval, wlm mode only)
112	(70)	SIGNED	4	DMDTENCT	number of enclaves in period, wlm mode only
116	(74)	SIGNED	4	DMDTENC1	accumulator of DMDTENCT, wlm mode only
120	(78)	SIGNED	4	DMDTRSV5 (2)	Reserved
128	(80)	ADDRESS	4	DMDTNEXT	next dmdt address
132	(84)	ADDRESS	4	DMDTPREV	previous dmdt address
136	(88)	CHARACTER	100	DMDTWORK	Domain workarea for IRARMCAP and IRARMMON (Refer to mappings DMDTCAPW and DMDTMONW for details on the contents of the workareas)
236	(EC)	SIGNED	4	DMDTAOAC	accumulator for dmdtasct, wlm mode only, same as dmdtasac except enclaves not included
240	(F0)	SIGNED	4	DMDTAOAV	average spaces in period * 256, wlm mode only, same as dmdtasav except enclaves not included
244	(F4)	SIGNED	4	DMDTLOSA	long term number of address spaces in period, wlm mode only same as dmdtlasa except enclaves not included
248	(F8)	CHARACTER	4	DMDTRSV6	Reserved
252	(FC)	CHARACTER	4	DMDTNAME	Acronym
256	(100)	CHARACTER	0	DMDTEND	END OF DMDT End of this block

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
136	(88)	STRUCTURE	93	DMDTCAPW	
136	(88)	ADDRESS	4	DMDTCPI (10)	CPI list
176	(B0)	ADDRESS	4	DMDTCPO (10)	CPO list
216	(D8)	SIGNED	2	DMDTCPII	Index for CPI
218	(DA)	SIGNED	2	DMDTNUMI	Number of CPI entries
220	(DC)	SIGNED	2	DMDTCPOI	Index for CPO
222	(DE)	SIGNED	2	DMDTNUMO	Number of CPO entries
224	(E0)	SIGNED	2	DMDTSWPI	Number of swap-in candidates that have not been processed
226	(E2)	SIGNED	2	DMDTSWPO	Number of swap-out candidates that have not been processed
228	(E4)	BITSTRING	1	*	Flag fields
		1...		DMDTBLDI	Indicate CPI list was built
		.1..		DMDTBLDO	Indicate CPO list was built

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		..1.		DMDTSKPI	Skip indicator for CPI list
		...1		DMDTDONE	Used during Unilateral Swap-in Part 2. When on, there should be no other attempts to swap address spaces into this domain
		 1111		*	Reserved

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
136	(88)	STRUCTURE	82	DMDTMONW	Workarea mapping for IRARMMON and IRARMSTA during an RM2 invocation. The data described by this mapping should not be used outside an RM2 interval.
136	(88)	ADDRESS	4	DMDTROAP (20)	Table of swapped in WSM address space OUCB pointers in increasing workload manager recommendation value order. If the number of swapped in address spaces in the domain is greater than 20 then this table contains the top 10 address spaces with the lowest RV and the top 10 address spaces with the highest RV
216	(D8)	SIGNED	2	DMDTRONM	Number of address spaces in the DMDTROAP table.

DMDT Constants

Len	Type	Value	Name	Description
4	DECIMAL	256	DMDTLEN	

DMDT Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
DMDT	0		DMDTLO	34	
DMDTACH1	38		DMDTLOSA	F4	
DMDTACH3	6C		DMDTLRUA	4C	
DMDTAOAC	EC		DMDTMONW	88	
DMDTAOAV	F0		DMDTMPLI	2	
DMDTASAC	58		DMDTMPLO	4	
DMDTASAV	5C		DMDTMTA1	1C	
DMDTASCT	54		DMDTMTA2	2C	
DMDTASRH	3C		DMDTMTA3	68	
DMDTASRL	38		DMDTNAME	FC	
DMDTASRV	26	40	DMDTNEXT	80	
DMDTBLDI	E4	80	DMDTNO	0	
DMDTBLDO	E4	40	DMDTNSW	22	
DMDTCAPW	88		DMDTNUMI	DA	
DMDTCIDX	20		DMDTNUMO	DE	
DMDTCMPL	A		DMDTOUTU	C	
DMDTCPI	88		DMDTPREV	84	
DMDTCPII	D8		DMDTROAP	88	
DMDTCPO	B0		DMDTRONM	D8	
DMDTCPOI	DC		DMDTRSV0	1	
DMDTCRTI	48		DMDTRSV1	6	
DMDTCRTR	4A		DMDTRSV2	4E	
DMDTDONE	E4	10	DMDTRSV3	27	
DMDTDSRH	44		DMDTRSV5	78	
DMDTDSRL	40		DMDTRSV6	F8	
DMDTENCT	70		DMDTRTO	26	80
DMDTENC1	74		DMDTRUA	50	
DMDTEND	100		DMDTRUC	10	
DMDTFITS	8		DMDTRUC2	28	
DMDTFLGS	26		DMDTRUC3	64	
DMDTFXCI	26	20	DMDTRUMW	4C	
DMDTHI	36		DMDTRUMX	24	
DMDTINCU	E		DMDTSKPI	E4	20
DMDTINT1	30		DMDTSWPI	E0	
DMDTLASA	60		DMDTSWPO	E2	

DMDT Cross Reference

Name	Hex Offset	Hex Value
DMDTTRNC	28	
DMDTTRNT	2C	
DMDTTWET	30	
DMDTTWSR	18	
DMDTWMS	14	
DMDTWORK	88	

DOCNP Programming Interface Information

Programming Interface Information

DOCNP

End of Programming Interface Information

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DOCNP Heading Information

Common Name: Dynamic Output Installation Exit Parameter List
Macro ID: IEFDOCNP
DSECT Name: DOCNP
Owning Component: Dynamic Output (BB131)
Eye-Catcher ID: DOCN
Offset: 0
Length: 4
Storage Attributes: Subpool: 229
Key: 1
Residency: Any
Size: 32 bytes
Created by: Dynamic output
Pointed to by: On entry to the installation exit, register 1 points at a word which points at DOCNP.
Serialization: N/A
Function: Maps the fixed parameter list passed to IEFDOIXT, the dynamic output installation exit.

DOCNP Map

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	DOCNP	Dynamic Output parameter list
0	(0)	CHARACTER	4	DOCNID	Identifier 'DOCN'
4	(4)	BITSTRING	1	DOCNVERS	Version number
5	(5)	BITSTRING	1	DOCNFNC1	Function byte
		1...		DOCNNEW	"X'80'" Add a new output descriptor
		.1..		DOCNDEL	"X'40'" Delete an output descriptor
6	(6)	BITSTRING	2	DOCNLEN	Length of the parameter list
8	(8)	CHARACTER	8	DOCNNAME	Output descriptor name
16	(10)	SIGNED	4	DOCNTXTP	Pointer to text unit pointer list
20	(14)	BITSTRING	1	DOCNFNC2	Function byte
		1...		DOCNCENQ	"X'80'" Conditional ENQ requested Bits X'40' and X'20' are reserved for a special use. They are not intended for common use. Unless specifically documented otherwise, they should be zeroed on input to SVC 109. They should not be altered by the dynamic output installation exit.
21	(15)	CHARACTER	3	DOCNRSV0	Reserved for IBM
24	(18)	CHARACTER	4	DOCNRSV1	Reserved for IBM
28	(1C)	CHARACTER	4	DOCNRSV2	Reserved for IBM
28	(1C)	X'20'	0	DOCNEND	"*" End of the parameter list

DOCNP Cross Reference

Name	Hex Offset	Hex Value
DOCNCENQ	14	80
DOCNDEL	5	40
DOCNEND	1C	20
DOCNFNC1	5	
DOCNFNC2	14	
DOCNID	0	
DOCNLEN	6	
DOCNNAME	8	
DOCNNEW	5	80
DOCNP	0	
DOCNRSV0	15	
DOCNRSV1	18	
DOCNRSV2	1C	
DOCNTXTP	10	
DOCNVERS	4	

DOMC Programming Interface information

Programming Interface information

DOMC

End of Programming Interface information

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DOMC Heading Information

Common Name: DELETE-OPERATOR-MESSAGE CONTROL BLOCK
Macro ID: IHADOMC
DSECT Name: DOMCBASE
Owning Component: COMMUNICATION TASK (SC1CK)
Eye-Catcher ID: DOMC
Offset: 0
Length: 4
Storage Attributes: Subpool: 231
Key: 0
Residency: ANY
Size: 32 BYTES PLUS 4 BYTES PER MESSAGE ID
FOLLOWED BY A 28 BYTE TRAILER
Created by: IEAVXDOM, IEAVMED2, AND IEAVVRP2
Pointed to by: -ON THE DOM CHAIN POINTED TO BY FIELD
UCMDOME IN THE UCM.
-FIELD SSDMDMC2 OF THE SSDM
Serialization: LOCAL AND CMS LOCKS
Function: MAPS THE DATA AREA USED TO COMMUNICATE
DOM IDS, SYSID, TOKEN, ASID, TCB
BETWEEN THE REQUESTER OF DOM
AND THE COMMUNICATIONS TASK WHICH WILL
PERFORM THE DOM.

DOMC Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	DOMCBASE	, - START OF DOMC PASSED TO SUBSYSTEM (JBB2220)
0	(0)	CHARACTER	4	DOMCBID	ACRONYM: DOMC
4	(4)	ADDRESS	4	DOMCLNK	POINTER TO NEXT DOMC
8	(8)	ADDRESS	4	DOMCIDP	POINTER TO LIST OF DOM IDS
12	(C)	ADDRESS	4	DOMCTRP	POINTER TO DOMC TRAILER
16	(10)	SIGNED	2	DOMCTSIZ	TOTAL SIZE OF ALL PARTS OF DOMC
18	(12)	BITSTRING	1	DOMCFLG2	MISCELLANEOUS FLAGS #2
		1...		DOMCMARK	"BIT0" - DOM by ID DOMC held in real DOM queue in IEAVMDOM
		.1..		DOMCNORM	"BIT1" - Build a DOM(NORMAL) MDB
		..1.		DOMCWTOR	"BIT2" - This DOMC is for a WTOR
		...1		DOMCNH	"BIT3" - Do not hold this DOMC
		.... 1...		DOMCFORN	"BIT4" - DOMC came from another system
19	(13)	BITSTRING	1	DOMCRSV0	RESERVED
20	(14)	SIGNED	4	DOMCRSV1	RESERVED
20	(14)	X'18'	0	DOMC	"*" - START OF DOMC PASSED TO SUBSYSTEM (PRE-JBB2220)
24	(18)	BITSTRING	1	DOMCNTRL	- CONTROL FLAGS
		1...		DOMCDBTK	"BIT0" - DOM BY TOKEN, NO DOMCID FIELD EXISTS
		.1..		DOMCDBSY	"BIT1" - DOM BY SYSID, NO DOMCID FIELD EXISTS
		..1.		DOMCSEXT	"BIT2" - TAKE SSI EXIT FOR DOMCB
		...1		DOMCAUTH	"BIT3" - DOM ISSUED BY AUTHORIZED USER. NOT ON WHEN EITHER DOMCDBL OR DOMCDBAJ IS ON. MAY BE ON WHEN DOMCDBTK AND DOMCDBSY ARE ON. IF DOMCDBL AND DOMCBAJ AND DOMCDBTK AND DOMCDBSY ARE OFF, ALL MESSAGE IDS ARE VALID.
		.... 1...		DOMCDBAJ	"BIT4" - DOM BY ASID AND JOB STEP TCB ADDRESS, NO DOMCID FIELD EXISTS (OS/VS2) MDC004
		.... .1..		DOMCREIS	"BIT5" - CROSS SYSTEM DOM REISSUE TRANSPORTED BY JES3

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.... ..1.		DOMCDBL	"BIT6" - DOM BY ASID ONLY, NO DOMCID FIELDS EXITS
		1		DOMCPROC	"BIT7" - DOMC HAS BEEN PROCESSED
25	(19)	BITSTRING	1	DOMCVRSN	VERSION LEVEL
25	(19)	X'3'	0	DOMCVRID	"DOMCSP41" VERSION LEVEL - UPDATED FOR SIZE OR INCOMPATIBLE CHANGE
25	(19)	X'1'	0	DOMCSP21	"1" VERSION LEVEL FOR OS/VS2 HBB2102
25	(19)	X'2'	0	DOMCSP22	"2" VERSION LEVEL FOR OS/VS2 JBB2220
25	(19)	X'3'	0	DOMCSP41	"3" VERSION LEVEL FOR HBB4410
26	(1A)	BITSTRING	1	DOMCCNT	COUNT OF 4-BYTE DOM IDS
27	(1B)	BITSTRING	1	DOMCFLGS	MISCELLANEOUS FLAGS
		1...		DOMCBRDC	"BIT0" - DOM IS BROADCAST TO OTHER SYSTEMS
		.1..		DOMCLNKB	"BIT1" - DOM INVOKED THRU BRANCH ENTRY
		..1.		DOMCSKIP	"BIT2" - SKIP DELAYED MESSAGE QUEUE PROCESSING
		...1		DOMCDUMY	"BIT3" - DUMMY DOM (A PREVIOUSLY RETAINED DOM)
		.... 1...		DOMCFRID	"BIT4" - FREE REPLY ID
		.... .1..		DOMCIDOK	"BIT5" - REPLY IDS BEING SUCCESSFULLY FREED
		.... ..1.		DOMCMTCH	"BIT6" - MESSAGE MATCHING THIS DOM WAS FOUND ON A MESSAGE REISSUE QUEUE
		1		DOMCNWTR	"BIT7" - Do not DOM a WTOR by ASID or ASID/JSTCB

Comment

A DOMC ENTRY

End of Comment

28	(1C)	ADDRESS	4	DOMCID (0)	- DOMC MESSAGE ID ENTRY (MAXIMUM OF 60 ENTRIES)
28	(1C)	BITSTRING	1	DOMCSYID (0)	- SYSTEM ID
28	(1C)	BITSTRING	1	DOMCFLAG	- DOMCID ENTRY FLAGS
		1...		DOMCEND	"BIT0" - THIS IS THE LAST DOMCID ENTRY IN THIS DOMC
29	(1D)	ADDRESS	3	DOMCIDA	- MESSAGE ID TO BE DOM'ED

Comment

THE DOMC TRAILER
THE FOLLOWING FIELDS ARE LOCATED IMMEDIATELY FOLLOWING THE LAST DOMCID ENTRY

End of Comment

32	(20)	CHARACTER	28	DOMCTRLR (0)	THE DOMC TRAILER
32	(20)	CHARACTER	16	DOMCTRL1 (0)	THE DOMC TRAILER (PRE-SP410 SIZE)
32	(20)	SIGNED	2	DOMCASID	- ASID OF DOM ISSUER (OS/VS2) MDC006
34	(22)	SIGNED	2	DOMCSIZE	- SIZE OF DOMC PASSED TO SUBSYSTEM (IN BYTES) EXCLUDES THE DOMC HEADER FOR COMPATIBILITY REASONS
36	(24)	ADDRESS	4	DOMCJTCB	- ADDRESS OF THE JOB STEP'S TCB (OS/VS2) MDC007
40	(28)	SIGNED	1	DOMCSID	SYSTEM ID
41	(29)	SIGNED	3	DOMCRSV3	RESERVED
44	(2C)	ADDRESS	4	DOMCTOKN	TOKEN
48	(30)	CHARACTER	12	DOMCTRL2 (0)	THE DOMC TRAILER (SP410 ADDITIONS)
48	(30)	SIGNED	4	DOMCTIME	TIME IN SECONDS
52	(34)	CHARACTER	8	DOMCRSV4	RESERVED

DOMC Cross Reference

Name	Hex Offset	Hex Value
DOMC	14	18
DOMCASID	20	
DOMCAUTH	18	10
DOMCBASE	0	
DOMCBID	0	
DOMCBRDC	1B	80
DOMCCNT	1A	
DOMCDBAJ	18	8
DOMCDBL	18	2
DOMCDBSY	18	40
DOMCDBTK	18	80
DOMCDUMY	1B	10
DOMCEND	1C	80
DOMCFLAG	1C	
DOMCFLGS	1B	
DOMCFLG2	12	
DOMCFORN	12	8
DOMCFRID	1B	8
DOMCID	1C	
DOMCIDA	1D	
DOMCIDOK	1B	4
DOMCIDP	8	
DOMCJTCB	24	
DOMCLNK	4	
DOMCLNKB	1B	40
DOMCMARK	12	80
DOMCMTCH	1B	2
DOMCNH	12	10
DOMCNORM	12	40
DOMCNTRL	18	
DOMCNWTR	1B	1
DOMCPROC	18	1
DOMCREIS	18	4
DOMCRSV0	13	
DOMCRSV1	14	
DOMCRSV3	29	
DOMCRSV4	34	
DOMCSEXT	18	20
DOMCSID	28	
DOMCSIZE	22	
DOMCSKIP	1B	20
DOMCSP21	19	1
DOMCSP22	19	2
DOMCSP41	19	3
DOMCSYID	1C	
DOMCTIME	30	
DOMCTOKN	2C	
DOMCTRLR	20	
DOMCTRL1	20	
DOMCTRL2	30	
DOMCTRP	C	
DOMCTSIZ	10	
DOMCVRID	19	3
DOMCVRSN	19	
DOMCWTOR	12	20

DOMPL Heading Information

Common Name: DOM Parameter List
Macro ID: IEZVM112
DSECT Name: DOMPL
Owning Component: Communications Task (SC1CK)
Eye-Catcher ID: None
Storage Attributes: Main Storage: Yes
Subpool: Any
Key: Any
Size: 4 bytes per message id, up to 60 message ids
Created by: Issuer of DOM macro
Pointed to by: Register 1 on entry to DOM processing
Serialization: N/A
Function: Input parameter list for DOM processing.

DOMPL Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	4	DOMPL	MESSAGE ID ENTRY
0	(0)	SIGNED	4	DOMPDMID	DOM SEQUENCE NUMBER
0	(0)	UNSIGNED	1	DOMPSYID	SYSTEM ID
0	(0)	BITSTRING	1	DOMPFLAG	FLAGS BYTE OF DOM ID ENTRY
		1...		DOMPEND	IF ON THEN END OF DOM PARM LIST
1	(1)	ADDRESS	3	DOMPID	ID OF MESSAGE TO BE DOMED

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DQE Heading Information

Common Name: VSM Descriptor Queue Element
Macro ID: IHADQE
DSECT Name: DQE
Owning Component: Virtual Storage Manager (SC1CH)
Eye-Catcher ID: None
Storage Attributes: Subpool: 245 or 255
Key: 0
Residency: Above 16M line
Size: 24 bytes
Created by: IGVGCSA, IGVGPVT, IGVFSDQE, IGVGAPVT, IGVNIPCR
Pointed to by: SPQAFBDQ, SPQALBDQ, SPQAFADQ, SPQALADQ, SPQAFEDQ, SPQALEDQ, SPTFBDQE, SPTLBDQE SPTFADQE, SPTLADQE, SPTFEDQE, SPTLEDQE DQENEXT, DQEPREV, FQEDQE
Serialization: VSMFIX lock for global subpools
LOCAL lock for private area subpools
Function: Describes CSA and private area space (in 4k multiples) allocated to a subpool.

DQE Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	24	DQE	DESCRIPTOR FREE ELEMENT
0	(0)	ADDRESS	4	DQENEXT	ADDRESS OF NEXT DQE
4	(4)	ADDRESS	4	DQEPREV	ADDRESS OF PREVIOUS DQE
8	(8)	ADDRESS	4	DQEFFQE	ADDRESS OF FIRST FQE
12	(C)	ADDRESS	4	DQELFQE	ADDRESS OF LAST FQE
16	(10)	ADDRESS	4	DQEAREA	ADDRESS OF ALLOCATED AREA
20	(14)	UNSIGNED	4	DQESIZE	SIZE OF ALLOCATED AREA

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DSAB Programming Interface information

Programming Interface information

DSAB

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

- DSABSSNM
- DSABTIOT

End of Programming Interface information

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DSAB Heading Information

Common Name: DATA SET ASSOCIATION BLOCK
Macro ID: IHADSAB
DSECT Name: DSAB, DSABANMI
Owning Component: Allocation (SC1B4)
Eye-Catcher ID: DSAB
Offset: 0
Length: 4
Storage Attributes: Subpool: SWA subpool
Key: 1
Residency: Defaults to below, but is stored above if requested via the S99DSABA bit in the SVC 99 parameter list.
Size: DSAB: LENGTH(DSAB)
DSABANMI: 1 + DSABANML
Created by: IEFAB428 - Build DSAB/TIOT Entry
Pointed to by: SIOTETIO in the IEFASIOT
JSCDSABQ -> Queue Descriptor Block(QDB)
(ie. QDB(QDBFELMP) -> first DSAB
QDB(QDBLELMP) -> last DSAB, ...)
Serialization: None
Function: THE DATA SET ASSOCIATION BLOCK, DSAB, AND ITS CORRESPONDING TIOT DD ENTRY CONTAIN INFORMATION WHICH SERVE AS AN INTERFACE BETWEEN ALLOCATION (BOTH STEP AND DYNAMIC) AND OTHER SYSTEM COMPONENTS. DSABS ARE ELEMENTS OF A NON-CONTIGUOUS, DOUBLE-THREADED CHAIN. THE TIOT ENTRY IS ADDRESSED FROM THE DSAB FIELD DSABTIOT. The GETDSAB executable macro can be used to obtain the DSAB addresses.

DSAB Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	DSAB	
0	(0)	SIGNED	4	(0)	
0	(0)	CHARACTER	4	DSABID	IN-CORE ID,CHARACTERS 'DSAB'
4	(4)	SIGNED	4	DSABFCHN	NEXT BELOW THE LINE DSAB POINTER, 0 IF LAST, OR IF DSAB RESIDES ABOVE THE 16MB LINE
8	(8)	SIGNED	4	DSABBCHN	PREVIOUS BELOW THE LINE DSAB POINTER, 0 IF FIRST, OR IF DSAB RESIDES ABOVE THE 16MB LINE
12	(C)	SIGNED	2	DSABLNTH	LENGTH OF DSAB
14	(E)	SIGNED	2	DSABOPCT	OPEN DCB COUNT FOR TIOT DD ENTRY
16	(10)	SIGNED	4	DSABTIOT	TIOT DD ENTRY PTR
20	(14)	CHARACTER	1	DSABRS01	RESERVED
21	(15)	CHARACTER	3	DSABSSVA	SWA VIRTUAL ADDRESS OF SIOT
24	(18)	CHARACTER	1	DSABRS02	RESERVED
25	(19)	CHARACTER	3	DSABXSVA	SVA of XSIOT
28	(1C)	SIGNED	4	DSABANMP	&NAME OR GDG-ALL DSNAME PTR, 0 IF NONE
32	(20)	CHARACTER	2	DSABORG (0)	DATA SET ORGANIZATION
32	(20)	BITSTRING	1	DSABORG1	1ST BYTE OF DSORG FLAGS
		1...		DSABIS	"X'80'" INDEXED SEQUENTIAL ORGANIZATION
		.1..		DSABPS	"X'40'" PHYSICAL SEQUENTIAL ORGANIZATION
		..1.		DSABDA	"X'20'" DIRECT ACCESS ORGANIZATION
		...1		DSABCX	"X'10'" COMMUNICATIONS LINE GROUP
		.... 1...		DSABCQ	"X'08'" DIRECT ACCESS MESSAGE QUEUE
		.... .1..		DSABMQ	"X'04'" PROBLEM PROGRAM MESSAGE QUEUE

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		.... ..1.		DSABPO	"X'02'" PARTITIONED ORGANIZATION
		1		DSABU	"X'01'" UNMOVEABLE
33	(21)	BITSTRING	1	DSABORG2	2ND BYTE OF DSORG FLAGS
		1...		DSABGS	"X'80'" GRAPHICS ORGANIZATION
		.1..		DSABTX	"X'40'" TCAM LINE GROUP
		..1.		DSABTQ	"X'20'" TCAM MESSAGE QUEUE
		.... 1...		DSABAM	"X'08'" VSAM
		.... .1..		DSABTR	"X'04'" TCAM 3705
34	(22)	BITSTRING	1	DSABFLG1	FLAGS-RESTORED BY RESTART
		1...		DSABDALC	"X'80'" DYNAMICALLY ALLOCATED
		.1..		DSABPALC	"X'40'" PERMANENTLY ALLOCATED ATTRIBUTE
		..1.		DSABDCNV	"X'20'" DYNAMICALLY CONVERTED
		...1		DSABCONV	"X'10'" CONVERTIBLE ATTRIBUTE
		.... 1...		DSABDCAT	"X'08'" DYNAMICALLY CONCATENATED
		.... .1..		DSABPCAT	"X'04'" PERMANENTLY CONCATENATED
		.... ..1.		DSABCATM	"X'02'" CONCATENATED GROUP MEMBER
		1		DSABNUSE	"X'01'" IN-USE ATTRIBUTE
35	(23)	BITSTRING	1	DSABFLG2	FLAGS-RESTORED BY RESTART
		1...		DSABOPEN	"X'80'" DATA SET HAS BEEN OPENED
		.1..		DSABIRM	"X'40'" D.S. REVERSED MERGED FOR INPUT
		..1.		DSABUNAL	"X'20'" UNALLOCATE WHEN CLOSED
		...1		DSABVLF	"X'10'" VIRTUAL LOOKASIDE FACILITY
		.... 1...		DSABJCHG	"X'08'" DSNAME OR VOLSER CHANGED IN THE JFCB
		.... .1..		DSABNODI	"X'04'" When = 1, no dataset integrity specified on dynamic allocation. Valid only if DSABDALC also set
		.... ..1.		DSABATCT	"X'02'" Use alternate TCTIOT offset contained in DSABTCT2 rather than DSABTCTL
36	(24)	BITSTRING	1	DSABFLG3	FLAGS-NOT RESTORED BY RESTART
		1...		DSABDEFR	"X'80'" DEFERRED MOUNTING
		.1..		DSABPASS	"X'40'" PASS/RETAIN IND
		..1.		DSABVAM	"X'20'" VIO DATA SET
		...1		DSABVMSC	"X'10'" VIO PAGING SPACE RELEASED
		.... 1...		DSABCATL	"X'08'" DATA SET IS A CATALOG
		.... .1..		DSABJSCT	"X'04'" JOBCAT OR STEPCAT DATA SET
		.... ..1.		DSABVVDS	"X'02'" VVDS - ICF CATALOG
		1		DSABTIOX	"X'01'" DSAB HAS XTIOT ENTRY (FOR SYSTEM PROGRAM USE ONLY)
37	(25)	BITSTRING	1	DSABFLG4	FLAGS-NOT RESTORED BY RESTART
		1...		DSABCKDS	"X'80'" THIS IS A CHECKPT DATA SET
		.1..		DSABCKVL	"X'40'" VOLUME CONTAINING CHECKPT DATA SET IS SECURE
		..1.		DSABCKSI	"X'20'" SECURITY INTERFACE EXISTS FOR THE CHECKPT DATA SET
		...1		DSABHIER	"X'10'" HIERARCHICAL FILE INDICATOR
		.... 1...		DSABGANM	"X'08'" ALTERNATE NAME SECTION GETMAINED
		.... .1..		DSABLCAT	"X'04'" LAST DATASET IN DD CONCATENATION
		.... ..1.		DSABAUCB	"X'02'" Actual UCBs are to be used for this request
		1		DSABCASL	"X'01'" DSAB TO BE COPIED INTO CATALOG ADDRESS SPACE (CAS)
38	(26)	SIGNED	2	DSABDEXT	INDEX TO DEXT TABLE
40	(28)	SIGNED	4	DSABTCBP	TCB UNDER WHICH SET IN-USE
44	(2C)	SIGNED	4	DSABPTTR	RELATIVE TTR OF DATA SET PASSWORD
48	(30)	CHARACTER	4	DSABSSNM	SUB-SYSTEM NAME
52	(34)	SIGNED	4	DSABSSCM	SUB-SYSTEM COMMUNICATION AREA POINTER
56	(38)	CHARACTER	6	DSABDCBM	BIT MAP OF DCB FIELDS
62	(3E)	SIGNED	2	DSABTCTL	Offset of lookup entry from beginning of TCTIOT. If DSABATCT is on, use DSABTCT2 instead
64	(40)	SIGNED	4	DSABSIOT	SIOT IN-CORE ADDRESS
68	(44)	SIGNED	4	DSABTOKN	DD TOKEN
72	(48)	SIGNED	4	DSABTCT2	Offset of lookup entry from beginning of TCTIOT - always valid
76	(4C)	ADDRESS	4	DSABSIOX	Virtual address of SIOTX
80	(50)	SIGNED	4	DSABFCHA	NEXT ABOVE OR BELOW THE LINE DSAB POINTER, 0 IF LAST

DSAB Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
84	(54)	SIGNED	4	DSABBCHA	PREVIOUS ABOVE OR BELOW THE LINE DSAB POINTER, 0 IF FIRST
88	(58)	BITSTRING	1	DSABFLG5	GENERAL USE FLAGS
		1...		DSABABOV	"X'80'" DSAB RESIDES ABOVE THE 16MB LINE
89	(59)	CHARACTER	7	DSABRS03	RESERVED
89	(59)	X'60'	0	DSABL	"*-DSAB" LENGTH OF DSECT

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	DSABANMI	ALTERNATE DSNAME INFORMATION
0	(0)	SIGNED	1	DSABANML	LENGTH OF ALTERNATE DSNAME
1	(1)	CHARACTER	1	DSABANAM	ALTERNATE DSNAME
1	(1)	X'2'	0	DSABANL	"*-DSABANMI" LENGTH OF DSECT 4

DSAB Cross Reference

Name	Hex Offset	Hex Value
DSAB	0	
DSABABOV	58	80
DSABAM	21	8
DSABANAM	1	
DSABANL	1	2
DSABANMI	0	
DSABANML	0	
DSABANMP	1C	
DSABATCT	23	2
DSABAUCB	25	2
DSABBCHA	54	
DSABBCHN	8	
DSABCASL	25	1
DSABCATL	24	8
DSABCATM	22	2
DSABCKDS	25	80
DSABCKSI	25	20
DSABCKVL	25	40
DSABCONV	22	10
DSABCQ	20	8
DSABCX	20	10
DSABDA	20	20
DSABDALC	22	80
DSABDCAT	22	8
DSABDCBM	38	
DSABDCNV	22	20
DSABDEFR	24	80
DSABDEXT	26	
DSABFCHA	50	
DSABFCHN	4	
DSABFLG1	22	
DSABFLG2	23	
DSABFLG3	24	
DSABFLG4	25	
DSABFLG5	58	
DSABGANM	25	8
DSABGS	21	80
DSABHIER	25	10
DSABID	0	
DSABIRM	23	40
DSABIS	20	80
DSABJCHG	23	8
DSABJSCT	24	4
DSABL	59	60
DSABLCAT	25	4
DSABLNTH	C	
DSABMQ	20	4
DSABNODI	23	4
DSABNUSE	22	1
DSABOPCT	E	
DSABOPEN	23	80
DSABORG	20	
DSABORG1	20	
DSABORG2	21	
DSABPALC	22	40
DSABPASS	24	40
DSABPCAT	22	4
DSABPO	20	2
DSABPS	20	40
DSABPTTR	2C	
DSABRS01	14	
DSABRS02	18	
DSABRS03	59	
DSABSIOT	40	
DSABSIOX	4C	
DSABSSCM	34	
DSABSSNM	30	
DSABSSVA	15	
DSABTCBP	28	
DSABTCTL	3E	
DSABTCT2	48	
DSABTIOT	10	
DSABTIOX	24	1
DSABTOKN	44	
DSABTQ	21	20
DSABTR	21	4
DSABTX	21	40
DSABU	20	1
DSABUNAL	23	20
DSABVAM	24	20
DSABVLF	23	10
DSABVMSC	24	10
DSABVVDS	24	2
DSABXSVA	19	

DSABQDB Heading Information

Common Name: DSAB Queue Descriptor Block (QDB)
Macro ID: IEFZB4D5
DSECT Name: DSABQDB
Owning Component: Allocation/Unallocation (SC1B4)
Eye-Catcher ID: DSAB
Offset: 0
Length: 4
Storage Attributes: Subpool: 236 or 237
Key: 1
Size: 52 bytes
Created by: IEFAB4FC
Pointed to by: JSCDSABQ field of the JSCB data area
LCTDSABQ field of the LCT data area
Serialization: SYSZTIOT major name with minor name of the address of DSABQDB and ASID. This resource serializes the DSAB chain in its entirety.
Function: This macro defines the DSAB queue descriptor block (QDB) for the device allocation routines.

DSABQDB Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	DSABQDB	
0	(0)	CHARACTER	4	DSQDBID	ACRONYM IN EBCDIC -DSAB-
4	(4)	BITSTRING	2	DSQATTRS	ATTRIBUTES
		1...		DSQRIURB	"X'80'" RIU TABLE NEEDS REBUILDING
		.1..		DSQALLOC	"X'40'" Step is allocated
		..1.		DSQSWARD	"X'20'" SWA has been Read indicator.
		...1		DSQBADBA	"X'10'" ABOVE OR BELOW THE LINE BACKWARD CHAIN INCORRECT
		.... 1...		DSQBADFA	"X'08'" ABOVE OR BELOW THE LINE FORWARD CHAIN INCORRECT
		.... .1..		DSQDSABA	"X'04'" AT LEAST ONE DSAB IS ABOVE THE LINE
6	(6)	SIGNED	2	DSQDBLN	QDB LENGTH
8	(8)	SIGNED	4	DSQNELMS	NUMBER OF ELEMENTS ON QUEUE
12	(C)	ADDRESS	4	DSQFRSTP	POINTER TO FIRST BELOW THE LINE DSAB
		1...		DSQBADBC	"X'80'" BELOW THE LINE BACKWARD CHAIN IS INCORRECT
16	(10)	ADDRESS	4	DSQLASTP	POINTER TO LAST BELOW THE LINE DSAB
		1...		DSQBADFC	"X'80'" BELOW THE LINE FORWARD CHAIN IS INCORRECT
20	(14)	SIGNED	2	DSQFDSP	DISP INTO DSAB FWD PTR
22	(16)	SIGNED	2	DSQBDSP	DISP INTO DSAB BACKWD PTR
24	(18)	SIGNED	4	DSQDCPID	DSAB CELL POOL ID
28	(1C)	ADDRESS	4	DSQRIUTP	POINTER TO RIU TABLE
32	(20)	SIGNED	4	DSQNELMA	NUMBER OF ELEMENTS ON ABOVE OR BELOW THE LINE QUEUE
36	(24)	ADDRESS	4	DSQFRSTA	POINTER TO FIRST ABOVE OR BELOW THE LINE DSAB
40	(28)	ADDRESS	4	DSQLASTA	POINTER TO LAST ABOVE OR BELOW THE LINE DSAB
44	(2C)	SIGNED	2	DSQFDSA	DISPLACEMENT INTO ABOVE OR BELOW THE LINE DSAB POINTER
46	(2E)	SIGNED	2	DSQBDSA	DISPLACEMENT INTO ABOVE OR BELOW THE LINE DSAB POINTER
48	(30)	SIGNED	4	DSQDCPIA	ABOVE OR BELOW THE LINE DSAB CELL POOL ID

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DSABQDB Cross Reference

Name	Hex Offset	Hex Value
DSABQDB	0	
DSQALLOC	4	40
DSQATTRS	4	
DSQBADBA	4	10
DSQBADBC	C	80
DSQBADFA	4	8
DSQBADFC	10	80
DSQBDSA	2E	
DSQBDSP	16	
DSQDBID	0	
DSQDBLN	6	
DSQDCPIA	30	
DSQDCPID	18	
DSQDSABA	4	4
DSQFDSA	2C	
DSQFDSP	14	
DSQFRSTA	24	
DSQFRSTP	C	
DSQLASTA	28	
DSQLASTP	10	
DSQNELMA	20	
DSQNELMS	8	
DSQRIURB	4	80
DSQRIUTP	1C	
DSQSWARD	4	20

DSCA Heading Information

Common Name: DAE Communication Area
Macro ID: ADYDSCA
DSECT Name: DSCA
Owning Component: DUMP ANALYSIS AND ELIMINATION (SC143)
Eye-Catcher ID: DSC
Offset: 0
Length: 3
Storage Attributes: Subpool: 239
Key: 0
Residency: BELOW,ANYWHERE
Size: LENGTH(DSCA)
Created by: IEAVTSDI
Pointed to by: RTCTDSCA
Serialization: NONE
Function: Common data area for all DAE functions in the DUMPSRV address space, for predump processing, and for post-dump exit processing.

DSCA Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	192	DSCA	DAE COMMUNICATION AREA
0	(0)	CHARACTER	4	DSCID	MACRO ID
0	(0)	CHARACTER	3	DSCDSC	ACRONYM 'DSC'
3	(3)	CHARACTER	1	DSCVSN	VERSION NUMBER
4	(4)	ADDRESS	4	DSCDFL	ADDRESS OF DFLM (THE CURRENT DAE OPTIONS)
8	(8)	CHARACTER	2	DSCASUFF	START DAE Suffix eg '00'
10	(A)	CHARACTER	10	*	Reserved - available.
20	(14)	ADDRESS	4	DSCHPQP	HIGH PRIORITY TRANSACTION QUEUE HEAD. ELEMENTS ARE ADDED TO THE END AND REMOVED FROM THE HEAD
24	(18)	ADDRESS	4	DSCTRNP	LOW PRIORITY TRANSACTION QUEUE HEAD. ELEMENTS ARE ADDED TO THE END AND REMOVED FROM THE HEAD
28	(1C)	BITSTRING	4	DSCAECB	ECB TO BE POSTED WHENEVER A TRANSACTION IS PUT ONTO DSCHPQP OR DSCTRNP
		1...		DSCWAIT	WAIT BIT
		.1..		DSCPOST	ECB POSTED INDICATOR. IF THIS IS OFF ADYTRNS WILL NOT CHECK FOR TRANSACTIONS ON THE QUEUES.
32	(20)	CHARACTER	8	DSCMAJOR	MAJOR NAME USED TO ENQ ON THE TRANSACTION PROCESSOR QUEUES AND ECB
40	(28)	CHARACTER	8	DSCMINOR	MINOR NAME USED TO ENQ ON THE TRANSACTION PROCESSOR QUEUES AND ECB
48	(30)	ADDRESS	4	DSCDOMP	DOM ID TABLE ADDRESS
52	(34)	CHARACTER	28	DSCSDMP	FIELDS USED BY SDUMP
52	(34)	ADDRESS	4	DSCDSPDP	PTR-PRE-DUMP PARAM LIST=DSPD
56	(38)	ADDRESS	4	DSCHDRP	PTR-SDUMP HEADER RECORD AREA
60	(3C)	CHARACTER	20	*	RESERVED FOR SDUMP USE
80	(50)	CHARACTER	28	DSCMODP	ADDRESSES OF MODULES LOADED OR ZERO
80	(50)	ADDRESS	4	DSCPRED	PTR-ADYPRED- PREDUMP PROCESSOR
84	(54)	ADDRESS	4	DSCEXT	PTR-SYMPTOM EXTRACTION PROGRAM
88	(58)	ADDRESS	4	*	RESERVED
92	(5C)	ADDRESS	4	*	RESERVED
96	(60)	ADDRESS	4	*	RESERVED
100	(64)	ADDRESS	4	*	RESERVED
104	(68)	ADDRESS	4	*	RESERVED
108	(6C)	BITSTRING	1	DSCFLG1	DAE FLAGS

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Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		1...		DSCFTRNS	Set on to indicate that ADYTRNS is not able to process x-actions due to a failure or not yet had a chance to complete initialization.
		.1..		DSCFIRSTINITCOMPLETE	Set on to indicate that DAE has successfully initialized through a SET DAE command once during an IPL.
109	(6D)	BITSTRING	1	DSCFLG2	FLAGS
110	(6E)	SIGNED	2	*	RESERVED.
112	(70)	BITSTRING	8	DSCGLBST	Most Recent Globalstop Time Stamp
120	(78)	CHARACTER	8	*	Reserved - Can Be Used Stamp
128	(80)	BITSTRING	8	DSCGLOBT	Most Recent Global Time Stamp Stamp
136	(88)	ADDRESS	4	DSCMHPQP	Message exit high priority Transaction queue head. Elements are added to the front of the queue via CS.
140	(8C)	ADDRESS	4	DSCMTRNP	Message exit low priority Transaction queue head. Elements are added to the front of the queue via CS.
144	(90)	CHARACTER	24	DSCSQSVC	Symptom Queue Control-SVC DUMP This symptom queue contains elements from SVC Dumps. The storage is Fixed Common. This area is mapped by the DSCSYMPQ.
168	(A8)	CHARACTER	24	DSCSQSYS	Symptom Queue Control-SYSMDUMPs This symptom queue contains symptoms from ABDUMPs, therefore the storage can be CSA/ECSA. This area is mapped by the DSCSYMPQ.

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	24	DSCSYMPQ	SERIALIZATION FOR ALL SYMPTOM QUEUE ELEMENTS BOTH ON THE QUEUE AND OFF. SEE MAPPING ADYSYMP FOR DETAILS of the SQ executable macro.
0	(0)	CHARACTER	8	DSCSYMP	
0	(0)	BITSTRING	2	DSCQFLG	
		1...		DSCSQVAL	ON=THE QUEUE IS VALID AND MAY BE USED. OFF=THE QUEUE MAY NOT BE USED.
2	(2)	SIGNED	2	DSCSYMPC	COUNT OF CURRENT SYMPTOM QUEUE USERS
4	(4)	ADDRESS	4	DSCSYMPP	ANCHOR FOR SYMPQ-ANY REFERENCE TO THIS QUEUE MUST BE SERIALIZED -SEE ADYSYMP. NEW ELEMENTS ARE ADDED TO THE HEAD.
8	(8)	CHARACTER	4	DSCCPID	CELL POOL ID FOR SYMPTOM QUEUE OR 0
12	(C)	SIGNED	2	DSCCPLST	COUNT OF THE NUMBER OF TIMES THE SYMPTOM QUEUE CPOOL WAS LOST (SYSMDUMP queue)
14	(E)	CHARACTER	2	*	Reserved
16	(10)	UNSIGNED	4	DSCCPCT	Number of available cells in the CPOOL.
20	(14)	CHARACTER	4	*	Reserved

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	20	DSCDOMID	TABLE OF DOM IDS
0	(0)	SIGNED	4	DSC010E	DOMID FOR MESSAGE ADY010E
4	(4)	SIGNED	4	DSC011EOR016E	DOMID FOR MESSAGE ADY011E or ADY016E
8	(8)	SIGNED	4	DSC014E	DOMID FOR MESSAGE ADY014E
12	(C)	SIGNED	4	DSC005E	DOMID FOR MESSAGE ADY005E
16	(10)	SIGNED	4	DSC006E	DOMID FOR MESSAGE ADY006E

DSCA Constants

Len	Type	Value	Name	Description
4	CHARACTER	DSC1	DSCVSNC	NAME AND VERSION NUMBER TO BE PLACED IN DSCID WHEN THIS DATAAREA IS CREATED

DSCA Cross Reference

Name	Hex Offset	Hex Value
DSCA	0	
DSCAECB	1C	
DSCASUFF	8	
DSCCPCT	10	
DSCCPID	8	
DSCCPLST	C	
DSCDFL	4	
DSCDOMID	0	
DSCDOMP	30	
DSCDSC	0	
DSCDSPDP	34	
DSCEXT	54	
DSCFIRSTINITCOMPLETE	6C	40
DSCFLG1	6C	
DSCFLG2	6D	
DSCFTRNS	6C	80
DSCGLBST	70	
DSCGLOBT	80	
DSCHDRP	38	
DSCHPQP	14	
DSCID	0	
DSCMAJOR	20	
DSCMHPQP	88	
DSCMINOR	28	
DSCMODP	50	
DSCMTRNP	8C	
DSCPOST	1C	40
DSCPRED	50	
DSCQFLG	0	
DSCSDMP	34	
DSCSQSVC	90	
DSCSQSYS	A8	
DSCSQVAL	0	80
DSCSYMP	0	
DSCSYMPC	2	
DSCSYMPP	4	
DSCSYMPQ	0	
DSCTRNP	18	
DSCVSN	3	
DSCWAIT	1C	80
DSC005E	C	
DSC006E	10	
DSC010E	0	
DSC011EOR016E	4	
DSC014E	8	

DSD Programming Interface information

Programming Interface information

DSD

End of Programming Interface information

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DSD Heading Information

Common Name: DISPATCHABILITY SERVICE DATA AREA
Macro ID: IHADSD
DSECT Name: DSD DSDELEM
Owning Component: SUPERVISOR CONTROL (SC1C5)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: ANY
Key: 0
Residency: ABOVE OR BELOW 16M LINE IN VIRTUAL STORAGE
Size: 208 BYTES PLUS 4 BYTES TIMES ASVTMAXU (POTENTIAL NUMBER OF ADDRESS SPACES)
Created by: THE CALLER OF IEAMRMF3 MUST OBTAIN THE STORAGE FOR THIS DATAAREA. THE LENGTH OF THE AREA SHOULD BE THE LENGTH OF DSDFIXED PLUS ASVTMAXU*4. NO OTHER INITIALIZATION OF THE DATA AREA IS REQUIRED OF THE CALLER.
Pointed to by: N/A
Serialization: OWNER-SERIALIZED.
Function: MAP OF THE DATA AREA PASSED TO THE IEAMRMF3 SERVICE BY ITS CALLER. IEAMRMF3 PROVIDES DATA ABOUT THE DISPATCHABILITY OF ADDRESS SPACES. IT USES PART OF THE DATA AREA AS A WORKAREA. THE REST CONTAINS THE OUTPUT OF THE IEAMRMF3 SERVICE.

DSD Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	DSD	
0	(0)	CHARACTER	208	DSDFIXED (0)	FIXED LENGTH PART OF THE DSD
0	(0)	ADDRESS	4	DSDAPTR	ADDRESS OF THE ARRAY WHICH CONTAINS THE ADDRESS SPACE DISPATCHABILITY DATA
4	(4)	SIGNED	2	DSDINDXF	INDEX OF THE FIRST FILLED ARRAY ELEMENT. (CONTAINS X'FFFF', IF NONE ARE FILLED.)
6	(6)	SIGNED	2	DSDR006	RESERVED
8	(8)	CHARACTER	200	DSDAUTO	WORKAREA FOR THE IEAMRMF3 SERVICE
208	(D0)	ADDRESS	4	DSDARRAY (0)	ARRAY OF 4-BYTE ENTRIES

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	DSDELEM	
0	(0)	SIGNED	2	DSDINDXN	INDEX OF THE NEXT FILLED ARRAY ELEMENT. (CONTAINS X'FFFF', IF IT IS THE LAST FILLED ELEMENT.)
2	(2)	BITSTRING	1	DSDSTATE	FLAG BYTE TO INDICATE DISPATCH- ABILITY OF THE ADDRESS SPACE
		1...		DSDUSING	"X'80'" ADDRESS SPACE IS DISPATCHABLE AND RUNNING ON A PROCESSOR
		.1..		DSDWAIT	"X'40'" ADDRESS SPACE IS DISPATCHABLE AND IS WAITING TO RUN ON A PROCESSOR
		..1.		DSDREADY	"X'20'" ADDRESS SPACE IS DISPATCHABLE AND IS WAITING TO RUN ON THE PROCESSOR EXCERCISING THE IEAVERMF SERVICE
		...1		DSDTCBRY	"X'10'" ADDRESS SPACE HAS A READY TCB THAT IS THE NEXT WORK TO RUN ON THE PROCESSOR EXCERCISING THE IEAVERMF SERVICE
3	(3)	BITSTRING	1	DSDRSVD	RESERVED BYTE

DSD Cross Reference

Name	Hex Offset	Hex Value
DSD	0	
DSDAPTR	0	
DSDARRAY	D0	
DSDAUTO	8	
DSDELEM	0	
DSDFIXED	0	
DSDINDXF	4	
DSDINDXN	0	
DSDREADY	2	20
DSDRSVD	3	
DSDR006	6	
DSDSTATE	2	
DSDTCBRY	2	10
DSDUSING	2	80
DSDWAIT	2	40

DSERV Programming Interface information

Programming Interface information

DSERV

End of Programming Interface information

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DSERV Heading Information

Common Name: JES Job Information Service Token List
Macro ID: IAZDSERV
DSECT Name: DSERV
Owning Component: JES Common (SC141)
Eye-Catcher ID: DSRV
Offset: DSRVSSID
Length: L'DSRVSSID
Storage Attributes: Subpool: caller
Key: 1, caller must be in key 1
Residency: Virtual = any real = any
Size: See DSRVSZE
Created by: caller of SSI function 'SSOBSSJI' = 71
Pointed to by: SSJIUSER in the SSOB extension
Serialization: None
Function: This macro provides the mapping of the parameter list used by authorized programs to request Job Information Service from the JES checkpoint data space.

DSERV Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	DSERV	
0	(0)	CHARACTER	4	DSRVSSID	CONTROL BLOCK IDENTIFIER
4	(4)	ADDRESS	2	DSRVLEN	LENGTH OF DSERV TOKEN AREA
6	(6)	SIGNED	2	DSRVSVRN	SERVICE VERSION NUMBER
6	(6)	X'1'	0	DSRVSVR1	"1" Service version number of IAZDSERV - Version 4.1.0
6	(6)	X'2'	0	DSRVSVR2	"2" Service version number of IAZDSERV - Version 5.2.0
6	(6)	X'3'	0	DSRVSVR3	"3" Service version number of IAZDSERV - z/OS 1.2
6	(6)	X'3'	0	DSRVSVR#	"3" Service version number of IAZDSERV - Latest Version DSRVSVRN MUST BE SET TO DSVRSVR#
6	(6)	X'8'	0	DSRVUSER	"*"
8	(8)	ADDRESS	4	DSRVCVPT	RESERVED FOR SUBSYSTEM USE
12	(C)	SIGNED	4	DSRVCNUM	RESERVED FOR SUBSYSTEM USE
16	(10)	DBL WORD	8	DSRVJOTK (0)	JOT TOKEN
16	(10)	ADDRESS	4	DSRVJOPT	POINTER TO JOT
20	(14)	SIGNED	4	DSRVJOAL	ALET OF JOT
24	(18)	DBL WORD	8	DSRVJQTK (0)	JQE TOKEN
24	(18)	ADDRESS	4	DSRVJQPT	POINTER TO JQE
28	(1C)	SIGNED	4	DSRVJQAL	ALET OF JQE
32	(20)	DBL WORD	8	DSRVQSTK (0)	QSE TOKEN
32	(20)	ADDRESS	4	DSRVQSPT	POINTER TO QSE
36	(24)	SIGNED	4	DSRVQSAL	ALET OF QSE
40	(28)	DBL WORD	8	DSRVHCTK (0)	HCT TOKEN
40	(28)	ADDRESS	4	DSRVHCPT	POINTER TO HCT
44	(2C)	SIGNED	4	DSRVHCAL	ALET OF HCT
48	(30)	DBL WORD	8	DSRVTIME	TIME STAMP
48	(30)	X'38'	0	DSRVSZE1	"*-DSERV" DSERV Version 1 fixed parameter length
56	(38)	DBL WORD	8	DSRVJNTK (0)	JNT TOKEN
56	(38)	ADDRESS	4	DSRVJNPT	POINTER TO JNT
60	(3C)	SIGNED	4	DSRVJNAL	ALET OF JNT
60	(3C)	X'40'	0	DSRVSZE2	"*-DSERV" DSERV Version 2 fixed parameter length
64	(40)	DBL WORD	8	DSRVJQXK (0)	JQX token
64	(40)	ADDRESS	4	DSRVJXPT	Pointer to JQX
68	(44)	SIGNED	4	DSRVJXAL	ALET of JQX
72	(48)	DBL WORD	8	DSRVJTTK (0)	JQE trackgroup extension token
72	(48)	ADDRESS	4	DSRVJTPT	Pointer to JQE trkg ext

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
76	(4C)	SIGNED	4	DSRVJTAL	ALET of JQE trkg ext
80	(50)	DBL WORD	8	DSRVDASK (0)	DAS token
80	(50)	ADDRESS	4	DSRVDAPT	Pointer to DAS
84	(54)	SIGNED	4	DSRVDAAL	ALET of DAS
84	(54)	X'58'	0	DSRVSZE3	"*-DSERV" DSERV Version 3 fixed parameter length
84	(54)	X'58'	0	DSRVSZE	"*-DSERV" DSERV Current version fixed parameter length

DSERV Cross Reference

Name	Hex Offset	Hex Value
DSERV	0	
DSRVCNUM	C	
DSRVCVPT	8	
DSRVDAAL	54	
DSRVDAPT	50	
DSRVDASK	50	
DSRVHCAL	2C	
DSRVHCPT	28	
DSRVHCTK	28	
DSRVJNAL	3C	
DSRVJNPT	38	
DSRVJNTK	38	
DSRVJOAL	14	
DSRVJOPT	10	
DSRVJOTK	10	
DSRVJQAL	1C	
DSRVJQPT	18	
DSRVJQTK	18	
DSRVJQXK	40	
DSRVJTAL	4C	
DSRVJTPT	48	
DSRVJTTK	48	
DSRVJXAL	44	
DSRVJXPT	40	
DSRVLEN	4	
DSRVQSAL	24	
DSRVQSPT	20	
DSRVQSTK	20	
DSRVSSID	0	C4E2D9E5
DSRVSVR#	6	3
DSRVSVRN	6	
DSRVSVR1	6	1
DSRVSVR2	6	2
DSRVSVR3	6	3
DSRVSZE	54	58
DSRVSZE1	30	38
DSRVSZE2	3C	40
DSRVSZE3	54	58
DSRVTIME	30	
DSRVUSER	6	8

DSNT Heading Information

Common Name: Data Set Name Table
Macro ID: IEFDSNT
DSECT Name: DSNTABLE
Owning Component: Converter/interpreter (SC1B9)
Eye-Catcher ID: None
Subpool and Key: 236 or 237 and key 1
Size: Variable to 176 bytes
Created by: Interpreter
Pointed to by: SCTADSTB field of the SCT data area
Serialization: None
Function: The DSNT contains the volume reference data set names for a jobstep.

DSNT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	176	DSNTABLE	DSN TABLE Y02668
0	(0)	CHARACTER	3	DSNTSVA	SVA OF THIS RECORD Y02668
3	(3)	CHARACTER	1	DSNTID	TABLE ID Y02668
4	(4)	CHARACTER	3	DSNTNSVA	SVA OF NEXT RECORD Y02668
7	(7)	CHARACTER	1	*	RESERVED Y02668
8	(8)	CHARACTER	168	DSNENTRY	DATA SET NAMES Y02668

DSNT Constants

Len	Type	Value	Name	Description
1	HEX	07	DSNTTID	TABLE ID X'07' Y02668
4	DECIMAL	168	DSNTBLN	LENGTH OF DSNAME Y02668
4	DECIMAL	176	DSNTLN	LENGTH OF DSN TABLE Y02668

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DSPD Heading Information

Common Name: DAE PREDUMP/POSTDUMP PARAMETER LIST
Macro ID: ADYDSPD
DSECT Name: DSPD
Owning Component: DAE (SC143)
Eye-Catcher ID: DSP
Offset: 0
Length: 3
Storage Attributes: Key: 0
Residency: ABOVE 16M
Size: 106 BYTES
Created by: IEAVTSDI
IEAVTSYS, (FOR SYSMDUMP) VIA GETMAIN
Pointed to by: SDDDSPD
Serialization: NOT REQUIRED.
Function: COMMUNICATION BETWEEN SDUMP AND DAE DURING PREDUMP PROCESSING, AND BETWEEN DAE PREDUMP AND DAE POST DUMP PROCESSING.

DSPD Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	DSPD	PRE-DUMP PARAMETER LIST
0	(0)	CHARACTER	4	DSPID (0)	MACRO ID
0	(0)	CHARACTER	3	DSPDSP	ACRONYM='DSP'
3	(3)	CHARACTER	1	DSPVSN	VERSION NUMBER
4	(4)	SIGNED	4	DSPSDWA	PTR-SDWA OR ZERO
8	(8)	SIGNED	4	DSPABDP	PTR-SYMPTOMS FROM SYSMDUMP UNUSED FOR SVCDUMP
12	(C)	SIGNED	4	DSPHDR	POINTER TO DUMP HEADER RECORD
16	(10)	SIGNED	4	DSPEXTRC	RETURN CODE FROM ADYEXT
20	(14)	CHARACTER	10	DSPERID (0)	ERROR-ID FROM CURRENT PROBLEM
20	(14)	CHARACTER	2	DSPESEQ#	SEQUENCE NUMBER
22	(16)	CHARACTER	2	DSPECPUI	LOGICAL CPUID
24	(18)	CHARACTER	2	DSPEERAS	ASID FOR ERROR MEMORY
26	(1A)	CHARACTER	4	DSPEERTM	TIME STAMP AT TIME OF ERROR
30	(1E)	SIGNED	2	DSPSCNT	COUNT OF SYMPTOMS
32	(20)	SIGNED	2	DSPSLN	LENGTH OF SYMPTOM STRING INCLUDING A TRAILING BLANK
34	(22)	CHARACTER	20	DSPPSVD1	RESERVED FOR DAE USE
54	(36)	CHARACTER	20	DSPPSVD2	RESERVED FOR SDUMPS USE
74	(4A)	BITSTRING	2	DSPFLG1	FLAGS SET BY SVC DUMP
		1...		DSPSVC	"BIT0" SVC DUMP BEING PROCESSED
		.1..		DSPSYSM	"BIT1" SYSMDUMP DUMP BEING PROCESSED
		..1.		DSPSDS	"BIT2" SDUMP FAILED TO TAKE COMPLETE DUMP. DID TAKE A PARTIAL
		...1		DSPTERM	"BIT3" SDUMP FAILED TO TAKE ANY DUMP SO THE DATASET IS STILL EMPTY
		.... 1...		DSPSDMPH	"BIT4" SDUMP has updated its header information
76	(4C)	BITSTRING	2	DSPFLG2	FLAGS SET BY DAE
		1...		DSPNOAVL	"BIT0" 1=ADD ENTRY TO SYMPTOM QUEUE ALL QUEUE AREAS ARE EXHAUSTED
78	(4E)	CHARACTER	8	DSPSTAT	STATUS BITS FOR DAE TO BE COPIED INTO AMDDATA FIELD S05STAT. MAPPED BY ADYDSTAT

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DSPD Cross Reference

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
Comment					
DS CL2 RESERVED					
End of Comment					
88	(58)	SIGNED	4	DSPSYMP	POINTER TO A SYMPTOM RECORD SUPPLIED AS INPUT TO SDUMP.
92	(5C)	CHARACTER	14		RESERVED

DSPD Cross Reference

Name	Hex Offset	Hex Value
DSPABDP	8	
DSPD	0	
DSPDSP	0	
DSPECPUI	16	
DSPEERAS	18	
DSPEERTM	1A	
DSPERID	14	
DSPESEQ#	14	
DSPEXTRC	10	
DSPFLG1	4A	
DSPFLG2	4C	
DSPHDR	C	
DSPID	0	
DSPNOAVL	4C	80
DSPPSVD1	22	
DSPPSVD2	36	
DSPSCNT	1E	
DSPSDMPH	4A	8
DSPSDS	4A	20
DSPSDWA	4	
DSPSLN	20	
DSPSTAT	4E	
DSPSVC	4A	80
DSPSYMP	58	
DSPSYSM	4A	40
DSPTERM	4A	10
DSPVSN	3	

DSTAT Programming Interface information

Programming Interface information

DSTAT

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

- DSTSEXT2

End of Programming Interface information

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DSTAT Heading Information

Common Name: DAE Action Status
Macro ID: ADYDSTAT
DSECT Name: DSTAT
Owning Component: DUMP ANALYSIS AND ELIMINATION (SC143)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: User Supplied
Key: User Supplied
Residency: User Supplied
Size: 8
Created by: N/A
Pointed to by: N/A
Serialization: NONE
Function: Map the dump status fields in the:

- DAE control block DSPD - DPSTAT
- SDWA - SDWADAE
- Dump header record - DAESTAT

DSTAT Map

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	DSTAT	, DUMP STATUS
0	(0)	CHARACTER	4	DSTDUMP (0)	REASONS FOR TAKING THE DUMP
0	(0)	CHARACTER	2	DSTDUMPM (0)	REASONS FOR TAKING THE DUMP THAT HAVE NO EFFECT ON MATCHING
0	(0)	BITSTRING	1	DSTDMPM1	FIRST BYTE OF FLAGS THAT HAVE NO EFFECT ON MATCHING
		1...		DSTUNIQ	"BIT0" NO MATCHING SYMPTOM STRING WAS FOUND ON THE QUEUE.
		.1..		DSTSLNOS	"BIT1" THE SLIP ACTION=NOSUP
		..1.		DSTSLIPD	"BIT2" THE DUMP WAS REQUESTED BY SLIP WITH ACTION=SVCDUMP OR TRDUMP
		...1		DSTNOS	"BIT3" DAE IS NOT SUPPRESSING THIS TYPE OF DUMP
		.... 1...		DSTERPRE	"BIT4" AN ERROR OCCURRED DURING PRE-DUMP PROCESSING
		.... .1..		DSTPSUP	"BIT5" PREVENT SUPPRESSION FLAG IN THE ABSENSE OF VRANODAE AND SUPPRESSALL DAE OPTION
		.... ..1.		DSTNOSUP	"BIT6" RECOVERY ROUTINE INDICATED NOT TO ALLOW SUPPRESSION
		1		DSTTKDMP	"BIT7" THE INSTALLATION EXPLICITLY REQUESTED THAT THIS DUMP BE TAKEN
1	(1)	BITSTRING	1	DSTDMPM2	SECOND BYTE OF FLAGS THAT HAVE NO EFFECT ON MATCHING
		1...		DSTDAEN	"BIT0" THIS SYMPTOM RECORD IS NOT TO BE USED FOR DUMP SUPPRESSION
		.1..		DST06F	"BIT1" This dump was not suppressed because the system allows all dumps with ABEND Code 06F (Which come from SLIP ACTION= RECOVERY).
		..1.		DSTPARTL	"BIT2" This dump was not suppressed because it was partial
2	(2)	CHARACTER	2	DSTDUMPN (0)	REASONS FOR TAKING THE DUMP WHERE NO MATCHING WILL BE DONE
2	(2)	BITSTRING	1	DSTDMPN1	FIRST BYTE OF FLAGS CONTAINING REASONS FOR TAKING THE DUMP WHERE NO MATCHING WILL BE DONE
		1...		DSTNSYMP	"BIT0" NO DATA WAS AVAILABLE TO EXTRACT SYMPTOMS FROM
		.1..		DSTEREXT	"BIT1" THE EXTRACT ROUTINE ADYEXT FAILED

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		..1.		DSTNODAE	"BIT2" PREDUMP COULD NOT ACCESS THE SYMPTOM QUEUE BECAUSE DAE WAS NOT ACTIVE
		...1		DSTNOREQ	"BIT3" ALL REQUIRED SYMPTOMS WERE NOT FOUND
		.... 1...		DSTNOMAT	"BIT4" MATCHING NOT REQUESTED
		.... .1..		DSTNOSLN	"BIT5" THE LENGTH OF THE MVS SYMPTOM STRING IS LESS THAN THE MINIMUM REQUIRED LENGTH
		.... ..1.		DSTNOSCT	"BIT6" THE COUNT OF SYMPTOMS FOUND IS LESS THAN THE MINIMUM COUNT REQUIRED
		1		DSTTRREQ	"BIT7" THE TRUNCATION OF THE SYMPTOM STRING CAUSED A REQUIRED SYMPTOM TO BE TRUNCATED
3	(3)	BITSTRING	1	DSTDMPN2	SECOND BYTE OF FLAGS CONTAINING REASONS FOR TAKING THE DUMP WHERE NO MATCHING WILL BE DONE
		1...		DSTERMCT	"BIT0" THE VRA CONTAINS A VRAMINSC KEY WHICH HAS AN INVALID AMOUNT SPECIFIED FOR THE MINIMUM NUMBE OF SYMPTOMS REQUIRED FOR UNIQUE DUMP ID.
		.1..		DSTERMLN	"BIT1" THE VRA CONTAINS A VRAMINSL KEY WHICH HAS AN INVALID SPECIFICATION FOR THE MINIMUM SYMPTOM STRING LENGTH REQUIRED FOR UNIQUE DUMP ID
		..1.		DSTERREQ	"BIT2" THE VRA CONTAINS A VRAREQ KEY WHICH HAS IN ITS LIST OF SYMPTOMS TO BE ADDED TO THE REQUIRED LIST, ONE OR MORE INVALID KEYS.
4	(4)	BITSTRING	1	DSTINFO	MISCELLANEOUS FLAGS
		1...		DSTSDUP	"BIT0" THE DUMP WAS SUPPRESSED BECAUSE A MATCH WAS FOUND
		.1..		DSTTRUM	"BIT1" MVS SYMPTOM STRING TRUNCATED TO 150 BYTES
		..1.		DSTDUP	"BIT2" DUPLICATE FOUND
		...1		DSTTRUR	"BIT3" RETAIN SYMPTOM STRING TRUNCATED TO 150 BYTES
		.... 1...		DSTHDROK	"BIT4" DAE HEADER BUILT SUCCESSFULLY
		.... .1..		DSTUSYMR	"BIT5" SYMPTOM STRINGS CREATED FROM A USER SYMPTOM RECORD.
		.... ..1.		DSTTRUS	"BIT6" USER SECONDARY SYMPTOM STRING WAS TRUNCATED
		1		DSTSCDUP	"BIT7" THE DUMP WAS SUPPRESSED BECAUSE A MATCH WAS FOUND ON THE CAPTURED DUMP QUEUE
5	(5)	CHARACTER	2	DSTSEXT (0)	ERRORS FROM SYMPTOM EXTRACTION
5	(5)	BITSTRING	1	DSTSEXT1	SYMPTOM EXTRACT FLAG BYTE ONE
		1...		DSTEROPT	"BIT0" THE VRA CONTAINS A VRAREQ KEY WHICH HAS IN ITS LIST OF SYMPTOMS TO BE ADDED TO THE OPTIONAL LIST, ONE OR MORE INVALID KEYS
		.1..		DSTERSDL	"BIT1" THE SDWAURAL OR SDWAVRAL VALUE IS INVALID
6	(6)	BITSTRING	1	DSTSEXT2	ERROR CONDITION IN ADYEXT
		1...		DSTERMAP	"BIT0" MAPX TABLE OVERFLOW
		.1..		DSTERUDT	"BIT1" UNKNOWN DATA TYPE FLAGS IN ADYEXTD TABLE
		..1.		DSTEREQO	"BIT2" DSXREQ OVERFLOW
		...1		DSTEOPTO	"BIT3" DSXOPT OVERFLOW
		.... 1...		DSTECVTO	"BIT4" CONVERSION AREA OVERFLOW
		.... .1..		DSTEDSXO	"BIT5" DSXTBLZ TABLE OVERFLOW
7	(7)	CHARACTER	1		RESERVED

DSTAT Cross Reference

Name	Hex Offset	Hex Value
DSTAT	0	
DSTDAEN	1	80
DSTDMPM1	0	
DSTDMPM2	1	
DSTDMPN1	2	
DSTDMPN2	3	
DSTDUMP	0	
DSTDUMPM	0	
DSTDUMPN	2	
DSTDUP	4	20
DSTECVTO	6	8
DSTEDSXO	6	4
DSTEOPTO	6	10
DSTEREQO	6	20
DSTEREXT	2	40
DSTERMAP	6	80
DSTERMCT	3	80
DSTERMLN	3	40
DSTEROPT	5	80
DSTERPRE	0	8
DSTERREQ	3	20
DSTERSDL	5	40
DSTERUDT	6	40
DSTHDROK	4	8
DSTINFO	4	
DSTNODAE	2	20
DSTNOMAT	2	8
DSTNOREQ	2	10
DSTNOS	0	10
DSTNOSCT	2	2
DSTNOSLN	2	4
DSTNOSUP	0	2
DSTNSYMP	2	80
DSTPARTL	1	20
DSTPSUP	0	4
DSTSCDUP	4	1
DSTSDUP	4	80
DSTSEXT	5	
DSTSEXT1	5	
DSTSEXT2	6	
DSTSLIPD	0	20
DSTSLNOS	0	40
DSTTKDMP	0	1
DSTTRREQ	2	1
DSTTRUM	4	40
DSTTRUR	4	10
DSTTRUS	4	2
DSTUNIQ	0	80
DSTUSYMR	4	4
DST06F	1	40

DSVCB Heading Information

Common Name: DUMPING SERVICES CONTROL BLOCK
Macro ID: IHADSVCB
DSECT Name: DSVCB
Owning Component: SVC Dump (SCDMP)
Eye-Catcher ID: DSV
Offset: 0
Length: 4
Storage Attributes: Main Storage: One per system
Subpool: 227
Key: 0
Residency: Below 16M
Size: 208 bytes (use macro variable DSVLEN)
Created by: IEAVTSDI
Pointed to by: RTCTDSV
Serialization: None
Function: IHADSVCB IS A MAPPING MACRO WHICH MAPS STORAGE USED TO CONTROL THE ACTIVITIES IN THE DUMPING SERVICES (DUMPSRV) ADDRESS SPACE.
THERE ARE SIX SECTIONS IN THE DSVCB.
1. MAIN SECTION CONTAINS POINTERS TO THE OTHER SECTIONS AND A CONTROL BLOCK IDENTIFIER.
2. COMMON SECTION CONTAINS FIELDS FOR CONTROL OF THE DUMPSRV ADDRESS SPACE.
3. DUMP DATA SET SECTION CONTAINS VARIABLES USED IN INITIALIZING AND PROCESSING THE DUMP DATA SETS.
4. EXIT SECTION CONTAINS VARIABLES USED IN PROCESSING POST DUMP EXITS.
5. DAE SECTION CONTAINS INFORMATION USED TO CONTROL THE DAE TRANSACTION PROCESSOR.
6. SDS SECTION CONTAINS INFORMATION USED TO CONTROL THE IEAVTSDS TASK IN DUMPSRV.

DSVCB Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	32	DSVCB	SDUMP DUMP DATA SET QUEUE
0	(0)	CHARACTER	4	DSVID	IDENTIFIER=DSV
4	(4)	ADDRESS	4	DSVPCOMM	POINTER TO COMMON SECTION WHICH IS USED FOR DUMPSRV ADDRESS SPACE CONTROL
8	(8)	ADDRESS	4	DSVPDDS	POINTER TO DUMP DATA SET SECTION
12	(C)	ADDRESS	4	DSVPEXIT	POINTER TO THE POST DUMP EXIT SECTION
16	(10)	ADDRESS	4	DSVPDAE	POINTER TO DAE SECTION
20	(14)	ADDRESS	4	DSVPSDS	POINTER TO IEAVTSDS SECTION
24	(18)	ADDRESS	4	DSVSST@	POINTER TO IEAVTSST SECTION
28	(1C)	ADDRESS	4	*	Reserved

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	24	DSVCOMM	DUMPSRV ADDRESS SPACE COMMON SECTION
0	(0)	CHARACTER	4	DSVCFLGS	FLAGS FOR COMMON SECTION

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DSVCB Map

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	CHARACTER	1	DSVCFLG1	1ST COMMON FLAG BYTE
4	(4)	CHARACTER	4	DSVC4EVR	ECB USED BY IEAVTDSV TO PUT THE ADDRESS SPACE INTO A WAIT
8	(8)	CHARACTER	2	DSVCRETC	RETURN CODE FROM DUMPSRV CREATION
10	(A)	CHARACTER	2	DSVCRSNC	REASON CODE FROM DUMPSRV CREATION
12	(C)	CHARACTER	1	DSVCMODC	MODULE CODE INDICATING WHICH MODULE FAILED 1 - IEEMB881 2 - IEAVTSAI
13	(D)	UNSIGNED	1	DSVCASCT	COUNT OF THE NUMBER OF TIMES THE ADDRESS SPACE HAS FAILED
14	(E)	CHARACTER	2	*	Reserved (Fullword boundary)
16	(10)	UNSIGNED	4	DSVCECBS	DSV WAITS FOR SDS'S ETXR TO POST INDICATING TERMINATION CAN CONTINUE
20	(14)	CHARACTER	4	*	Reserved

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	44	DSVDMPDS	DUMP DATA SET SECTION
0	(0)	CHARACTER	4	DSVDFLGS	FLAGS FOR DUMP DATA SET SECTION
0	(0)	CHARACTER	1	DSVDFLG1	FIRST DUMP DATA SET FLAG BYTE
		1...		DSVDQDAM	SVC DUMP DATA SET QUEUE IS DAMAGED. THE INITIALIZATION OF THE SDDSQ OR THE MODIFICATION OF THE SDDSQ BY THE DUMPDS COMMAND FAILED AND LEFT THE SDDSQ IN A DAMAGED STATE. NO FURTHER DUMPDS COMMANDS ARE ALLOWED.
		.1..		DSVDDSOK	0 - THE IEECB926 TASK IS NOT IN A STATE WHICH WOULD ALLOW THE DUMPDS COMMAND (IEECB923) TO POST IT. 1 - THE IEECB926 IS READY AND WAITING FOR IEECB923 TO POST IT.
		..1.		DSVDTTRM	0 - ON RESTART THE IEECB926 TASK MUST REALLOCATE ALL DUMP DATASETS. 1 - ON RESTART THE IEECB926 TASK DOESN'T HAVE TO REALLOCATE THE DUMP DATA SETS BECAUSE THE DUMPSRV A.S HAS NOT TERMINATED.
		...1		DSVD923W	IEECB923 IS WAITING TO BE POSTED BY CB926 OR IEAVTSDR
		.... 1...		DSVDINOK	1 - IEECB926 HAS SUCCESSFULLY COMPLETED INITIALIZATION OF THE SDDSQ
4	(4)	CHARACTER	4	DSVDECB1	ECB WAITED ON BY IEECB926 AND POSTED BY IEECB923.
8	(8)	CHARACTER	4	DSVDECB2	ECB WAITED ON BY IEECB923 AND POSTED BY IEECB926.
12	(C)	ADDRESS	4	DSVDDSPA	POINTER TO THE DUMPDS PARAMETER AREA DSPA, BUILT BY IEECB923
16	(10)	ADDRESS	4	DSVDCPID	CELL POOL ID USED TO IDENTIFY THE STORAGE POOL CONTAINING THE SDDSQ ENTRIES.
20	(14)	SIGNED	2	DSVDLPCT	LOOP COUNT OF THE NUMBER OF TIMES THE IEECB926 TASK TERMINATES WITHOUT SUCCESSFULLY PROCESSING A DUMPDS COMMAND
22	(16)	SIGNED	2	DSVS1TCT	Count of number of times the IEAVTS1T task terminates without successfully processing a remote SDUMP
24	(18)	ADDRESS	4	*	Reserved
28	(1C)	ADDRESS	4	DSVDTCBA	ADDRESS OF THE IEECB926 TASK
32	(20)	ADDRESS	4	DSVSBS@	Address of IEAVTSBS
36	(24)	ADDRESS	4	DSVS1TT@	TCB address of IEAVTS1T
40	(28)	ADDRESS	4	DSVJSTCB	IEAVTDSV - DUMPSRV Job Step task
44	(2C)	CHARACTER	0	*	

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	24	DSVEXPRC	POST DUMP EXIT SECTION
0	(0)	CHARACTER	4	DSVEFLGS	FLAGS FOR EXIT SECTION
0	(0)	CHARACTER	1	DSVEFLG1	FIRST EXIT FLAG BYTE

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
4	(4)	CHARACTER	4	DSVEECBE	ECB WHICH IS POSTED BY THE SVC DUMP CLEANUP MODULE (IEAVTSDC) WHEN POST DUMP EXIT PROCESSING IS TO BE INITIATED.
		1...		DSVEWAIT	1=IEAVTDSV IS WAITING FOR WORK
8	(8)	ADDRESS	4	DSVEANCH	ANCHOR POINTER FOR A CHAIN OF DSPD RECORDS WHICH ARE TO BE RUN THROUGH POST DUMP EXIT PROCESSING. ELEMENTS ARE ADDED TO THE CHAIN IN IEAVTSDC AND REMOVED FROM THE CHAIN IN IEAVTDSV.
12	(C)	ADDRESS	4	DSVEXCNT	COUNT OF THE NUMBER OF POST DUMP EXITS IN THE EXIT LIST POINTED TO BY DSVEXITS
16	(10)	ADDRESS	4	DSVEXITS	POINTER TO THE LIST OF ENTRY POINTS OF THE POST DUMP EXITS.
20	(14)	ADDRESS	4	*	RESERVED

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	*	DSVEXITL	POST DUMP EXIT LIST WHICH CONTAINS THE LIST OF ENTRY POINTS FOR THE POST DUMP EXITS. THIS TABLE IS BUILT WHEN THE DUMPSRV ADDRESS SPACE IS CREATED.
0	(0)	CHARACTER	16	DSVEXTBL (*)	POST DUMP EXIT TABLE
0	(0)	CHARACTER	8	DSVENAME	EBCDIC EXIT NAME TO BE USED BY RECOVERY TO RECORD THE CSECT IN ERROR
8	(8)	ADDRESS	4	DSVEXADR	LOAD ADDRESS OF EXIT IN THE DUMPSRV ADDRESS SPACE.
12	(C)	CHARACTER	4	DSVEXFLG	FULL WORD OF FLAGS ASSOCIATED WITH THE PARTICULAR EXIT ENTRY.
		1...		DSVEXALL	THIS EXIT IS TO RECEIVE CONTROL IN ALL CIRCUMSTANCES. THIS INCLUDES POST DUMP EXIT PROCESSING FOR DUMPS WHICH WERE TAKEN AS WELL AS SUPPRESSED

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	20	DSVDAE	
0	(0)	CHARACTER	4	DSVAFLGS	FLAGS FOR DAE SECTION
0	(0)	CHARACTER	1	DSVAFLG1	FIRST DAE FLAG BYTE
4	(4)	SIGNED	2	DSVALPCT	COUNT OF ADYTRNS TASK TERMINATIONS
6	(6)	SIGNED	2	*	RESERVED
8	(8)	ADDRESS	4	DSVATCBA	ADDRESS OF THE ADYTRNS TASK
12	(C)	ADDRESS	4	*	RESERVED
16	(10)	ADDRESS	4	*	RESERVED

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	32	DSVSDS	
0	(0)	SIGNED	2	DSVSLPCT	LOOP COUNT OF THE NUMBER OF TIMES THE IEAVTSDS TASK TERMINATES WITHOUT SUCCESSFULLY PROCESSING A DUMP COMMAND
2	(2)	CHARACTER	1	DSVSFLGS	IEAVTSDS Flag byte
		1...		DSVSABLE	IEAVTSDS is able to process dump
		.1..		DSVSFLB1	Reserved
		..1.		DSVSFLB2	Reserved
		...1		DSVSFLB3	Reserved
		.... 1...		DSVSFLB4	Reserved
		.... .1..		DSVSFLB5	Reserved
		.... ..1.		DSVSFLB6	Reserved
		1		DSVSFLB7	Reserved
3	(3)	UNSIGNED	1	*	RESERVED

DSVCB Cross Reference

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
4	(4)	ADDRESS	4	DSVSTCBA	ADDRESS OF THE IEAVTSDS TASK
8	(8)	ADDRESS	4	DSVSTCBF	ADDRESS OF SDS TASK FOR ETXR TO CHECK SINCE SDS ZEROES DSVSTCBA BEFORE PERCOLATING
12	(C)	CHARACTER	16	DSVSTTOK	TTOKEN OF THE SDS TASK
28	(1C)	ADDRESS	4	*	RESERVED

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	32	DSVSST	Dump index section
0	(0)	BITSTRING	2	DSVSSTFLAG	Flag bytes
2	(2)	SIGNED	2	DSVSSTCOUNT	Count of number of times the IEAVTSST task terminates without successfully processing an ADDDUMP request
4	(4)	ADDRESS	4	DSVSSTTCB@	TCB address of IEAVTSST
8	(8)	UNSIGNED	4	DSVSSTECB	ECB which is posted by IEAVTSSI when dump index processing is to be initiated
		1...		DSVSSTWAIT	IEAVTSST is waiting for work
12	(C)	UNSIGNED	4	DSVSSTQUEUE@	Queue header for chain of dump index request control blocks which are to be processed
16	(10)	UNSIGNED	4	DSVSSTDOMID	Dom ID for msg IEA651E
20	(14)	CHARACTER	12	*	Reserved

DSVCB Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
DSVAFLGS	0		DSVEXCNT	C	
DSVAFLG1	0		DSVEXFLG	C	
DSVALPCT	4		DSVEXITL	0	
DSVATCBA	8		DSVEXITS	10	
DSVCASCT	D		DSVEXPRC	0	
DSVCB	0		DSVEXTBL	0	
DSVCECBS	10		DSVID	0	
DSVCFLGS	0		DSVJSTCB	28	
DSVCFLG1	0		DSVPCOMM	4	
DSVCMODC	C		DSVPDAE	10	
DSVCOMM	0		DSVPDDS	8	
DSVCRETC	8		DSVPEXIT	C	
DSVCRSNC	A		DSVPSDS	14	
DSVC4EVR	4		DSVSABLE	2	80
DSVDAE	0		DSVSBS@	20	
DSVDCPID	10		DSVSDS	0	
DSVDDSOK	0	40	DSVSFLB1	2	40
DSVDDSPA	C		DSVSFLB2	2	20
DSVDECB1	4		DSVSFLB3	2	10
DSVDECB2	8		DSVSFLB4	2	08
DSVDFLGS	0		DSVSFLB5	2	04
DSVDFLG1	0		DSVSFLB6	2	02
DSVDINOK	0	08	DSVSFLB7	2	01
DSVDLPCT	14		DSVSFLGS	2	
DSVDMPDS	0		DSVSLPCT	0	
DSVDQDAM	0	80	DSVSST	0	
DSVDTCBA	1C		DSVSST@	18	
DSVDTTRM	0	20	DSVSSTCOUNT	2	
DSVD923W	0	10	DSVSSTDOMID	10	
DSVEANCH	8		DSVSSTECB	8	
DSVEECBE	4		DSVSSTFLAG	0	
DSVEFLGS	0		DSVSSTQUEUE@	C	
DSVEFLG1	0		DSVSSTTCB@	4	
DSVENAME	0		DSVSSTWAIT	8	80
DSVEWAIT	4	80	DSVSTCBA	4	
DSVEXADR	8		DSVSTCBF	8	
DSVEXALL	C	80	DSVSTTOK	C	

Name	Hex Offset	Hex Value
DSVS1TCT	16	
DSVS1TT@	24	

EAECB Programming Interface Information

Programming Interface Information

EAECB

End of Programming Interface Information

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EAECB Heading Information

Common Name: System Address Space Initialization Communication ECBs
Macro ID: IEZEAECB
DSECT Name: EAECB
Owning Component: System command - SVC 34 (SC1B8)
Subpool and Key: Subpool 245 and key 0
Size: 8 bytes
Created by: IEEMB881
Pointed to by: Register 2 upon exit from IEEMB881
Serialization: None
Function: Contains the two ECBs needed for communication between the caller of IEEMB881 and the system address space initialization routine and between IEEVWAIT and IEEMB883.

EAECB Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	EAECB	- COMMUNICATION ECBS
0	(0)	ADDRESS	4	EAERIMWT (0)	- ECB FOR NIP RIM TO WAIT ON
0	(0)	BITSTRING	1		-
1	(1)	BITSTRING	3	EAERIMPC	- POST CODE FOR EAERIMWT
4	(4)	ADDRESS	4	EAEASWT (0)	- ECB FOR INITIALIZATION ROUTINE TO WAIT ON
4	(4)	BITSTRING	1		-
5	(5)	BITSTRING	3	EAEASPC	- POST CODE FOR EAEASWT
5	(5)	X'8'	0	EAELAST	"*" END OF IEZEAECB

ECB Programming Interface information

Programming Interface information

ECB

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

- ECBEVTB
- ECBRB

End of Programming Interface information

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ECB Heading Information

Common Name: Event Control Block
Macro ID: IHAECB
DSECT Name: ECB, ECBE
Owning Component: Task Manager (SC1CL)
Eye-Catcher ID: None
Storage Attributes: Subpool: User defined
Key: User defined
Residency: User defined
Size: 4 bytes
Created by: User
Pointed to by: Resides in the user's area
ASCBQECB field of the ASCB data area (QUIESCE ECB)
CHEBP field of the CSCB data area (STOP/MODIFY ECB)
EVNTENTP field of the EVNT data area (completed ECB)
IOBECBPT field of the IOB data area (associated ECB)
QELECB field of the QEL data area (associated ECB)
SSALCNCL field of the SSOB (allocation) data area (CANCEL ECB)
SSRRSECB field of the SSOB (req/ret) data area (STOP ECB)
TCASXECB field of the TCAST data area (emergency RELEASE ECB)
TCASMECB field of the TCAST data area (STOP/MODIFY ECB)
TCASTECB field of the TCAST data area (terminate TSO ECB)
TCBECB field of the TCBECB data area (associated ECB)
TSBXECB field of the TSBX data area (cross memory reconnect ECB)
TVCSECB field of the TVCS data area (cross memory POST ECB)
TVWAECB field of the TVWA data area (terminal control EC)
TVWATECB field of the TVWA data area (timer ECB)
TVWAECB1 field of the TVWA data area (CANCEL ECB)
TVWAECB2 field of the TVWA data area (reconnect ECB)
TVWAECB3 field of the TVWA data area (timer ECB)
TWAMECB field of the TWAR data area (main task ECB)
TWAVECB field of the TWAR data area (VTAM interface ECB)
TWAUECB field of the TWAR data area (user interface ECB)
TWACECB field of the TWAR data area (console communications ECB)
Serialization: LOCAL lock, CS (compare and swap) instruction
Function: The ECB is the subject of WAIT, POST, and EVENTS macro instructions. It is used for communications among various components of the control programs as well as between problem programs and the control programs.

An ECB can be posted with a two-part completion code:

- Bits 1 through 7 are posted by data management and teleprocessing functions. This part of the completion code is described in the mapping of the ECB control block.

- Bits 8 through 31 are posted by all system components and by user-written programs. When a task is abnormally terminated, the ECB for the task is posted with an abnormal system completion code in bits 8 through 19, or with an abnormal user completion code in bits 20 through 31.

ECB Map

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	ECB	
0	(0)	SIGNED	4	ECBRB (0)	- REQUEST BLOCK ADDRESS (WHILE AWAITING COMPLETION OF AN EVENT)
0	(0)	ADDRESS	4	ECBEVTB (0)	- ADDRESS OF EVENT TABLE (MDC300)
0	(0)	ADDRESS	4	ECBEXTB (0)	- ADDRESS OF ECB EXTENSION (OS/VS2) (MDC305)
0	(0)	CHARACTER	1	ECBCC	- COMPLETION CODE BYTE
		1...		ECBWAIT	"X'80'" - WAITING FOR COMPLETION OF THE EVENT
		.1..		ECBPOST	"X'40'" - THE EVENT HAS COMPLETED
		..11		ECBUNWT	"X'30'" - ECB is "unwaited". (Normally used by ABTERM)
		.111 1111		ECBNORM	"X'7F'" - CHANNEL PROGRAM HAS TERMINATED WITHOUT ERROR. (CSW CONTENTS USEFUL.) FOR TCAM, WORK UNIT IN WORK AREA.
		.1.. ...1		ECBPERR	"X'41'" - CHANNEL PROGRAM HAS TERMINATED WITH PERMANENT ERROR. (CSW STATUS BYTES USEFUL. CCW ADDRESS MAY BE USEFUL OR ZEROS.) FOR BTAM, CHANNEL PROGRAM HAS COMPLETED WITH AN I/O ERROR.
		.1.. ..1.		ECBDAEA	"X'42'" - CHANNEL PROGRAM HAS TERMINATED BECAUSE A DIRECT ACCESS EXTENT ADDRESS HAS BEEN VIOLATED. (CSW CONTENTS DO NOT APPLY.) (ACCESS METHODS EXCEPT BTAM AND TCAM)
		.1.. ..11		ECBABEND	"X'43'" - I/O ABEND CONDITION OCCURRED FOR ERROR TRANSIENT LOADING TASK. (CSW CONTENTS DO NOT APPLY.) (ACCESS METHODS EXCEPT BTAM AND TCAM) (ICB415) XM2533
		.1.. .1..		ECBINCPT	"X'44'" - CHANNEL PROGRAM HAS BEEN INTERCEPTED BECAUSE OF PERMANENT ERROR ASSOCIATED WITH DEVICE END FOR PREVIOUS REQUEST. YOU MAY REISSUE THE INTERCEPTED REQUEST. (ACCESS METHODS EXCEPT BTAM AND TCAM)
		.1.. 1...		ECBREPRG	"X'48'" - REQUEST ELEMENT FOR CHANNEL PROGRAM HAS BEEN MADE AVAILABLE AFTER IT HAS BEEN PURGED. (CSW CONTENTS DO NOT APPLY.) (ACCESS METHODS OTHER THAN BTAM)
		.1.. 1...		ECBEHALT	"X'48'" - ENABLE COMMAND HALTED, OR I/O OPERATION PURGED. (BTAM)
		.1.. 1.11		ECBERPAB	"X'4B'" - ONE OF THE FOLLOWING ERRORS OCCURRED DURING TAPE ERROR RECOVERY PROCESSING - (1) THE CSW COMMAND ADDRESS IN THE IOB WAS ZEROS OR (2) AN UNEXPECTED LOAD POINT WAS ENCOUNTERED. (CSW CONTENTS DO NOT APPLY.) (ACCESS METHODS EXCEPT BTAM AND TCAM) ICB266
		.1.. 1111		ECBERPER	"X'4F'" - ERROR RECOVERY ROUTINES HAVE BEEN ENTERED BECAUSE OF DIRECT ACCESS ERROR BUT ARE UNABLE TO READ HOME ADDRESS OR RECORD 0. (CSW CONTENTS DO NOT APPLY.) (ACCESS METHODS EXCEPT BTAM AND TCAM)
		.111		ECBSETEO	"X'70'" - THE SETEOF MACRO WAS ISSUED IN THE MESSAGE COMMAND PROGRAM (NO WORK UNIT IN WORK AREA) (TCAM)
		.1.1 11..		ECBDMQDS	"X'5C'" - CONGESTED DESTINATION MESSAGE QUEUE DATA SET (WRITE ONLY) (TCAM)
		.1.1 1...		ECBSEQER	"X'58'" - SEQUENCE ERROR (TCAM)
		.1.1 .1..		ECBINVMD	"X'54'" - INVALID MESSAGE DESTINATION (TCAM)
		.1.1 ..1.		ECBWKOVR	"X'52'" - WORK AREA OVERFLOW (TCAM)
		.1.1		ECBNOMSG	"X'50'" - MESSAGE WAS NOT FOUND WHEN READ MACRO WAS ISSUED IN CONJUNCTION WITH POINT MACRO TO RETRIEVE A MESSAGE (TCAM)
		.1..		ECBDTRAQ	"X'40'" - DATA IS ON READ-AHEAD QUEUE (TCAM)
		.... ..1.		ECBEOQ	"X'02'" - END-OF-QUEUE CONDITION (NOT END-OF-FILE) (TCAM)
		1		ECBRAQMT	"X'01'" - READ-AHEAD QUEUE EMPTY, BUT DESTINATION QUEUE NOT EMPTY (TCAM)

ECB Cross Reference

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
1	(1)	ADDRESS	3	ECBRBA (0)	- REQUEST BLOCK ADDRESS (WHILE AWAITING COMPLETION OF AN EVENT)
1	(1)	ADDRESS	3	ECBEVTBA (0)	- ADDRESS OF EVENT TABLE (MDC302)
1	(1)	ADDRESS	3	ECBEXTBA (0)	- ADDRESS OF ECB EXTENSION (OS/VS2) (MDC306)
1	(1)	CHARACTER	3	ECBCCCNT (0)	- ZEROES OR REMAINDER OF COMPLETION CODE (AFTER COMPLETION OF THE EVENT)
1	(1)	CHARACTER	2		- FIRST TWO BYTES OF ECBEVTBA
3	(3)	BITSTRING	1	ECBBYTE3	- THIRD BYTE OF ECBEVTBA (MDC303)
		11		ECBEXTND	"X'03'" - ECB EXTENSION EXISTS (OS/VS2) (MDC307)
		1		ECBEVNT	"X'01'" - EXTENDED FORMAT ECB (MDC304)

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	ECBE	- ECB EXTENSION (OS/VS2) (MDC308)
0	(0)	SIGNED	4	ECBEDESC (0)	- DESCRIPTOR WORD (MDC309)
0	(0)	BITSTRING	1	ECBEVAL	- FUNCTION CODE (MDC310)
		1		ECBEEXIT	"X'01'" - EXIT ROUTINE REQUEST (MDC311)
1	(1)	CHARACTER	1	ECBEFLG1	- FLAG BYTE
		1...		ECBEMODE	"X'80'" ADDRESSING MODE OF EXIT -- 1 => 31-BIT MODE, 0 => 24
2	(2)	CHARACTER	1	ECBERES2	- RESERVED (MDC313)
3	(3)	CHARACTER	1	ECBERES3	- RESERVED (MDC314)
4	(4)	ADDRESS	4	ECBEPIND (0)	- POST INPUT DATA (MDC315)
4	(4)	ADDRESS	4	ECBEEXAD	- POST EXIT ADDRESS
4	(4)	X'8'	0	ECBEEND	"*" - END OF ECB EXTENSION (MDC316)

ECB Cross Reference

Name	Hex Offset	Hex Value
ECB	0	
ECBABEND	0	43
ECBBYTE3	3	
ECBCC	0	
ECBCCCNT	1	
ECBDAEA	0	42
ECBDMQDS	0	5C
ECBDTRAQ	0	40
ECBE	0	
ECBEDESC	0	
ECBEEND	4	8
ECBEEXAD	4	
ECBEEXIT	0	1
ECBEFLG1	1	
ECBEHALT	0	48
ECBEMODE	1	80
ECBEOQ	0	2
ECBEPIND	4	
ECBERES2	2	
ECBERES3	3	
ECBERPAB	0	4B
ECBERPER	0	4F
ECBEVAL	0	
ECBEVNT	3	1
ECBEVTB	0	
ECBEVTBA	1	
ECBEXTB	0	
ECBEXTBA	1	
ECBEXTND	3	3
ECBINCPT	0	44
ECBINVMD	0	54
ECBNOMSG	0	50
ECBNORM	0	7F
ECBPERR	0	41
ECBPOST	0	40
ECBRAQMT	0	1
ECBRB	0	
ECBRBA	1	
ECBREPRG	0	48
ECBSEQER	0	58
ECBSETEO	0	70
ECBUNWT	0	30
ECBWAIT	0	80
ECBWKOVR	0	52

ECVT Programming Interface information

Programming Interface information

ECVT

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

- ECVTAPPC
- ECVTCLNU
- ECVTCLON
- ECVTCRDT
- ECVTCSM
- ECVTCTBL
- ECVTDLPF
- ECVTDLPL
- ECVTDPQH
- ECVTFLG1
- ECVTGMOD
- ECVTHDNM
- ECVTIPA
- ECVTLPNM
- ECVTOEXT
- ECVTOMVS
- ECVTPIDN
- ECVTPMOD
- ECVTPNAM
- ECVTPOWN
- ECVTPREL
- ECVTPSEQ
- ECVTPVER
- ECVTSLID
- ECVTSPLX
- ECVTSYMT
- ECVTTCP
- ECVTVMNM
- ECVTVSER

End of Programming Interface information

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ECVT Heading Information

Common Name: Extended Communications Vector Table
Macro ID: IHAECVT
DSECT Name: ECVT
Owning Component: Supervisor Control (SC1C5)
Eye-Catcher ID: ECVT
Offset: 0
Length: 4
Storage Attributes: Residency: EXTENDED NUCLEUS, Above 16M line
Size: Offset of ECVTEND minus the offset of ECVT
Created by: IEAVECVT
Pointed to by: CVTECVT
Serialization: Dependent on the specific field (see field descriptions)
Function: The ECVT is a logical extension of the CVT.

ECVT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	ECVT	
0	(0)	CHARACTER	4	ECVTECVT	ECVT ACRONYM
4	(4)	ADDRESS	4	ECVTCPLX	- ADDRESS OF IXCCPLX CONTROL BLOCK. OWNERSHIP: XCF. SERIALIZATION: N/A.
8	(8)	CHARACTER	8	ECVTSPLX	- SYSPLEX NAME USED FOR DEBUGGING. OWNERSHIP: XCF. SERIALIZATION: N/A.
16	(10)	SIGNED	4	ECVTSPLE	- SYSPLEX PARTITIONING ECB THAT IS POSTED TO WAKE UP THE SYSPLEX PARTITIONING MANAGER. OWNERSHIP: XCF. SERIALIZATION: SYSPLEX PARTITIONING TASK.
20	(14)	ADDRESS	4	ECVTSPLQ	- SYSPLEX PARTITIONING QUEUE. CONTAINS SYSPLEX PARTITIONING WORK ELEMENTS. OWNERSHIP: XCF. SERIALIZATION: COMPARE AND SWAP.
24	(18)	ADDRESS	4	ECVTSTC1	"V(IEATSTC1)" - STCKSYNC, NON-AR MODE, NO ETRID REQUESTED. OWNERSHIP: TIMER. SERIALIZATION: NONE.
28	(1C)	ADDRESS	4	ECVTSTC2	"V(IEATSTC2)" - STCKSYNC, NON-AR MODE, ETRID REQUESTED. OWNERSHIP: TIMER. SERIALIZATION: NONE.
32	(20)	ADDRESS	4	ECVTSTC3	"V(IEATSTC3)" - STCKSYNC, AR MODE, NO ETRID REQUESTED. OWNERSHIP: TIMER. SERIALIZATION: NONE.
36	(24)	ADDRESS	4	ECVTSTC4	"V(IEATSTC4)" - STCKSYNC, AR MODE, ETRID REQUESTED. OWNERSHIP: TIMER. SERIALIZATION: NONE.
40	(28)	ADDRESS	4	ECVTAPPC	- ANCHOR FOR APPC DATA STRUCTURES OWNERSHIP: MVS/APPC SERIALIZATION: NONE
44	(2C)	ADDRESS	4	ECVTSCH	- ANCHOR FOR APPC SCHEDULER DATA STRUCTURES OWNERSHIP: MVS/APPC SERIALIZATION: NONE
48	(30)	BITSTRING	4	ECVTIOSF (0)	IOS FLAGS OWNERSHIP: IOS
48	(30)	BITSTRING	1	ECVTIOS1	- IOS FLAGS BYTE 1 SERIALIZATION: NONE
		1...		ECVTCHSC	"X'80'" - RESERVED FOR IBM USE
49	(31)	BITSTRING	1	ECVTIOS2	- RESERVED.
50	(32)	BITSTRING	1	ECVTIOS3	- RESERVED.
51	(33)	BITSTRING	1	ECVTIOS4	- RESERVED.
52	(34)	ADDRESS	4	ECVTOMDA	- ADDRESS OF THE OPERATIONS MEASUREMENT DATA GATHERER IEAVG708. OWNERSHIP: CONSOLE SERVICES. SERIALIZATION: NONE.
56	(38)	BITSTRING	3	ECVTR038	- RESERVED.
59	(3B)	BITSTRING	1	ECVTALOC	- Ownership: Allocation Serialization: None (Set during NIP)
		1...		ECVTWARN	"X'80'" - Warn about allocations that specify 2-digit expiration years
		.1..		ECVTFAIL	"X'40'" - Fail allocations that specify 2-digit expiration years

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
60	(3C)	ADDRESS	4	ECVTBPMS	- BELOW 16M, PAGEABLE DEVICE SUPPORT MODULES, STARTING ADDRESS. OWNERSHIP: CONTENTS SUPERVISION. SERIALIZATION: NONE.
64	(40)	ADDRESS	4	ECVTBPME	- BELOW 16M, PAGEABLE DEVICE SUPPORT MODULES, ENDING ADDRESS. OWNERSHIP: CONTENTS SUPERVISION. SERIALIZATION: NONE.
68	(44)	ADDRESS	4	ECVTAPMS	- ABOVE 16M, PAGEABLE DEVICE SUPPORT MODULES, STARTING ADDRESS. OWNERSHIP: CONTENTS SUPERVISION. SERIALIZATION: NONE.
72	(48)	ADDRESS	4	ECVTAPME	- ABOVE 16M, PAGEABLE DEVICE SUPPORT MODULES, ENDING ADDRESS. OWNERSHIP: CONTENTS SUPERVISION. SERIALIZATION: NONE.
76	(4C)	ADDRESS	4	ECVTQUCB	- XCF DATA AREA (IXCYQUCB) ANCHOR. OWNERSHIP: XCF. SERIALIZATION: N/A.
80	(50)	DBL WORD	8	ECVTSSDD (0)	- DOUBLE WORD USED TO COMPARE DOUBLE AND SWAP ECVTSSDF AND ECVTSSDS. SERIALIZATION: CDS. OWNERSHIP: SUPERVISOR CONTROL.
80	(50)	ADDRESS	4	ECVTSSDF	- THE ADDRESS OF THE FREE SSD QUEUE. SERIALIZATION: CS WHEN ADDING AN SSD TO THE FREE QUEUE. CDS ON ECVTSSDD WHEN REMOVING AN SSD FROM THE FREE QUEUE. OWNERSHIP: SUPERVISOR CONTROL.
84	(54)	SIGNED	4	ECVTSSDS	- SEQUENCE NUMBER INCREMENTED WHEN SSDS ARE REMOVED FROM THE FREE SSD QUEUE. USED TO SERIALIZE THE FREE SSD QUEUE. OWNERSHIP: SUPERVISOR CONTROL.
88	(58)	BITSTRING	4	ECVTR058	- RESERVED
92	(5C)	ADDRESS	4	ECVTSRBT	- THE ADDRESS OF THE SSD RESOURCE MANAGER. OWNERSHIP: SUPERVISOR CONTROL.
96	(60)	ADDRESS	4	ECVTDPQH	Queue of DU-AL Pools (DPHs) Ownership: PC Auth Serialization: Disp lock
100	(64)	ADDRESS	4	ECVTTCRE	- IEAVTCRE ENTRY POINT ADDRESS. OWNERSHIP: ACR. SERIALIZATION: NONE.
104	(68)	SIGNED	4	(0)	- ALIGN ECVTXCFG ON A WORD BDY
104	(68)	BITSTRING	16	ECVTXCFG	SYSPLEX CONFIGURATION REQUIREMENTS. OWNERSHIP: XCF. SERIALIZATION: SYSTEM INITIALIZATION.
120	(78)	ADDRESS	4	ECVTR078	- RESERVED. DO NOT USE.
124	(7C)	ADDRESS	4	ECVTR07C	- RESERVED. DO NOT USE.
128	(80)	ADDRESS	4	ECVTSCHA	"V(IEAVSCHA)" - THE ADDRESS OF IEAVSCHA. SCHEDULE WITH ADDRESSABILITY. OWNERSHIP: SUPERVISOR CONTROL. SERIALIZATION: NONE.
132	(84)	BITSTRING	4	ECVTR084	- RESERVED.
136	(88)	ADDRESS	4	ECVTDLCB	Address of DLCB (CSVDLCB) for the current LNKLST set. Serialization: ENQ Ownership: CSV
140	(8C)	ADDRESS	4	ECVTNTTP	- ADDRESS OF SYSTEM LEVEL NAME/TOKEN HEADER. OWNERSHIP: SUPERVISOR CONTROL. SERIALIZATION: CMS LOCK.
144	(90)	BITSTRING	8	ECVTR090	- RESERVED.
152	(98)	ADDRESS	4	ECVTMSCH	- THE ADDRESS OF SLM MESSAGE SUBCHANNEL LIST. OWNERSHIP: SYSTEM LOCK MANAGER SERIALIZATION: NIP.
156	(9C)	ADDRESS	4	ECVTCAL	- THE ADDRESS OF SLM COMMON AREA LIST. OWNERSHIP: SYSTEM LOCK MANAGER SERIALIZATION: NIP.
160	(A0)	BITSTRING	8	ECVTLOAD	- EDITED MVS LOAD PARAMETER OWNERSHIP: IPL. SERIALIZATION: NONE.
168	(A8)	BITSTRING	8	ECVTMLPR	- LOAD parameter used for this IPL. OWNERSHIP: IPL. SERIALIZATION: NONE.
176	(B0)	ADDRESS	4	ECVTTCP	- Token used by TCP/IP OWNERSHIP: TCPIP SERIALIZATION: Compare and Swap during TCPIP initialization
180	(B4)	BITSTRING	4	ECVTR0B4	- RESERVED.

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
184	(B8)	ADDRESS	4	ECVTNVDM	- NETVIEW DM TCP ID BLOCK POINTER OWNERSHIP: NETVIEW DISTRIBUTION MANAGER. SERIALIZATION: NONE.
188	(BC)	BITSTRING	4	ECVTR0BC	- RESERVED. DO NOT USE.
192	(C0)	ADDRESS	4	ECVTGRMP	- GRM DATA BLOCK POINTER OWNERSHIP: GRAPHICS RESOURCE MONITOR SERIALIZATION: TEST AND SET ON THE HIGH ORDER BYTE.
196	(C4)	ADDRESS	4	ECVTWLM	- WLM VECTOR TABLE POINTER OWNERSHIP: WLM. SERIALIZATION: NONE.
200	(C8)	ADDRESS	4	ECVTCSM	- Pointer to Communication Storage Manager control structure OWNERSHIP: VTAM (Communications Storage Manager(CSM)) SERIALIZATION: ENQUEUE/DEQUEUE
204	(CC)	ADDRESS	4	ECVTCTBL	"V(CSRCTABL)" Customer anchor table. Slots assigned by IBM. Ownership: Callable Services. Serialization: None
208	(D0)	ADDRESS	4	ECVTPMCS	"V(IEAVPMCS)" STATUS SET,MC,PROCESS SERVICE ROUTINE ADDRESS. OWNERSHIP: SUPERVISOR CONTROL. SERIALIZATION: NONE.
212	(D4)	ADDRESS	4	ECVTPMCR	"V(IEAVPMCR)" STATUS RESET,MC,PROCESS SERVICE ROUTINE ADDRESS WITHIN MODULE IEAVFMCS. OWNERSHIP: SUPERVISOR CONTROL. SERIALIZATION: NONE.
216	(D8)	ADDRESS	4	ECVTSTX1	"V(IEAVAX01)" STAX DEFER=YES,LINKAGE=BRANCH SERVICE ROUTINE ADDRESS. OWNERSHIP: RCT. SERIALIZATION: NONE.
220	(DC)	ADDRESS	4	ECVTSTX2	"V(IEAVAX02)" STAX DEFER=NO,LINKAGE=BRANCH SERVICE ROUTINE ADDRESS WITHIN MODULE IEAVAX01. OWNERSHIP: RCT. SERIALIZATION: NONE.
224	(E0)	BITSTRING	4	ECVTSLID	- CONTAINS THE SLIP PER TRAP ID OR BINARY ZEROS. OWNERSHIP: SLIP SERIALIZATION: NONE.
228	(E4)	ADDRESS	4	ECVTCSVT	- CSV TABLE. OWNERSHIP: CSV SERIALIZATION: SET DURING NIP
232	(E8)	ADDRESS	4	ECVTASA	- ASA TABLE. OWNERSHIP: ASA SERIALIZATION: SET DURING NIP
236	(EC)	ADDRESS	4	ECVTEXPM	"V(IEAVEXPM)" - GETXSB SERVICE ROUTINE. OWNERSHIP: SUPERVISOR CONTROL. SERIALIZATION: NONE.
240	(F0)	ADDRESS	4	ECVTOCVT	- ANCHOR FOR OpenMVS COMMUNICATION VECTOR TABLE. OWNERSHIP: OpenMVS. SERIALIZATION: COMPARE AND SWAP DURING OpenMVS INITIALIZATION.
		1...		ECVTOMVS	"X'80'" If on, OpenMVS is up and available.
244	(F4)	ADDRESS	4	ECVTOEXT	- ANCHOR FOR OpenMVS EXTERNAL DATA THAT NEEDS TO BE ACCESSED BY NON-MVS CODE. OWNERSHIP: OpenMVS. SERIALIZATION: COMPARE AND SWAP DURING OpenMVS INITIALIZATION. (NEVER CHANGED AFTER INITIALIZATION)
248	(F8)	ADDRESS	4	ECVTCMPS	"V(CSRCMPSS)" - Address of the Compression Service routine. OWNERSHIP: Callable Services. SERIALIZATION: None.
252	(FC)	ADDRESS	4	ECVTNUCP	- Pointer to nucleus dataset name, VOL=SER, and its UCB. OWNERSHIP: NIP SERIALIZATION: None.
256	(100)	ADDRESS	4	ECVTXRAT	- XES anchor table for branch entry routine addresses. OWNERSHIP: XES. SERIALIZATION: None.
260	(104)	ADDRESS	4	ECVTPWVT	- Address of the Processor Workunit Queue Vector Table (PWVT). SERIALIZATION: None. OWNERSHIP: Supervisor Control
264	(108)	CHARACTER	2	ECVTCLON	- 1 or 2 character value used to identify a system within a sysplex. Valid values are A-Z, 0-9, $, @, #. Not valid if blank. Serialization: None. Ownership: Supervisor Control.
266	(10A)	ADDRESS	1	ECVTGMOD	GRS mode of operation OWNERSHIP: GRS. SERIALIZATION: None.
266	(10A)	X'0'	0	ECVTGNON	"0" GRS operating with option NONE.
266	(10A)	X'1'	0	ECVTGRNG	"1" GRS operating in ring mode.
266	(10A)	X'2'	0	ECVTGSTA	"2" GRS operating in star mode.
267	(10B)	BITSTRING	15	ECVTR10B	- RESERVED.

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
282	(11A)	SIGNED	2	ECVTPTIM	Time value for Parallel Detach processing OWNERSHIP: RTM SERIALIZATION: None
284	(11C)	ADDRESS	4	ECVTJCCT	- Address of the JES communication control table. OWNERSHIP: JES. SERIALIZATION: None.
288	(120)	ADDRESS	4	ECVTLSAB	"V(IXGLSAB)" - Pointer to Logger Services Anchor Block. OWNERSHIP: IXG. SERIALIZATION: None.
292	(124)	ADDRESS	4	ECVTETPE	"V(IEAVETPE)" Addr of routine IEAVETPE. Serialization: None. Ownership: Supervisor Control
296	(128)	ADDRESS	4	ECVTSYMT	Address of the system static symbol table. Serialization: None. Ownership: NIP
300	(12C)	ADDRESS	4	ECVTESYM	"V(IEAVESYM)" Address of IEAVESYM routine. Serialization: None. Ownership: NIP
304	(130)	BITSTRING	4	ECVTFLGS (0)	Miscellaneous Flags Serialization: None. Ownership: NIP
304	(130)	BITSTRING	1	ECVTFLG1	First miscellaneous flag Serialization: None. Ownership: NIP
		1...		ECVTCLNU	"X'80'" When set, this flag indicates that the system static symbol &SYSCLONE value defined in an IEASYMxx member used for this IPL must be unique in the SYSPLEX. Serialization: None. Ownership: NIP
		.1..		ECVTPMAC	"X'40'" Serialization: None. Ownership: NIP
305	(131)	BITSTRING	3		
308	(134)	ADDRESS	4	ECVTESY1	"V(IEAVESY1)" Address of routine IEAVESY1. Serialization: None. Ownership: NIP
312	(138)	ADDRESS	4	ECVTPETM	"V(IEAVPETM)" Addr of routine IEAVPETM Serialization: None Ownership: Supervisor Control
316	(13C)	ADDRESS	4	ECVTETPT	"V(IEAVETPT)" Addr of routine IEAVETPT Serialization: None Ownership: Supervisor Control
320	(140)	ADDRESS	4	ECVTENVT	- Pointer to Enclave Vector Table (ENVT). OWNERSHIP: SRM SERIALIZATION: SRM lock, if updated after NIP
324	(144)	SIGNED	4	ECVTVSER	Reserved for use by VSE Ownership: VSE Serialization: none
328	(148)	ADDRESS	4	ECVTLSEN	"V(IEAVLSEN)" Address of module IEAVLSEN
332	(14C)	ADDRESS	4	ECVTDGNB	"V(IGVDGNBT)" Address of DGNB Serialization: None. Ownership: VSM
336	(150)	CHARACTER	8	ECVTHDNM	Hardware name of the processor configuration. Serialization: None. Ownership: NIP
344	(158)	CHARACTER	8	ECVTLPNM	LPAR name of the processor configuration. This field is blanks if processor is not in LPAR mode. Serialization: None. Ownership: NIP
352	(160)	CHARACTER	8	ECVTVMNM	VM userid of the virtual machine, of which this MVS image is is a guest. This field is blanks if the processor is not a guest under VM. Serialization: None. Ownership: NIP
360	(168)	ADDRESS	4	ECVTGRM	"V(CRG52GRM)" Address of routine CRG52GRM Serialization: None. Ownership: Context Services
364	(16C)	ADDRESS	4	ECVTSEIF	"V(CRG52SEI)" Address of routine CRG52SEI. Serialization: None. Ownership: Context Services
368	(170)	ADDRESS	4	ECVTAES	"V(IEAVEAES)" Address of routine IEAVEAES. Serialization: None. Ownership: Supervisor Control
372	(174)	ADDRESS	4	ECVTRSMT	Address of registration services management table. Serialization: None. Ownership: Context Services
376	(178)	CHARACTER	16	ECVTMMEM	Exit manager name of the mvs miscellaneous event exit manager Serialization: None. Ownership: Supervisor Control
392	(188)	ADDRESS	4	ECVTIPA	Address of the Initialization Parameter Area Serialization: None. Ownership: NIP
396	(18C)	BITSTRING	16	ECVTMMET	- Exit Manager Token of the MVS Miscellaneous Event Exit Manager Serialization: None. Ownership: Supervisor Control
412	(19C)	ADDRESS	4	ECVTMMEQ	MVS Miscellaneous Event Exit Manager RM_TOKEN Queue Serialization: REGSRV EXCL lock. Ownership: Supervisor Control
416	(1A0)	ADDRESS	4	ECVTMMEA	Address of the MVS Miscellaneous Event Exit Manager Resource Manager Token Array. Serialization: REGSRV EXCL lock. Ownership: Supervisor Control.
420	(1A4)	ADDRESS	4	ECVTEAEX	"V(IEAVEAEX)" Address of routine IEAVEAEX. Serialization: None. Ownership: Supervisor Control
424	(1A8)	ADDRESS	4	ECVTEAUX	"V(IEAVEAUX)" Address of routine IEAVEAUX. Serialization: None. Ownership: Supervisor Control

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
428	(1AC)	ADDRESS	4	ECVTMMEC	Count of RMs registered with MVS Miscellaneous Event Exit Manager Serialization: REGSRV EXCL Lock. Ownership: Supervisor Control
432	(1B0)	ADDRESS	4	ECVTIPST	Address of IPST Serialization: None. Ownership: NIP
436	(1B4)	ADDRESS	4	ECVTRRSW	Address of the RRS world object Serialization: None. Ownership: RRS
440	(1B8)	ADDRESS	4	ECVTRRTT	"V(ATRSMEOT)" RRS EOT Resmgr address with Amode indicator set on Serialization: None Ownership: RRS
444	(1BC)	ADDRESS	4	ECVTRRMT	"V(ATRSMEOM)" RRS EOM Resmgr Address with Amode indicator set on Serialization: None Ownership: RRS
448	(1C0)	ADDRESS	4	ECVTPRED	Product Enable/Disable block Serialization: None. Ownership: SMF
452	(1C4)	BITSTRING	16	ECVTCEMT	- Exit Manager Token of the Context Services Exit Manager. Serialization: None Ownership: Context Services
468	(1D4)	ADDRESS	4	ECVTCEME	"V(CTXEMGRE)" Address of routine CTXEMGRE. Serialization: None. Ownership: Context Services
472	(1D8)	ADDRESS	4	ECVTCEMR	"V(CTXCEMGR)" Address of routine CTXCEMGR. Serialization: None. Ownership: Context Services Serialization: None.
476	(1DC)	SIGNED	4	ECVTPSEQ	Product sequence number. This field will be changed any new version, release, or modification level is provided. It can be used to determine if the operating system is at a suitable level for a desired function. Its value will always increase from one release/mod level to the next.
480	(1E0)	CHARACTER	16	ECVTPOWN	Product owner
496	(1F0)	CHARACTER	16	ECVTPNAM	Product name.
512	(200)	CHARACTER	2	ECVTPVER	Product version
514	(202)	CHARACTER	2	ECVTPREL	Product release
516	(204)	CHARACTER	2	ECVTPMOD	Product mod level
518	(206)	BITSTRING	1	ECVTR206	Reserved
519	(207)	BITSTRING	1	ECVTTTFL	Transaction Trace flags. Serialization: None Ownership: Transaction Trace
		1...		ECVTTTRC	"X'80'" Transaction Trace has been 'turned on'.
		.1..		ECVTTATF	"X'40'" If set on, TTrace is not active due to ATTACHX failure.
		..1.		ECVTTESF	"X'20'" If set on, TTrace is not active due to ESTAE failure.
		...1		ECVTTGMF	"X'10'" If set on, TTrace is not active due to GETMAIN failure.
		.... 1...		ECVTTABT	"X'08'" If set on, TTrace is not active due to abnormal termination.
520	(208)	ADDRESS	4	ECVTCURX	"V(CTXCSURX)" Address of routine CTXCSURX. Serialization: None. Ownership: Context Services
524	(20C)	ADDRESS	4	ECVTCTXR	"V(CTXRSMGR)" Addr of routine CTXRSMGR. Serialization: None. Ownership: Context Services
528	(210)	ADDRESS	4	ECVTCRGR	"V(CRGRSMGR)" Addr of routine CRGRSMGR. Serialization: None. Ownership: Context Services
532	(214)	ADDRESS	4	ECVTCSRB	"V(CTXSRB)" Addr of routine CTXSRB. Serialization: None Ownership: Context Services
536	(218)	ADDRESS	4	ECVTREM1	"V(CRGRREM1)" Addr of routine CRGRREM1 entry point in module CRGRREMD. Serialization: None. Ownership: Context Services
540	(21C)	ADDRESS	4	ECVTREM2	"V(CRGRREM2)" Addr of routine CRGRREM2 entry point in module CRGRREMD. Serialization: None. Ownership: Context Services
544	(220)	ADDRESS	4	ECVTXFR3	"V(IEAVXFR3)" Addr of routine IEAVXFR3 entry point Serialization: None. Ownership: PC Auth
548	(224)	ADDRESS	4	ECVTR224	Reserved
552	(228)	ADDRESS	4	ECVTDLPF	Address of first CDE on dynamic LPA queue. Ownership: CSV Only CSV is allowed to change this. Serialization: CMS Lock
556	(22C)	ADDRESS	4	ECVTDLPL	Address of last CDE on dynamic LPA queue. It is intended that the CDHAIN field of this CDE point to the CDE pointed to by the word pointed to by CVTQLPAQ Ownership: CSV Only CSV is allowed to change this. Serialization: CMS Lock
560	(230)	ADDRESS	4	ECVTSRBR	"V(IEAVSYN6)" Return for T6EXIT RETURN=SRBSUSP Serialization: None. Ownership: Supervisor control

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
564	(234)	ADDRESS	4	ECVTBCBA	Address of SOMObjects data structure Ownership: SOMObjects for OS/390 Serialization: CS
568	(238)	CHARACTER	8	ECVTPIDN	PID number
576	(240)	DBL WORD	8	ECVTRMD (0)	Double word for the CRGREMD Parameter List Free Pool.
576	(240)	ADDRESS	4	ECVTRMDP	CRGREMD Parameter List Free Pool Ptr Ownership: Registration Services. Serialization: CDS on ECVTRMD
580	(244)	SIGNED	4	ECVTRMDS	CRGREMD Parameter List Free Pool Sequence Number. Ownership: Registration Services. Serialization: CDS on ECVTRMD
584	(248)	ADDRESS	4	ECVTRSU1	"V(IEAVRSU1)" Addr of routine IEAVRSU1 (Resume with sequence number. Serialization: None. Ownership: Supervisor Control.
588	(24C)	ADDRESS	4	ECVTPEST	Address of the Pause Element Segment Table. Serialization: Dispatcher lock Ownership: Supervisor Control.
592	(250)	DBL WORD	8	ECVTCDYA (0)	Double word for the Context Services Dynamic area pool.
592	(250)	ADDRESS	4	ECVTCDYN	Context Services Dynamic Area Free Pool. Ownership: Context Services. Serialization: CDS on ECVTCDYA
596	(254)	ADDRESS	4	ECVTCDYS	Context Services Dynamic Area Free Pool Sequence Number Ownership: Context Services. Serialization: CDS on ECVTCDYA
600	(258)	BITSTRING	8	ECVTEORM	- Potential real high storage address
608	(260)	ADDRESS	4	ECVTCBLS	"V(IEAVCBLS)" Addr of IEAVCBLS (see IHACBLS)
612	(264)	ADDRESS	4	ECVTRINS	Address of RRS installed function block (ATRRINST) Ownership: RRS
616	(268)	ADDRESS	4	ECVTTTCA	Address of Transaction Trace Communications Area. Serialization: None Ownership: Transaction Trace
620	(26C)	ADDRESS	4	ECVTLCXT	Address of LCCXVT
624	(270)	BITSTRING	4	ECVTOESI	- When non-zero, orig SCCBMESI
628	(274)	BITSTRING	4	ECVTOXSB	- When non-zero, orig SCCBNXSB
632	(278)	ADDRESS	4	ECVTESTU	"V(IEAVESTU)" SVC update service
636	(27C)	ADDRESS	4	ECVTRBUP	- IEARBUP service
640	(280)	BITSTRING	4	ECVTOSAI	- When non-zero, orig SCCBSAIX
644	(284)	BITSTRING	2	ECVTOSAR	- When non-zero, original SCCBSAR
646	(286)	BITSTRING	2	ECVTR286	- Reserved.
648	(288)	ADDRESS	4	ECVTCRDT	"V(CSVRCDTY)" Entry for RACF to get CDRACDTY bits set
652	(28C)	BITSTRING	12	ECVTR28C	- Reserved.
664	(298)	BITSTRING	16	ECVTLPUB	- IBM Publisher ID for ILM
680	(2A8)	BITSTRING	8	ECVTLPID	- IBM Product ID for ILM
688	(2B0)	BITSTRING	8	ECVTLVID	- IBM Version ID for ILM
696	(2B8)	BITSTRING	4	ECVTLKLN	- Length of IBM Key for ILM
700	(2BC)	ADDRESS	4	ECVTLKAD	- Address of IBM Key for ILM
704	(2C0)	DBL WORD	8	ECVTEND (0)	End of the ECVT.

ECVT Cross Reference

Name	Hex Offset	Hex Value
ECVT	0	
ECVTAES	170	
ECVTALOC	3B	0
ECVTAPME	48	
ECVTAPMS	44	
ECVTAPPC	28	
ECVTASA	E8	
ECVTBCBA	234	
ECVTBPME	40	
ECVTBPMS	3C	
ECVTCAL	9C	
ECVTCBLS	260	
ECVTCDYA	250	
ECVTCDYN	250	
ECVTCDYS	254	
ECVTCEME	1D4	
ECVTCEMR	1D8	

Name	Hex Offset	Hex Value
ECVTCEMT	1C4	0
ECVTCHSC	30	80
ECVTCLNU	130	80
ECVTCLON	108	4040
ECVTCMPS	F8	
ECVTCPLX	4	
ECVTCRDT	288	
ECVTCRGR	210	
ECVTCSM	C8	
ECVTCSRB	214	
ECVTCSVT	E4	
ECVTCTBL	CC	
ECVTCTXR	20C	
ECVTCURX	208	
ECVTDGNB	14C	
ECVTDLCB	88	
ECVTDLPF	228	

Name	Hex Offset	Hex Value
ECVTDLPL	22C	
ECVTDPQH	60	
ECVTEAEX	1A4	
ECVTEAUX	1A8	
ECVTECVT	0	C5C3E5E3
ECVTEND	2C0	
ECVTENVT	140	
ECVTEORM	258	0
ECVTESTU	278	
ECVTESYM	12C	
ECVTESY1	134	
ECVTETPE	124	
ECVTETPT	13C	
ECVTEXPM	EC	
ECVTFAIL	3B	40
ECVTFLGS	130	
ECVTFLG1	130	0
ECVTGMOD	10A	
ECVTGNON	10A	0
ECVTGRM	168	
ECVTGRMP	C0	
ECVTGRNG	10A	1
ECVTGSTA	10A	2
ECVTHDNM	150	40404040
ECVTIOSF	30	
ECVTIOS1	30	0
ECVTIOS2	31	0
ECVTIOS3	32	0
ECVTIOS4	33	0
ECVTIPA	188	
ECVTIPST	1B0	
ECVTJCCT	11C	
ECVTLCXT	26C	
ECVTLKAD	2BC	
ECVTLKLN	2B8	0
ECVTLOAD	A0	0
ECVTLPID	2A8	0
ECVTLPNM	158	40404040
ECVTLPUB	298	0
ECVTLSAB	120	
ECVTLSEN	148	
ECVTLVID	2B0	0
ECVTMLPR	A8	0
ECVTMMEA	1A0	
ECVTMMEC	1AC	
ECVTMMEM	178	C9C5C1E5
ECVTMMEQ	19C	
ECVTMMET	18C	0
ECVTMSCH	98	
ECVTNTTP	8C	
ECVTNUCP	FC	
ECVTNVDM	B8	
ECVTOCVT	F0	
ECVTOESI	270	0
ECVTOEXT	F4	
ECVTOMDA	34	
ECVTOMVS	F0	80
ECVTOSAI	280	0
ECVTOSAR	284	0
ECVTOXSB	274	0
ECVTPEST	24C	
ECVTPETM	138	
ECVTPIDN	238	40404040
ECVTPMAC	130	40
ECVTPMCR	D4	
ECVTPMCS	D0	
ECVTPMOD	204	4040
ECVTPNAM	1F0	40404040
ECVTPOWN	1E0	40404040
ECVTPRED	1C0	
ECVTPREL	202	4040
ECVTPSEQ	1DC	0
ECVTPTIM	11A	8
ECVTPVER	200	4040
ECVTPWVT	104	
ECVTQUCB	4C	
ECVTRBUP	27C	
ECVTREM1	218	
ECVTREM2	21C	
ECVTRINS	264	
ECVTRMD	240	
ECVTRMDP	240	
ECVTRMDS	244	0
ECVTRRMT	1BC	
ECVTRRSW	1B4	
ECVTRRTT	1B8	
ECVTRSMT	174	
ECVTRSU1	248	
ECVTR0BC	BC	0
ECVTR0B4	B4	0
ECVTR038	38	0
ECVTR058	58	0
ECVTR07C	7C	
ECVTR078	78	
ECVTR084	84	0
ECVTR090	90	0
ECVTR10B	10B	0
ECVTR206	206	0
ECVTR224	224	
ECVTR28C	28C	0
ECVTR286	286	0
ECVTSCH	2C	
ECVTSCHA	80	
ECVTSEIF	16C	
ECVTSLID	E0	0
ECVTSPLE	10	0
ECVTSPLQ	14	
ECVTSPLX	8	40404040
ECVTSRBR	230	
ECVTSRBT	5C	
ECVTSSDD	50	
ECVTSSDF	50	
ECVTSSDS	54	0
ECVTSTC1	18	
ECVTSTC2	1C	
ECVTSTC3	20	
ECVTSTC4	24	
ECVTSTX1	D8	
ECVTSTX2	DC	
ECVTSYMT	128	
ECVTTABT	207	8
ECVTTATF	207	40
ECVTTCP	B0	
ECVTTCRE	64	
ECVTTESF	207	20
ECVTTGMF	207	10
ECVTTTCA	268	
ECVTTTFL	207	0
ECVTTTRC	207	80
ECVTVMNM	160	40404040

Name	Hex Offset	Hex Value
ECVTVSER	144	0
ECVTWARN	3B	80
ECVTWLM	C4	
ECVTXCFG	68	0
ECVTXFR3	220	
ECVTXRAT	100	

EDT Heading Information

Common Name: ELIGIBLE DEVICE TABLE MAPPING MACRO
Macro ID: IEFZB421
DSECT Name: EDTHDR
Owning Component: Allocation (SC1B4)
Eye-Catcher ID: 'EDT'
Offset: 0
Length: 3
Storage Attributes: Subpool: 241
Key: 1
Residency: ANY
Size: Dependant on system configuration
Created by: IEFIBERC
Pointed to by: EDTLEDTP
Serialization: via EDTLACH macro
Function: THE ELIGIBLE DEVICE TABLE (EDT) IS USED BY DEVICE ALLOCATION TO ASSOCIATE UNIT DESCRIPTION INFORMATION WITH DEVICE TYPES AND DEVICES. IT IS ALSO USED TO DETERMINE THE GROUPS OF DEVICE FOR WHICH A PARTICULAR REQUEST IS ELIGIBLE.
THE EDT IS CREATED BY THE MVSCP OR BY USING INFORMATION IN THE I/O DEFINITION FILE AT NIP TIME. THE INFORMATION IS USED TO CREATE SUBTABLES WHICH MAKE UP THE EDT.
THE HEADER SECTION OF THE EDT CONTAINS POINTERS TO THE RESPECTIVE HEADERS OF EACH SUBTABLE.

EDT Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	168	EDTHDR	EDT Header Section
0	(0)	CHARACTER	3	EDTNAME	'EDT' IDENTIFIER
3	(3)	UNSIGNED	1	EDTLEVEL	EDT LEVEL
4	(4)	CHARACTER	8	EDTID	EDT ID
4	(4)	CHARACTER	6	EDTCBNAM	CONTROL BLOCK NAME FOR TABLE
10	(A)	CHARACTER	2	EDTIDNUM	THE VERSION ID FOR THE PARTICULAR EDT
12	(C)	CHARACTER	8	EDTDATE	EDT CREATE DATE
20	(14)	CHARACTER	5	EDTTIME	EDT CREATE TIME
25	(19)	BITSTRING	1	EDTFLAGS	EDT flags
		1...		EDTIODF	If set, the EDT was built at NIP time
		.1..		EDTGLINX	Group locking index
		..1.		EDTDLOCK	If set, Dynamic Configuration changes to the order of the Device Preference Table have created a potential deadlock situation for group locking
		...1 1111		*	Reserved
26	(1A)	UNSIGNED	1	EDTSP	EDT subpool
27	(1B)	UNSIGNED	1	EDTKEY	EDT storage key
28	(1C)	ADDRESS	4	EDTLUVSP	POINTER TO LOOK-UP-VALUE SECTION
32	(20)	ADDRESS	4	EDTGENSP	POINTER TO GENERIC SECTION
36	(24)	ADDRESS	4	EDTGRPSP	PTR TO GROUP SECTION
40	(28)	ADDRESS	4	EDTUCBSP	PTR TO DEVICE NUMBER SECTION
44	(2C)	ADDRESS	4	EDTMSKTP	PTR TO GROUP MASK TABLE
48	(30)	ADDRESS	4	EDTGRPPP	POINTER TO GROUP POINTER SECTION
52	(34)	ADDRESS	4	EDTPREFP	PTR TO PREFERENCE TABLE
56	(38)	ADDRESS	4	EDTTAPEP	PTR TO THE TAPE MAXIMUM ELIGIBILITY TABLE
60	(3C)	CHARACTER	0	EDTVERS3	Version 3 updates follow
60	(3C)	SIGNED	4	EDTLUVL	Length of LUVSECT
64	(40)	SIGNED	4	EDTGENL	Length of GENSECT

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Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
68	(44)	SIGNED	4	EDTGRPL	Length of GRPSECT
72	(48)	SIGNED	4	EDTUCBL	Length of EUCBSECT
76	(4C)	SIGNED	4	EDTMSKTL	Length of GRMSKTAB
80	(50)	SIGNED	4	EDTGRPPL	Length of GRPPSECT
84	(54)	SIGNED	4	EDTPREFL	Length of PREFTAB
88	(58)	SIGNED	4	EDTTAPEL	Length of TAPETAB
92	(5C)	ADDRESS	4	EDTLIBSP	Pointer to the Library Section
96	(60)	SIGNED	4	EDTLIBL	Length of LIBSECT
100	(64)	ADDRESS	4	EDTDPLSP	Pointer to the Device Pool Section
104	(68)	SIGNED	4	EDTDPLL	Length of DPLSECT
108	(6C)	ADDRESS	4	EDTUPLP	Pointer to UCB Pointer List (UPL)
112	(70)	SIGNED	4	EDTUPLL	Length of UPL
116	(74)	ADDRESS	4	EDTGMCTP	Pointer to Group Mask Conversion Table (GMCT)
120	(78)	SIGNED	4	EDTGMCTL	Length of GMCT
124	(7C)	ADDRESS	4	EDTCMPGP	Pointer to the Compatible Generic Section
128	(80)	SIGNED	4	EDTCMPGL	Length of CMPGSECT
132	(84)	SIGNED	2	EDTDEFAF	LUVTAB index for the "unit affinity ignored" default */
134	(86)	SIGNED	2	*	Reserved, available
136	(88)	CHARACTER	10	EDTDATE2	EDT Creation Date, in mm/dd/yyyy format. Should be referenced *only* if EDTLEVEL >= constant EDTSP430
146	(92)	CHARACTER	2	*	Reserved, get to word boundary.
148	(94)	CHARACTER	20	*	Reserved

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	*	LUVSECT	
0	(0)	CHARACTER	16	LUVHDR	
0	(0)	CHARACTER	8	LUVHDRNM	SECTION HEADER NAME
8	(8)	SIGNED	4	LUVENTNO	NUMBER OF ENTRIES IN THIS SECTION
12	(C)	SIGNED	2	LUVFIRST	Index to the first generic/ esoteric Look-Up-Value
14	(E)	SIGNED	2	LUVPOOLF	Index to the first device pool Look-Up-Value
16	(10)	CHARACTER	52	LUVENTRY (*)	TABLE OF LOOKUP ENTRIES
16	(10)	CHARACTER	32	LUVVERS2	Version 2 LUV entry.
16	(10)	CHARACTER	8	UNITNAME	UNIT NAME - IN EBCDIC
24	(18)	CHARACTER	4	LUVALUE	LOOK-UP-VALUE FOR UNIT NAME
24	(18)	UNSIGNED	2	LUVTOKEN	Esoteric token value
24	(18)	CHARACTER	1	LUVMOD	LUV DEVICE MODEL
25	(19)	CHARACTER	1	LUVOPT	LUV DEVICE OPTION
26	(1A)	CHARACTER	1	LUVCLASS	LUV DEVICE CLASS
27	(1B)	CHARACTER	1	LUVTYPE	LUV DEVICE TYPE
28	(1C)	SIGNED	4	LUVGMTP	INDEX TO GROUP MASK TABLE ENTRY FOR THIS L-U-V
32	(20)	SIGNED	4	LUVAGMTP	INDEX TO ALTERNATE GROUP MASK TABLE ENTRY, IF ANY
36	(24)	SIGNED	4	LUVGENNO	NO. GENERICS ASSOCIATED WITH THIS L-U-V
40	(28)	BITSTRING	4	LUVFLAGS	INDICATOR FLAGS
		1...		LUVVAM	ELIGIBLE FOR VIO DATA SETS
		.1..		LUVAGMSK	AN ALTERNATE GROUP MASK PTR EXISTS IN THIS ENTRY
		..1.		LUVMGENS	ALLOCATION OF MULTIPLE GENERICS WITHIN THIS L-U-V IS VALID
		...1		LUVGENR	NAME IS A GENERIC
		.... 1...		LUVESOTR	NAME IS AN ESOTERIC
		.... .1..		LUVGGENR	NAME IS A GENERATED GENERIC
		.... ..1.		LUVGESOT	NAME IS A GENERATED ESOTERIC
		1		LUVOVESO	INDICATES THIS IS A SYSTEM GENERATED OVERRIDING ESOTERIC WHEN SET.
41	(29)	1...		LUVPOOL	Name is a device pool
		.111 1111		*	Reserved
42	(2A)	BITSTRING	2	LUVAFFIX	AFFINITY INDEX
44	(2C)	SIGNED	2	LUVGENP	INDEX INTO FIRST GENERIC FOR THIS L-U-V
46	(2E)	SIGNED	2	LUVNXTP	Index to the next Look-Up-Value section entry
48	(30)	CHARACTER	20	LUVVERS3	Version 3 updates follow.
48	(30)	SIGNED	4	LUVGRPNO	Total number of groups for this Look-Up-Value

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
52	(34)	SIGNED	4	LUVUCBNO	Total number of devices for this Look-Up-Value
56	(38)	SIGNED	4	LUVLIBIN	For a device pool, index of library's LIBSECT entry
60	(3C)	SIGNED	4	LUVCMPGN	Count of compatible generics
64	(40)	SIGNED	4	LUVCMPGI	Index of first compatible generic CMPGSECT entry

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	*	GENSECT	
0	(0)	CHARACTER	12	GENHDR	GENERIC SECTION HEADER
0	(0)	CHARACTER	8	GENHDRNM	SECTION HEADER NAME
8	(8)	SIGNED	4	GENENTNO	NUMBER OF GENERIC ENTRIES
12	(C)	CHARACTER	12	GENENTRY (*)	TABLE OF GENRIC ENTRIES
12	(C)	CHARACTER	4	GENDEVT	GENERIC DEVICE TYPE
12	(C)	CHARACTER	1	GENMOD	GENERIC DEVICE MODEL
13	(D)	CHARACTER	1	GENOPT	GENERIC DEVICE OPTION
14	(E)	CHARACTER	1	GENCLASS	GENERIC DEVICE CLASS
15	(F)	CHARACTER	1	GENTYPE	GENERIC DEVICE TYPE
16	(10)	SIGNED	4	GENGRPNO	Number of Groups for this Device Type.
20	(14)	UNSIGNED	2	GENGRPTR	Index to the first Group Pointer Section Entry (GRPTENTY) for this Generic.
22	(16)	SIGNED	2	GENNXTP	Index to the next entry in this section.

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	*	GRPTSECT	GROUP POINTER SECTION IS ADDRESSABLE VIA THE PTR IN THE HEADER SECTION
0	(0)	CHARACTER	12	GRPTHDR	PRE-TABLE SECTION
0	(0)	CHARACTER	8	GRPTHDNM	SECTION HEADER NAME
8	(8)	SIGNED	4	GRPTENNO	COUNT OF ENTRIES IN GROUP POINTER TABLE
12	(C)	CHARACTER	4	GRPTENTY (*)	Group Pointer Section entry.@L1A
12	(C)	UNSIGNED	2	GRPTR	Index to the first Group Section Entry.
14	(E)	UNSIGNED	2	GRPTNXTP	Index to the next entry in this section.

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	*	GRPSECT	
0	(0)	CHARACTER	12	GRPHDR	GROUP SECTION HEADER
0	(0)	CHARACTER	8	GRPHDRNM	SECTION HEADER NAME
8	(8)	SIGNED	4	GRPENTNO	NO. ENTRIES IN THIS SECTION
12	(C)	CHARACTER	12	GRPENTRY (*)	TABLE OF GROUP ENTRIES
12	(C)	SIGNED	2	GRPID	GROUP IDENTIFIER
14	(E)	SIGNED	2	GRPUCBNO	NO. DEVICES ASSOCIATED WITH THIS GROUP
16	(10)	SIGNED	4	GRPUCBI	INDEX INTO DEVICE NUMBER SECTION FOR EACH ENTRY FOR THIS GROUP
20	(14)	SIGNED	2	GRPNXTP	INDEX OF NEXT ENTRY IN THE GROUP DESCRIPTOR SECTION
22	(16)	CHARACTER	2	*	RESERVED

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	*	EUCBSECT	
0	(0)	CHARACTER	12	EUCBHDR	DEVICE NUMBER SECTION HEADER
0	(0)	CHARACTER	8	EUCHDRNM	SECTION HEADER NAME
8	(8)	SIGNED	4	EUCBENNO	NO. ENTRIES IN SECTION
12	(C)	CHARACTER	8	EUCBENTY (*)	TABLE OF DEVICE NUMBERS
12	(C)	CHARACTER	4	EUCBNAME	LIST OF DEVICE NUMBERS FOR EACH UNIT OF EACH GROUP

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
16	(10)	SIGNED	4	EUCBNXTP	INDEX OF NEXT ENTRY IN THE DEVICE NUMBER SECTION

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	*	GRMSKTAB	
0	(0)	CHARACTER	16	GMTHDR	
0	(0)	CHARACTER	8	GMTHDRNM	SECTION HEADER NAME
8	(8)	SIGNED	4	GMTENTNO	NO. ENTRIES IN TABLE
12	(C)	SIGNED	4	GMTENTLN	LENGTH OF EACH ENTRY
16	(10)	CHARACTER	1	GMTTABLE (*)	LENGTH OF EACH ENTRY

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	*	GMTENTRY	Format of entry
0	(0)	CHARACTER	*	GRPMASK	BIT MASK. LENGTH OF MASK IS IN # OF BYTES AND IS GIVEN IN HDR OF THIS SECTION

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	*	GMCTAB	Group Mask Conversion Table (GMCT)
0	(0)	CHARACTER	16	GMCTHDR	GMCT Header
0	(0)	CHARACTER	8	GMCTHDNM	Section header name
8	(8)	SIGNED	4	GMCTENNO	Number entries in table
12	(C)	SIGNED	4	GMCTENLN	Length of each entry
16	(10)	BITSTRING	1	GMCT (*)	Group Mask Conversion Table Array

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	*	GMCTENT	Format of GMCT entry
0	(0)	CHARACTER	*	GMCTMASK	Bit Mask. Length of mask is in number of bytes and is given in the header of this section.

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	*	PREFTAB	
0	(0)	CHARACTER	16	PREFHDR	PREFERENCE TABLE HEADER
0	(0)	CHARACTER	8	PREFHDNM	SECTION HEADER NAME
8	(8)	SIGNED	4	PREFENNO	NUMBER OF TABLE ENTRIES
12	(C)	SIGNED	2	PREFFRST	INDEX OF FIRST ENTRY
14	(E)	BITSTRING	1	PREFFLGS	PREF TABLE FLAG FIELD
		1...		PREF3480	3480 PREFERRED TO 3480X
15	(F)	CHARACTER	1	*	RESERVED
16	(10)	CHARACTER	10	PREFENT (*)	TABLE OF PREFERENCE ENTRIES
16	(10)	CHARACTER	8	PREFGEN	GENERIC NAME ENTRY
24	(18)	SIGNED	2	PREFNXTP	INDEX OF NEXT ENTRY IN TABLE

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	*	TAPETAB	TAPE TABLE
0	(0)	CHARACTER	10	TAPEHDR	SECTION HEADER
0	(0)	CHARACTER	8	TAPHDRNM	SECTION HEADER NAME
8	(8)	UNSIGNED	2	TAPENTNO	NUMBER OF TAPE ENTRIES
10	(A)	CHARACTER	12	TAPENTRY (*)	TAPE TABLE ENTRY
10	(A)	CHARACTER	4	TAPEREQ	THE DEVICE TYPE ALLOCATED

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
14	(E)	BITSTRING	1	TAPEDEN	DENSITY OF DATASET
15	(F)	BITSTRING	1	TAPEMODE	COMPACTION MODE
16	(10)	CHARACTER	2	*	RESERVED
18	(12)	CHARACTER	4	TAPEMAX	DEVICE TYPE FOR MAXIMUM ELIGIBILITY

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	*	LIBSECT	Library Section
0	(0)	CHARACTER	20	LIBHDR	Header
0	(0)	CHARACTER	8	LIBHDRNM	Control block identifier
8	(8)	SIGNED	4	LIBENTNO	Number of libraries
12	(C)	SIGNED	4	LIBFIRST	First library entry index
16	(10)	BITSTRING	1	LIBHDFLG	Configuration indicators
		1...		LIBGOTNM	Library names exist
		.111 1111		*	Reserved
17	(11)	CHARACTER	3	*	Reserved
20	(14)	CHARACTER	36	LIBENTRY (*)	Entry
20	(14)	SIGNED	4	LIBNEXTP	Next LIBSECT entry
24	(18)	CHARACTER	8	LIBNAME	Library name
32	(20)	CHARACTER	5	LIBID	Library identifier
37	(25)	BITSTRING	1	LIBENFLG	Library indicators
		1...		LIBATL	Automated library
		.1..		LIBMTL	Manual library
		..11 1111		*	Reserved
38	(26)	CHARACTER	2	*	Reserved
40	(28)	SIGNED	4	LIBDPLNO	Number of device pools
44	(2C)	SIGNED	4	LIBDPLIN	Index of first DPLSECT entry
48	(30)	CHARACTER	8	*	Reserved

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	*	DPLSECT	Device Pool Section
0	(0)	CHARACTER	20	DPLHDR	Header
0	(0)	CHARACTER	8	DPLHDRNM	Control block identifier
8	(8)	SIGNED	4	DPLENTNO	Number of device pools
12	(C)	SIGNED	4	DPLFIRST	First device pool entry index
16	(10)	CHARACTER	4	*	Reserved
20	(14)	CHARACTER	16	DPLENTRY (*)	Entry
20	(14)	SIGNED	4	DPLNEXTP	Next DPLSECT entry
24	(18)	SIGNED	4	DPLLUVIN	Associated LUVSECT entry
28	(1C)	CHARACTER	8	*	Reserved

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	*	CMPGSECT	Compatible Generics
0	(0)	CHARACTER	20	CMPGHDR	Header
0	(0)	CHARACTER	8	CMPGHDNM	Control block identifier
8	(8)	SIGNED	4	CMPGENNO	Number of generics
12	(C)	SIGNED	4	CMPGFRST	First generic entry index
16	(10)	CHARACTER	4	*	Reserved
20	(14)	CHARACTER	16	CMPGENT (*)	Entry
20	(14)	SIGNED	4	CMPGNXTP	Next CMPGSECT entry
24	(18)	SIGNED	4	CMPGLUVI	Associated LUVSECT entry
28	(1C)	CHARACTER	8	*	Reserved

EDT Constants

Len	Type	Value	Name	Description
			Comment	
			Constants Note: EDTSPxxx level constants must aways increase in value as code in IEFAB4WX and other places does LESS THAN or GREATER THAN tests for EDTLEVEL, to avoid having to be hit each time a new EDTSPxxx constant is defined.	
			End of Comment	
3	CHARACTER	EDT	EDTLITRL	EDT ID FOR START OF TABLE
1	DECIMAL	2	EDTSP220	EDT Version number for SP220 - SP410
1	DECIMAL	3	EDTSP420	EDT Version number for SP420 (and above prior to Year 2000 work)
1	DECIMAL	4	EDTSP430	EDT Version number for SP430 and above with the Year 2000 work
1	DECIMAL	241	EDTSUBP	EDT subpool
0	BIT	0	EDTGL1	Use global group lock 1
0	BIT	1	EDTGL2	Use global group lock 2
			Comment	
			Declarations for the section names	
			End of Comment	
6	CHARACTER	IEFEDT	EDTIEFNM	EDT Header
8	CHARACTER	LUVTAB	EDTLUVNM	LUV SECTION
8	CHARACTER	DEVTAB	EDTDEVNM	DEVICE NUMBER
8	CHARACTER	GENTAB	EDTGENNM	GENERIC SECTION
8	CHARACTER	GRPTAB	EDTGRPNM	GROUP SECTION
8	CHARACTER	GPPTAB	EDTGPPNM	GROUP PTR SECT
8	CHARACTER	GMSTAB	EDTGMSNM	GROUP MASK SECT
8	CHARACTER	GMCTAB	EDTGMCNM	Group Mask Conversion Table section
8	CHARACTER	PREFTAB	EDTPRENM	PREFERENCE TAB
8	CHARACTER	TAPTAB	EDTTAPNM	TAPE TABLE
8	CHARACTER	LIBTAB	EDTLIBNM	Library Section
8	CHARACTER	DPLTAB	EDTDPLNM	Device Pool Section
8	CHARACTER	CMPGTAB	EDTCMGNM	Compatible Generic Section

EDT Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
CMPGENNO	8		EDTDATE2	88	
CMPGENT	14		EDTDEFAF	84	
CMPGFRST	C		EDTDLOCK	19	20
CMPGHDNM	0		EDTDPLL	68	
CMPGHDR	0		EDTDPLSP	64	
CMPGLUVI	18		EDTFLAGS	19	
CMPGNXTP	14		EDTGENL	40	
CMPGSECT	0		EDTGENSP	20	
DPLENTNO	8		EDTGLINX	19	40
DPLENTRY	14		EDTGMCTL	78	
DPLFIRST	C		EDTGMCTP	74	
DPLHDR	0		EDTGRPL	44	
DPLHDRNM	0		EDTGRPPL	50	
DPLLUVIN	18		EDTGRPPP	30	
DPLNEXTP	14		EDTGRPSP	24	
DPLSECT	0		EDTHDR	0	
EDTCBNAM	4		EDTID	4	
EDTCMPGL	80		EDTIDNUM	A	
EDTCMPGP	7C		EDTIODF	19	80
EDTDATE	C		EDTKEY	1B	

Name	Hex Offset	Hex Value
EDTLEVEL	3	
EDTLIBL	60	
EDTLIBSP	5C	
EDTLUVL	3C	
EDTLUVSP	1C	
EDTMSKTL	4C	
EDTMSKTP	2C	
EDTNAME	0	
EDTPREFL	54	
EDTPREFP	34	
EDTSP	1A	
EDTTAPEL	58	
EDTTAPEP	38	
EDTTIME	14	
EDTUCBL	48	
EDTUCBSP	28	
EDTUPLL	70	
EDTUPLP	6C	
EDTVERS3	3C	
EUCBENNO	8	
EUCBENTY	C	
EUCBHDR	0	
EUCBNAME	C	
EUCBNXTP	10	
EUCBSECT	0	
EUCHDRNM	0	
GENCLASS	E	
GENDEVT	C	
GENENTNO	8	
GENENTRY	C	
GENGRPNO	10	
GENGRPTR	14	
GENHDR	0	
GENHDRNM	0	
GENMOD	C	
GENNXTP	16	
GENOPT	D	
GENSECT	0	
GENTYPE	F	
GMCT	10	
GMCTAB	0	
GMCTENLN	C	
GMCTENNO	8	
GMCTENT	0	
GMCTHDNM	0	
GMCTHDR	0	
GMCTMASK	0	
GMTENTLN	C	
GMTENTNO	8	
GMTENTRY	0	
GMTHDR	0	
GMTHDRNM	0	
GMTTABLE	10	
GRMSKTAB	0	
GRPENTNO	8	
GRPENTRY	C	
GRPHDR	0	
GRPHDRNM	0	
GRPID	C	
GRPMASK	0	
GRPNXTP	14	
GRPSECT	0	
GRPTENNO	8	
GRPTENTY	C	
GRPTHDNM	0	

Name	Hex Offset	Hex Value
GRPTHDR	0	
GRPTNXTP	E	
GRPTR	C	
GRPTSECT	0	
GRPUCBI	10	
GRPUCBNO	E	
LIBATL	25	80
LIBDPLIN	2C	
LIBDPLNO	28	
LIBENFLG	25	
LIBENTNO	8	
LIBENTRY	14	
LIBFIRST	C	
LIBGOTNM	10	80
LIBHDFLG	10	
LIBHDR	0	
LIBHDRNM	0	
LIBID	20	
LIBMTL	25	40
LIBNAME	18	
LIBNEXTP	14	
LIBSECT	0	
LUVAFFIX	2A	
LUVAGMSK	28	40
LUVAGMTP	20	
LUVALUE	18	
LUVCLASS	1A	
LUVCMPGI	40	
LUVCMPGN	3C	
LUVENTNO	8	
LUVENTRY	10	
LUVESOTR	28	08
LUVFIRST	C	
LUVFLAGS	28	
LUVGENNO	24	
LUVGENP	2C	
LUVGENR	28	10
LUVGESOT	28	02
LUVGGENR	28	04
LUVGMTP	1C	
LUVGRPNO	30	
LUVHDR	0	
LUVHDRNM	0	
LUVLIBIN	38	
LUVMGENS	28	20
LUVMOD	18	
LUVNXTP	2E	
LUVOPT	19	
LUVOVESO	28	01
LUVPOOL	29	80
LUVPOOLF	E	
LUVSECT	0	
LUVTOKEN	18	
LUVTYPE	1B	
LUVUCBNO	34	
LUVVAM	28	80
LUVVERS2	10	
LUVVERS3	30	
PREFENNO	8	
PREFENT	10	
PREFFLGS	E	
PREFFRST	C	
PREFGEN	10	
PREFHDNM	0	
PREFHDR	0	

EDT Cross Reference

Name	Hex Offset	Hex Value
PREFNXTP	18	
PREFTAB	0	
PREF3480	E	80
TAPEDEN	E	
TAPEHDR	0	
TAPEMAX	12	
TAPEMODE	F	
TAPENTNO	8	
TAPENTRY	A	
TAPEREQ	A	
TAPETAB	0	
TAPHDRNM	0	
UNITNAME	10	

EDUMPLST Heading Information

Common Name: Vary Storage Physical Dump List
Macro ID: IEEMMSAI
DSECT Name: None
Owning Component: MP reconfiguration (SC1CZ)
Eye-Catcher ID: None
Subpool and Key: Subpool 253 and key 0
Size: Variable
Created by: IEEVSTGP
Pointed to by: None
Serialization: None
Function: Maps Vary Storage Physical storage address list for dumping.

EDUMPLST Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	88	ESTAEPRM	INPUT PARAMETERS.
0	(0)	ADDRESS	4	ESPPMP	PTR TO SERVICE PROCESSOR PARAMETER.
4	(4)	ADDRESS	4	ERETADDR	RETRY ADDRESS INTO IEEVSTGP.
8	(8)	CHARACTER	16	ERETREGS	CODE AND DATA REGISTER SAVE AREA FOR IEEVSTGP WHICH ARE RESTORED AT THE RETRY POINT.
24	(18)	ADDRESS	4	EMMBA	PTR TO MSG BUFFER.
28	(1C)	ADDRESS	4	ECNSL	PTR TO CONSOLE DATA.
32	(20)	ADDRESS	4	ESEARYP	PTR TO STG ELEM ARRAY.
36	(24)	SIGNED	4	ESAI	NUMBER OF MEGABYTES IN A STORAGE INCREMENT.
40	(28)	ADDRESS	4	ERSMPMP	PTR TO RSM PARM AREA.
44	(2C)	ADDRESS	4	EVECBP	PTR TO VARY OFF ECB.
48	(30)	ADDRESS	4	EDYNDPTR	PTR TO DYNAMIC DATA AREA.
52	(34)	ADDRESS	4	EDUMPLP	PTR TO DUMP LIST.
52	(34)	CHARACTER	4	EDLISTP	DCL FOR VRA SETUP USE.
56	(38)	ADDRESS	4	ESAIARYP	PTR TO STORAGE INCREMENT ARRAY.
60	(3C)	UNSIGNED	1	ESAISUBP	STORAGE INCREMENT ARRAY SUBPOOL FOR FREEMAIN.
61	(3D)	UNSIGNED	3	ESAILEN	STORAGE INCREMENT ARRAY LENGTH FOR FREEMAIN.
64	(40)	ADDRESS	4	ELASTP	PTR TO LAST STORAGE INCREMENT ENTRY.
68	(44)	BITSTRING	4	ESWITCH	PROCESSING SWITCHES.
		1...		EVARYON	VARY ONLINE COMMAND.
		.1..		EVARYOFF	VARY OFFLINE REQUEST.
		..1.		ESPCALLD	SERVICE PROCESSOR CALLED.
		...1		ESORTDON	A SORT WAS DONE.
		.... 1...		ERANGE	RANGE REQUEST.
		.... .1..		EAMOUNT	AMOUNT REQUEST.
		.... ..1.		EGLEXON	IEEVSTGP HAS ACTIVATED GLOBAL EXEMPTION FROM SPIN LOOP RECOVERY
		1		EECLUP	RETRY RECURSION FLAG. IF ON A RECURSIVE ENTRY HAS OCCURRED AND THE ESTAE MUST PERCOLATE.
69	(45)	1...		EGLEXON2	IEEVSTPE HAS ACTIVATED GLOBAL EXEMPTION FROM SPIN LOOP RECOVERY
72	(48)	SIGNED	4	ELISTCTR	COUNT OF DUMP LIST ENTRIES.
76	(4C)	SIGNED	4	EVARYSAD	STARTING ADDRESS OF STORAGE INCREMENT.
80	(50)	SIGNED	4	ESAIFRMS	NUMBER OF FRAMES IN A STORAGE INCREMENT.
84	(54)	UNSIGNED	1	ESEASUBP	SIZE OF STG ELEM ARRAY. SUBPOOL FOR FREEMAIN.
85	(55)	UNSIGNED	3	ESEALEN	STORAGE ELEMENT ARRAY LENGTH FOR FREEMAIN.

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	8	EDUMPLST (*)	LIST OF AREAS TO DUMP.
0	(0)	ADDRESS	4	ESTARTP	START POINT OF AREA TO DUMP.

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EDUMPLST Cross Reference

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
4	(4)	ADDRESS	4	EENDP	END POINT OF AREA TO DUMP.

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	20	SAIENTRY	STORAGE INCREMENT STATUS ENTRY.
0	(0)	UNSIGNED	4	SAINUMBR	NUMBER OF THIS STORAGE INCREMENT.
4	(4)	SIGNED	2	SAISORTF	SORTING WEIGHT FACTOR.
6	(6)	SIGNED	2	SAIERLVL	ERROR ASSOCIATED WITH THIS STORAGE INCREMENT.
8	(8)	SIGNED	2	SAIRSM	RETURN CODE FROM RSM STATUS.
10	(A)	SIGNED	2	SAISTGL	RETURN CODE FROM IEEVSTGL.
12	(C)	SIGNED	2	SAISPSVC	RETURN CODE FROM SERVICE PROCESSOR CALL SVC.
14	(E)	UNSIGNED	2	SAISPRSP	RESPONSE FROM SERVICE PROCESSOR.
16	(10)	CHARACTER	2	SAIFLAG1	FLAG FIELD.
		1...		SAIALON	STORAGE INCREMENT ALREADY ONLINE.
		.1..		SAIALOFF	STORAGE INCREMENT ALREADY OFFLINE.
		..1.		SAIPVARY	STORAGE INCREMENT VARIED PHYSICALLY.
		...1		SAILVARY	STORAGE INCREMENT VARIED LOGICALLY.
		.... 1...		SAICUR	CURRENT ENTRY.
		.... .1..		SAIMSG	MSG HAS BEEN ISSUED.
		.... ..1.		SAILGST	LOGICAL VARY STARTED.
		1		SAILGEND	LOGICAL VARY ENDED.
17	(11)	1...		SAIPHST	PHYSICAL VARY STARTED.
		.1..		SAIPHEND	PHYSICAL VARY ENDED.
		..1.		SAIKNRSP	SERVICE PROCESSOR RESPONSE UNKNOWN.
		...1		SAIVARYD	STORAGE INCREMENT SUCCESSFULLY VARIED.
18	(12)	CHARACTER	1	SAIELGIB	ELIGIBILITY FLAG.
		1...		SAIENOT	ENTRY NOT ELIGIBLE.
		.1..		SAIPREF	STORAGE INCREMENT HAS PREFERRED DATA.
		..1.		SAIEHSA	STORAGE INCREMENT HAS HSA.
		...1		SAIEFRM0	STORAGE INCREMENT HAS FRAME0.
		.... 1...		SAIVRCAN	STORAGE INCREMENT HAS V=R CANDIDATE FRAME(S).
		.... .1..		SAISEOFF	PART OF THIS STORAGE INCREMENT OFFLINE WITH A STORAGE ELEMENT.
19	(13)	CHARACTER	1	*	RESERVED.

EDUMPLST Cross Reference

Name	Hex Offset	Hex Value
EAMOUNT	44	04
ECNSL	1C	
EDLISTP	34	
EDUMPLP	34	
EDUMPLST	0	
EDYNDPTR	30	
EECLUP	44	01
EENDP	4	
EGLEXON	44	02
EGLEXON2	45	80
ELASTP	40	
ELISTCTR	48	
EMMBA	18	
ERANGE	44	08
ERETADDR	4	
ERETREGS	8	
ERSMPMP	28	
ESAI	24	
ESAIARYP	38	
ESAIFRMS	50	
ESAILEN	3D	
ESAISUBP	3C	
ESEALEN	55	

Name	Hex Offset	Hex Value
ESEARYP	20	
ESEASUBP	54	
ESORTDON	44	10
ESPCALLD	44	20
ESPPMP	0	
ESTAEPRM	0	
ESTARTP	0	
ESWITCH	44	
EVARYOFF	44	40
EVARYON	44	80
EVARYSAD	4C	
EVECBP	2C	
SAIALOFF	10	40
SAIALON	10	80
SAICUR	10	08
SAIEFRM0	12	10
SAIEHSA	12	20
SAIELGIB	12	
SAIENOT	12	80
SAIENTRY	0	
SAIERLVL	6	
SAIFLAG1	10	
SAIKNRSP	11	20

Name	Hex Offset	Hex Value
SAILGEND	10	01
SAILGST	10	02
SAILVARY	10	10
SAIMSG	10	04
SAINUMBR	0	
SAIPHEND	11	40
SAIPHST	11	80
SAIPREF	12	40
SAIPVARY	10	20
SAIRSM	8	
SAISEOFF	12	04
SAISORTF	4	
SAISPRSP	E	
SAISPSVC	C	
SAISTGL	A	
SAIVARYD	11	10
SAIVRCAN	12	08

EED Heading Information

Common Name: RTM1 Work Area
Macro ID: IHART1W
DSECT Name: RT1W, RT1TRACK, RT1TRECC, RTMW
Owning Component: RECOVERY TERMINATION MANAGER (SCRTM)
Eye-Catcher ID: none
Storage Attributes: Subpool: 239 or in PSA
Key: 0
Residency: ABOVE OR BELOW THE 16M LINE
Size: 152 bytes for RT1W
288 bytes for RT1X
Created by: IEAVNIP0 or IEEVCPU
Pointed to by: FRRSRTMA field of the FRRS data area
Serialization: RTM1 INTERNAL SERIALIZATION
Function: The RT1W is used to describe the current error condition and to provide an internal work area for the RTM1 subfunctions.

EED Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	608	EED	Extended error descriptor
0	(0)	ADDRESS	4	EEDFWRDP	Pointer to next EED on chain or zero
4	(4)	CHARACTER	4	EEDDES	Description of EED contents
4	(4)	CHARACTER	1	EEDID	Type of information in EED
5	(5)	CHARACTER	1	EEDFLAGS	Flags describing information in EEDs
		1...		EEDERFL	On means that the errorid is supplied in this EED
		.1..		EEDSPI	On means this EED is part of an SPI control block (not from the EED pool)
		..1.		EEDSRBTP	On means this EED was created for SRB-to-TASK percolation processing
		...1		EEDHWDP	On means this EED contains hardware data information
		.... 1...		EEDSKIP	Skip this EED. This flag is set only for DUMPXTYP type EEDs. The data space storage ranges were not accessable, and thus the EED is empty and should be skipped.
		.... .111		*	Reserved
6	(6)	CHARACTER	1	EEDFLAG2	Flags to pass from RTM1 to RTM2 indicators set by SLIP
		1...		EEDNOSUP	Used to communicate the SLIP request to dump suppression not to suppress dumps
		.1..		EEDNODMP	Used to communicate dump suppression by SLIP from RTM1 to RTM2
		..1.		EEDRCRD	Used to communicate SLIP indication of recording from RTM1 to RTM2
		...1		*	Reserved
		.... 1...		EEDNOSVD	Used to communicate dump suppression of SVCDUMPs by SLIP from RTM1 to RTM2
		.... .1..		EEDNOSYA	Used to communicate dump suppression of SYSABEND dumps by SLIP from RTM1 to RTM2
		.... ..1.		EEDNOSYM	Used to communicate dump suppression of SYSMDUMPS by SLIP from RTM1 to RTM2
		1		EEDNOSYU	Used to communicate dump suppression of SYSUDUMPs by SLIP from RTM1 to RTM2
7	(7)	CHARACTER	1	*	Reserved
8	(8)	CHARACTER	4	EEDERROR	Description of the error which necessitated EEDs
8	(8)	UNSIGNED	1	EEDMODE	System mode at time of error
9	(9)	CHARACTER	1	EEDERTYP	Entry point used by RTM1
10	(A)	SIGNED	2	EEDASID	ASID of originating memory in cross memory abends
12	(C)	CHARACTER	596	EEDVARBL	Variable part of EED, mapped separately below

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Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
12	(C)	STRUCTURE	596	EEDREGSP	This is the basic RTM1 to RTM2 information EED which contains general purpose registers, access registers, control registers PSW, error id and various other error related information
12	(C)	CHARACTER	64	EEDREGS	General purpose Registers at time of error
12	(C)	ADDRESS	4	EEDREG0	Register 0
16	(10)	ADDRESS	4	EEDREG1	Register 1
20	(14)	ADDRESS	4	EEDREG2	Register 2
24	(18)	ADDRESS	4	EEDREG3	Register 3
28	(1C)	ADDRESS	4	EEDREG4	Register 4
32	(20)	ADDRESS	4	EEDREG5	Register 5
36	(24)	ADDRESS	4	EEDREG6	Register 6
40	(28)	ADDRESS	4	EEDREG7	Register 7
44	(2C)	ADDRESS	4	EEDREG8	Register 8
48	(30)	ADDRESS	4	EEDREG9	Register 9
52	(34)	ADDRESS	4	EEDREG10	Register 10
56	(38)	ADDRESS	4	EEDREG11	Register 11
60	(3C)	ADDRESS	4	EEDREG12	Register 12
64	(40)	ADDRESS	4	EEDREG13	Register 13
68	(44)	ADDRESS	4	EEDREG14	Register 14
72	(48)	ADDRESS	4	EEDREG15	Register 15
76	(4C)	CHARACTER	64	EEDAREGS	Access registers at time of error
76	(4C)	ADDRESS	4	EEDARE0	Access Register 0
80	(50)	ADDRESS	4	EEDARE1	Access Register 1
84	(54)	ADDRESS	4	EEDARE2	Access Register 2
88	(58)	ADDRESS	4	EEDARE3	Access Register 3
92	(5C)	ADDRESS	4	EEDARE4	Access Register 4
96	(60)	ADDRESS	4	EEDARE5	Access Register 5
100	(64)	ADDRESS	4	EEDARE6	Access Register 6
104	(68)	ADDRESS	4	EEDARE7	Access Register 7
108	(6C)	ADDRESS	4	EEDARE8	Access Register 8
112	(70)	ADDRESS	4	EEDARE9	Access Register 9
116	(74)	ADDRESS	4	EEDAREA	Access Register 10
120	(78)	ADDRESS	4	EEDAREB	Access Register 11
124	(7C)	ADDRESS	4	EEDAREC	Access Register 12
128	(80)	ADDRESS	4	EEDARED	Access Register 13
132	(84)	ADDRESS	4	EEDAREE	Access Register 14
136	(88)	ADDRESS	4	EEDAREF	Access Register 15
140	(8C)	CHARACTER	64	EEDCREGS	Control registers at time of error
140	(8C)	ADDRESS	4	EEDCRE0	Control Register 0
144	(90)	ADDRESS	4	EEDCRE1	Control Register 1
148	(94)	ADDRESS	4	EEDCRE2	Control Register 2
152	(98)	CHARACTER	8	EEDXM	Cross memory registers
152	(98)	ADDRESS	4	EEDCRE3	Control Register 3
152	(98)	CHARACTER	4	EEDXMCR3	Control Register 3
156	(9C)	ADDRESS	4	EEDCRE4	Control Register 4
156	(9C)	CHARACTER	4	EEDXMCR4	Control Register 4
160	(A0)	ADDRESS	4	EEDCRE5	Control Register 5
164	(A4)	ADDRESS	4	EEDCRE6	Control Register 6
168	(A8)	ADDRESS	4	EEDCRE7	Control Register 7
172	(AC)	ADDRESS	4	EEDCRE8	Control Register 8
176	(B0)	ADDRESS	4	EEDCRE9	Control Register 9
180	(B4)	ADDRESS	4	EEDCREA	Control Register 10
184	(B8)	ADDRESS	4	EEDCREB	Control Register 11
188	(BC)	ADDRESS	4	EEDCREC	Control Register 12
192	(C0)	ADDRESS	4	EEDCRED	Control Register 13
196	(C4)	ADDRESS	4	EEDCREE	Control Register 14
200	(C8)	ADDRESS	4	EEDCREF	Control register 15
204	(CC)	CHARACTER	16	EEDPSW	EC mode PSW + ILC int code and translation address
204	(CC)	CHARACTER	8	EEDPSW1	First half of PSW
204	(CC)	SIGNED	4	EEDPSWMK	System and prog mask
208	(D0)	ADDRESS	4	EEDPSWIC	Instruction counter
212	(D4)	CHARACTER	8	EEDPSW2	Second half of PSW
212	(D4)	SIGNED	4	EEDINILC	Interp code and ILC

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
212	(D4)	CHARACTER	1	*	Always set to zero
213	(D5)	UNSIGNED	1	EEDILC	Instruction len counter - the number of bytes to subtract from the IC to get last instruction executed
214	(D6)	UNSIGNED	2	EEDINTCD	Interrupt code
216	(D8)	ADDRESS	4	EEDTRANS	Translation exception addr
216	(D8)	BITSTRING	3	*	
219	(DB)	.... .1..		EEDSOPI	When on for PIC 4, EEDTRANS contains TEA
		11		*	
220	(DC)	CHARACTER	10	EEDERRID	Errorid
220	(DC)	CHARACTER	2	EEDESEQ#	Sequence number
222	(DE)	UNSIGNED	2	EEDECPUI	CPU id
224	(E0)	CHARACTER	2	EEDEASID	ASID
226	(E2)	CHARACTER	4	EEDETIME	Time stamp
230	(E6)	CHARACTER	1	EEDRFLGS	Flags for REGSPTYP EED
		1...		EEDTEAV	If on, indicates EEDTRANS contains valid address
		.1..		EEDTEIV	If on, indicates EEDTRANS contains valid ASID
		..1.		EEDTEPC	If on, indicates EEDTRANS contains valid PC#
231	(E7)	CHARACTER	1	EEDMISC	Misc RTM1->RTM2 info
		1...		EEDEAS	SDWAEAS was on in RTM1
232	(E8)	ADDRESS	4	EEDLLSR	The linkage stack register value obtained by RTM1 from the last FRR entry processed during RTM1 FRR processing
236	(EC)	CHARACTER	64	EEDDUCT	Contents of the DUCT control area at time of error
300	(12C)	UNSIGNED	1	EEDTEAR	Translation exception address access register number
301	(12D)	CHARACTER	23	*	Reserved

Comment

SDWA error information

End of Comment

324	(144)	CHARACTER	28	EEDSDWA	These fields are used for SRB-to-TASK percolation and for FRR to ESTAE (RTM1 to RTM2) percolation.
324	(144)	CHARACTER	12	EEDFAIN	Saved copy of SDWAFAIN
336	(150)	ADDRESS	4	EEDASCB	Saved copy of SDWAASCB
340	(154)	ADDRESS	4	EEDASST	Saved copy of SDWAASST
344	(158)	CHARACTER	8	EEDCCRC	Structure for next 2 words
344	(158)	CHARACTER	4	EEDSABC	Saved copy of SDWASABC
344	(158)	CHARACTER	1	EEDOABF	Saved copy of SDWAOABF
		1111 1...		*	Reserved
		.... .1..		EEDORCF	Saved copy of SDWAORCF
		11		*	Reserved
345	(159)	CHARACTER	3	EEDOCMP	Saved copy of SDWAOCMP
348	(15C)	CHARACTER	4	EEDOCRC	Saved copy of SDWAOCRC
352	(160)	CHARACTER	8	EEDCOMU	FRR to ESTAE communication buffer (from SDWACOMU)

Comment

Hardware repair status information

End of Comment

360	(168)	CHARACTER	44	EEDHWREP	Hardware repair status information
360	(168)	CHARACTER	28	EEDHWR	Part 1 of EEDHWREP
360	(168)	ADDRESS	4	EEDHSCKB	Starting vrt adr of stor ck
364	(16C)	ADDRESS	4	EEDHSCKE	Ending virt addr of stor ck
368	(170)	UNSIGNED	1	EEDHMCHS	RTM1 software status flags
		1...		EEDHSRVL	Storage ranges and RFSA vald
		.1..		EEDHRCDF	MCH rcrd not recorded
		..1.		EEDHTSVL	Time stamp is valid
		...1		EEDINVP	Storage reconfigured page invalidated
		.... 1...		EEDRSRC	Storage reconfiguration status is available
		.... .1..		EEDHRSRF	Storage reconfiguration not not attempted
		.... ..1.		EEDHVRIV	On, indicates vector registers are unpredictable
		1		EEDHARGU	On, indicates access registers are unpredictable
369	(171)	UNSIGNED	1	EEDHMCHD	RTM1 machine check data

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		1...		EEDHSKYF	Storage key failure
		.1..		EEDHREGU	Registers unpredictable
		..1.		EEDHPSWU	PSW unpredictable
		...1		EEDHSCK	Storage data chk
		.... 1...		EEDHACR	ACR in progress
		.... .1..		EEDHINSF	Instruction failure
		.... ..1.		EEDHSOFT	Soft error
		1		EEDHTERR	Timer error
370	(172)	SIGNED	2	EEDHCPID	CPU addr of dead CPU - ACR
372	(174)	ADDRESS	2	EEDHRSRS	Storage reconfig status bytes
372	(174)	UNSIGNED	1	EEDHRSR1	Storage reconfig status 1
		11..		*	Reserved
		..1.		EEDHPREF	Preferred frame
		...1		EEDHVRCN	V = R candidate - can go offline
		.... 1...		EEDHNSWP	Long-term non-swappable address space
		.... .1..		EEDHNSWA	Non-swappable address space
		.... ..1.		EEDHMSER	Stor err alredy set in frame
		1		EEDHCHNG	Frame had chang indicator on
373	(175)	UNSIGNED	1	EEDHRSR2	Storage reconfig status 2
		1...		EEDHOFLN	Frame offlin or sched offlin
		.1..		EEDHINTC	Intercept-frame is scheduled offline, either storage err or V=R ind also on
		..1.		EEDHSPER	Perm err occurs in frame
		...1		EEDHNUCL	Frame contains permanent resident system storage
		.... 1...		EEDHFSQA	Frame in use for SQA
		.... .1..		EEDHFLSQ	Frame in use for LSQA
		.... ..1.		EEDHPGFX	Frame contains PGFIXED data
		1		EEDHVERQ	Frame in use for V = R
374	(176)	UNSIGNED	1	EEDHMCHO	Other MCH flags
		1...		EEDHSKPR	Skip recording requested by MCH
		.111 1111		*	Reserved
375	(177)	CHARACTER	1	*	Reserved
376	(178)	ADDRESS	4	EEDHRFSA	Real failing storage addr
380	(17C)	CHARACTER	8	EEDHTIME	Timestamp of MCH record
388	(184)	CHARACTER	16	EEDIOMA	I/O mach check additional data
388	(184)	CHARACTER	8	EEDHRFSE	ESAME FSA
388	(184)	ADDRESS	4	EEDHRFSH	ESAME FSA high
392	(188)	ADDRESS	4	EEDHRFSL	ESAME FSA low
396	(18C)	CHARACTER	8	EEDMCIC	Machine check interrupt code
404	(194)	CHARACTER	64	EEDG64H	High order halves of GPRs 0-15 at time of error
468	(1D4)	CHARACTER	4	*	Reserved
472	(1D8)	CHARACTER	128	EEDC64S	ESAME CRs
472	(1D8)	CHARACTER	8	EEDC640	ESAME CR0
480	(1E0)	CHARACTER	8	EEDC641	ESAME CR1
488	(1E8)	CHARACTER	8	EEDC642	ESAME CR2
496	(1F0)	CHARACTER	8	EEDC643	ESAME CR3
504	(1F8)	CHARACTER	8	EEDC644	ESAME CR4
512	(200)	CHARACTER	8	EEDC645	ESAME CR5
520	(208)	CHARACTER	8	EEDC646	ESAME CR6
528	(210)	CHARACTER	8	EEDC647	ESAME CR7
536	(218)	CHARACTER	8	EEDC648	ESAME CR8
544	(220)	CHARACTER	8	EEDC649	ESAME CR9
552	(228)	CHARACTER	8	EEDC64A	ESAME CRA
560	(230)	CHARACTER	8	EEDC64B	ESAME CRB
568	(238)	CHARACTER	8	EEDC64C	ESAME CRC
576	(240)	CHARACTER	8	EEDC64D	ESAME CRD
584	(248)	CHARACTER	8	EEDC64E	ESAME CRE
592	(250)	CHARACTER	8	EEDC64F	ESAME CRF
600	(258)	CHARACTER	8	EEDTRNE	8-byte TEA

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
12	(C)	STRUCTURE	460	EEDDUMPO	The length of this area is dependent on the format of the SNAP parameter list and the SDWA starting at label SDWADUMP
12	(C)	CHARACTER	8	EEDSCDMP	Dump parameters common to the SNAP and SDWA mappings
12	(C)	CHARACTER	4	EEDSDUMP	Dump characteristics
16	(10)	CHARACTER	4	EEDSDDAT	SDATA/PDATA options
16	(10)	BITSTRING	2	EEDSSDAT	Dump system data
18	(12)	BITSTRING	2	EEDSPDAT	Dump prob prog data
20	(14)	CHARACTER	240	EEDSDPSL	Dump storage lists
20	(14)	CHARACTER	8	EEDRGS (30)	30 Ranges
260	(104)	CHARACTER	16	EEDSPLS	
260	(104)	SIGNED	2	EEDSPLN	Number of subpools
262	(106)	CHARACTER	14	EEDSPID	Up to 7 subpool ids

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
12	(C)	STRUCTURE	596	EEDDUMPX	
12	(C)	CHARACTER	240	EEDDXSL	Data space storage range list
12	(C)	CHARACTER	16	EEDDXSR (15)	Dump storage range
12	(C)	ADDRESS	4	EEDDXBEG	Start address of range
16	(10)	ADDRESS	4	EEDDXEND	End address of range
		1...		EEDDXLE	Bit indicating end of list
20	(14)	CHARACTER	8	EEDDXSTK	Stoken for range

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	432	ETAB	ETAB based on RTCTEEDA
0	(0)	CHARACTER	4	ETABID	ETAB identifier
4	(4)	CHARACTER	4	*	Reserved field
8	(8)	CHARACTER	8	ETABENTR (53)	Main part of ETAB
8	(8)	ADDRESS	4	ETABEED	Pointer to hold EED address
12	(C)	ADDRESS	4	ETABASCB	Pointer to the EED's address space control block

EED Constants

Len	Type	Value	Name	Description
			Comment	
	CONSTANTS USED WITH THE EEDID AND TCBRTM12 FIELDS			
			End of Comment	
4	DECIMAL	1	EEDNULL	THE TCBRTM12 FIELD IS SET TO THIS VALUE IF AN EED COULD NOT BE OBTAINED
1	DECIMAL	1	ERRORTYP	INDICATES THE EEDVARBL FIELD IS MAPPED BY EEDREGSP
1	DECIMAL	1	REGSPTYP	INDICATES THE EEDVARBL FIELD IS MAPPED BY EEDREGSP
1	DECIMAL	2	DUMPOTYP	INDICATES THE EEDVARBL FIELD IS MAPPED BY EEDDUMPO
1	DECIMAL	3	DUMPXTYP	INDICATES THE EEDVARBL FIELD IS MAPPED BY EEDDUMPX
1	DECIMAL	1	HWREPTYP	INDICATES THE EEDVARBL FIELD IS MAPPED BY EEDREGSP
1	DECIMAL	1	SDWATYP	INDICATES THE EEDVARBL FIELD IS MAPPED BY EEDREGSP
1	DECIMAL	1	ORIGDTYP	INDICATES THE EEDVARBL FIELD IS MAPPED BY EEDREGSP

EED Cross Reference

Len	Type	Value	Name	Description
Comment				
CONSTANT USED TO DEFINE SIZE OF STANDARD EED AREA				
End of Comment				
2	DECIMAL	12	EEDBASE	DEFINES LENGTH OF THE FIXED PORTION OF THE EED
2	DECIMAL	53	ETAB#ENT	Make constant the number of entries in ETAB. This is used when allocating the cpool of EEDs.
4	DECIMAL	304	RT1WFWLN	Size of FRR work area

EED Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
EED	0		EEDC642	1E8	
EEDAREA	74		EEDC643	1F0	
EEDAREB	78		EEDC644	1F8	
EEDAREC	7C		EEDC645	200	
EEDARED	80		EEDC646	208	
EEDAREE	84		EEDC647	210	
EEDAREF	88		EEDC648	218	
EEDAREGS	4C		EEDC649	220	
EEDARE0	4C		EEDDES	4	
EEDARE1	50		EEDDUCT	EC	
EEDARE2	54		EEDDUMPO	C	
EEDARE3	58		EEDDUMPX	C	
EEDARE4	5C		EEDDXBEG	C	
EEDARE5	60		EEDDXEND	10	
EEDARE6	64		EEDDXLE	10	80
EEDARE7	68		EEDDXSL	C	
EEDARE8	6C		EEDDXSR	C	
EEDARE9	70		EEDDXSTK	14	
EEDASCB	150		EEDEAS	E7	80
EEDASID	A		EEDEASID	E0	
EEDASST	154		EEDECPUI	DE	
EEDCCRC	158		EEDERFL	5	80
EEDCOMU	160		EEDERRID	DC	
EEDCREA	B4		EEDERROR	8	
EEDCREB	B8		EEDERTYP	9	
EEDCREC	BC		EEDESEQ#	DC	
EEDCRED	C0		EEDETIME	E2	
EEDCREE	C4		EEDFAIN	144	
EEDCREF	C8		EEDFLAGS	5	
EEDCREGS	8C		EEDFLAG2	6	
EEDCRE0	8C		EEDFWRDP	0	
EEDCRE1	90		EEDG64H	194	
EEDCRE2	94		EEDHACR	171	08
EEDCRE3	98		EEDHARGU	170	01
EEDCRE4	9C		EEDHCHNG	174	01
EEDCRE5	A0		EEDHCPID	172	
EEDCRE6	A4		EEDHFLSQ	175	04
EEDCRE7	A8		EEDHFSQA	175	08
EEDCRE8	AC		EEDHINSF	171	04
EEDCRE9	B0		EEDHINTC	175	40
EEDC64A	228		EEDHMCHD	171	
EEDC64B	230		EEDHMCHO	176	
EEDC64C	238		EEDHMCHS	170	
EEDC64D	240		EEDHMSER	174	02
EEDC64E	248		EEDHNSWA	174	04
EEDC64F	250		EEDHNSWP	174	08
EEDC64S	1D8		EEDHNUCL	175	10
EEDC640	1D8		EEDHOFLN	175	80
EEDC641	1E0		EEDHPGFX	175	02

Name	Hex Offset	Hex Value
EEDHPREF	174	20
EEDHPSWU	171	20
EEDHRCDF	170	40
EEDHREGU	171	40
EEDHRFSA	178	
EEDHRFSE	184	
EEDHRFSH	184	
EEDHRFSL	188	
EEDHRSRF	170	04
EEDHRSRS	174	
EEDHRSR1	174	
EEDHRSR2	175	
EEDHSCK	171	10
EEDHSCKB	168	
EEDHSCKE	16C	
EEDHSKPR	176	80
EEDHSKYF	171	80
EEDHSOFT	171	02
EEDHSPER	175	20
EEDHSRVL	170	80
EEDHTERR	171	01
EEDHTIME	17C	
EEDHTSVL	170	20
EEDHVERQ	175	01
EEDHVRCN	174	10
EEDHVRIV	170	02
EEDHWDP	5	10
EEDHWR	168	
EEDHWREP	168	
EEDID	4	
EEDILC	D5	
EEDINILC	D4	
EEDINTCD	D6	
EEDINVP	170	10
EEDIOMA	184	
EEDLLSR	E8	
EEDMCIC	18C	
EEDMISC	E7	
EEDMODE	8	
EEDNODMP	6	40
EEDNOSUP	6	80
EEDNOSVD	6	08
EEDNOSYA	6	04
EEDNOSYM	6	02
EEDNOSYU	6	01
EEDOABF	158	
EEDOCMP	159	
EEDOCRC	15C	
EEDORCF	158	04
EEDPSW	CC	
EEDPSWIC	D0	
EEDPSWMK	CC	
EEDPSW1	CC	
EEDPSW2	D4	
EEDRCRD	6	20
EEDREGS	C	
EEDREGSP	C	
EEDREG0	C	
EEDREG1	10	
EEDREG10	34	
EEDREG11	38	
EEDREG12	3C	
EEDREG13	40	
EEDREG14	44	
EEDREG15	48	

Name	Hex Offset	Hex Value
EEDREG2	14	
EEDREG3	18	
EEDREG4	1C	
EEDREG5	20	
EEDREG6	24	
EEDREG7	28	
EEDREG8	2C	
EEDREG9	30	
EEDRFLGS	E6	
EEDRGS	14	
EEDRSRC	170	08
EEDSABC	158	
EEDSCDMP	C	
EEDSDDAT	10	
EEDSDPSL	14	
EEDSDUMP	C	
EEDSDWA	144	
EEDSKIP	5	08
EEDSOPI	DB	04
EEDSPDAT	12	
EEDSPI	5	40
EEDSPID	106	
EEDSPLN	104	
EEDSPLS	104	
EEDSRBTP	5	20
EEDSSDAT	10	
EEDTEAR	12C	
EEDTEAV	E6	80
EEDTEIV	E6	40
EEDTEPC	E6	20
EEDTRANS	D8	
EEDTRNE	258	
EEDVARBL	C	
EEDXM	98	
EEDXMCR3	98	
EEDXMCR4	9C	
ETAB	0	
ETABASCB	C	
ETABEED	8	
ETABENTR	8	
ETABID	0	

EMPARMS Programming Interface information

Programming Interface information

EMPARMS

End of Programming Interface information

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EMPARMS Heading Information

Common Name: Dynamic Allocation Error Message Processor Parameter List
Macro ID: IEFZB476
DSECT Name: EMPARMS, EMBUFS, EMABUFFS
Owning Component: Allocation (SC1B4)
Eye-Catcher ID: None
Storage Attributes: Subpool: Caller's subpool
Key: Caller's key
Residency: Any
Size: 24 bytes
Created by: IEFDB400
User program invoking Dynamic Allocation Error Message Routine
Pointed to by: Passed as a parameter. On entry to IEFDB476, register 1 contains the address of a pointer to it.
Serialization: None
Function: Parameter list for the Dynamic Allocation Error Message Processor (IEFDB476).

EMPARMS Map

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	EMDSECT1	Parameter list to IEFDB476
0	(0)	SIGNED	4	(0)	
0	(0)	X'0'	0	EMPARMS	"*" Parameter list to IEFDB476
0	(0)	BITSTRING	1	EMFUNCT	Function indicator flags
		1...		EMPUTLIN	"B'10000000'" ON for message output via PUTLINE
		.1..		EMWTP	"B'01000000'" ON if the caller wants a Write To Programmer (WTO)
		..1.		EMRETURN	"B'00100000'" ON if the caller wants message text returned in buffers
		...1		EMKEEP	"B'00010000'" ON if caller wants to keep message blocks anchored to the SVC 99 RB extension
1	(1)	BITSTRING	1	EMIDNUM	Caller identifier number
2	(2)	BITSTRING	1	EMNMSGBK	Number of messages to be extracted
3	(3)	BITSTRING	1	EMRSV01	Reserved
4	(4)	ADDRESS	4	EMS99RBP	Address of the failing SVC 99 request block for SVC 99 errors
4	(4)	X'4'	0	EMDAPLP	"EMS99RBP" Address of the failing DAIR parameter list for DAIR errors
8	(8)	SIGNED	4	EMRETCOD	The SVC 99 or the DAIR reg 15 return code
12	(C)	ADDRESS	4	EMCPPLP	Address of the CPPL This is needed only when IEFDB476 is called with an SVC 99 error and message output via a PUTLINE is requested
16	(10)	ADDRESS	4	EMBUFP	Address of message buffers if message buffers are to be returned
20	(14)	BITSTRING	8	EMRSV02	Reserved
20	(14)	X'1C'	0	EMLEN1	"*-EMPARMS"

Comment

Map of the return message buffer area

End of Comment

28	(1C)	SIGNED	4	EMBUFS (0)	(Need not initialize)
28	(1C)	X'1C'	0	EMBUF1	"*" First extract buffer
28	(1C)	BITSTRING	2	EMBUFL1	Length of area used in EMBUF1
30	(1E)	BITSTRING	2	EMBUFO1	Offset is zero on return

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
32	(20)	CHARACTER	251	EMBUFT1	Text of first level message
284	(11C)	SIGNED	2	EMBUF2 (0)	Second extract buffer
284	(11C)	BITSTRING	2	EMBUFL2	Length of area used in EMBUF2
286	(11E)	BITSTRING	2	EMBUFO2	Offset is zero on return
288	(120)	CHARACTER	251	EMBUFT2	Text of second level message
288	(120)	X'1FF'	0	EMLEN2	"*-EMBUFS" Length of buffer parameters

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	EMDSECT3	
0	(0)	CHARACTER	256	EMABUFFS (0)	
0	(0)	CHARACTER	255	EMABUFF	
0	(0)	BITSTRING	2	EMABUFLN	
2	(2)	BITSTRING	2	EMABUFOF	
4	(4)	CHARACTER	251	EMABUFTX	
255	(FF)	CHARACTER	1		
255	(FF)	X'100'	0	EMLEN3	"*-EMABUFFS" Length of array element

Comment

Valid Caller Identification Numbers

End of Comment

255	(FF)	X'32'	0	EMSVC99	"50" General caller with an SVC 99 error
255	(FF)	X'33'	0	EMFREE	"51" Free command with an SVC 99 error
255	(FF)	X'1'	0	EMDAIR	"1" General caller with a DAIR error
255	(FF)	X'63'	0	EMDYNALC	"99" Call is Dynamic Allocation

EMPARMS Cross Reference

Name	Hex Offset	Hex Value
EMABUFF	0	
EMABUFFS	0	
EMABUFLN	0	
EMABUFOF	2	
EMABUFTX	4	
EMBUFL1	1C	
EMBUFL2	11C	
EMBUFO1	1E	
EMBUFO2	11E	
EMBUFP	10	
EMBUFS	1C	
EMBUFT1	20	
EMBUFT2	120	
EMBUF1	1C	1C
EMBUF2	11C	
EMCPPLP	C	
EMDAIR	FF	1
EMDAPLP	4	4
EMDSECT1	0	
EMDSECT3	0	
EMDYNALC	FF	63
EMFREE	FF	33
EMFUNCT	0	
EMIDNUM	1	
EMKEEP	0	10
EMLEN1	14	1C
EMLEN2	120	1FF
EMLEN3	FF	100
EMNMSGBK	2	
EMPARMS	0	0
EMPUTLIN	0	80
EMRETCOD	8	
EMRETURN	0	20
EMRSV01	3	
EMRSV02	14	
EMSVC99	FF	32
EMS99RBP	4	
EMWTP	0	40

ENFCT Programming Interface information

Programming Interface information

ENFCT

INCLUDE ONLY

End of Programming Interface information

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ENFCT Heading Information

Common Name: Event Notification Facility Control Table
Macro ID: IEFENFCT
DSECT Name: ENFCT
Owning Component: Event Notification Facility (BB131)
Eye-Catcher ID: ENFC
Offset: 0
Length: 4 bytes
Storage Attributes: Subpool: Nucleus
Key: 0
Residency: Below
Size: 88 bytes (decimal)
Created by: IEFENFDM at SYSGEN
Pointed to by: CVTENFCT field of CVT data area
Serialization: None
Function: Maps the ENF Control Table

ENFCT Map

Offsets Dec	Offsets Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	88	ENFCT	
0	(0)	CHARACTER	4	ENFCTID	ACRONYM: ENFC
4	(4)	SIGNED	2	ENFCFLGS	FLAG BYTES
4	(4)	BITSTRING	1	ENFCFLG1	FLAG BYTE 1
		1...		ENFCAVAL	ENF INITIALIZED
		.1..		ENFCXAVL	ENF sysplex-wide notification available
		..11 1111		*	RESERVED
5	(5)	BITSTRING	1	ENFCFLG2	RESERVED
6	(6)	CHARACTER	1	ENFCRSV1	Reserved
7	(7)	UNSIGNED	1	ENFCT_NOXSYS_CODE	If ENFCXAVL is off, indicates why sysplex-wide notification is not available
8	(8)	ADDRESS	4	ENFCPMOD	ADDRESS OF IEFENFNM (USED FOR ENF INTERNAL PROCESSING)
12	(C)	ADDRESS	4	ENFCFMOD	ADDRESS OF ENF INTERFACE ROUTINE (IEFENFIN)
16	(10)	ADDRESS	4	ENFCASCB	ADDRESS OF MASTER SCHEDULER ASCB
20	(14)	ADDRESS	4	ENFCVT	ADDRESS OF ENF VECTOR TABLE
24	(18)	ADDRESS	4	ENFCDS	ADDRESS OF ENF PROCESS TABLE
28	(1C)	CHARACTER	4	ENFCECB	EVENT NOTIFICATION FACILITY ECB
32	(20)	SIGNED	4	ENFCMAX	MAXIMUM NUMBER OF EVENTS
36	(24)	ADDRESS	4	ENFCRMOD	ADDRESS OF ENF SERVICE ROUTINE (IEFENFFX)
40	(28)	ADDRESS	4	ENFCGMOD	IEFENFIN ENTRY POINT FROM EXIT ROUTINES
44	(2C)	ADDRESS	4	ENFCMSGC	ADDRESS OF IEFENFMC MESSAGE CSECT

Comment

2@P1D

End of Comment

48	(30)	ADDRESS	4	ENFCRMGR	ADDRESS OF IEFENFRM
52	(34)	ADDRESS	4	ENFCT_SRB_ADDR	ADDRESS OF IEFENFSR
56	(38)	ADDRESS	4	ENFCT_SRB_RMTR	ADDRESS OF IEFENFPD
60	(3C)	ADDRESS	4	ENFCT_ENXV@	Address of ENF's cross-system vector table in the IEFSCHAS address space
64	(40)	CHARACTER	8	ENFCT_XMEM_DATA	Cross-memory environment data
64	(40)	UNSIGNED	4	ENFCT_XSYS_PC	

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
					PC number for cross-system notification routine
68	(44)	UNSIGNED	4	*	Reserved
72	(48)	CHARACTER	12	ENFCT_XCF_DATA	
					XCF group membership data
72	(48)	BITSTRING	8	ENFCT_XSYS_MEM_TOK	
					ENF's XCF group member token
80	(50)	UNSIGNED	4	ENFCT_SYS_TOKEN	
					XCF system token
80	(50)	UNSIGNED	1	ENFCT_SYS_SLOT	
					XCF system slot number
81	(51)	UNSIGNED	3	*	Reserved
84	(54)	CHARACTER	4	*	Reserved

ENFCT Cross Reference

Name	Hex Offset	Hex Value
ENFCASCB	10	
ENFCAVAL	4	80
ENFCDS	18	
ENFCECB	1C	
ENFCFLGS	4	
ENFCFLG1	4	
ENFCFLG2	5	
ENFCFMOD	C	
ENFCGMOD	28	
ENFCMAX	20	
ENFCMSGC	2C	
ENFCPMOD	8	
ENFCRMGR	30	
ENFCRMOD	24	
ENFCRSV1	6	
ENFCT	0	
ENFCT_ENXV@	3C	
ENFCT_NOXSYS_CODE	7	
ENFCT_SRB_ADDR	34	
ENFCT_SRB_RMTR	38	
ENFCT_SYS_SLOT	50	
ENFCT_SYS_TOKEN	50	
ENFCT_XCF_DATA	48	
ENFCT_XMEM_DATA	40	
ENFCT_XSYS_MEM_TOK	48	
ENFCT_XSYS_PC	40	
ENFCTID	0	
ENFCVT	14	
ENFCXAVL	4	40

ENFDS Heading Information

Common Name: Event Notification Process Table
Macro ID: IEFENFDS
DSECT Name: ENFDS
Owning Component: Event Notification Facility (BB131)
Eye-Catcher ID: ENFD
Offset: 0
Length: 4
Storage Attributes: Main Storage: Yes
Virtual Storage: Yes
Auxiliary Storage: No
Subpool: 239
Key: 0
Data Space: No
Residency: ANY
Size: 804 bytes (decimal)
Created by: IEFENFDM
Pointed to by: ENFCDS field of the ENFCT data area
Serialization: Entries serialized by compare-and-swap
Function: Maps the ENF process table, used for ENFREQ requests from locked or disabled callers

ENFDS Map

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	804	ENFDS	
0	(0)	CHARACTER	4	ENFDSID	ENFDS CONTROL BLOCK ID
4	(4)	CHARACTER	8	ENFDSENT (100)	ENFDS ENTRY
4	(4)	CHARACTER	4	ENFDFLG	FLAG FIELD
4	(4)	BITSTRING	1	ENFDATT	USE BYTE
		1...		ENFDUSE	REQUEST PENDING FLAG
		.1..		ENFDUPDT	ENTRY IN USE BY IEFENFFX
		..11 1111		*	RESERVED
5	(5)	CHARACTER	3	ENFDRSV1	RESERVED
8	(8)	ADDRESS	4	ENFDEPL	Address of parameter list to process

ENFDS Constants

Len	Type	Value	Name	Description
4	DECIMAL	100	ENFDSMAX	Maximum number of entries in the ENFDS

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ENFDS Cross Reference

Name	Hex Offset	Hex Value
ENFDATT	4	
ENFDEPL	8	
ENFDFLG	4	
ENFDRSV1	5	
ENFDS	0	
ENFDSENT	4	
ENFDSID	0	
ENFDUPDT	4	40
ENFDUSE	4	80

ENFLS Heading Information

Common Name: Event Notification Facility Listener Element
Macro ID: IEFENFLS
DSECT Name: ENFLS
Owning Component: Event Notification Facility (BB131)
Eye-Catcher ID: ENFL
Offset: 0
Length: 4 BYTES
Storage Attributes: Subpool: 241
Key: 0
Residency: Any
Size: 136 bytes (decimal)
Created by: IEFENFNM
Pointed to by: ENFVPTR(EVENT CODE) of ENFVT data area points to the first element
ENFVLPTR(EVENT CODE) of ENFVT data area points to the last element
ENFLNPTR field of the ENFLS data area
ENFLPPTR field of the ENFLS data area
Serialization: ENFLUSE is used by compare and swap to serialize the use of this element.
Function: Maps the ENF Listener Element

ENFLS Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	136	ENFLS	
0	(0)	CHARACTER	4	ENFLSID	ENFLS HEADER
4	(4)	BITSTRING	1	ENFLFLGS	FLAGS FIELD
		1...		ENFLERR	ENFLS NOT USABLE
		.1..		ENFLDIS	Disable ENFLS if error
		..1.		ENFL_EOT	End of task requested
		...1		ENFL_EOM	End of memory requested
		.... 1...		ENFL_EXIT_TYPE	Exit type. OFF indicates that the user specified EXIT. ON indicates that the user specified SRBEXIT
		.... .1..		ENFLXSYS	If set, listener accepts notifications originating on other systems
		11		*	RESERVED
5	(5)	CHARACTER	1	ENFLQMSK	QUALIFIER MASK
6	(6)	BITSTRING	1	ENFLFLG2	Second flag field
		111.		ENFLBCMP	Bit comparison to be used in evaluating bit-mapped qualifier. Bit patterns defined in IEFENFPM.
		...1 1111		*	Reserved
7	(7)	CHARACTER	1	ENFLRSV1	Reserved
8	(8)	CHARACTER	4	ENFLQUAL	QUALIFIER
12	(C)	ADDRESS	4	ENFLRTN	EXIT ROUTINE TO GET CONTROL
		1...		ENFLRTM	AMODE OF EXIT ROUTINE
12	(C)	BITSTRING	3	ENFLRTA	ADDRESS OF EXIT ROUTINE
16	(10)	SIGNED	4	ENFLTOKN	TOKEN FOR THIS ENFLS
20	(14)	SIGNED	4	ENFLUSE	USE COUNT
		1...		ENFLDEL	ENFLS AVAILABLE FOR REUSE
24	(18)	ADDRESS	4	ENFLNPTR	ADDRESS OF NEXT ENFLS
28	(1C)	ADDRESS	4	ENFLPPTR	ADDRESS OF PREVIOUS ENFLS
32	(20)	ADDRESS	4	ENFLR14	RETURN ADDRESS OF ESTABLISHER OF LISTEN EXIT.
36	(24)	CHARACTER	8	ENFLENME	NAME OF ESTABLISHER OF LISTEN EXIT.
44	(2C)	CHARACTER	8	ENFLXNME	NAME OF LISTEN EXIT

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ENFLS Cross Reference

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
52	(34)	ADDRESS	4	ENFLPARM	Address of listener's parameters
56	(38)	ADDRESS	4	ENFL_ASCB	Address of listener's ASCB
60	(3C)	ADDRESS	4	ENFL_TCB	Address of listener's TCB
64	(40)	SIGNED	2	ENFL_ASID	Listener's ASID
66	(42)	CHARACTER	8	ENFLJNME	Jobname of Listen Exit
74	(4A)	CHARACTER	32	ENFLBMQ	Bit-mapped qualifier
106	(6A)	CHARACTER	2	*	Reserved
108	(6C)	CHARACTER	4	ENFL_SRBEXIT_CPID	Cell pool id for IEFENFSR
112	(70)	ADDRESS	4	ENFL_SRBEXIT_CPOOL_SAVE	Address of a 72-byte save area used in deleting the IEFENFSR cell pool
116	(74)	CHARACTER	8	ENFL_STOKEN	STOKEN of the listener's address space (SRB mode listeners)
124	(7C)	CHARACTER	12	ENFL_RMTR	This area of the ENFL contains the resource manager code (RMTR) for the SRB. This allows us to purge the SRB associated with the ENF Listener Element only.
124	(7C)	CHARACTER	4	ENFL_RMTR_L	This field contains an instruction which loads the address of the real RMTR. (L 15,*+8(15))
128	(80)	CHARACTER	2	ENFL_RMTR_BR	This field contains an instruction which branches to the real RMTR. (BR 15)
130	(82)	CHARACTER	2	ENFL_RMTR_NOP	This field contains an instruction which aligns the next full word. (NOP)
132	(84)	ADDRESS	4	ENFL_RMTR_ADDR	This field contains the address of the real RMTR (IEFENFPD).

ENFLS Cross Reference

Name	Hex Offset	Hex Value
ENFL_ASCB	38	
ENFL_ASID	40	
ENFL_EOM	4	10
ENFL_EOT	4	20
ENFL_EXIT_TYPE	4	08
ENFL_RMTR	7C	
ENFL_RMTR_ADDR	84	
ENFL_RMTR_BR	80	
ENFL_RMTR_L	7C	
ENFL_RMTR_NOP	82	
ENFL_SRBEXIT_CPID	6C	
ENFL_SRBEXIT_CPOOL_SAVE	70	
ENFL_STOKEN	74	
ENFL_TCB	3C	
ENFLBCMP	6	E0
ENFLBMQ	4A	
ENFLDEL	14	80
ENFLDIS	4	40
ENFLENME	24	
ENFLERR	4	80
ENFLFLGS	4	
ENFLFLG2	6	
ENFLJNME	42	
ENFLNPTR	18	
ENFLPARM	34	
ENFLPPTR	1C	
ENFLQMSK	5	
ENFLQUAL	8	
ENFLRSV1	7	
ENFLRTA	C	
ENFLRTM	C	80
ENFLRTN	C	
ENFLR14	20	
ENFLS	0	
ENFLSID	0	
ENFLTOKN	10	
ENFLUSE	14	
ENFLXNME	2C	
ENFLXSYS	4	04

ENFPM Programming Interface information

Programming Interface information

ENFPM

INCLUDE ONLY

End of Programming Interface information

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ENFPM Heading Information

Common Name: Event Notification Facility Parameter List
Macro ID: IEFENFPM
DSECT Name: ENFPM
Owning Component: Event Notification Facility (BB131)
Eye-Catcher ID: None
Storage Attributes: Subpool: Any
Key: Any
Residency: Any
Size: 104 bytes (decimal)
Created by: ENF users
Pointed to by: N/A
Serialization: None
Function: Maps the ENFREQ parameter list

ENFPM Map

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0		
0	(0)	SIGNED	4	ENFPM (0)	
0	(0)	SIGNED	2	ENFPLEN	LENGTH OF ENF PARAMETER LIST
2	(2)	SIGNED	2	ENFPACT (0)	REQUESTED ENF ACTION
2	(2)	CHARACTER	1	ENFPACT1	RESERVED
3	(3)	CHARACTER	1	ENFPACT2	DEFINITION BYTE
		1		ENFPSIG	"X'01'" SIGNAL AN EVENT
		.... ..1.		ENFPLIS	"X'02'" LISTEN FOR AN EVENT
		11		ENFPDEL	"X'03'" DELETE A LISTENER
		.... .1..		ENFPQRY	"X'04'" QUERY FOR INFORMATION
4	(4)	BITSTRING	4	ENFPCODE	EVENT CODE (RIGHT JUSTIFIED)
4	(4)	X'1'	0	ENFPC001	"1" VARY DEVICE ONLINE
4	(4)	X'2'	0	ENFPC002	"2" VARY DEVICE OFFLINE
4	(4)	X'3'	0	ENFPC003	"3" VOLUME UNLOAD
4	(4)	X'4'	0	ENFPC004	"4" FREE SQA
4	(4)	X'5'	0	ENFPC005	"5" COMM TASK AND TOD INIT COMPLETE
4	(4)	X'6'	0	ENFPC006	"6" SRM - STATUS CHANGE IN CHANNEL MEASURMENT BLOCK DATA COLLECTOR
4	(4)	X'7'	0	ENFPC007	"7" RESERVED
4	(4)	X'8'	0	ENFPC008	"8" PATH STATE CHANGE
4	(4)	X'9'	0	ENFPC009	"9" CHANNEL PATH STATE CHANGE
4	(4)	X'A'	0	ENFPC010	"10" DDR SWAP
4	(4)	X'B'	0	ENFPC011	"11" FAILURE OF CHANNEL MONITORING FACILITY
4	(4)	X'C'	0	ENFPC012	"12" DEVICE PENDING OFFLINE
4	(4)	X'D'	0	ENFPC013	"13" WTO BUFFER UTILIZATION
4	(4)	X'E'	0	ENFPC014	"14" JES3 BUFFER UTILIZATION
4	(4)	X'F'	0	ENFPC015	"15" STORAGE MANAGEMENT SUBSYSTEM RESOURCE AVAILABILITY CHANGE
4	(4)	X'10'	0	ENFPC016	"16" VOLUME BECOMING AVAILABLE
4	(4)	X'11'	0	ENFPC017	"17" CONSOLE OR TSO OPERATOR HAS CHANGED FROM THE ACTIVE TO INACTIVE STATE
4	(4)	X'12'	0	ENFPC018	"18" RECONFIGURATION ISSUED TO NOTIFY Crypto WHEN A CPU COMES ONLINE OR GOES OFFLINE.
4	(4)	X'13'	0	ENFPC019	"19" SIGNALS CRYPTOGRAPHY FEATURE AVAILABLE
4	(4)	X'14'	0	ENFPC020	"20" UNSOLICITED SIGNAL INTERRUPT
4	(4)	X'15'	0	ENFPC021	"21" CHANGE TO DASD MIH INTERVAL
4	(4)	X'16'	0	ENFPC022	"22" SIGNALS CRYPTOGRAPHY FEATURE OFFLINE
4	(4)	X'17'	0	ENFPC023	"23" VARY DEVICE ONLINE (DYNAMIC I/O)
4	(4)	X'18'	0	ENFPC024	"24" VARY DEVICE OFFLINE (DYNAMIC I/O)
4	(4)	X'19'	0	ENFPC025	"25" VOLUME UNLOAD (DYANMIC I/O)
4	(4)	X'1A'	0	ENFPC026	"26" CHANGE IN DEVICE STATE (DYNAMIC I/O)
4	(4)	X'1B'	0	ENFPC027	"27" PATH STATE CHANGE (DYNAMIC I/O)

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
4	(4)	X'1C'	0	ENFPC028	"28" DDR SWAP (DYNAMIC I/O)
4	(4)	X'1D'	0	ENFPC029	"29" DEVICE PENDING OFFLINE (DYNAMIC I/O)
4	(4)	X'1E'	0	ENFPC030	"30" VOLUME BECOMING AVAILABLE (DYNAMIC I/O)
4	(4)	X'1F'	0	ENFPC031	"31" SYNCHRONOUS SIGNAL TO PROCESS CONFIGURATION CHANGE BLOCK (DYNAMIC I/O)
4	(4)	X'20'	0	ENFPC032	"32" SYNCHRONOUS SIGNAL TO INDICATE CONFIGURATION CHANGE IS COMPLETE (DYNAMIC I/O)
4	(4)	X'21'	0	ENFPC033	"33" DEVICE STATE CHANGE
4	(4)	X'22'	0	ENFPC034	"34" MACHINE CHECK DUE TO SCLP DAMAGE
4	(4)	X'23'	0	ENFPC035	"35" Cross system locking services
4	(4)	X'24'	0	ENFPC036	"36" Symptom string written to a LOGREC data set or LOGREC log stream
4	(4)	X'25'	0	ENFPC037	"37" SMF INTERVAL SYNC SUPPORT
4	(4)	X'26'	0	ENFPC038	"38" An ARM Event Occurred
4	(4)	X'27'	0	ENFPC039	"39" Reserved
4	(4)	X'28'	0	ENFPC040	"40" JES initiation or termination
4	(4)	X'29'	0	ENFPC041	"41" A WLM Event Occurred
4	(4)	X'2A'	0	ENFPC042	"42" A SRM Event Occurred
4	(4)	X'2B'	0	ENFPC043	"43" New sampling data is available
4	(4)	X'2C'	0	ENFPC044	"44" Subchannel CRW is received
4	(4)	X'2D'	0	ENFPC045	"45" SMSVSAM server is operational
4	(4)	X'2E'	0	ENFPC046	"46" A significant OMVS event has occurred
4	(4)	X'2F'	0	ENFPC047	"47" DAE dumping threshold met for a given incident in the last detection interval
4	(4)	X'30'	0	ENFPC048	"48" A system logger event has occurred
4	(4)	X'31'	0	ENFPC049	"49" Logrec output recording medium was changed via SETLOGRC command
4	(4)	X'32'	0	ENFPC050	"50" Parallel access volume capacity state change
4	(4)	X'33'	0	ENFPC051	"51" A GRS event has occurred
4	(4)	X'34'	0	ENFPC052	"52" LNKLST activation
4	(4)	X'35'	0	ENFPC053	"53" External time reference state change
4	(4)	X'36'	0	ENFPC054	"54" An SDUMP event has occurred
4	(4)	X'37'	0	ENFPC055	"55" An SRM event has occurred
4	(4)	X'38'	0	ENFPC056	"56" Issued during RESET job and QUIESCE job commands to tell JES about service class changes for batch jobs in execution
4	(4)	X'39'	0	ENFPC057	"57" Issued by WLM when a WLM known abstract resource changes state
4	(4)	X'3A'	0	ENFPC058	"58" Issued by JES when a sysout data set changes state
4	(4)	X'3B'	0	ENFPC059	"59" Issued by BOSS for synchronizing the sysplex wide view of the Active Server Respository
4	(4)	X'3C'	0	ENFPC060	"60" Issued by Transaction Trace
4	(4)	X'3D'	0	ENFPC061	"61" Issued by WLM **********
4	(4)	X'3D'	0	ENFPCMAX	"61" High Water Mark, Maximum Number of Events **********
8	(8)	BITSTRING	1	ENFPFLG	FLAG FIELD
		1...		ENFPASN	"X'80'" ASYNCHRONOUS REQUEST
		.1..		ENFPDISA	"X'40'" Disable keyword
		..1.		ENFPDISO	"X'20'" Disable keyword operational
		...1		ENFPXSYS	"X'10'" Signal request - set if signal is to be sent to other systems. Listen request - set if listener will accept signals from foreign systems.
		.... 1...		ENFPFREE	"X'08'" FREE SIGNAL PARAMETER LIST
		.... .1..		ENFPEOT	"X'04'" EOT support requested
		.... ..1.		ENFPEOM	"X'02'" EOM support requested
		1		ENFPSRBE	"X'01'" SRBEXIT specified
9	(9)	BITSTRING	1	ENFPQMSK	MASK FOR COMPARING QUALIFIERS
		.... 1...		ENFPQMS1	"X'08'" COMPARE CHARACTER 1
		.... .1..		ENFPQMS2	"X'04'" COMPARE CHARACTER 2
		.... ..1.		ENFPQMS3	"X'02'" COMPARE CHARACTER 3
		1		ENFPQMS4	"X'01'" COMPARE CHARACTER 4
10	(A)	SIGNED	2	ENFPFATT (0)	FREEMAIN ATTRIBUTES
10	(A)	BITSTRING	1	ENFPFKEY	KEY FOR FREEMAIN AREA
11	(B)	BITSTRING	1	ENFPFSPL	SUBPOOL FOR FREEMAIN AREA
12	(C)	BITSTRING	4	ENFPQUAL	QUALIFIER

ENFPM Cross Reference

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
16	(10)	SIGNED	4	ENFPEADR	LISTEN: LISTENER'S EXIT ROUTINE ADDR If ENFPSRBE is on then the listen exit will run in the listener's address space as SRB. SIGNAL: SIGNALER'S EXIT ROUTINE ADDR
20	(14)	SIGNED	4	ENFPSPRM	ADDRESS OF SIGNALER'S or listener's parameters
24	(18)	SIGNED	4	ENFPTOK	LISTEN: TOKEN OF LISTENER'S ELEMENT SIGNAL: ADDRESS OF ORIGINAL EPL
28	(1C)	SIGNED	4	ENFPFLEN	LENGTH OF AREA TO BE FREED
32	(20)	SIGNED	2	ENFPVERS	PARAMETER LIST VERSION
34	(22)	SIGNED	2	ENFPRESV	RESERVED
36	(24)	ADDRESS	4	ENFPR14C	ADDRESS OF CALLER OF ENF
40	(28)	CHARACTER	8	ENFPLNME	NAME OF ESTABLISHER OF LISTEN EXIT
48	(30)	CHARACTER	8	ENFPXNME	NAME OF LISTEN EXIT ROUTINE
56	(38)	SIGNED	4	ENFPLSNM	LISTENER COUNT (RETURNED) ONLY FOR SYNCHRONOUS REQUESTS
60	(3C)	CHARACTER	4	ENFPCRET	SPECIAL PROCESSING CODE RETURNED FROM EXIT
64	(40)	BITSTRING	32	ENFPBMQ	Bit-mapped qualifier
96	(60)	BITSTRING	1	ENFPFLG2	Additional flags
		...1 1111		ENFPBQMK	"B'00011111'" Value to AND into ENFPFLG2 to clear the high-order 3 bits that represent the comparison to be performed on the bit- mapped qualifier
		....		ENFPBQSB	"B'00000000'" Value to OR into ENFPFLG2 to indicate BITCOMPARE=SUBSET
		..1.		ENFPBQIN	"B'00100000'" Value to OR into ENFPFLG2 to indicate BITCOMPARE=INTERSECT
		.1..		ENFPBQEQ	"B'01000000'" Value to OR into ENFPFLG2 to indicate BITCOMPARE=EQUAL
		...1		ENFPMASE	"B'00010000'" MASEXIT support requested
97	(61)	CHARACTER	7		Reserved
97	(61)	X'68'	0	ENFPLLEN	"*-ENFPM" ASSEMBLER LENGTH OF PARAMETER LIST
97	(61)	X'3'	0	ENFPVRSN	"3" Current version number

ENFPM Cross Reference

Name	Hex Offset	Hex Value
ENFPACT	2	
ENFPACT1	2	
ENFPACT2	3	
ENFPASN	8	80
ENFPBMQ	40	
ENFPBQEQ	60	40
ENFPBQIN	60	20
ENFPBQMK	60	1F
ENFPBQSB	60	0
ENFPCMAX	4	3D
ENFPCODE	4	
ENFPCRET	3C	
ENFPC001	4	1
ENFPC002	4	2
ENFPC003	4	3
ENFPC004	4	4
ENFPC005	4	5
ENFPC006	4	6
ENFPC007	4	7
ENFPC008	4	8
ENFPC009	4	9
ENFPC010	4	A
ENFPC011	4	B
ENFPC012	4	C
ENFPC013	4	D
ENFPC014	4	E
ENFPC015	4	F
ENFPC016	4	10
ENFPC017	4	11
ENFPC018	4	12
ENFPC019	4	13
ENFPC020	4	14
ENFPC021	4	15
ENFPC022	4	16
ENFPC023	4	17
ENFPC024	4	18
ENFPC025	4	19
ENFPC026	4	1A
ENFPC027	4	1B
ENFPC028	4	1C
ENFPC029	4	1D
ENFPC030	4	1E
ENFPC031	4	1F
ENFPC032	4	20
ENFPC033	4	21
ENFPC034	4	22
ENFPC035	4	23
ENFPC036	4	24
ENFPC037	4	25
ENFPC038	4	26
ENFPC039	4	27
ENFPC040	4	28
ENFPC041	4	29
ENFPC042	4	2A
ENFPC043	4	2B
ENFPC044	4	2C
ENFPC045	4	2D
ENFPC046	4	2E

Name	Hex Offset	Hex Value
ENFPC047	4	2F
ENFPC048	4	30
ENFPC049	4	31
ENFPC050	4	32
ENFPC051	4	33
ENFPC052	4	34
ENFPC053	4	35
ENFPC054	4	36
ENFPC055	4	37
ENFPC056	4	38
ENFPC057	4	39
ENFPC058	4	3A
ENFPC059	4	3B
ENFPC060	4	3C
ENFPC061	4	3D
ENFPDEL	3	3
ENFPDISA	8	40
ENFPDISO	8	20
ENFPEADR	10	
ENFPEOM	8	2
ENFPEOT	8	4
ENFPFATT	A	
ENFPFKEY	A	
ENFPFLEN	1C	
ENFPFLG	8	
ENFPFLG2	60	
ENFPFREE	8	8
ENFPFSPL	B	
ENFPLEN	0	
ENFPLIS	3	2
ENFPLLEN	61	68
ENFPLNME	28	
ENFPLSNM	38	
ENFPM	0	
ENFPMASE	60	10
ENFPQMSK	9	
ENFPQMS1	9	8
ENFPQMS2	9	4
ENFPQMS3	9	2
ENFPQMS4	9	1
ENFPQRY	3	4
ENFPQUAL	C	
ENFPRESV	22	
ENFPR14C	24	
ENFPSIG	3	1
ENFPSPRM	14	
ENFPSRBE	8	1
ENFPTOK	18	
ENFPVERS	20	
ENFPVRSN	61	3
ENFPXNME	30	
ENFPXSYS	8	10

ENFVT Heading Information

Common Name: Event Notification Facility Vector Table
Macro ID: IEFENFVT
DSECT Name: ENFVT
Owning Component: Event Notification Facility (BB131)
Eye-Catcher ID: ENFV
Offset: 0
Length: 4 bytes
Storage Attributes: Subpool: 239
Key: 0
Residency: Any
Size: 4 + (20 x ENFCMAX) bytes
Created by: IEAVNP47
Pointed to by: ENFCVT field of the ENFCT data area.
Serialization: ENFVPTR - serialized by the LOCAL and CMS locks
ENFVLPTR - serialized by the LOCAL and CMS locks.
ENFVDTKN - serialized using compare and swap.
Function: Maps the ENF Vector Table.

ENFVT Map

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	*	ENFVT	
0	(0)	CHARACTER	4	ENFVTID	ENFVT control block id
4	(4)	CHARACTER	20	ENFVTENT (*)	ENFVT entry
4	(4)	ADDRESS	4	ENFVXITA	Address of signal pre-processing exit routine
8	(8)	ADDRESS	4	ENFVPTR	Pointer to first ENFLS on the queue for the event
12	(C)	ADDRESS	4	ENFVLPTR	Pointer to last ENFLS on the queue for the event
16	(10)	SIGNED	4	ENFVDTKN	DTOKEN field for each event
20	(14)	BITSTRING	1	ENFVT_FLAGS	Event code flags. Initialized by IEAVNP47.
		1...		ENFVT_SRB_EXIT	This event allows SRBEXIT on a Listen request
		.1..		ENFVT_EXIT	This event allows EXIT on a Listen request
		..1.		ENFVT_XSYS_CAPABLE	This event supports cross-system notification
		...1 1111		ENFVT_RSV1	Reserved
21	(15)	UNSIGNED	3	ENFVT_RSV2	Reserved

ENFVT Cross Reference

Name	Hex Offset	Hex Value
ENFVDTKN	10	
ENFVLPTR	C	
ENFVPTR	8	
ENFVT	0	
ENFVT_EXIT	14	40
ENFVT_FLAGS	14	
ENFVT_RSV1	14	1F
ENFVT_RSV2	15	
ENFVT_SRB_EXIT	14	80
ENFVT_XSYS_CAPABLE	14	20
ENFVTENT	4	
ENFVTID	0	
ENFVXITA	4	

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ENV Heading Information

Common Name: Machine Check Handler Environment Data Area
Macro ID: IGFENV
DSECT Name: ENV
Owning Component: Dynamic Device Reconfiguration (BB1CS)
Eye-Catcher ID: ENV
Offset: 0
Length: 4
Storage Attributes: Subpool: 239
Key: 0
Residency: Above 16M
Size: 216 bytes
Created by: IGFPBUCR
Pointed to by: PWA, PWAENV
Serialization: MCH is disabled for all interrupts, except machine checks. There is one ENV for each processor.
Function: For every machine check, MCH must decide whether the interrupted task can receive contrl at the next sequential instruction or must be entered at it's ESTAE/FRR. This decision is made by IGFPMRTH who fills in the registers and builds a psw that will be subsequently loaded by IGFPEXIT. For the nsi case the appropriate registers plus a copy of the machine check old psw are used, for the ESTAE/FRR case the registers and the PSW will cause IGFPEXIT to pass control to RIM who will eventually invoke the ESTAE/FRR.

ENV Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	216	ENV	IGFPEXIT INPUT
0	(0)	CHARACTER	4	ENVID	= 'ENV '
4	(4)	CHARACTER	1	ENVCTRL	CONTROL BITS USED AS INTERNAL INDICATERS
		1...		ENVSFT	SOFT MCH CHECK PROCESSING
		.111 1111		*	RESERVED
5	(5)	CHARACTER	3	*	
8	(8)	CHARACTER	64	ENVGREGS	THE 16 GENERAL PURPOSE REGS. THESE REGISTERS ARE LOADED AT THE END OF IGFPEXIT PROCESSING.
8	(8)	ADDRESS	4	ENVGREG (0 15)	THE SUBSCRIPT IS EQUIVALENT TO THE REGISTER NUMBER.
72	(48)	CHARACTER	64	ENVAREGS	THE ACCESS REGISTERS. THESE REGISTERS ARE LOADED AT THE END OF IGFPEXIT PROCESSING.
72	(48)	ADDRESS	4	ENVAREG (0 15)	THE SUBSCRIPT IS EQUIVALENT TO THE REGISTER NUMBER.
136	(88)	CHARACTER	8	ENVXM	CONTROL REGISTER(3,4). THESE TWO CONTROL REGISTERS ARE USED BY THE CMSET RESET THAT IS ISSUED AT THE END OF IGFPEXIT PROCESSING.
136	(88)	ADDRESS	4	ENVXMCR3	CONTROL REGISTER(3).
140	(8C)	ADDRESS	4	ENVXMCR4	CONTROL REGISTER(4).
144	(90)	CHARACTER	64	ENVG64H	HIGH HALVES OF GPRS
208	(D0)	CHARACTER	8	ENVPSW	THIS IS THE PSW THAT IS LOADED AT THE END OF IGFPEXIT PROCESSING
208	(D0)	CHARACTER	4	ENVPSWFG	
208	(D0)	CHARACTER	1	ENVPSWSM	THE SYSTEM MASK

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ENV Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
209	(D1)	CHARACTER	1	ENVPSWKM	THE KEY MASK
210	(D2)	CHARACTER	1	ENVPSWAS	THE ADDRESS MODE MASK.
211	(D3)	CHARACTER	1	ENVPSWPM	THE PROGRAM MASK
212	(D4)	ADDRESS	4	ENVPSWIA	INSTRUCTION ADDRESS
		1...		ENVPSWAM	THIS IS THE ADDRESSING MODE BIT, IF IT IS EVERY SET IT MUST BE SET AFTER ENVPSWIA IS SET
216	(D8)	CHARACTER	0	*	

ENV Cross Reference

Name	Hex Offset	Hex Value
ENV	0	
ENVAREG	48	
ENVAREGS	48	
ENVCTRL	4	
ENVGREG	8	
ENVGREGS	8	
ENVG64H	90	
ENVID	0	
ENVPSW	D0	
ENVPSWAM	D4	80
ENVPSWAS	D2	
ENVPSWFG	D0	
ENVPSWIA	D4	
ENVPSWKM	D1	
ENVPSWPM	D3	
ENVPSWSM	D0	
ENVSFT	4	80
ENVXM	88	
ENVXMCR3	88	
ENVXMCR4	8C	

EPAL Heading Information

Common Name: EPA MAPPING FOR LOCATE MODE SWA MANAGER
Macro ID: N/A
DSECT Name: N/A
Owning Component: N/A
Eye-Catcher ID: N/A
Offset: N/A
Length: N/A
Storage Attributes: Main Storage: N/A
Virtual Storage: N/A
Auxiliary Storage: N/A
Subpool: N/A
Key: N/A
Data Space: N/A
Residency: N/A
Size: N/A
Created by: N/A
Pointed to by: N/A
Serialization: N/A
Function: PROVIDES EPA MAPPING FOR LOCATE MODE SWA MANAGER

EPAL Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	ZB505	
0	(0)	CHARACTER	16	SWAEPA (0)	MAPPING OF STANDARD EPA
0	(0)	SIGNED	4	SWBLKPTR	POINTER TO BLOCK
4	(4)	SIGNED	4	SWVAFW (0)	4 BYTE SWA VIRTUAL ADDRESS
4	(4)	CHARACTER	3	SWVA	3 BYTE SWA VIRTUAL ADDRESS
7	(7)	CHARACTER	1	SWBLKID	BLOCK ID OR ZERO
8	(8)	SIGNED	4	SWLNGTH	LENGTH OF SWA BLOCK (NOT INCLUDING SWA PREFIX)
12	(C)	SIGNED	4	SWCHNPTR	CHAIN POINTER OR ZERO

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EPAM Heading Information

Common Name: EPA MAPPING FOR MOVE MODE SWA MANAGER
Macro ID: N/A
DSECT Name: N/A
Owning Component: N/A
Eye-Catcher ID: N/A
Offset: N/A
Length: N/A
Storage Attributes: Main Storage: N/A
Virtual Storage: N/A
Auxiliary Storage: N/A
Subpool: N/A
Key: N/A
Data Space: N/A
Residency: N/A
Size: N/A
Created by: N/A
Pointed to by: N/A
Serialization: N/A
Function: PROVIDES EPA MAPPING FOR MOVE MODE SWA MANAGER

EPAM Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	ZB506	
0	(0)	CHARACTER	8	SWAMMEPA (0)	MOVE MODE EPA MAPPING FOR STANDARD EPAS
0	(0)	SIGNED	4	SWBUFPTR (0)	FOR READ OR WRITE - BUFFER ADDRESS
0	(0)	CHARACTER	3	SWASNVA	FOR ASSIGNS (SVA)
3	(3)	CHARACTER	1	SWASNZO	4TH BYTE OF SVA0 - FOR ASSIGNS REMAINDER NOT USED FOR ASSIGNS
4	(4)	CHARACTER	3	SWROWVA	SVA FOR READ OR WRITE
7	(7)	CHARACTER	1	SWWRTID	FOR 8 OR 16 BYTE EPAS, THIS IS THE ID OF THE BLOCK TO BE WRITTEN

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EPCB Heading Information

Common Name: EXCP Purge Control Block
Macro ID: IECDEPCB
DSECT Name: EPCB
Owning Component: Execute Channel Program Processor (SC1C6)
Eye-Catcher ID: None
Storage Attributes: Subpool: 230 - Associated with the job step TCB
Key: 0
Size: 252
Created by: EXCP purge routine to build a list of IOBs to be restored.
Pointed to by: PIRDVRU field of the PIRL data area (EXCP driver area of PIRL). EPCBCHN field of the EPCB data area.
Serialization: Local Lock
Function: The EXCP purge control block contains all the data necessary to restore a purge quiesce request. The EPCB is built by the EXCP purge routine and is used by the EXCP restore routine to restore the purged requests in the appropriate protect key and under the appropriate TCB.

EPCB Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	EPCB	
0	(0)	BITSTRING	12	EPCBHDRL (0)	EPCB block header area.....
0	(0)	SIGNED	4	EPCBCHN	EPCB block chain pointer address
4	(4)	ADDRESS	4	EPCBRTCB	1st I/O related request TCB address
8	(8)	SIGNED	4	EPCBENT (0)	Current EPCB entry pointer
8	(8)	BITSTRING	1	EPCBNENT	Number of available EPCB entries
9	(9)	ADDRESS	3	EPCBENTY	Current EPCB entry pointer

Comment

Each EPCB entry is 3 words in length and contains the following

End of Comment

12	(C)	BITSTRING	12	EPCBENTT (0)	Start of EPCB table entries....
12	(C)	SIGNED	4	EPCBIOB (0)	Requestors IOB address and key.
12	(C)	BITSTRING	1	EPCBPKEY	Protect key of the originator issuing the request. This field is a copy of the RQEPRT byte. Bits 0-3 are the protect key and bits 4-7 are EXCP flags, one of which indicates a SAM-E request.
13	(D)	ADDRESS	3	EPCBIOBA	Requestors IOB address to be restored.
16	(10)	SIGNED	4	EPCBTCB (0)	Address OF THE TCB OR ZEROS and type of IOB.
16	(10)	BITSTRING	1	EPCBIOBT	Type of IOB- 00 - EXCP request, F4 - EXCPVR request
17	(11)	ADDRESS	3	EPCBTCBA	Address OF THE TCB OR ZEROS. If the purge request was not memory quiesce or originating TCB restore was not specified, this field will be zero to indicate that the IOB is to be restored to THE TCB requesting the restore.
20	(14)	ADDRESS	4	EPCBIOBE	Address of the IOB extension or zero
20	(14)	X'C'	0	EPCBENTL	"*-EPCBIOB" EPCB entry length

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EPCB Cross Reference

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					Comment
					End of entries is depicted as a full word of zeros following the last entry.
					End of Comment
20	(14)	X'FC'	0	EPCBBL	"252" Size of a specific EPCB Block (gives 1 header and 20 entries)
20	(14)	X'14'	0	EPCBNE	"(EPCBBL-L'EPCBHDRL)/L'EPCBENTT" Number of EPCB entries

EPCB Cross Reference

Name	Hex Offset	Hex Value
EPCB	0	
EPCBBL	14	FC
EPCBCHN	0	
EPCBENT	8	
EPCBENTL	14	C
EPCBENTT	C	
EPCBENTY	9	
EPCBHDRL	0	
EPCBIOB	C	
EPCBIOBA	D	
EPCBIOBE	14	
EPCBIOBT	10	
EPCBNE	14	14
EPCBNENT	8	
EPCBPKEY	C	
EPCBRTCB	4	
EPCBTCB	10	
EPCBTCBA	11	

EPIE Programming Interface information

Programming Interface information

EPIE

End of Programming Interface information

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EPIE Heading Information

Common Name: Extended Program Interruption Element
Macro ID: IHAEPIE
DSECT Name: EPIE
Owning Component: Recovery Termination Manager (SCRTM)
Eye-Catcher ID: EPIE
Offset: X'0'
Length: 4
Storage Attributes: Subpool: 130 or 250
Key: TCB Key
Size: 160 bytes
Created by: IEAVTESP
Pointed to by: Register 1 upon entry to an ESPIE exit routine. The EPIE can also be found via SCAPIE + 32 (The EPIE immediately follows the PIE in storage).
Serialization: Task Active
Function: The EPIE is used to pass program interruption information to an ESPIE exit routine.

EPIE Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	EPIE	
0	(0)	CHARACTER	4	EPIEEPIE	EPIE CONTROL BLOCK IDENTIFIER IN EBCDIC
4	(4)	ADDRESS	4	EPIEPARM	PARAMETER LIST ADDRESS SPECIFIED BY PARAM OPTION OF ESPIE MACRO
8	(8)	CHARACTER	64	EPIEGPR (0)	GENERAL PURPOSE REGISTERS AT TIME OF INTERRUPTION
8	(8)	SIGNED	4	EPIEGR00	- Register 0
12	(C)	SIGNED	4	EPIEGR01	- Register 1
16	(10)	SIGNED	4	EPIEGR02	- Register 2
20	(14)	SIGNED	4	EPIEGR03	- Register 3
24	(18)	SIGNED	4	EPIEGR04	- Register 4
28	(1C)	SIGNED	4	EPIEGR05	- Register 5
32	(20)	SIGNED	4	EPIEGR06	- Register 6
36	(24)	SIGNED	4	EPIEGR07	- Register 7
40	(28)	SIGNED	4	EPIEGR08	- Register 8
44	(2C)	SIGNED	4	EPIEGR09	- Register 9
48	(30)	SIGNED	4	EPIEGR10	- Register 10
52	(34)	SIGNED	4	EPIEGR11	- Register 11
56	(38)	SIGNED	4	EPIEGR12	- Register 12
60	(3C)	SIGNED	4	EPIEGR13	- Register 13
64	(40)	SIGNED	4	EPIEGR14	- Register 14
68	(44)	SIGNED	4	EPIEGR15	- Register 15
72	(48)	CHARACTER	8	EPIEPSW (0)	EC MODE PROGRAM OLD PSW
72	(48)	BITSTRING	1	EPIEEMK1	Interrupt information masks
73	(49)	BITSTRING	1	EPIEMWP1	PSW key and 'M-W-P'
74	(4A)	BITSTRING	1	EPIECCPM	Condition code and program mask
75	(4B)	BITSTRING	1		Reserved
76	(4C)	SIGNED	4	EPIENXT1 (0)	Address of the next instruction to be executed
76	(4C)	BITSTRING	1	EPIEAMF1	Addressing mode flag
		1...		EPIEMOD1	"X'80'" Addressing mode of the next instruction to be executed
77	(4D)	CHARACTER	3	EPIEADD1	24 bit instruction address
80	(50)	CHARACTER	4	EPIEINT (0)	Program interruption information for EPIEPSW
80	(50)	CHARACTER	1	EPIEIRSV	Reserved
81	(51)	BITSTRING	1	EPIEILC1	Instruction Length Code byte (indicates the number of bytes in the failing instruction)
		.... .11.		EPIEIL1	"X'06'" Instruction Length Code Mask (can be used to access the number of halfwords in the failing instruction)

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
82	(52)	CHARACTER	2	EPIEINC1 (0)	Interrupt Code bytes
82	(52)	CHARACTER	1		Reserved
83	(53)	BITSTRING	1	EPIEICD1	Program Interrupt Code
84	(54)	ADDRESS	4	EPIETEA	TRANSLATION EXCEPTION ADDRESS IF EPIEINT FIELD CONTAINS A PAGE FAULT INTERRUPT CODE
84	(54)	BITSTRING	3		
87	(57)	BITSTRING	1	EPIEDXC	Data exception code if EPIEINC1 indicates program interrupt 7
88	(58)	CHARACTER	64	EPIEAR (0)	ACCESS REGISTERS AT TIME OF INTERRUPTION
88	(58)	SIGNED	4	EPIEAR00	- Access Register 0
92	(5C)	SIGNED	4	EPIEAR01	- Access Register 1
96	(60)	SIGNED	4	EPIEAR02	- Access Register 2
100	(64)	SIGNED	4	EPIEAR03	- Access Register 3
104	(68)	SIGNED	4	EPIEAR04	- Access Register 4
108	(6C)	SIGNED	4	EPIEAR05	- Access Register 5
112	(70)	SIGNED	4	EPIEAR06	- Access Register 6
116	(74)	SIGNED	4	EPIEAR07	- Access Register 7
120	(78)	SIGNED	4	EPIEAR08	- Access Register 8
124	(7C)	SIGNED	4	EPIEAR09	- Access Register 9
128	(80)	SIGNED	4	EPIEAR10	- Access Register 10
132	(84)	SIGNED	4	EPIEAR11	- Access Register 11
136	(88)	SIGNED	4	EPIEAR12	- Access Register 12
140	(8C)	SIGNED	4	EPIEAR13	- Access Register 13
144	(90)	SIGNED	4	EPIEAR14	- Access Register 14
148	(94)	SIGNED	4	EPIEAR15	- Access Register 15
152	(98)	BITSTRING	1	EPIEVERS	EPIE VERSION INDICATOR
152	(98)	X'1'	0	EPIEV1	"1" VERSION 1 INDICATOR
152	(98)	X'2'	0	EPIEV2	"2" VERSION 2 INDICATOR
153	(99)	BITSTRING	1	EPIEFLGS	EPIE FLAGS
		1...		EPIERCTL	"X'80'" RETRY MODE FROM AN EXIT ROUTINE IS CONTROLLED BY THE CORRESPONDING BIT SETTINGS IN THE EPIEPSW FOR THE FOLLOWING CONDITION(S): . BIT(17) - PRIMARY(0) VS AR(1) ASC MODES NOTE: ALL RESERVED BITS IN THE PSW MUST REMAIN ZERO IN THE EPIEPSW
		.1..		EPIEUP64	"X'40'" If on, use the values in EPIEG64 to update the registers, rather than those in EPIEGPR
154	(9A)	CHARACTER	6		RESERVED
154	(9A)	X'A0'	0	EPIEV0LEN	"*-EPIE" VERSION-0 LENGTH
154	(9A)	X'A0'	0	EPIEV1LEN	"*-EPIE" VERSION-1 LENGTH
160	(A0)	CHARACTER	128	EPIEG64 (0)	64-bit GPRs at time of interruption.
160	(A0)	DBL WORD	8	EPIEG6400	- Register 0
168	(A8)	DBL WORD	8	EPIEG6401	- Register 1
176	(B0)	DBL WORD	8	EPIEG6402	- Register 2
184	(B8)	DBL WORD	8	EPIEG6403	- Register 3
192	(C0)	DBL WORD	8	EPIEG6404	- Register 4
200	(C8)	DBL WORD	8	EPIEG6405	- Register 5
208	(D0)	DBL WORD	8	EPIEG6406	- Register 6
216	(D8)	DBL WORD	8	EPIEG6407	- Register 7
224	(E0)	DBL WORD	8	EPIEG6408	- Register 8
232	(E8)	DBL WORD	8	EPIEG6409	- Register 9
240	(F0)	DBL WORD	8	EPIEG6410	- Register 10
248	(F8)	DBL WORD	8	EPIEG6411	- Register 11
256	(100)	DBL WORD	8	EPIEG6412	- Register 12
264	(108)	DBL WORD	8	EPIEG6413	- Register 13
272	(110)	DBL WORD	8	EPIEG6414	- Register 14
280	(118)	DBL WORD	8	EPIEG6415	- Register 15
280	(118)	X'120'	0	EPIEV2LEN	"*-EPIE" VERSION-2 LENGTH
280	(118)	X'120'	0	EPIELEN	"*-EPIE" CURRENT-VERSION LENGTH

EPIE Cross Reference

Name	Hex Offset	Hex Value
EPIE	0	
EPIEADD1	4D	
EPIEAMF1	4C	
EPIEAR	58	
EPIEAR00	58	
EPIEAR01	5C	
EPIEAR02	60	
EPIEAR03	64	
EPIEAR04	68	
EPIEAR05	6C	
EPIEAR06	70	
EPIEAR07	74	
EPIEAR08	78	
EPIEAR09	7C	
EPIEAR10	80	
EPIEAR11	84	
EPIEAR12	88	
EPIEAR13	8C	
EPIEAR14	90	
EPIEAR15	94	
EPIECCPM	4A	
EPIEDXC	57	
EPIEEMK1	48	
EPIEEPIE	0	
EPIEFLGS	99	
EPIEGPR	8	
EPIEGR00	8	
EPIEGR01	C	
EPIEGR02	10	
EPIEGR03	14	
EPIEGR04	18	
EPIEGR05	1C	
EPIEGR06	20	
EPIEGR07	24	
EPIEGR08	28	
EPIEGR09	2C	
EPIEGR10	30	
EPIEGR11	34	
EPIEGR12	38	
EPIEGR13	3C	
EPIEGR14	40	
EPIEGR15	44	
EPIEG64	A0	
EPIEG6400	A0	
EPIEG6401	A8	
EPIEG6402	B0	
EPIEG6403	B8	
EPIEG6404	C0	
EPIEG6405	C8	
EPIEG6406	D0	
EPIEG6407	D8	
EPIEG6408	E0	
EPIEG6409	E8	
EPIEG6410	F0	
EPIEG6411	F8	
EPIEG6412	100	
EPIEG6413	108	
EPIEG6414	110	
EPIEG6415	118	
EPIEICD1	53	
EPIEILC1	51	
EPIEIL1	51	6
EPIEINC1	52	
EPIEINT	50	
EPIEIRSV	50	
EPIELEN	118	120
EPIEMOD1	4C	80
EPIEMWP1	49	
EPIENXT1	4C	
EPIEPARM	4	
EPIEPSW	48	
EPIERCTL	99	80
EPIETEA	54	
EPIEUP64	99	40
EPIEVERS	98	
EPIEV0LEN	9A	A0
EPIEV1	98	1
EPIEV1LEN	9A	A0
EPIEV2	98	2
EPIEV2LEN	118	120

EQSRD Heading Information

Common Name: Extended Quick Start Record for Extended PLPA
Macro ID: ILREQSRD
DSECT Name: EQSR
Owning Component: Auxiliary Storage Manager (SC1CW)
Eye-Catcher ID: EQSR
Offset: 0
Length: 4
Storage Attributes: Virtual Storage: YES
Subpool: 245
Key: 0
Data Space: NO
Residency: Above 16 Megabytes virtual
Size: 8192 bytes
Created by: ILRASRIM
Pointed to by: NVTQSBUF plus length (QSR). The EQSR is contiguous in storage following QSR.
Serialization: None
Function: Contains all the information necessary to rebuild the Extended Quick Startable LPA (EPLPA) on a quick or warm start IPL. Consists of a header and a map of pointers to SQSRs (ILRXQSRDs) that contain the primary and secondary LSID information for the EPLPA pages on the PLPA data set.

EQSRD Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	8192	EQSR	Extended Quick Start Record
0	(0)	CHARACTER	192	EQSRHDR	EQSR header
0	(0)	CHARACTER	4	EQSRIDNT	Control block identifier, set to C'EQSR'
4	(4)	ADDRESS	4	EQSRNUCS	Start of read-write nucleus
8	(8)	ADDRESS	4	EQSRNUCE	End of read-write nucleus
12	(C)	ADDRESS	4	EQSRPLPS	Low virtual address (start address of EPLPA). This address must be rounded down to a page boundary
16	(10)	ADDRESS	4	EQSRPLPE	Address of first byte beyond top (end) of EPLPA. This address must be rounded up to a page boundary
20	(14)	BITSTRING	1	EQSRFLGS	EQSR flag byte
		1...		EQSRPLPF	PLPA data set full flag. 1 = PLPA became full during system initialization of EPLPA, 0 = PLPA not full yet
		.1..		EQSRCOMF	Common data full flag. 1 = Common data set became full during system initialization of EPLPA, 0 = Common data set not full yet
		..11 1111		EQSRFRSV	Reserved
21	(15)	CHARACTER	3	EQSRSRV2	Reserved
24	(18)	CHARACTER	8	EQSRSYNC	Time stamp for EQSR record
32	(20)	ADDRESS	4	EQSRSRV3	Pointer to XQSR in QSR
36	(24)	SIGNED	4	EQSRXNUM	Number of XQSRs for EPLPA
40	(28)	CHARACTER	152	EQSRSRV4	Reserved
192	(C0)	CHARACTER	8000	EQSRMAP	8000-byte map of EPLPA XQSR LSIDs made up of 4-byte entries

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EQSRD Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	4	EQSRENTR	EQSR entry containing LSIDs for EPLPA XQSRs, the entries are built in ascending order of virtual address, each entry will contain one LSID. The first zero entry indicates the end of the entries in use
0	(0)	SIGNED	4	EQSRLSID	Logical slot ID for PLPA data set of EPLPA XQSR
0	(0)	CHARACTER	1	EQSRPTNN	PART number portion of LSID identifying page data set
1	(1)	CHARACTER	3	EQSRSLOT	Slot number portion of LSID identifying slot within the PLPA page data set

EQSRD Cross Reference

Name	Hex Offset	Hex Value
EQSR	0	
EQSRCOMF	14	40
EQSRENTR	0	
EQSRFLGS	14	
EQSRFRSV	14	3F
EQSRHDR	0	
EQSRIDNT	0	
EQSRLSID	0	
EQSRMAP	C0	
EQSRNUCE	8	
EQSRNUCS	4	
EQSRPLPE	10	
EQSRPLPF	14	80
EQSRPLPS	C	
EQSRPTNN	0	
EQSRSLOT	1	
EQSRSRV2	15	
EQSRSRV3	20	
EQSRSRV4	28	
EQSRSYNC	18	
EQSRXNUM	24	

ERPMSG Heading Information

Common Name: IOS/ERP I/O ERROR MESSAGE MAPPING
Macro ID: IECDLMSG
DSECT Name: MSG
Owning Component: I/O Supervisor (SC1C3)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: 252
Key: 0
Size: 140 bytes
Created by: IGE0025C and message exits
Pointed to by: N/A
Serialization: NONE
Function: This DSECT is used by IGE0025C and the message exits to map the message parameter list and the message buffer for the following messages:

IOS000I - Permanent I/O error

IOS001I - PATH INOPERATIVE

IOS002A - NO PATHS AVAILABLE

IOS003A - INTERVENTION REQUIRED

ERPMSG Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	140	MSG	
0	(0)	ADDRESS	4	MSGIOSBP	IOSB ADDRESS
4	(4)	ADDRESS	4	MSGPOSP	POSITION POINTER WITHIN MESSAGE BUFFER
8	(8)	CHARACTER	1	MSGTYPE	TYPE OF MESSAGE (FOR EXITS)
		1...		MSGTYPIR	INTERVENTION REQUIRED
		.1..		MSGTYPPE	PERMANENT I/O ERROR
		..1.		MSGTYPPI	PATH INOPERATIVE
		...1		MSGTYPNP	NO PATHS AVAILABLE
		 1111		*	RESERVED
9	(9)	CHARACTER	1	MSGFLAG	COMMUNICATION FROM EXITS
		1...		MSGFLGNU	BYPASS SETTING UCBNRY AND UCBIVRS
		.1..		MSGFLGND	BYPASS ISSUING DOM
		..1.		MSGFLG7F	SET I/O COMPLETION CODE TO 7F
		...1		MSGFLGNR	SET UCBNRY & UCBIVRS
		 1111		*	RESERVED
10	(A)	CHARACTER	2	*	RESERVED
12	(C)	CHARACTER	128	MSGBUF	START OF MESSAGE BUFFER (4 + MESSAGE TEXT LENGTH)
12	(C)	CHARACTER	2	MSGCNT	MESSAGE LENGTH COUNT
14	(E)	CHARACTER	2	MSGMCSF	MCS FLAGS
		1...		MSGHIGH	ROUTE/DESCRIPTOR CODE FIELDS PRESENT INDICATOR
		.111 1...		*	
		.... .1..		MSGBDCT	BROADCAST THIS MESSAGE TO ALL ACTIVE CONSOLES INDICATOR
14	(E)	BITSTRING	0	*	RESERVED
15	(F)	.1..		MSGMLWTO	MLWTO INDICATOR
		..11 1111		*	RESERVED
16	(10)	CHARACTER	124	MSGTXT	MESSAGE TEXT (MAXIMUM 124 CHARACTERS)
16	(10)	CHARACTER	8	MSGID	MESSAGE IDENTIFIER
24	(18)	CHARACTER	116	MSGCNTXT	MESSAGE TEXT

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Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	8	MSGCODES	DESCRIPTION AND ROUTE CODE
0	(0)	CHARACTER	2	MSGDESC	DESCRIPTION-ACTION,STATUS
2	(2)	CHARACTER	1	MSGROUT	DEVICE DEPENDENT ROUTE CODE
3	(3)	CHARACTER	1	MSGROUT2	TYPE OF MESSAGE ERROR
4	(4)	CHARACTER	4	MSGML	LINE TYPE INDICATOR FOR MLWTO

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
24	(18)	STRUCTURE	27	MSGINTRQ	INTERVENTION REQUIRED MESSAGE
24	(18)	CHARACTER	4	MSG1DEVN	DEVICE NUMBER
28	(1C)	CHARACTER	1	MSG1C1	COMMA
29	(1D)	CHARACTER	21	MSG1TXT	INT REQ TEXT
50	(32)	CHARACTER	1	MSG1END	END OF GENERAL MESSAGE

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
24	(18)	STRUCTURE	32	MSGPERM	PERMANENT I/O ERROR MESSAGE
24	(18)	CHARACTER	4	MSG2DEVN	DEVICE NUMBER
28	(1C)	CHARACTER	1	MSG2C1	COMMA
29	(1D)	CHARACTER	2	MSG2PTH	PATH ID
31	(1F)	CHARACTER	1	MSG2C2	COMMA
32	(20)	CHARACTER	3	MSG2DESC	ERROR DESCRIPTION
35	(23)	CHARACTER	1	MSG2C3	COMMA
36	(24)	CHARACTER	2	MSG2OP	CCW OP CODE
38	(26)	CHARACTER	1	MSG2C4	COMMA
39	(27)	CHARACTER	4	MSG2STAT	STATUS
43	(2B)	CHARACTER	1	MSG2C5	COMMA
44	(2C)	CHARACTER	12	MSG2SNS	SENSE BYTES
44	(2C)	CHARACTER	1	MSG2IO1	COMMA IF NO SENSE
45	(2D)	CHARACTER	1	MSG2IO2	COMMA IF NO SENSE

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
24	(18)	STRUCTURE	44	MSGINOP	PATH INOPERATIVE MESSAGE
24	(18)	CHARACTER	4	MSG3DEVN	DEVICE NUMBER
28	(1C)	CHARACTER	1	MSG3C1	COMMA
29	(1D)	CHARACTER	16	MSG3TXT	MESSAGE TEXT
45	(2D)	CHARACTER	1	MSG3S	TEXT FOR PLURAL INOPERATIVE PATH IDS
46	(2E)	CHARACTER	1	MSG3BLNK	BLANK
47	(2F)	CHARACTER	20	MSG3PTHS	PATH ID
67	(43)	CHARACTER	1	MSG3END	END OF GENERAL MESSAGE

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
24	(18)	STRUCTURE	24	MSGNOPTH	NO PATHS AVAILABLE MSG
24	(18)	CHARACTER	4	MSG4DEVN	DEVICE NUMBER
28	(1C)	CHARACTER	1	MSG4C1	COMMA
29	(1D)	CHARACTER	18	MSG4TXT	MESSAGE TEXT
47	(2F)	CHARACTER	1	MSG4END	END OF GENERAL MESSAGE

ERPMSG Cross Reference

Name	Hex Offset	Hex Value
MSG	0	
MSGBDCT	E	04
MSGBUF	C	
MSGCNT	C	
MSGCNTXT	18	
MSGCODES	0	
MSGDESC	0	
MSGFLAG	9	
MSGFLGND	9	40
MSGFLGNR	9	10
MSGFLGNU	9	80
MSGFLG7F	9	20
MSGHIGH	E	80
MSGID	10	
MSGINOP	18	
MSGINTRQ	18	
MSGIOSBP	0	
MSGMCSF	E	
MSGML	4	
MSGMLWTO	F	40
MSGNOPTH	18	
MSGPERM	18	
MSGPOSP	4	
MSGROUT	2	
MSGROUT2	3	
MSGTXT	10	
MSGTYPE	8	
MSGTYPIR	8	80
MSGTYPNP	8	10
MSGTYPPE	8	40
MSGTYPPI	8	20
MSG1C1	1C	
MSG1DEVN	18	
MSG1END	32	
MSG1TXT	1D	
MSG2C1	1C	
MSG2C2	1F	
MSG2C3	23	
MSG2C4	26	
MSG2C5	2B	
MSG2DESC	20	
MSG2DEVN	18	
MSG2IO1	2C	
MSG2IO2	2D	
MSG2OP	24	
MSG2PTH	1D	
MSG2SNS	2C	
MSG2STAT	27	
MSG3BLNK	2E	
MSG3C1	1C	
MSG3DEVN	18	
MSG3END	43	
MSG3PTHS	2F	
MSG3S	2D	
MSG3TXT	1D	
MSG4C1	1C	
MSG4DEVN	18	
MSG4END	2F	
MSG4TXT	1D	

ESA Heading Information

Common Name: RTM2 EXTENDED SAVE AREA
Macro ID: RTM2ESA
DSECT Name: RTM2ESA
Owning Component: RECOVERY TERMINATION MANAGER (SCRTM)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: 255
Key: 0
Size: 49 BYTES
Created by: SVC FLIH
Pointed to by: RBEXSAVE OF THE SVRB DATA AREA
Serialization: TASK ACTIVE
Function: RTM2ESA MAPS THE USAGE OF THE SVRB EXTENDED SAVE AREA (RBEXSAVE) BY RTM2. IT IS USED TO HOLD RECURSION DATA, AS WELL AS TO HOLD WORKING FLAGS AND INFORMATION PASSED FROM THE SVC FLIH AND FROM RTM1.

ESA Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	48	RTM2ESA	
0	(0)	CHARACTER	28	ESAREGS	REGISTERS SET BY SVC SLIH
0	(0)	ADDRESS	4	ESAR0	REGISTER 0 - PARAMETERS
4	(4)	ADDRESS	4	ESAR1	REGISTER 1 - PARAMETERS
4	(4)	BITSTRING	1	ESACCF1	FLAGS IN REGISTER ONE ON ENTRY
		1...		ESADREQ1	ON, DUMP REQUESTED
		.1..		ESASTEP1	ON, STEP OPTION USED ON ABEND MACRO
		..1.		ESAR0DP1	REGISTER 0 CONTAINED PARAMETERS ON ENTRY
		...1		ESAEOM1	ON, ENTRY IS FOR MEMORY PURGES
		.... 1...		ESAEOT1	ON, ENTRY IS FOR NORMAL EOT
		.... .1..		ESARCREQ	ON, REASON REQUESTED
		11		*	RESERVED
5	(5)	CHARACTER	3	ESACC1	COMPLETION CODE
8	(8)	ADDRESS	4	*	STRUCTURE FOR REASON CODE
8	(8)	UNSIGNED	1	ESA40DRC	CRITICAL ERROR REASON CODE TO BE PROVIDED WITH X'40D' MEMTERM
9	(9)	CHARACTER	3	*	RESERVED
12	(C)	ADDRESS	4	ESAR4	REGISTER 4 - TCB ADDRESS
16	(10)	ADDRESS	4	ESAR5	REGISTER 5 - RB ADDRESS
20	(14)	ADDRESS	4	ESAR7	REGISTER 7 - ASCB ADDRESS
24	(18)	ADDRESS	4	ESAR14	REGISTER 14 - RETURN ADDRESS
28	(1C)	ADDRESS	4	ESAEEDQ	PTR TO EED QUEUE, SAVED FROM TCB
32	(20)	ADDRESS	4	ESART2WA	PTR TO RTM2 WORK AREA
36	(24)	CHARACTER	4	ESART2D	DESCRIPTION OF RTM2 WORK AREA
36	(24)	UNSIGNED	1	ESAWSPID	SUBPOOL OF WORK AREA
37	(25)	UNSIGNED	3	ESAWLEN	LENGTH OF WORK AREA
40	(28)	BITSTRING	1	ESAFLAGS	FLAGS SAVED FROM TCB
		1...		ESARTM2	ON, THIS ENTRY IS RECURSIVE
		.1..		ESAABTRM	ON, ENTRY WAS VIA ABTERM
		..1.		ESAPGNLY	ON, ENTRY WAS FOR PURGES
		...1		ESACTS	ON, ENTRY WAS FOR CONVERTED TO STEP
		.... 1...		ESANEOT	ENTRY FOR NORMAL END OF TASK
		.... .1..		ESAEOT	TASK IS BEING TERMINATED
		.... ..1.		ESAVEOM	ENTRY FOR VALID END OF MEMORY
		1		ESART1S	IF ON, RTM1 HAS ALREADY INVOKED SLIP ON BEHALF OF THE ERROR
41	(29)	BITSTRING	1	ESARFLAG	FLAGS USED FOR RECURSION

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Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		1...		ESAGMREC	ON DURING GETMAIN. IF GETMAIN FAILS, NEXT ENTRY WILL TERMINATE THE MEMORY
		.1..		ESASDREC	ON DURING SDUMP IN CASE OF RECURSION
		..1.		ESAINREC	ON DURING INITIALIZATION IN CASE OF RECURSION
		...1		ESAGLREC	ON, SETLOCK IN PROGRESS
		.... 1...		ESAFERR	ON, RTM2 HAS ENCOUNTERED AN ERROR WHICH NEGATES FURTHER PROCESSING
		.... .1..		ESARTCR	ON DURING CHECK FOR RECUR.
		.... ..1.		ESANEFF	ON DURING SLIP PROCESS AND OTHER NON-ESSENTIAL FUNCTIONS (FAIN)
		1		ESAWAREC	ON, INDICATES THE PTR TO THE PREVIOUS RTM2 WORK AREA IS INVALID AND RTM2 WILL TERMINATE THE MEMORY.
42	(2A)	ADDRESS	1	ESAERTYP	INDICATE TYPE OF ERROR ENTRY INTO RTM1
43	(2B)	ADDRESS	1	ESAMODE	MODE OF SYSTEM AT TIME OF ERROR
44	(2C)	CHARACTER	4	ESACMP	COMPLETION CODE FROM TCB
44	(2C)	BITSTRING	1	ESACCF	COMPLETION CODE FIELD FLAGS
		1...		ESADREQ	ON, DUMP REQUESTED
		.1..		ESASTEP	ON, STEP OPTION REQUESTED
		..1.		ESAR0DP	REGISTER 0 CONTAINED PARAMETERS ON ENTRY
		...1		ESANOCC	A COMPLETION CODE WAS NOT PROVIDED ON CALLRTM MACRO A DEFAULT CODE IS BEING USED
		.... 1...		ESAASID	ABEND WAS SCHEDULED VIA CROSS MEMORY ABTERM
		.... .111		*	RESERVED
45	(2D)	CHARACTER	3	ESACC	COMPLETION CODE

ESA Cross Reference

Name	Hex Offset	Hex Value
ESAABTRM	28	40
ESAASID	2C	08
ESACC	2D	
ESACCF	2C	
ESACCF1	4	
ESACC1	5	
ESACMP	2C	
ESACTS	28	10
ESADREQ	2C	80
ESADREQ1	4	80
ESAEEDQ	1C	
ESAEOM1	4	10
ESAEOT	28	04
ESAEOT1	4	08
ESAERTYP	2A	
ESAFERR	29	08
ESAFLAGS	28	
ESAGLREC	29	10
ESAGMREC	29	80
ESAINREC	29	20
ESAMODE	2B	
ESANEFF	29	02
ESANEOT	28	08
ESANOCC	2C	10
ESAPGNLY	28	20
ESARCREQ	4	04
ESAREGS	0	
ESARFLAG	29	
ESARTCR	29	04
ESARTM2	28	80
ESART1S	28	01
ESART2D	24	
ESART2WA	20	
ESAR0	0	
ESAR0DP	2C	20
ESAR0DP1	4	20
ESAR1	4	
ESAR14	18	
ESAR4	C	
ESAR5	10	
ESAR7	14	
ESASDREC	29	40
ESASTEP	2C	40
ESASTEP1	4	40
ESAVEOM	28	02
ESAWAREC	29	01
ESAWLEN	25	
ESAWSPID	24	
ESA40DRC	8	
RTM2ESA	0	

ESCT Heading Information

Common Name: System Resource Manager Expanded Storage Criteria Table
Macro ID: IRAESCT
DSECT Name: ESCT (unless DSECT=NO is coded)
Owning Component: System Resource Manager (SC1CX)
Eye-Catcher ID: ESCT
Offset: 0
Length: CHAR(4)
Storage Attributes: Subpool: Nucleus
Key: 0
Residency: Nucleus (above 16M line)
Size: 408 bytes
Created by: Assembled into nucleus module IRARMCNS
Pointed to by: RMCTESCT field of the RMCT data area (DMDTCRTI is used as an index into ESCTEPTR to access the appropriate ESCT for that domain. However, if DMDTCRTI is zero (0), then the index into ESCTEPTR is dependent on the type of work.)
Serialization: SRM Lock
Function: Contains the criteria age for each category of page candidates for expanded storage.

ESCT Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	ESCT	
0	(0)	CHARACTER	4	ESCTNAME	CONTROL BLOCK NAME
4	(4)	SIGNED	2	ESCTCTEH	HIGH BOUND FOR CATEGORY ENTRY INDEX
6	(6)	SIGNED	2	ESCTCNT	ESCT COUNTER WILL HOLD INITIAL COUNT 3 FOR 0-2 CATEGORIES
8	(8)	SIGNED	4	ESCTCAT (0)	ESCT CATEGORY ENTRY ARRAY
8	(8)	SIGNED	4	ESCTCATE (100)	POINTER TABLE CONTAINING 100 POINTERS 24
408	(198)	SIGNED	4	ESCTEND (0)	END OF ESCT
408	(198)	X'198'	0	ESCTLEN	"ESCTEND-ESCT" LENGTH OF ESCT

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	ESCTENTR	CATEGORY ENTRY
0	(0)	SIGNED	2	ESCTCATI	CATEGORY ENTRY INDEX
2	(2)	SIGNED	2	ESCTSWTC	SWAPOUT TRIM CHANGED PAGE CRITERION
4	(4)	SIGNED	2	ESCTSWWS	SWAPOUT WORKING SET PAGE CRITERION
6	(6)	SIGNED	2	ESCTSTC	STEAL CHANGED PAGE CRITERION
8	(8)	SIGNED	2	ESCTPOC	PAGEOUT CHANGED PAGE CRITERION
10	(A)	SIGNED	2	ESCTVF	VIRTUAL FETCH ENTRY
12	(C)	SIGNED	2	ESCTVIO	VIRTUAL I/O CRITERION
14	(E)	SIGNED	2	ESCTBDS	HIPERSPACE CRITERION
14	(E)	X'10'	0	ESCTCATL	"*-ESCTENTR" LENGTH OF ESCT CATEGORY ENTRY

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ESCT Cross Reference

Name	Hex Offset	Hex Value
ESCT	0	
ESCTBDS	E	
ESCTCAT	8	
ESCTCATE	8	0
ESCTCATI	0	
ESCTCATL	E	10
ESCTCNT	6	3
ESCTCTEH	4	63
ESCTEND	198	
ESCTENTR	0	
ESCTLEN	198	198
ESCTNAME	0	C5E2C3E3
ESCTPOC	8	
ESCTSTC	6	
ESCTSWTC	2	
ESCTSWWS	4	
ESCTVF	A	
ESCTVIO	C	

ESPI Heading Information

Common Name: EXTENDED SPIE PARAMETER LIST
Macro ID: IHAESPI
DSECT Name: EPIE
Owning Component: RECOVERY TERMINATION MANAGER (SCRTM)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: USER DEFINED
Key: USER DEFINED
Size: 16 BYTES
Created by: ESPIE MACRO SET OPTION
Pointed to by: REGISTER 1 UPON ENTRY TO THE ESPIE SVC
Serialization: NONE
Function: ESPIE SET MACRO PARAMETER LIST

ESPI Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	16	ESPI	
0	(0)	ADDRESS	4	ESPIEXIT	ADDRESS OF USER EXIT ROUTINE. (HIGH ORDER BIT MUST BE ZERO WHEN PASSED TO THE ESPIE SET FUNCTION, AND INDICATES THE EXIT ROUTINES ADDRESSING MODE WHEN RETURNED FROM ESPIE TEST.)
4	(4)	ADDRESS	4	ESPIPARM	ADDRESS OF USER DEFINED PARAMETER LIST
8	(8)	BITSTRING	4	ESPIITMK	MASK OF PROGRAM INTERRUPTION TYPES
12	(C)	ADDRESS	4	ESPIARSV	RESERVED

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ESTA Heading Information

Common Name: EXTENDED STAE PARAMETER LIST
Macro ID: IHAESTA
DSECT Name: ESTA
Owning Component: RECOVERY TERMINATION MANAGER (SCRTM)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: USER DEFINED
Key: USER DEFINED
Size: 24 BYTES
Created by: ESTAE MACRO EXPANSION
Pointed to by: REGISTER 1 UPON ENTRY TO THE ESTAE SERVICE ROUTINE
Serialization: NONE
Function: ESTAE SET MACRO PARAMETER LIST

ESTA Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	24	ESTA	
0	(0)	ADDRESS	4	ESTAEXT	FLAGS AND USER EXIT ADDRESS
0	(0)	CHARACTER	1	ESTAFLG1	OPTION FLAGS
		1...		ESTASTAI	(E)STAI REQUEST (TCB SPECIFIED)
		.1..		ESTAARM	ON, INDICATES ACCESS REGISTER ASC MODE.
		..1.		ESTAENCL	CANCEL(NO) SPECIFIED. ESTAE RUNS PROTECTED FROM CANCELS AND DETACHS.
		...1		ESTAESTA	ESTAI/ESTAE PARAMETER LIST. OFF, INDICATES STAI/STAE PARMS
		.... 1...		ESTATPS	TOKEN PARAMETER SPECIFIED
		.... .1..		ESTASYNC	ALLOW ASYNCHRONOUS INTERRUPTS
		11		ESTAIO	I/O PROCESSING OPTIONS, BITS 6&7 00 - QUIESCE I/O 01 - HALT I/O 10 - BYPASS I/O INTERVENTION 11 - RESERVED
		.... ..1.		ESTANOIO	BYPASS I/O INTERVENTION
		1		ESTAHALT	HALT I/O
1	(1)	ADDRESS	3	ESTAEXIT	24-BIT ADDRESS OF USER EXIT ROUTINE
4	(4)	ADDRESS	4	ESTAPARM	ADDRESS OF USER PARAMETER LIST
8	(8)	ADDRESS	4	ESTAOWNR	TCB ADDRESS IF (E)STAI REQUEST, OTHERWISE, ZERO
12	(C)	ADDRESS	4	ESTAFGRS	FLAGS AND RESERVED FIELD
12	(C)	CHARACTER	1	ESTAFLG2	OPTION FLAGS
		1...		ESTALO31	LOC 31 SDWA REQUESTED
		.1..		ESTATERM	REQUEST FOR TERM PROCESSING
		..1.		ESTAEREC	REQUEST FOR ERROR RECORDING
		...1 1...		*	RESERVED
		.... .1..		ESTABRNT	REQUEST FOR FESTAE
		11		*	RESERVED
13	(D)	CHARACTER	1	ESTAFLG3	OPTION/LEVEL FLAGS
		1111 111.		*	RESERVED
		1		ESTANXIT	ADDRESS OF THE EXIT ROUTINE IS IN ESTANEXT FIELD
14	(E)	ADDRESS	2	ESTARSVI	RESERVED
16	(10)	SIGNED	4	ESTATOKN	TOKEN VALUE
20	(14)	ADDRESS	4	ESTANEXT	31-BIT EXIT ADDRESS USED IF ESTANIXT FLAG SET BY USER

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ESTA Cross Reference

Name	Hex Offset	Hex Value
ESTA	0	
ESTAARM	0	40
ESTABRNT	C	04
ESTAENCL	0	20
ESTAEREC	C	20
ESTAESTA	0	10
ESTAEXIT	1	
ESTAEXT	0	
ESTAFGRS	C	
ESTAFLG1	0	
ESTAFLG2	C	
ESTAFLG3	D	
ESTAHALT	0	01
ESTAIO	0	03
ESTALO31	C	80
ESTANEXT	14	
ESTANOIO	0	02
ESTANXIT	D	01
ESTAOWNR	8	
ESTAPARM	4	
ESTARSVI	E	
ESTASTAI	0	80
ESTASYNC	0	04
ESTATERM	C	40
ESTATOKN	10	
ESTATPS	0	08

ESTE Heading Information

Common Name: Expanded Storage Table Entry
Macro ID: IARESTE
DSECT Name: ESTE
Owning Component: Real Storage Manager (SC1CR)
Eye-Catcher ID: None
Storage Attributes: Virtual Storage: Yes
Subpool: 245, Extended SQA (Fixed Common)
Key: 0
Data Space: No
Residency: Above 16 Megabytes Virtual
Size: 32 bytes
Created by: RSM Initialization
Pointed to by: ESTFQPTR field of the ESTE data area
ESTBQPTR field of the ESTE data area
PFTESTE field of the PFTE data area
RITAEQF field of the RIT data area
RITAEQL field of the RIT data area
RITFESTE field of the RIT data area
RITLESTE field of the RIT data area
RITVFEQF field of the RIT data area
RITVFEQL field of the RIT data area
RITRCMLO field of the RIT data area
RITRCMHI field of the RIT data area
RITSEFQF field of the RIT data area
RITSEFQL field of the RIT data area
RABIUEQF field of the RAB data area
RABIUEQL field of the RAB data area
Serialization: Field dependent
Function: Contains information about expanded storage resources

ESTE Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	32	ESTE	
0	(0)	ADDRESS	4	ESTFQPTR	FORWARD ESTE QUEUE POINTER
4	(4)	ADDRESS	4	ESTBQPTR	BACKWARD ESTE QUEUE POINTER
8	(8)	CHARACTER	4	ESTFWORD	FULL WORD DEFINITION
8	(8)	UNSIGNED	1	ESTUIC	AGE OF ESTE RELATIVE TO RCEESTTS.
9	(9)	CHARACTER	3	ESTPAGE1	PAGE RELATED INFORMATION - ALL EXCEPT ESTOFINT
9	(9)	BITSTRING	1	ESTFLG1	CONTAINS FLG1A AND FLG1B
		1111 1...		ESTFLG1A	FLAG BITS -- NOTE THE FORMAT OF THESE FLAGS IS THE SAME AS XPTFLG1A
		1...		ESTVLSID	LSID IN ESTDATA IS VALID
		.1..		ESTVLPID	LPID IN ESTDATA IS VALID
		..1.		ESTXAV	PAGE IS ALSO ON A LOCATION OTHER THAN REAL STORAGE
		...1		*	RESERVED - MUST BE ZERO
		.... 1...		ESTHOME	RVR PTR IN ESTDATA IS VALID
		.... .111		ESTFLG1B	FLAGS NOT XPTE PROPAGATED
		.... .1..		ESTFIXD	ESTE IS FOR A FIXD PAGE
		.... ..1.		ESTGROUP	THIS ESTE BELONGS TO A MIRATION GROUP
		1		ESTLASTG	THIS ESTE IS THE LAST ESTE IN A MIGRATION GROUP
10	(A)	BITSTRING	1	ESTFLGS2	FLAG BYTE 2

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Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		1...		ESTONAEQ	THIS ESTE IS ON THE AVAILABLE ESTE QUEUE
		.1..		ESTCHNG	THE DATA IN THIS PAGE HAS CHANGED SINCE THE PAGE WAS GETMAINED/PAGED INTO REAL STORAGE. (NOTE: THIS BIT HAS NO MEANING FOR PRIMARY WORKING SET PAGES - SEE BIT ESTPWS).
		..1.		ESTOLD	THE PAGE FOR THIS EXTENDED STORAGE E-FRAME HAS BEEN PREVIOUSLY ENCOUNTERED BY LRU MIGRATION.
		...1		ESTPFTEF	ESTVSA/ESTPFTE FIELD INDICATOR. WHEN 1, IT CONTAINS A PFTE PTR. WHEN 0, IT CONTAINS A VSA. NOTE - THIS BIT IS NOT APPLICABLE IF THE ESTE IS ON THE VFEQ.
		.... 1...		ESTVDAC	PAGE IS PART OF VDAC SPACE
		.... .1..		ESTKDAT	PAGE SHOULD BE KEPT IN PAGING SPACE EVEN IF IT IS UNCHANGED. (THIS BIT WILL BE OFF IF ESTCHNG ON)
		.... ..1.		ESTPWS	THE PAGE RESIDING IN THIS EXTENDED STROAGE E-FRAME BELONGS TO A PRIMARY WORK SET
		1		ESTSWS	THE PAGE RESIDING IN THIS EXTENDED STORAGE E-FRAME BELONGS TO A SECONDARY WORK SET
11	(B)	BITSTRING	1	ESTFLGS3	FLAG BYTE 3
		1...		ESTOFFLN	THIS ESTE IS OFFLINE
		.1..		ESTBADES	THE EXTENDED STORAGE E-FRAME REPRESENTED BY THIS ESTE HAS A HARDWARE ERROR
		..1.		ESTDREF	PAGE IS A DREF PAGE
		...1		ESTDSPPG	THIS EXTENDED STORE E-FRAME IS BACKING A DATA SPACE PAGE
		.... 1...		ESTOFINT	THIS ESTE IS INTERCEPTED FOR OFFLINE PROCESSING
		.... .1..		ESTMGINT	THIS ESTE IS INTERCEPTED FOR MIGRATION PROCESSING
		.... ..1.		ESTVIODP	THIS E-FRAME CONTAINS A VIO DATA SET PAGE
		1		ESTWINDO	THIS E-FRAME CONTAINS A VIO DATA SET PAGE THAT IS IN THE WINDOW
12	(C)	CHARACTER	20	ESTPAGE2	PAGE RELATED DATA (except estqid)
12	(C)	CHARACTER	8	ESTDATA	THE DATA THAT WAS COPIED FROM XPTDATA
12	(C)	CHARACTER	8	ESTLPID	WHEN ESTVLPID=1, THE LPID FOR THE VIO DATA SET PAGE
12	(C)	SIGNED	4	ESTLGID	THE LOGICAL GROUP ID (LGN) PORTION OF THE LPID
12	(C)	CHARACTER	4	ESTLSID	WHEN ESTVLSID=1, THE LOGICAL SLOT IDENTIFIER (LSID) FOR THE PAGE
12	(C)	SIGNED	2	ESTDRCT	NUMBER OF DREFS OUTSTANDING FOR THIS PAGE (THIS FIELD IS VALID ONLY FOR DATA SPACE PAGES ON EXTENDED STORE AND ESTDREF=1.) IF THIS PAGE IS A PGT, THEN THIS COUNT REPRESENTS THE NUMBER OF PAGES IN THE SEGMENT WHICH ARE CURRENTLY DREFED. THIS FIELD IS VALID ONLY IF ESTVMPE=0
16	(10)	UNSIGNED	4	ESTRPN	THE RELATIVE PAGE NUMBER (RPN) PORTION OF THE LPID
16	(10)	ADDRESS	4	ESTRVR	RVR POINTER (ONLY VALID IF FLAG ESTHOME=1)
20	(14)	CHARACTER	4	ESTSER	ESTE SERIALIZATION WORD
20	(14)	CHARACTER	1	ESTQID	QUEUE ID FOR CURRENT QUEUE UNLESS THE ESTE IS ON THE AVAILABLE ESTE QUEUE. (DATA SPACE RELATED QUEUES MUST HAVE THE HIGH ORDER BYTE ON IN THEIR QUEUE ID. THIS BIT IS ACTUALLY ESTRDS). 60=>ON-AEQ-(NEVER-USED) 61=>ON -A-RAB-BASED-IN-USE-QUEUE 62=>ON-VIRTUAL-FETCH-QUEUE 63= >ON-A-DAB-BASED-IN-USE-QUEUE E 4=>ON-AN-RDD-BASED-IN-USE-QUEU E E5=>ON-AN-ORPHAN-ESTE-QUEUE 66=>ON-A-DAB-BASED-IN-USE-QUEU E (SPECIAL FOR CASTOUT=NO HIPER) 67=>ON-SHARED-EXP-FRAME-QUEUE *** If this QID is set, then *** ESTSDH contains the SDH *** address 1D=>A-FLAWED-ESTE 1F=>UNQUEUED-ESTE
		1...		ESTRDS	THIS ESTE IS SERIALIZED BY AN RSMDS LOCK

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		.111 1111		*	RESERVED FOR REST OF ESTQID
21	(15)	BITSTRING	1	ESTRVTEX	THE RVTE INDEX IF THIS ESTE IS SERIALIZED (ESTRDS=1)
22	(16)	BITSTRING	2	ESTASID	ASID OF THE ADDRESS SPACE OWNER OF THIS PAGE
24	(18)	ADDRESS	4	ESTVSA	THE VIRTUAL ADDRESS OF THE PAGE RESIDING IN THIS EXTENDED STORAGE E-FRAME. NOTE, THIS FIELD IS ZERO IF THE ESTE IS ON THE VFEQ
24	(18)	ADDRESS	4	ESTPFTE	THE ADDRESS OF THE PFTE FOR THE PAGE TO WRITTEN TO, OR READ FROM, EXTENDED STORE.
24	(18)	ADDRESS	4	ESTSDH	THE ADDRESS OF SHARED DATA HEADER WHEN ESTE CONTAINS A SHARED PAGE (VALID WHEN ESTQID=ESTSEFQN).
28	(1C)	CHARACTER	4	ESTPROG	DATA SPACE PROGRAMMING WORD
28	(1C)	CHARACTER	4	ESTALSID	WHEN ESTVIODP=1, THE LSID FOR THE AUXILIARY STORAGE COPY OF THE VIO DATA SET PAGE

ESTE Constants

Len	Type	Value	Name	Description
1	HEX	0F	ESTMSKIN	MASK FOR INTERCEPT BITS
4	HEX	00002000	ESTOLD1	USE TO TURN ON ESTOLD
			Comment	
		ESTE QUEUE IDS		
			End of Comment	
1	HEX	60	ESTAEQN	ESTE IS ON THE AVAILABLE ESTE QUEUE AND NEVER USED
1	HEX	61	ESTIUEQN	ESTE IS ON A RAB BASED IN USE ESTE QUEUE (IUEQ)
1	HEX	62	ESTVFEQN	ESTE IS ON THE VIRTUAL FETCH DATA SET ESTE QUEUE (VFEQ)
1	HEX	63	ESTDIEQN	ESTE IS ON A DAB BASED IN USE ESTE QUEUE (IUEQ)
1	HEX	E4	ESTRIEQN	ESTE IS ON AN RDD BASED IN USE ESTE QUEUE (IUEQ)
1	HEX	E5	ESTOEQN	ESTE IS ON AN ORPHAN ESTE QUEUE (OEQ)
1	HEX	66	ESTDSIQN	ESTE IS ON A DAB BASED IN USE ESTE QUEUE (IUEQ) FOR CASTOUT=NO CACHE HIPERSPACES
1	HEX	67	ESTSEFQN	ESTE IS ON THE SHARED EXPANDED FRAME QUEUE (SEFQ)
1	HEX	1F	ESTUNQMK	HIGHEST ID POSSIBLE FOR AN UNQUEUED ESTE
1	HEX	1D	ESTFLAWN	ESTE WAS FOUND FLAWED DURING RECOVERY PROCESSING
1	HEX	1F	ESTUNQDN	UNQUEUED
			Comment	
		ESTE CHAIN AND INTERNAL QUEUE IDS USED BY IPCS (THESE MUST BE UNIQUE FROM THE MAINLINE QUEUE IDS ABOVE)		
			End of Comment	
1	HEX	40	ESTSIEQN	ID FOR THE SWAP INTERNAL ESTE QUEUE - FCB BASED
1	HEX	73	ESTIPCN	FOR RSM IPCS USE ONLY
			Comment	
		ESTE UIC CONSTANTS		
			End of Comment	
4	DECIMAL	253	ESTE_MAX_UIC	HIGHEST POSSIBLE AGE FOR AN ESTE

ESTE Cross Reference

Len	Type	Value	Name	Description
4	DECIMAL	254	ESTE_OLD_UIC	SPECIAL VALUE TO INDICATE THAT THIS ESTE IS ALREADY AT THE MAXIMUM AGE
4	DECIMAL	255	ESTE_HIPER_UIC	SPECIAL VALUE TO INDICATE THAT THIS ESTE IS A HIPER SPACE ESTE

ESTE Cross Reference

Name	Hex Offset	Hex Value
ESTALSID	1C	
ESTASID	16	
ESTBADES	B	40
ESTBQPTR	4	
ESTCHNG	A	40
ESTDATA	C	
ESTDRCT	C	
ESTDREF	B	20
ESTDSPPG	B	10
ESTE	0	
ESTFIXD	9	04
ESTFLGS2	A	
ESTFLGS3	B	
ESTFLG1	9	
ESTFLG1A	9	F8
ESTFLG1B	9	07
ESTFQPTR	0	
ESTFWORD	8	
ESTGROUP	9	02
ESTHOME	9	08
ESTKDAT	A	04
ESTLASTG	9	01
ESTLGID	C	
ESTLPID	C	
ESTLSID	C	
ESTMGINT	B	04
ESTOFFLN	B	80
ESTOFINT	B	08
ESTOLD	A	20
ESTONAEQ	A	80
ESTPAGE1	9	
ESTPAGE2	C	
ESTPFTE	18	
ESTPFTEF	A	10
ESTPROG	1C	
ESTPWS	A	02
ESTQID	14	
ESTRDS	14	80
ESTRPN	10	
ESTRVR	10	
ESTRVTEX	15	
ESTSDH	18	
ESTSER	14	
ESTSWS	A	01
ESTUIC	8	
ESTVDAC	A	08
ESTVIODP	B	02
ESTVLPID	9	40
ESTVLSID	9	80
ESTVSA	18	
ESTWINDO	B	01
ESTXAV	9	20

ESW Heading Information

Common Name: ESW - Extended Status Word
Macro ID: IHAESW
DSECT Name: ESW
Owning Component: I/O Supervisor (SC1C3)
Eye-Catcher ID: none
Storage Attributes: Subpool: N/A
Key: 0
Residency: Fixed in IOS work area
Size: 4 bytes
Created by: N/A
Pointed to by: BASED(ESWPTR) or user defined pointer
Serialization: None
Function: The ESW is part of the IRB and is stored on a store subchannel instruction

ESW Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	4	ESW	
0	(0)	CHARACTER	4	ESWNOLOG	Format of non-logout data
0	(0)	CHARACTER	1	*	Reserved
1	(1)	CHARACTER	1	ESWLPUM	Last Path Used Mask (LPUM)
2	(2)	UNSIGNED	2	ESWDCTI	Device Connect Time Interval

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	4	ESWLOG	Format of logout data
0	(0)	BITSTRING	1	ESWFLG1	Flags - byte 1
		1...		*	
		.111 1111		ESWECF	Error check flags ----------
		.1..		ESWSKE	- Storage key error
		..1.		ESWMBPGC	- Measurement block program ck
		...1		ESWMBDC	- Measurement block data check
		.... 1...		ESWMBPTC	- Measurement block protection check
		.... .1..		ESWCCWC	- CCW check
		.... ..1.		ESWIDAWC	- IDAW check
		1		ESWALC	- Address Linit check
1	(1)	BITSTRING	1	ESWLPUM0	LPUM - Lat Path Used Mask
2	(2)	BITSTRING	1	ESWFLG2	Flags - byte 2
		1...		ESWAP	- Ancillary-Report bit
		.111 11..		ESWFVF	- Field Validity Flags
		.1..		ESWLPUMV	-Last Path Used Mask validity
		..1.		ESWTCV	-Termination code valid
		...1		ESWSCV	-Sequence code valid
		.... 1...		ESWDSV	-Device status valid
		.... .1..		ESWCCWV	-CCW address valid
		11		ESWSA	- Storage Access Code
3	(3)	BITSTRING	1	ESWFLG3	Flags - byte 3
		11..		ESWTC	- Termination Code (See DCLs)
		..1.		ESWD	- Device status check
		...1		ESWE	- Secondary error indication
		.... 1...		ESWIOA	- I/O error alert
		.... .111		ESWSEQC	- Sequence code

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ESW Constants

Len	Type	Value	Name	Description
			Comment	
ESWSQ Field - Field definitions - Storage Access Codes				
			End of Comment	
0	BIT	00	ESWSAUN	Access type - NON-DATA transfer or UNKNOWN
0	BIT	01	ESWSARD	Access type - READ
0	BIT	10	ESWSAWR	Access type - WRITE
0	BIT	11	ESWSARB	Access type - READ BACKWARD
			Comment	
ESWTC Field - Field definitions - Termination Codes				
			End of Comment	
0	BIT	00	ESWTID	Interface Disconnect
0	BIT	10	ESWTSR	Selective Reset
0	BIT	01	ESWTSSN	STOP, STACK, or NORMAL termination

ESW Cross Reference

Name	Hex Offset	Hex Value
ESW	0	
ESWALC	0	01
ESWAP	2	80
ESWCCWC	0	04
ESWCCWV	2	04
ESWD	3	20
ESWDCTI	2	
ESWDSV	2	08
ESWE	3	10
ESWECF	0	7F
ESWFLG1	0	
ESWFLG2	2	
ESWFLG3	3	
ESWFVF	2	7C
ESWIDAWC	0	02
ESWIOA	3	08
ESWLOG	0	
ESWLPUM	1	
ESWLPUMV	2	40
ESWLPUM0	1	
ESWMBDC	0	10
ESWMBPGC	0	20
ESWMBPTC	0	08
ESWNOLOG	0	
ESWSA	2	03
ESWSCV	2	10
ESWSEQC	3	07
ESWSKE	0	40
ESWTC	3	C0
ESWTCV	2	20

ESWL Heading Information

Common Name: Extended Status Word Long.
Macro ID: IHAESWL
DSECT Name: ESW
Owning Component: I/O Supervisor (SC1C3)
Eye-Catcher ID: None
Storage Attributes: Subpool: N/A
Key: 0
Residency: Fixed in IOS work area
Size: 20-bytes
Created by: N/A
Pointed to by: BASED(ESWPTR) or user defined pointer
Serialization: None
Function: Maps the fields of the extended status word.

ESWL Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	20	ESW	
0	(0)	CHARACTER	4	ESWLOG	Format of logout data
0	(0)	BITSTRING	1	ESWFLG1	Flags - byte 0
		1...		*	Reserved, set to zero.
		.111 1111		ESWECF	Error check flags.
		.1..		ESWSKE	Storage key error.
		..1.		ESWMBPGC	Measurement block program check.
		...1		ESWMBDC	Measurement block data check.
		.... 1...		ESWMBPTC	Measurement block protection check.
		.... .1..		ESWCCWC	CCW check.
		.... ..1.		ESWIDAWC	IDAW check.
		1		ESWALC	Address limit check.
1	(1)	CHARACTER	1	ESWLPUM	LPUM - Last path used mask.
1	(1)	BITSTRING	1	ESWLPUM0	LPUM - Last path used mask.
2	(2)	UNSIGNED	2	ESWDCTI	Device connect time interval, format 2 ESW.
2	(2)	BITSTRING	1	ESWFLG2	Flags - byte 2.
		1...		ESWAP	Ancillary-Report bit
		.111 11..		ESWFVF	Field validity flags.
		.1..		ESWLPUMV	Last path used mask validity.
		..1.		ESWTCV	Termination code valid.
		...1		ESWSCV	Sequence code valid.
		.... 1...		ESWDSV	Device status valid.
		.... .1..		ESWCCWV	CCW address valid.
		11		ESWSA	Storage access code.
3	(3)	BITSTRING	1	ESWFLG3	Flags - byte 3
		11..		ESWTC	Termination code.
		..1.		ESWD	Device status check.
		...1		ESWE	Secondary error indication.
		.... 1...		ESWIOA	I/O error alert.
		.... .111		ESWSEQC	Sequence code.
4	(4)	CHARACTER	4	ESWERW	Extended report word.
4	(4)	BITSTRING	1	ESWERW0	ERW byte 0.
		111.		*	Reserved, set to zero.
		...1		ESWIOAC	If on, authorization check failed during START or RESUME initialization
		.... 1...		ESWPVR	Path verification required flag
		.... .1..		ESWT	Device failed to respond to a signaling sequence.Channel-path timeout indicator
		.... ..1.		ESWFSAVF	Failing-storage address validity flag.
		1		ESWCS	Concurrent sense information stored.

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Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
5	(5)	BITSTRING	1	ESWERW1	ERW byte 1.
		1...		ESW2CCWV	Secondary CCW Address Valid
		.1..		*	Reserved, set to zero.
		..11 1111		ESWCSCNT	Number of sense bytes placed in the extended control word
6	(6)	BITSTRING	1	ESWERW2	ERW byte 2.
6	(6)	BITSTRING	1	*	Reserved, set to zero.
7	(7)	BITSTRING	1	ESWERW3	ERW byte 3.
7	(7)	BITSTRING	1	*	Reserved, set to zero.
8	(8)	ADDRESS	8	ESWEFSA	64-bit fail storage addr
8	(8)	UNSIGNED	4	ESWEFSAH	High order of 64-bit FSA
8	(8)	ADDRESS	4	ESWFSA	Failing-storage address when an invalid checking block code is detected for pre-fetched data, CCWs, or IDAWs.
12	(C)	UNSIGNED	4	ESWEFSAL	Low order of 64-bit FSA
16	(10)	ADDRESS	4	ESW2CCWA	Absolute address of the Secondary CCW Address

ESWL Constants

Len	Type	Value	Name	Description
			Comment	
ESWSA Field - Field definitions - Storage Access Codes				
			End of Comment	
0	BIT	00	ESWSAUN	Access type - NON-DATA transfer or UNKNOWN
0	BIT	01	ESWSARD	Access type - READ
0	BIT	10	ESWSAWR	Access type - WRITE
0	BIT	11	ESWSARB	Access type - READ BACKWARD
			Comment	
ESWTC Field - Field definitions - Termination Codes				
			End of Comment	
0	BIT	00	ESWTID	Halt signal issued, interface disconnect.
0	BIT	01	ESWTSSN	STOP, STACK, or NORMAL termination
0	BIT	10	ESWTSR	Clear signal issued, selective reset.

ESWL Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
ESW	0		ESWFLG2	2	
ESWALC	0	01	ESWFLG3	3	
ESWAP	2	80	ESWFSA	8	
ESWCCWC	0	04	ESWFSAVF	4	02
ESWCCWV	2	04	ESWFVF	2	7C
ESWCS	4	01	ESWIDAWC	0	02
ESWCSCNT	5	3F	ESWIOA	3	08
ESWD	3	20	ESWIOAC	4	10
ESWDCTI	2		ESWLOG	0	
ESWDSV	2	08	ESWLPUM	1	
ESWE	3	10	ESWLPUMV	2	40
ESWECF	0	7F	ESWLPUM0	1	
ESWEFSA	8		ESWMBDC	0	10
ESWEFSAH	8		ESWMBPGC	0	20
ESWEFSAL	C		ESWMBPTC	0	08
ESWERW	4		ESWPVR	4	08
ESWERW0	4		ESWSA	2	03
ESWERW1	5		ESWSCV	2	10
ESWERW2	6		ESWSEQC	3	07
ESWERW3	7		ESWSKE	0	40
ESWFLG1	0		ESWT	4	04

Name	Hex Offset	Hex Value
ESWTC	3	C0
ESWTCV	2	20
ESW2CCWA	10	
ESW2CCWV	5	80

ETD0 Programming Interface Information

Programming Interface Information

ETD0

FORMAT 0 ONLY

End of Programming Interface Information

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ETD0 Heading Information

Common Name: Entry Table Description - Format 0
Macro ID: IHAETD
DSECT Name: ETD, ETDELE
Owning Component: PC/AUTH (SCXMS)
Eye-Catcher ID: None
Offset: N/A
Subpool and Key: Any (Residence - user defined)
Size: Header of 8 bytes plus up to 256 entries of:

20 bytes each - format 0
40 bytes each - format 1.

Created by: Issuer of the ETDEF macro in any accessable storage
Pointed to by: The ETCRE parameter list
Serialization: Provided by the caller of the Entry Table Create service.
Function: Describes the entries to be assigned in the entry table created by the Entry Table Create PC/Auth service routine (IEAVXECR). This is the version used in programs written prior to MVS/SP 3.1.0.

ETD0 Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	ETD	
0	(0)	DBL WORD	8	(0)	ENTRY TABLE DESCRIPTION LIST - DESCRIBES THE INPUT LIST TO THE ETCRE MACRO
0	(0)	BITSTRING	1	ETDFMT	FORMAT NUMBER OF ETD. 0= ORIGINAL FORM - PRE HBB3310
		1		ETDFMTE	"X'01'" 1= EXTENDED FORM - HBB3310
1	(1)	BITSTRING	1	ETDHFLAG	All non-used bits must be zero.
		1...		ETDRCRD	"X'80'" If bit is ON, NO recording of cross memory connections will be performed. If bit is OFF, recording will be done. Classification: DMTI Notes: All other bits must be zero.
		.111 1111		ETDFLGRS	"X'7F'" Non-used bits mask
2	(2)	SIGNED	2	ETDNUM	NUMBER OF ENTRY DESCRIPTIONS THAT FOLLOW (MAXIMUM OF 128 ENTRIES PER TABLE)
2	(2)	X'4'	0	ETDEND	"*"
2	(2)	X'4'	0	ETDLEN	"ETDEND-ETD" LENGTH OF ETD HEADER

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	ETDELE	ELEMENT DESCRIPTION. ONE FOR EACH
0	(0)	SIGNED	4	(0)	ENTRY TO BE ASSIGNED.
0	(0)	BITSTRING	1	ETDEX	INDEX FOR THIS ENTRY
1	(1)	BITSTRING	1	ETDFLG	FLAG BYTE
		1...		ETDSUP	"X'80'" PROGRAM EXECUTION STATE 0= PROBLEM STATE 1= SUPERVISOR STATE.
		.1..		ETDXM	"X'40'" CROSS MEMORY SPACE SWITCH. 0= ENTRY WILL NOT CAUSE A SPACE SWITCH 1= THE PROGRAM WILL EXECUTE IN THE ADDRESS SPACE OF THE CREATOR OF THE ENTRY TABLE WITH THE AUTHORIZATION OF THAT ADDRESS SPACE.
		..11 1111		ETDBRS3F	"X'3F'" RESERVED. BITS 3-8 MUST BE ZERO.
2	(2)	SIGNED	2	ETDRS002	RESERVED. MUST BE ZERO

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
4	(4)	CHARACTER	8	ETDPRO (0)	PROGRAM NAME TO BE INVOKED OR VIRTUAL ADDRESS OF PROGRAM ENTRY POINT. IF A PROGRAM NAME, THE NAMED PROGRAM MUST BE ON THE ACTIVE LPA QUEUE (FLPA OR MLPA) OR BE IN THE PLPA OR NUCLEUS. IF AN ADDRESS, ETDPRO1 MUST BE ZERO AND ETDPRO2 MUST BE THE ADDRESS.
4	(4)	SIGNED	4	ETDPRO1	FIRST WORD OF ETDPRO
8	(8)	SIGNED	4	ETDPRO2	SECOND WORD OF ETDPRO
		1...		ETDAMODE	"X'80'" IF PROGRAM ADDRESS IS SPECIFIED THIS BIT INDICATES AMODE : IF 1, PC ROUTINE EXECUTES IN 31-BIT MODE. IF 0, PC ROUTINE EXECUTES IN 24-BIT MODE
12	(C)	SIGNED	2	ETDAKM	16 BIT AUTHORIZED KEY MASK. BIT 0 REPRESENTS KEY 0, ETC. IF A BIT IS ON, THE CORRESPONDING KEY IS AUTHORIZED TO CALL THIS ENTRY.
12	(C)	BITSTRING	0	ETDAK0	"X'8000'" MASK FOR KEY 0
12	(C)	BITSTRING	0	ETDAK1	"X'4000'" MASK FOR KEY 1
12	(C)	BITSTRING	0	ETDAK2	"X'2000'" MASK FOR KEY 2
12	(C)	BITSTRING	0	ETDAK3	"X'1000'" MASK FOR KEY 3
12	(C)	BITSTRING	0	ETDAK4	"X'0800'" MASK FOR KEY 4
12	(C)	BITSTRING	0	ETDAK5	"X'0400'" MASK FOR KEY 5
12	(C)	BITSTRING	0	ETDAK6	"X'0200'" MASK FOR KEY 6
12	(C)	BITSTRING	0	ETDAK7	"X'0100'" MASK FOR KEY 7
		1...		ETDAK8	"X'0080'" MASK FOR KEY 8
		.1..		ETDAK9	"X'0040'" MASK FOR KEY 9
		..1.		ETDAKA	"X'0020'" MASK FOR KEY 10
		...1		ETDAKB	"X'0010'" MASK FOR KEY 11
		.... 1...		ETDAKC	"X'0008'" MASK FOR KEY 12
		.... .1..		ETDAKD	"X'0004'" MASK FOR KEY 13
		.... ..1.		ETDAKE	"X'0002'" MASK FOR KEY 14
		1		ETDAKF	"X'0001'" MASK FOR KEY 15
14	(E)	SIGNED	2	ETDEKM	16 BIT ENTRY KEY MASK. BIT 0 REPRESENTS KEY 0, ETC. IF A BIT IS ON, THE CALLED PROGRAM WILL BE AUTHORIZED TO USE THE CORRESPONDING KEY.
14	(E)	BITSTRING	0	ETDEK0	"X'8000'" MASK FOR KEY 0
14	(E)	BITSTRING	0	ETDEK1	"X'4000'" MASK FOR KEY 1
14	(E)	BITSTRING	0	ETDEK2	"X'2000'" MASK FOR KEY 2
14	(E)	BITSTRING	0	ETDEK3	"X'1000'" MASK FOR KEY 3
14	(E)	BITSTRING	0	ETDEK4	"X'0800'" MASK FOR KEY 4
14	(E)	BITSTRING	0	ETDEK5	"X'0400'" MASK FOR KEY 5
14	(E)	BITSTRING	0	ETDEK6	"X'0200'" MASK FOR KEY 6
14	(E)	BITSTRING	0	ETDEK7	"X'0100'" MASK FOR KEY 7
		1...		ETDEK8	"X'0080'" MASK FOR KEY 8
		.1..		ETDEK9	"X'0040'" MASK FOR KEY 9
		..1.		ETDEKA	"X'0020'" MASK FOR KEY 10
		...1		ETDEKB	"X'0010'" MASK FOR KEY 11
		.... 1...		ETDEKC	"X'0008'" MASK FOR KEY 12
		.... .1..		ETDEKD	"X'0004'" MASK FOR KEY 13
		.... ..1.		ETDEKE	"X'0002'" MASK FOR KEY 14
		1		ETDEKF	"X'0001'" MASK FOR KEY 15
16	(10)	CHARACTER	4	ETDPAR	PARAMETER TO BE PASSED TO THE CALLED PROGRAM.
20	(14)	SIGNED	4	ETDEEND (0)	END OF ENTRY TABLE DESCRIPTOR
20	(14)	X'14'	0	ETDELEN	"ETDEEND-ETDELE" LENGTH OF ENTRY DESCRIPTOR ELEMENT

ETD0 Cross Reference

Name	Hex Offset	Hex Value
ETD	0	
ETDAKA	C	20
ETDAKB	C	10
ETDAKC	C	8
ETDAKD	C	4
ETDAKE	C	2
ETDAKF	C	1
ETDAKM	C	
ETDAK0	C	8000
ETDAK1	C	4000
ETDAK2	C	2000
ETDAK3	C	1000
ETDAK4	C	800
ETDAK5	C	400
ETDAK6	C	200
ETDAK7	C	100
ETDAK8	C	80
ETDAK9	C	40
ETDAMODE	8	80
ETDBRS3F	1	3F
ETDEEND	14	
ETDEKA	E	20
ETDEKB	E	10
ETDEKC	E	8
ETDEKD	E	4
ETDEKE	E	2
ETDEKF	E	1
ETDEKM	E	
ETDEK0	E	8000
ETDEK1	E	4000
ETDEK2	E	2000
ETDEK3	E	1000
ETDEK4	E	800
ETDEK5	E	400
ETDEK6	E	200
ETDEK7	E	100
ETDEK8	E	80
ETDEK9	E	40
ETDELE	0	
ETDELEN	14	14
ETDEND	2	4
ETDEX	0	
ETDFLG	1	
ETDFLGRS	1	7F
ETDFMT	0	
ETDFMTE	0	1
ETDHFLAG	1	
ETDLEN	2	4
ETDNUM	2	
ETDPAR	10	
ETDPRO	4	
ETDPRO1	4	
ETDPRO2	8	
ETDRCRD	1	80
ETDRS002	2	
ETDSUP	1	80
ETDXM	1	40

ETD1 Heading Information

Common Name: Entry Table Description - Format 1
Macro ID: IHAETD
DSECT Name: ETD, ETDELE
Owning Component: PC/AUTH (SCXMS)
Eye-Catcher ID: None
Offset: N/A
Subpool and Key: Any (Residence - user defined)
Size: Header of 8 bytes plus up to 256 entries of:

20 bytes each - format 0
40 bytes each - format 1.

Created by: Issuer of the ETDEF macro in any accessable storage
Pointed to by: The ETCRE parameter list
Serialization: Provided by the caller of the Entry Table Create service.
Function: Describes the entries to be assigned in the entry table created by the Entry Table Create PC/Auth service routine (IEAVXECR). This is the MVS/SP 3.1.0 version.

ETD1 Map

Offsets					
Dec	**Hex**	**Type**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	4	ETD	ENTRY TABLE DESCRIPTION LIST. DESCRIBES THE INPUT LIST TO THE ETCRE MACRO.
0	(0)	UNSIGNED	1	ETDFMT	FORMAT NUMBER OF ETD. 0= ORIGINAL FORM - PRE HBB3310 1= EXTENDED FORM - HBB3310
1	(1)	UNSIGNED	1	ETDHFLAG	All unused bits must be zero.
		1...		ETDRCRD	0 = Record(YES) entry table 1 = Record(NO) entry table Classification: DMTI
		.111 1111		ETDFLGRS	Reserved, must be zero.
2	(2)	UNSIGNED	2	ETDNUM	NUMBER OF ENTRY DESCRIPTIONS THAT FOLLOW (MAXIMUM OF 128 ENTRIES PER TABLE)

Offsets					
Dec	**Hex**	**Type**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	40	ETDELE	ELEMENT DESCRIPTION. ONE FOR EACH ENTRY TO BE ASSIGNED
0	(0)	UNSIGNED	1	ETDEX	INDEX FOR THIS ENTRY (0 ORIGIN)
1	(1)	BITSTRING	1	ETDFLG	FLAG BYTE
		1...		ETDSUP	PROGRAM EXECUTION STATE 0= PROBLEM STATE 1= SUPERVISOR STATE.
		.1..		ETDXM	CROSS MEMORY SPACE SWITCH. 0= THE ENTRY WILL NOT CAUSE A SPACE SWITCH. 1= THE PROGRAM WILL EXECUTE IN THE ADDRESS SPACE OF THE CREATOR OF THE ENTRY TABLE WITH THE AUTHORIZATION OF THAT ADDRESS SPACE.
		..11 1111		ETDBRS3F	RESERVED. BITS 3-8 MUST BE ZERO.
2	(2)	UNSIGNED	2	ETDRS002	RESERVED. MUST BE ZERO
4	(4)	CHARACTER	8	ETDPRO	PROGRAM NAME OR THE VIRTUAL ADDRESS TO BE GIVEN CONTROL. IF A PROGRAM NAME, THE NAMED PROGRAM MUST BE ON THE ACTIVE LPA QUEUE (FLPA OR MLPA) OR BE IN THE PLPA OR NUCLEUS. IF AN ADDRESS, ETDPRO1 MUST BE ZERO AND ETDPRO2 MUST BE THE ADDRESS.
4	(4)	UNSIGNED	4	ETDPRO1	FIRST WORD OF ETDPRO
8	(8)	ADDRESS	4	ETDPRO2	SECOND WORD OF ETDPRO

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Offsets Dec	Offsets Hex	Type	Len	Name (Dim)	Description
		1...		ETDAMODE	IF PROGRAM ADDRESS IS SPECIFIED THIS BIT INDICATES AMODE : IF 1, PC ROUTINE EXECUTES IN 31-BIT MODE. IF 0, PC ROUTINE EXECUTES IN 24-BIT MODE
12	(C)	BITSTRING	2	ETDAKM	16 BIT AUTHORIZED KEY MASK. BIT 0 REPRESENTS KEY 0, ETC. IF A BIT IS ON, THE CORRESPONDING KEY IS AUTHORIZED TO CALL THIS ENTRY
		1...		ETDAK0	BIT REPRESENTING KEY 0
		.1..		ETDAK1	BIT REPRESENTING KEY 1
		..1.		ETDAK2	BIT REPRESENTING KEY 2
		...1		ETDAK3	BIT REPRESENTING KEY 3
		.... 1...		ETDAK4	BIT REPRESENTING KEY 4
		.... .1..		ETDAK5	BIT REPRESENTING KEY 5
		.... ..1.		ETDAK6	BIT REPRESENTING KEY 6
		1		ETDAK7	BIT REPRESENTING KEY 7
13	(D)	1...		ETDAK8	BIT REPRESENTING KEY 8
		.1..		ETDAK9	BIT REPRESENTING KEY 9
		..1.		ETDAKA	BIT REPRESENTING KEY 10
		...1		ETDAKB	BIT REPRESENTING KEY 11
		.... 1...		ETDAKC	BIT REPRESENTING KEY 12
		.... .1..		ETDAKD	BIT REPRESENTING KEY 13
		.... ..1.		ETDAKE	BIT REPRESENTING KEY 14
		1		ETDAKF	BIT REPRESENTING KEY 15
14	(E)	BITSTRING	2	ETDEKM	16 BIT ENTRY KEY MASK. BIT 0 REPRESENTS KEY 0, ETC. IF A BIT IS ON, THE CALLED PROGRAM IS AUTHORIZED TO USE THE KEY.
		1...		ETDEK0	BIT REPRESENTING KEY 0
		.1..		ETDEK1	BIT REPRESENTING KEY 1
		..1.		ETDEK2	BIT REPRESENTING KEY 2
		...1		ETDEK3	BIT REPRESENTING KEY 3
		.... 1...		ETDEK4	BIT REPRESENTING KEY 4
		.... .1..		ETDEK5	BIT REPRESENTING KEY 5
		.... ..1.		ETDEK6	BIT REPRESENTING KEY 6
		1		ETDEK7	BIT REPRESENTING KEY 7
15	(F)	1...		ETDEK8	BIT REPRESENTING KEY 8
		.1..		ETDEK9	BIT REPRESENTING KEY 9
		..1.		ETDEKA	BIT REPRESENTING KEY 10
		...1		ETDEKB	BIT REPRESENTING KEY 11
		.... 1...		ETDEKC	BIT REPRESENTING KEY 12
		.... .1..		ETDEKD	BIT REPRESENTING KEY 13
		.... ..1.		ETDEKE	BIT REPRESENTING KEY 14
		1		ETDEKF	BIT REPRESENTING KEY 15
16	(10)	CHARACTER	4	ETDPAR	PARAMETER TO BE PASSED TO THE CALLED PROGRAM.
20	(14)	BITSTRING	1	ETDOPTB1	ETD OPTIONS BYTE 1
		1...		ETDPCTC	PC-TYPE CONTROL: 0= BASIC PC 1= STACKING PC
		.11.		ETDBRS60	RESERVED. BITS 2-3 MUST BE ZERO.
		...1		ETDPKC	PSW KEY CONTROL: 0= PSW KEY UNCHANGED 1= REPLACE PSW KEY WITH ETDEK
		.... 1...		ETDPKMC	PSW KEY MASK CONTROL: 0= OR ETDEKM WITH PKM 1= REPLACE PSW KEY MASK (PKM) WITH ETDEKM
		.... .1..		ETDEAXC	EAX CONTROL: 0= NO EAX CHANGE 1= REPLACE EAX WITH ETDEAX
		.... ..1.		ETDASC	ADDR SPACE CONTROL (PSW BIT 16-17) 0= PRIMARY MODE (00) 1= AR MODE (01)
		1		ETDSASNC	SASN CONTROL: 0= SET SASN TO OLD PASN 1= SET SASN TO NEW PASN
21	(15)	BITSTRING	1	ETDEK	ENTRY KEY (HI ORDER 4 BITS)
22	(16)	BITSTRING	2	ETDEAX	EXTENDED AUTH. INDEX
24	(18)	CHARACTER	8	ETDARR	ASSOCIATED RECOVERY ROUTINE NAME OR ADDRESS OF ARR ENTRY POINT IF AN ARR NAME, THE NAMED PROGRAM MUST BE ON THE ACTIVE LPA QUEUE (FLPA OR MLPA) OR BE IN THE PLPA OR NUCLEUS. IF AN ADDRESS, ETDARR1 MUST BE ZERO AND ETDARR2 MUST BE THE ADDRESS.
24	(18)	UNSIGNED	4	ETDARR1	FIRST WORD OF ETDARR

Offsets Dec	Offsets Hex	Type	Len	Name (Dim)	Description
28	(1C)	ADDRESS	4	ETDARR2	SECOND WORD OF ETDARR
32	(20)	CHARACTER	4	ETDPAR2	USER PARAMETER 2
36	(24)	CHARACTER	4	ETDLPAFL	FLAGS FOR LPA
36	(24)	BITSTRING	1	ETDLPAB1	FIRST BYTE OF FLAGS
		1...		ETDCANCL	CANCEL OPTION FOR ARR.

Comment

0 => CANCEL=YES (DEFAULT).
1 => CANCEL=NO

End of Comment

		.1..		ETDASYNC	ASYNCH OPTION FOR ARR.

Comment

0 => ASYNCH=YES (DEFAULT).
1 => ASYNCH=NO

End of Comment

		..11 1111		ETDRS1	RESERVED - MUST BE ZERO
37	(25)	CHARACTER	3	ETDLPAB2	RESERVED - MUST BE ZERO
40	(28)	CHARACTER	0	ETDEEND	END OF ENTRY TABLE ELEMENT DESCRIPTION

ETD1 Constants

Len	Type	Value	Name	Description
1	DECIMAL	1	ETDFMTE	EXTENDED FORM OF ETD

ETD1 Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
ETD	0		ETDEK	15	
ETDAKA	D	20	ETDEKA	F	20
ETDAKB	D	10	ETDEKB	F	10
ETDAKC	D	08	ETDEKC	F	08
ETDAKD	D	04	ETDEKD	F	04
ETDAKE	D	02	ETDEKE	F	02
ETDAKF	D	01	ETDEKF	F	01
ETDAKM	C		ETDEKM	E	
ETDAK0	C	80	ETDEK0	E	80
ETDAK1	C	40	ETDEK1	E	40
ETDAK2	C	20	ETDEK2	E	20
ETDAK3	C	10	ETDEK3	E	10
ETDAK4	C	08	ETDEK4	E	08
ETDAK5	C	04	ETDEK5	E	04
ETDAK6	C	02	ETDEK6	E	02
ETDAK7	C	01	ETDEK7	E	01
ETDAK8	D	80	ETDEK8	F	80
ETDAK9	D	40	ETDEK9	F	40
ETDAMODE	8	80	ETDELE	0	
ETDARR	18		ETDEX	0	
ETDARR1	18		ETDFLG	1	
ETDARR2	1C		ETDFLGRS	1	7F
ETDASC	14	02	ETDFMT	0	
ETDASYNC	24	40	ETDHFLAG	1	
ETDBRS3F	1	3F	ETDLPAB1	24	
ETDBRS60	14	60	ETDLPAB2	25	
ETDCANCL	24	80	ETDLPAFL	24	
ETDEAX	16		ETDNUM	2	
ETDEAXC	14	04	ETDOPTB1	14	
ETDEEND	28		ETDPAR	10	

ETD1 Cross Reference

Name	Hex Offset	Hex Value
ETDPAR2	20	
ETDPCTC	14	80
ETDPKC	14	10
ETDPKMC	14	08
ETDPRO	4	
ETDPRO1	4	
ETDPRO2	8	
ETDRCRD	1	80
ETDRS002	2	
ETDRS1	24	3F
ETDSASNC	14	01
ETDSUP	1	80
ETDXM	1	40

ETE Heading Information

Common Name: Entry Table Entry
Macro ID: IHAETE
DSECT Name: ETE
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). ETE maps the ESA/390 ETE.

ETE Map

Offsets					
Dec	**Hex**	**Type**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	32	ETE	ENTRY TABLE ENTRY DESCRIPTION
0	(0)	BITSTRING	2	ETEAKM	MASK OF STORAGE KEYS AUTHORIZED TO INVOKE THIS ROUTINE
2	(2)	BITSTRING	2	ETEASID	ASID IN WHICH THE CALLED ROUTINE WILL EXECUTE - IF ZERO, ROUTINE EXECUTES IN CALLERS ADDRESS SPACE SPACE SWITCH IF NOT ZERO
4	(4)	ADDRESS	4	ETEEPA	VIRTUAL ADDRESS OF ROUTINE TO RECEIVE CONTROL
4	(4)	CHARACTER	1	ETEABYTE	BYTE TO ACCESS ETEAMODE
		1...		ETEAMODE	ADDRESSING MODE : IF 1, ROUTINE EXECUTES IN 31-BIT MODE. IF 0, ROUTINE EXECUTES IN 24-BIT MODE
5	(5)	CHARACTER	2	*	PART OF ETEEPA - NOT REFERENCEABLE
7	(7)	CHARACTER	1	ETEPBYTE	BYTE TO ACCESS ETEPS
		1111 111.		*	NOT REFERENCEABLE
		1		ETEPS	CALLED ROUTINE EXECUTES (0) SUPERVISOR OR (1) PROBLEM STATE
8	(8)	ADDRESS	4	ETEPARM	ADDRESS OF THE LATENT PARAMETER PASSED TO THE CALLED RTNE
12	(C)	BITSTRING	2	ETEEKM	KEY MASK TO BE COMBINED WITH CALLERS KEY MASK PRODUCING THE EXECUTION KEY MASK OF THE CALLED ROUTINE
14	(E)	CHARACTER	2	ETER00E	RESERVED FIELD
16	(10)	CHARACTER	1	ETEOPTB1	ETE OPTIONS BYTE
		1...		ETEPCTC	PC TYPE CONTROL: 0: NON-STACKING. 1: STACKING.
		.11.		*	RESERVED. MUST BE ZERO
		...1		ETEPKC	PSW KEY CONTROL: 0: NO CHANGE 1: SET PSW KEY FROM ETEEK
		.... 1...		ETEPKMK	PSW KEY MASK CONTROL: 0: OR ETEEKM INTO PKM. 1: COPY ETEEKM TO PKM
		.... .1..		ETEEAXC	EAX CONTROL: 0: NO CHANGE. 1: REPLACE FROM ETEEAX.
		.... ..1.		ETEASC	ADDRESS SPACE CONTROL: 0: PRIMARY MODE. 1: AR MODE.
		1		ETESASNC	SASN CONTROL: 0: SET TO OLD PASN. 1: SET TO NEW PASN.

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ETE Cross Reference

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
17	(11)	CHARACTER	1	ETEEK	ENTRY KEY. (HIGH 4 BITS)
18	(12)	UNSIGNED	2	ETEEAX	MAS EXTENDED AUTHORITY INDEX
20	(14)	ADDRESS	4	ETEASTE	REAL ADDRESS OF THE ASTE IF SPACE SWITCH
24	(18)	CHARACTER	8	ETER018	RESERVED. MUST BE ZERO.
32	(20)	CHARACTER	0	ETEEND	END OF ETE

ETE Cross Reference

Name	Hex Offset	Hex Value
ETE	0	
ETEABYTE	4	
ETEAKM	0	
ETEAMODE	4	80
ETEASC	10	02
ETEASID	2	
ETEASTE	14	
ETEEAX	12	
ETEEAXC	10	04
ETEEK	11	
ETEEKM	C	
ETEEND	20	
ETEEPA	4	
ETEOPTB1	10	
ETEPARM	8	
ETEPBYTE	7	
ETEPCTC	10	80
ETEPKC	10	10
ETEPKMK	10	08
ETEPS	7	01
ETER00E	E	
ETER018	18	
ETESASNC	10	01

ETIB Heading Information

Common Name: Entry Table Information Block
Macro ID: IHAETIB
DSECT Name: ETIB, ETIX
Owning Component: PC/AUTH (SCXMS)
Eye-Catcher ID: ETIB
Offset: Offset 0 and length 4
Subpool and Key: 229 and key 0
(Residence in PC/Auth private area)
Size: ETIB: 48 bytes; ETIX: 56 bytes
Created by: IEAVXECR, freed by IEAVXEDE
Pointed to by: XMDETIBF and XMDETIBL, ETIBNEXT and ETIBBACK
Serialization: Serialized by the local lock of the PC/Auth address space.
Function: Contains information describing one entry table.

ETIB Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	48	ETIB	ENTRY TABLE INFORMATION BLOCK - DESCRIBES THE ASSOCIATED ENTRY TABLE
0	(0)	CHARACTER	4	ETIBETIB	ETIB ACRONYM
4	(4)	ADDRESS	4	ETIBASCB	POINTER TO THE ASCB OWNING THE ENTRY TABLE
8	(8)	ADDRESS	4	ETIBNEXT	FORWARD LINK FOR ETIB QUEUE
12	(C)	ADDRESS	4	ETIBBACK	BACK LINK FOR ETIB QUEUE
16	(10)	ADDRESS	4	ETIBETR	REAL ADDRESS OF THE ASSOCIATED ENTRY TABLE. THE LENGTH INDICATOR IS IN BITS 26 -31. (NO. ENTRIES/4 - 1)
20	(14)	ADDRESS	4	ETIBETV	VIRTUAL ADDRESS OF THE ASSOCIATED ENTRY TABLE
24	(18)	ADDRESS	4	ETIBLPAD	ADDRESS OF LATENT PARAMETER AREA <16M
28	(1C)	UNSIGNED	4	ETIBLPLN	LENGTH OF LATENT PARAMETER AREA <16M
32	(20)	ADDRESS	4	ETIBELPA	ADDRESS OF LATENT PARAMETERS IN EXTENDED STORAGE
36	(24)	UNSIGNED	4	ETIBELPL	LENGTH OF LATENT PARAMETERS IN EXTENDED STORAGE
40	(28)	BITSTRING	1	ETIBRSV3	RESERVED
41	(29)	BITSTRING	1	ETIBFLGS	FLAGS BYTE
		1...		ETIBSYS	ENTRY TABLE IS A SYSTEM TABLE
		.1..		ETIBSS	TABLE HAS SPACE SWITCH ENTRIES
		..1.		ETIBCIL	CONNECTION INFORMATION HAS BEEN LOST. CANNOT FREEMAIN THE ENTRY TABLE.
		...1		ETIBEAX	ENTRY TABLE CONTAINS NON-ZERO EAX VALUES.
		.... 1...		ETIBSASN	ALL ENTRIES IN THE ENTRY TABLE HAVE THE SASN CONTROL BIT ON (ETESASNC) INDICATING SASN=NEW PASN.
		.... .1..		ETIBDEST	This entry table has been destroyed.
		.... ..1.		ETIBRCRD	When 1, no recording of crossing memory binds is to take place.
		1		*	RESERVED
42	(2A)	UNSIGNED	2	ETIBCNCT	COUNT OF CONNECTIONS TO THIS ENTRY TABLE (FOR A SYSTEM ENTRY TABLE, THIS VALUE WILL BE X'FFFF'.)
44	(2C)	ADDRESS	4	ETIBFEXT	POINTER TO FIRST EXTENSION - CONTAINS CONNECTION INFORMATION

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	56	ETIX	EXTENSION BLOCK
0	(0)	CHARACTER	4	ETIXETIX	ACRONYM ETIX
4	(4)	CHARACTER	4	ETIXRESV	RESERVED FIELD

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ETIB Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
8	(8)	UNSIGNED	2	ETIXSLOT	COUNT OF CONNECTION SLOTS IN THIS EXTENSION (10)
10	(A)	UNSIGNED	2	ETIXFREE	FREE SLOT COUNT
12	(C)	ADDRESS	4	ETIXEXT	POINTER TO THE NEXT EXTENSION OF THE ETIB. CONTAINS CONNECTION INFORMATION
16	(10)	UNSIGNED	4	ETIXCD (10)	CONNECTION DESCRIPTIONS, ONE ENTRY PER CONNECTION
16	(10)	UNSIGNED	2	ETIXASID	ASID OF ADDRESS SPACE CONNECTED TO THIS ENTRY TABLE
18	(12)	UNSIGNED	2	ETIXLX	LINKAGE INDEX OF THIS ET IN LINKAGE TABLE OF ABOVE ASID. INDEX IS 12 BITS, RIGHT JUSTIFIED

ETIB Cross Reference

Name	Hex Offset	Hex Value
ETIB	0	
ETIBASCB	4	
ETIBBACK	C	
ETIBCIL	29	20
ETIBCNCT	2A	
ETIBDEST	29	04
ETIBEAX	29	10
ETIBELPA	20	
ETIBELPL	24	
ETIBETIB	0	
ETIBETR	10	
ETIBETV	14	
ETIBFEXT	2C	
ETIBFLGS	29	
ETIBLPAD	18	
ETIBLPLN	1C	
ETIBNEXT	8	
ETIBRCRD	29	02
ETIBRSV3	28	
ETIBSASN	29	08
ETIBSS	29	40
ETIBSYS	29	80
ETIX	0	
ETIXASID	10	
ETIXCD	10	
ETIXETIX	0	
ETIXEXT	C	
ETIXFREE	A	
ETIXLX	12	
ETIXRESV	4	
ETIXSLOT	8	

ETIORB Heading Information

Common Name: DSAB/TIOT Entry Build Routine Request Block
Macro ID: IEFZB430
DSECT Name: ETIOTREQ
Owning Component: Allocation/Unallocation (SC1B4)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: 230
Key: KEY 1
Residency: ANY
Size: 64 bytes (decimal)
Created by: Callers of DSAB/TIOT entry build routine
Pointed to by: Parameter list to IEFAB428
Serialization: None
Function: Contains input data required for the DSAB/TIOT entry build routine.

This input consists of:

1) An indication of the function to be performed, i.e. build, update, move, count or replace

2) Information to be placed in the DSAB and TIOT DD entry

3) Address of the JSCB which locates the DSAB chain and TIOT

4) An error reason code return area

5) Address of the DSAB

6) Address of the dummy UCB

7) The number of non-dummy UCB entries in a TIOT

ETIORB Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	64	ETIOTREQ	REQUEST BLOCK
0	(0)	BITSTRING	2	EREQMAP	FUNCTION MAP
		1...		EREQBLD	CREATE DSAB/TIOT ENTRY
		.1..		EREQUPD	UPDATE EXISTING TIOT DD ENT.
		..1.		EREQMOVE	MOVE TIOT DD ENTRY
		...1		EREQCNT	COUNT NON-DUMMY UCB ENTRIES IN TIOT
		.... 1...		EREQREPL	Replace the last real UCB with the dummy UCB
		.... .1..		EREQDSAA	Propagation bit for SVC 99 request for DSAB above the 16MB line. Set by: IEFAB421 Read by: IEFAB428
0	(0)	BITSTRING	1	*	RESERVED
2	(2)	BITSTRING	2	EREQSTAT	STATUS INDICATORS
		1...		EREQTERM	REQUEST IS 'TERM=TS'
		.1..		EREQQNM	REQUEST IS 'QNAME'
		..1.		EREQVAM	VAM DATA SET
		...1		EREQUNAL	UNALLOCATE WHEN CLOSED
		.... 1...		EREQPASS	PASS/RETAIN IND.
		.... .1..		EREQJSCT	JOBCAT OR STEPCAT
		.... ..1.		EREQCATL	DATA SET IS A CATALOG
		1		EREQXTIO	XTIOT ENTRY REQUIRED

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ETIORB Cross Reference

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
3	(3)	1...		EREQNCAP	ACTUAL UCBS REQUESTED
		.1..		EREQSUBS	Subsystem name is to be associated with the DD
		..11 1111		*	RESERVED
4	(4)	CHARACTER	8	EREQDDNM	DDNAME OF ALLOCATION REQUEST
12	(C)	CHARACTER	3	EREQJSVA	JFCB SVA
15	(F)	CHARACTER	1	*	
16	(10)	CHARACTER	3	EREQSSVA	SIOT SVA
19	(13)	CHARACTER	1	*	
20	(14)	ADDRESS	4	EREQSIOT	PTR TO SIOT
24	(18)	ADDRESS	4	EREQUCB	PTR TO ALLOCATED UCB
28	(1C)	SIGNED	2	EREQRPOS	RELATIVE DEV. ENTRY POSITION
30	(1E)	SIGNED	2	EREQDEVS	NO. DEVICES FOR THIS ENTRY
32	(20)	CHARACTER	4	EREQSSNM	Subsystem name
36	(24)	ADDRESS	4	EREQJSCB	PTR TO JSCB
40	(28)	SIGNED	2	EREQCODE	ERROR REASON CODE
42	(2A)	SIGNED	2	*	RESERVED
44	(2C)	ADDRESS	4	EREQDSAB	PTR TO DSAB
48	(30)	ADDRESS	4	EREQDUCB	ADDRESS OF DUMMY UCB
52	(34)	SIGNED	4	EREQCNT#	NO. OF NON-DUMMY UCB'S
56	(38)	ADDRESS	4	EREQCPTR	Captured ucb PoinTeR. - Set by IEFAB428 when it Captures a 31-bit UCB. - Checked by IEFAB434 when a DADSM error is encountered and the subject device is not going to be allocated. IEFAB434 will perform an Uncapture for this condition.
60	(3C)	CHARACTER	4	*	Not used and available.

ETIORB Cross Reference

Name	Hex Offset	Hex Value
EREQBLD	0	80
EREQCATL	2	02
EREQCNT	0	10
EREQCNT#	34	
EREQCODE	28	
EREQCPTR	38	
EREQDDNM	4	
EREQDEVS	1E	
EREQDSAA	0	04
EREQDSAB	2C	
EREQDUCB	30	
EREQJSCB	24	
EREQJSCT	2	04
EREQJSVA	C	
EREQMAP	0	
EREQMOVE	0	20
EREQNCAP	3	80
EREQPASS	2	08
EREQQNM	2	40
EREQREPL	0	08
EREQRPOS	1C	
EREQSIOT	14	
EREQSSNM	20	
EREQSSVA	10	
EREQSTAT	2	
EREQSUBS	3	40
EREQTERM	2	80
EREQUCB	18	
EREQUNAL	2	10
EREQUPD	0	40
EREQVAM	2	20
EREQXTIO	2	01
ETIOTREQ	0	

EVNT Heading Information

Common Name: Event Table
Macro ID: IHAEVNT
DSECT Name: EVNT
Owning Component: Task Manager (SC1CL)
Eye-Catcher ID: None
Subpool and Key: 253 and key 0
Size: 40 plus the number of EVENT entries requested by the user
Created by: IEAVEVT1
Pointed to by: TCBEVENT field of the TCB data area
TCBEXTZT field of the TCB data area(first EVNT)
EVNTLNK field of the EVNT data area(next EVNT)
Serialization: LOCAL lock
Function: Contains pointers to EVENTS type ECBs that have completed and information that will be used by POST to take the user out of the wait state.

EVNT Map

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	EVNT	
0	(0)	DBL WORD	8	EVNTBEGN (0)	BEGINING OF EVENT TABLE
0	(0)	DBL WORD	8	EVNTHEDR (0)	EVENT TABLE HEADER
0	(0)	ADDRESS	4	EVNTLNK	EVENT TABLE QUEUE LINK PTR
4	(4)	ADDRESS	4	EVNTTCBP	TCB POINTER
8	(8)	ADDRESS	4	EVNTRBP	WAITING RB POINTER
12	(C)	ADDRESS	4	EVNTFST	PTR TO FIRST EVENT ENTRY
16	(10)	ADDRESS	4	EVNTLST	PTR TO LAST ENTRY OF TABLE
20	(14)	ADDRESS	4	EVNTLSTA	PTR TO LAST ACTIVE EVENT ENTRY IN TABLE
24	(18)	ADDRESS	1	EVNTFLG1	EVENT TABLE FLAGS
		1...		EVNTUPR	"X'80'" UPDATE EVENT TABLE INDICATOR
25	(19)	ADDRESS	3	EVNTLNTH	LENGTH OF EVENT TABLE
28	(1C)	ADDRESS	4	EVNTRES2	RESERVED
32	(20)	ADDRESS	4	EVNTRES3	RESERVED
36	(24)	ADDRESS	4	EVNTDUMY	DUMMY EVENT ENTRY
40	(28)	ADDRESS	4	EVNTHEND (0)	END OF EVENT TABLE HEADER
40	(28)	ADDRESS	4	EVNTENTY (0)	EVENT ENTRY
40	(28)	ADDRESS	4	EVNTENTA (0)	31-BIT POINTER TO POSTED ECB
40	(28)	ADDRESS	1	EVNTFLGS	EVENT ENTRY FLAGS
		1...		EVNTENDL	"X'80'" END OF LIST INDICATOR
41	(29)	ADDRESS	3	EVNTENTP	24-BIT PTR TO POSTED ECB

EVNT Cross Reference

Name	Hex Offset	Hex Value
EVNT	0	
EVNTBEGN	0	
EVNTDUMY	24	
EVNTENDL	28	80
EVNTENTA	28	
EVNTENTP	29	
EVNTENTY	28	
EVNTFLGS	28	
EVNTFLG1	18	
EVNTFST	C	
EVNTHEDR	0	
EVNTHEND	28	
EVNTLNK	0	
EVNTLNTH	19	
EVNTLST	10	
EVNTLSTA	14	
EVNTRBP	8	
EVNTRES2	1C	
EVNTRES3	20	
EVNTTCBP	4	
EVNTUPR	18	80

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EWA Heading Information

Common Name: EWA - Error Recovery Procedure Work Area
Macro ID: EWAMAP
DSECT Name: EWA
Owning Component: IOS (SC1C3)
Eye-Catcher ID: None
Storage Attributes: Main Storage: YES
Virtual Storage: n/a
Auxiliary Storage: n/a
Subpool: 226
Key: 0
Residency: Below 16MB line
Size: See assembler listing.
Created by: IOS IRB analysis or IOS Post Status modules.
Pointed to by: IOSERP
Serialization: None
Function: Procedure work area common section:
- the common section consists of indicators, counters and sense information
- the ERP dependent sections are available for ERP use as needed

EWA Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	248	EWA	
0	(0)	ADDRESS	4	EWAHDR	EWA HEADER
0	(0)	ADDRESS	4	EWAEXT	ADDRESS OF WA EXTENTION THIS FIELD MUST BE ZERO OR POINT TO A BLOCK OBTAINED FROM THE IOS STORAGE MANAGER
4	(4)	CHARACTER	4	EWAFLAGS	FOUR BYTES OF FLAGS
4	(4)	BITSTRING	1	EWAFLG1	FLAG BYTE 1
		1...		EWASLIS	IF ON, INDICATES SKIP SENSE PROCESSING ACTIVE
		.1..		EWAAPR	IF ON, ALTERNATE PATH RETRY NEEDED
		..1.		EWAREPET	REPEAT USAGE OF THIS EWA FOR A REQUEST. (ZERO ONLY ON FIRST ENTRY
		...1		EWAXTRCD	ERROR RECORDED BY EXIT ROUTINE. CAN BE USED TO COMMUNICATE BETWEEN A DEVICE DEPENDENT EXIT ROUTINE WHICH IS RECORDING AN ERROR AND THE ERP, SO THE ERP DOES NOT RECORD THE SAME ERROR. SET TO 0 BY IOS ONLY WHEN THE EWA IS OBTAINED. IT IS THE RESPONSIBILITY OF THE ERP OR DEVICE DEPENDENT EXIT TO RESET THIS FIELD ONCE IT HAS BEEN SET ON.
		.... 11..		EWASCCD	START SUBCHANNEL DEFERRED CONDITION CODE ON SENSE OPERATION IF THIS IS A UNIT CHECK. (ONLY 0,1 AND 3 ARE VALID)
		.... 11..		EWASCC3	DEFERRED CONDITION CODE 3
		.... 1...		*	RESERVED
		.... .1..		EWASCC1	DEFERRED CONDITION CODE 1 SEE END OF EWA FOR CC 0
		.... ..1.		EWADDMSG	ERP DEPENDENT DATA TO BE INCLUDED IN I/O ERROR MESSAGE
		1		EWABDSNS	IF ON, INDICATES SENSE DATA INVALID
5	(5)	BITSTRING	1	EWAFLG2	FLAG BYTE 2
		1...		EWAMDR	IF ON, MDR REQUEST. IF OFF, OBR REQUEST.

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Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		.1..		EWAWTEMP	ON - TEMPORARY WRITE ERR COUNTER TO BE UPDATE IF DATA CHECK CONDITION. OFF - TEMPORARY READ ERR COUNTER TO BE UPDATED.
		..1.		EWACOVF	COUNTER OVERFLOW INDICATOR FOR STATISTICS UPDATE
		...1		EWAERPRT	ON, THE ERP REQUESTS THAT IOSB COMPLETION CODES X'41' TO X'5F' BE RETURNED TO ERP WITH THE IOSERR BIT SET IN THE IOSB
		.... 1...		EWARCBLT	OBR RECORD BUILT BY CALLER
		.... .1..		EWALBUSY	IF ON, LONG BUSY UNIT CHECK
		11		*	RESERVED
6	(6)	BITSTRING	1	EWAFLG3	FOR DEVICE DEPENDENT ERP USAGE
		1...		EWAJAM	3800 PAPER JAM
		.111 1111		*	RESERVED
7	(7)	BITSTRING	1	EWASNSCT	LOOP COUNT FOR SENSE FAILURE
8	(8)	BITSTRING	2	EWASSTAT	CSW STATUS ON SENSE OPERATION IF THIS IS A UNIT CHECK
10	(A)	CHARACTER	4	EWACNTRS	COUNTERS FOR ERP USE
10	(A)	ADDRESS	1	EWACNTR1	COUNTER 1
11	(B)	ADDRESS	1	EWACNTR2	COUNTER 2
12	(C)	ADDRESS	1	EWACNTR3	COUNTER 3
13	(D)	ADDRESS	1	EWACNTR4	COUNTER 4
14	(E)	CHARACTER	2	EWASTUP	STATISTICS INFORMATION FOR UPDATING STATISTICS
16	(10)	CHARACTER	8	EWAERPIB	ERPIB BUILT BY SLH FOR CHANNEL ERRORS. INFORMATION FOR ERP USE. VALID WHENEVER THERE IS A CCC, CDC, ICC, OR MEASUREMENT-BLOCK CHECK (L BIT =1 IN IOSB). WHEN A UNIT CHECK OR INTERCEPT CONDITION HAS OCCURRED, THE LPUM FIELD WILL BE VALID AND ALL OTHER FIELDS OF THE ERPIB WILL BE ZERO. IN ALL OTHER CASES, THE ERPIB WILL BE ZERO.
16	(10)	BITSTRING	1	EWACFSTB	FIRST BYTE OF THE EXTENDED STATUS WORD. (SEE IHAESW)
		1...		*	RESERVED
		.111 1111		EWACECF	ERROR CHECK FLAGS
		.1..		EWACKEY	IF ON, INDICATES CBC ERROR ON KEY VS STORAGE. MEANINGFUL FOR CDC, MEASUREMENT- BLOCK DATA CHECK, OR CCC WITH CCW OR IDAW CHECK.
		..1.		EWACMBPG	IF ON, MEASUREMENT-BLOCK PROGRAM CHECK. MEASUREMENT- BLOCK ENTRY HAS AN INVALID ABSOLUTE ADDRESS.
		...1		EWACMBDC	IF ON, MEASUREMENT- BLOCK DATA CHECK. THE MEASUREMENT-BLOCK PARAMETERS OR THE ASSOCIATED KEY HAVE AN INVALID CBC.
		.... 1...		EWACMBPT	IF ON, MEASUREMENT- BLOCK PROTECTION CHECK. KEY USED BY CHANNEL DOESN'T MATCH MEASUREMENT-BLOCK (STORAGE) KEY.
		.... .1..		EWACCCWC	IF ON, CBC ERROR WHILE FETCHING A CCW. CHANNEL CONTROL CHECK WILL ALSO BE ON.
		.... ..1.		EWACIDAW	IF ON, CBC ERROR WHILE FETCHING AN IDAW. CHANNEL CONTROL CHECK WILL ALSO BE ON.
		1		EWACALC	IF ON, ADDRESS LIMIT FAILURE WHILE EXECUTING THE LAST CHANNEL PROGRAM. CHANNEL CONTROL CHECK WILL ALSO BE ON.
17	(11)	BITSTRING	1	EWAERWF	ERW FLAGS
		1...		EWA2CCWV	SECONDARY CCW ADDRESS VALID
		.111 1111		*	RESERVED
18	(12)	CHARACTER	2	*	RESERVED
20	(14)	BITSTRING	1	EWARGFG1	FLAG BYTE
		1...		EWACSIO	ALWAYS 0. INDICATES STATUS WAS NOT STORED AFTER A START SUBCHANNEL COMMAND.
		.1..		EWACINT	ALWAYS 1. INDICATES STATUS STORED FOLLOWING AN I/O INTERRUPT FOR START SUBCHANNEL.
		..1.		EWACTIO	ALWAYS 0. INDICATES STATUS WAS NOT STORED AFTER A TEST SUBCHANNEL COMMAND.

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		...1		EWACHIO	ALWAYS 0. INDICATES STATUS WAS NOT STORED AFTER A HALT SUBCHANNEL COMMAND.
		.... 1...		EWAITO	INTERFACE TIMEOUT DETECTED
		.... .1..		EWACSNS	SENSE DATA WAS STORED
		.... ..1.		EWACCNT	CSW COUNT IS VALID
		1		EWANORTY	IF ON, OPERATION CANNOT BE RETRIED.
21	(15)	BITSTRING	1	EWALPUM	LAST PATH USED MASK (LPUM). THIS FIELD IS COPIED FROM THE EXTENDED STATUS WORD IF THE LPUM SETTING IS CONSISTENT WITH THE OTHER LOGOUT INDICATIONS.
22	(16)	BITSTRING	1	EWAXCSW1	VALIDITY INDICATORS
		1...		*	RESERVED
		.111 11..		EWACFVF	FIELD VALIDITY FLAGS
		.1..		EWACLPUV	LAST PATH USED MASK FIELD IS CONSISTENT WITH THE OTHER LOGOUT INDICATIONS
		..1.		EWACTCV	TERMINATION CODE IS VALID
		...1		EWACSQV	SEQUENCE CODE IS VALID
		.... 1...		EWACUNS	DEVICE STATUS IS VALID
		.... .1..		EWACCMD	CCW ADDRESS IS VALID
		.... ..1.		EWACCHV	ALWAYS 1. INDICATES THE DEVICE NUMBER IS VALID.
		1		EWACDAV	ALWAYS 1. INDICATES THE DEVICE NUMBER IS VALID.
23	(17)	BITSTRING	1	EWAXCSW2	TERMINATION AND SEQUENCE CODES
		11..		EWACTEC	TERMINATION CODE - SEE BELOW FOR VALUES
		..1.		EWAD	DEVICE STATUS CHECK
		...1		EWAE	SECONDARY ERROR INDICATION
		.... 1...		EWACDIN	I/O ERROR ALERT
		.... .111		EWACSEQ	SEQUENCE CODES - SEE BELOW FOR VALUES
24	(18)	CHARACTER	2	EWACHA	DEVICE NUMBER ON WHICH I/O WAS STARTED
26	(1A)	BITSTRING	1	EWAFLGA	FLAGS FOR IOS INTERNAL USE
		1111		*	RESERVED
		 1111		EWADDE	BITS RESERVED FOR DEVICE DEPENDENT EXITS
27	(1B)	BITSTRING	1	EWAPATHS	PATHS TO BE USED FOR RETRY I/O. ONLY USED IF EWAAPR IS ON.
28	(1C)	ADDRESS	4	EWADRCW	ADDR OF RECORD CONTROL TABLE (VALID ONLY IF EWARCBLT=1)
28	(1C)	CHARACTER	1	EWADCNT	NUMBER OF BYTES OF OBR INFO
29	(1D)	ADDRESS	3	EWADDISP	ADDR OF OBR DEVICE DEPENDENT INFORMATION (EWARCBLT=0)
32	(20)	CHARACTER	184	EWAIERP	AREA FOR INDIVIDUAL ERPS
216	(D8)	ADDRESS	4	EWASMADR	ABSOLUTE ADDRESS PASSED TO RSM ON STORAGE OR KEY ERROR DETECTED BY CHANNEL
220	(DC)	BITSTRING	4	EWASMFLG	STATUS INFORMATION RETURNED BY RSM
224	(E0)	SIGNED	2	EWASMRC	RETURN CODE FROM RSM FOR STORAGE OR KEY ERROR
226	(E2)	BITSTRING	1	EWAPFCMD	FAILING PREFIX COMMAND CODE. VALID IF UNIT CHECK OR CHANNEL CHECK (ICC, CCC, CDC) ON PREFIX. OTHERWISE, ZERO.
227	(E3)	BITSTRING	1	EWAVPATH	PATH MASK OF CHANNEL PATHS TO BE VARIED OFFLINE
228	(E4)	CHARACTER	4	EWAID	EBCDIC ACRONYM FOR EWA
232	(E8)	CHARACTER	4	EWAESW	EXTENDED STATUS WORD
236	(EC)	BITSTRING	2	EWAQTIME	IOS TIME VALUE WHEN I/O REQUEST WAS PLACED ON IOQ QUEUE (CONVERTED FROM IOQIOTCT)
238	(EE)	UNSIGNED	1	EWASNSRD	Lesser of the number of sense bytes actually read from the device and the number of sense bytes expected. The UCBSNSCT field contains the number of bytes that IOS expected the device to return and is set by the UIM. This field is not valid if EWABDSNS is set.
239	(EF)	CHARACTER	1	*	RESERVED
240	(F0)	ADDRESS	4	EWASLH	POINTER TO SLH STORAGE
244	(F4)	ADDRESS	4	EWAERPCR	ERP CLEANUP ROUTINE ADDRESS

EWA Constants

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
32	(20)	STRUCTURE	80	EWADDIOS	
32	(20)	CHARACTER	64	EWASNS	SENSE DATA START
96	(60)	CHARACTER	12	*	RESERVED
108	(6C)	CHARACTER	4	EWA2CSW	2nd CCW translation address
112	(70)	CHARACTER	0	EWAEND	END OF EWA

EWA Constants

Len	Type	Value	Name	Description
			Comment	
	CONSTANTS FOR EWASCCD			
			End of Comment	
1	HEX	00	EWASCC0	DEFERRED CONDITION CODE 0
			Comment	
	CONSTANTS FOR EWASNSCT			
			End of Comment	
1	HEX	FF	EWASCTMX	MAXIMUM NUMBER OF SENSES TRIED.
			Comment	
	CONSTANTS FOR EWACTEC			
			End of Comment	
0	BIT	00	EWATER0	INTERFACE DISCONNECT
0	BIT	01	EWATER1	STOP, STACK, OR NORMAL TERM
0	BIT	10	EWATER2	SELECTIVE RESET
			Comment	
	CONSTANTS FOR EWACSEQ			
			End of Comment	
0	BIT	000	EWACSEQ0	RESERVED
0	BIT	001	EWACSEQ1	COMMAND SENT BUT STATUS NOT ANALYZED
0	BIT	010	EWACSEQ2	COMMAND ACCEPTED BY DEVICE BUT NO DATA HAS BEEN TRANSFERRED
0	BIT	011	EWACSEQ3	AT LEAST ONE BYTE OF DATA HAS BEEN TRANSFERRED
0	BIT	100	EWACSEQ4	COMMAND NOT SENT OR SENT BUT NOT YET ACCEPTED
0	BIT	101	EWACSEQ5	COMMAND HAS BEEN ACCEPTED BUT DATA TRANSFER UNPREDICTABLE
0	BIT	110	EWACSEQ6	RESERVED
0	BIT	111	EWACSEQ7	RESERVED
			Comment	
	CONSTANTS FOR CONTROL BLOCK IDENTIFIER			
			End of Comment	
4	CHARACTER	EWA	EWACID	CONTROL BLOCK IDENTIFIER

EWA Cross Reference

Name	Hex Offset	Hex Value
EWA	0	
EWAAPR	4	40
EWABDSNS	4	01
EWACALC	10	01
EWACCCWC	10	04
EWACCHV	16	02
EWACCMD	16	04
EWACCNT	14	02
EWACDAV	16	01
EWACDIN	17	08
EWACECF	10	7F
EWACFSTB	10	
EWACFVF	16	7C
EWACHA	18	
EWACHIO	14	10
EWACIDAW	10	02
EWACINT	14	40
EWACKEY	10	40
EWACLPUV	16	40
EWACMBDC	10	10
EWACMBPG	10	20
EWACMBPT	10	08
EWACNTRS	A	
EWACNTR1	A	
EWACNTR2	B	
EWACNTR3	C	
EWACNTR4	D	
EWACOVF	5	20
EWACSEQ	17	07
EWACSIO	14	80
EWACSNS	14	04
EWACSQV	16	10
EWACTCV	16	20
EWACTEC	17	C0
EWACTIO	14	20
EWACUNS	16	08
EWAD	17	20
EWADCNT	1C	
EWADDE	1A	0F
EWADDIOS	20	
EWADDISP	1D	
EWADDMSG	4	02
EWADRCW	1C	
EWAE	17	10
EWAEND	70	
EWAERPCR	F4	
EWAERPIB	10	
EWAERPRT	5	10
EWAERWF	11	
EWAESW	E8	
EWAEXT	0	
EWAFLAGS	4	
EWAFLGA	1A	
EWAFLG1	4	
EWAFLG2	5	
EWAFLG3	6	
EWAHDR	0	
EWAID	E4	
EWAIERP	20	
EWAITO	14	08
EWAJAM	6	80
EWALBUSY	5	04
EWALPUM	15	
EWAMDR	5	80
EWANORTY	14	01
EWAPATHS	1B	
EWAPFCMD	E2	
EWAQTIME	EC	
EWARCBLT	5	08
EWAREPET	4	20
EWARGFG1	14	
EWASCCD	4	0C
EWASCC1	4	04
EWASCC3	4	0C
EWASLH	F0	
EWASLIS	4	80
EWASMADR	D8	
EWASMFLG	DC	
EWASMRC	E0	
EWASNS	20	
EWASNSCT	7	
EWASNSRD	EE	
EWASSTAT	8	
EWASTUP	E	
EWAVPATH	E3	
EWAWTEMP	5	40
EWAXCSW1	16	
EWAXCSW2	17	
EWAXTRCD	4	10
EWA2CCWV	11	80
EWA2CSW	6C	

FBQE Heading Information

Common Name: VSM Free Block Queue Element
Macro ID: IHAFBQE
DSECT Name: FBQE
Owning Component: Virtual Storage Manager (SC1CH)
Eye-Catcher ID: None
Storage Attributes: Subpool: 245 or 255
Key: 0
Residency: Above 16M line
Size: 16 bytes
Created by: IEAVNIP0, IEAVNP08, IGVFVRGN, IGVGVRGN, IGVFRRGN, IGVGRRGN, IGVFSFBQ
Pointed to by: GDAFBQCF, GDAFBQCL, GDACSADR, GDAEFBCF, GDAEFBCL, LDAFBQAF, LDAFBQAL, LDAFBQSF, LDAFBQSL, LDAFBQRF, LDAFBQRL, LDAEFBAF, LDAEFBAL, LDAEFBSF, LDAEFBSL, LDAEFBRF, LDAEFBRL, RDFBQEF, RDFBQEL
Serialization: VSMFIX lock for global fixed subpools
LOCAL lock for private area subpools
Function: Describes 4K multiple blocks of free space in CSA or the Private Area.

FBQE Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	16	FBQE	FREE BLOCK QUEUE ELEMENT
0	(0)	ADDRESS	4	FBQENEXT	ADDRESS OF NEXT FBQE
4	(4)	ADDRESS	4	FBQEPREV	ADDRESS OF PREVIOUS FBQE
8	(8)	UNSIGNED	4	FBQESIZE	SIZE OF FREE BLOCK (IN BYTES)
12	(C)	ADDRESS	4	FBQEAREA	ADDRESS OF THE FREE BLOCK

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FFAP Heading Information

Common Name: N/A
Macro ID: N/A
DSECT Name: N/A
Owning Component: N/A
Eye-Catcher ID: N/A
Offset: N/A
Length: N/A
Storage Attributes: Main Storage: N/A
Virtual Storage: N/A
Auxiliary Storage: N/A
Subpool: N/A
Key: N/A
Data Space: N/A
Residency: N/A
Size: N/A
Created by: N/A
Pointed to by: N/A
Serialization: N/A
Function: Map the GTF TRACE formatting appendage parameter and the new appendage work area list.

FFAP Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	GTFAPP	- GTF APPENDAGE PARAMETER
0	(0)	SIGNED	4	(0)	WORD BOUNDARY
0	(0)	ADDRESS	4	GTFRECP	INPUT RECORD
4	(4)	ADDRESS	4	GTFBUFP	OUTPUT BUFFER
8	(8)	ADDRESS	4	GTFOPP	GTF OPTION WORD
12	(C)	ADDRESS	4	GTFEIDP	EID IN RECORD
16	(10)	ADDRESS	4	GTFDATP	DATA PORTION
20	(14)	ADDRESS	4	GTFFRMP	ARCHAIC PATTERN FORMATTER
24	(18)	ADDRESS	4	GTFWKAP	ARCHAIC 200 BYTE AREA
28	(1C)	ADDRESS	4	GTFSNPR	ARCHAIC SNAPPARM
32	(20)	ADDRESS	4	GTFABDP	ABDPL
36	(24)	ADDRESS	4	GTFWALP	WORK AREA LIST
40	(28)	ADDRESS	4	GTFTABP	TRACE TABLE
44	(2C)	ADDRESS	4	GTFFMTP	FORMAT PARAMETER
48	(30)	ADDRESS	4	GTFSRCEP	POINTER TO SOURCE DESCRIPTOR RECORD PERTAINING TO THIS GTF RECORD. THE SOURCE DESCRIPTOR RECORD IS MAPPED BY AHLZGTS.
52	(34)	SIGNED	4	GTFDATL	THIS IS THE LENGTH OF THE DATA PORTION OF A GTF RECORD. THE DATA PORTION OF THE GTF RECORD IS POINTED TO BY GTFDATP.

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	RECHDR	- GTF RECORD HEADER
0	(0)	SIGNED	4	(0)	WORD BOUNDARY
0	(0)	SIGNED	2	RECLEN	RECORD LENGTH
2	(2)	CHARACTER	2		NOT REFERENCED
4	(4)	CHARACTER	1	AID	AID
5	(5)	ADDRESS	1	FID	FORMAT IDENTIFIER
6	(6)	CHARACTER	8	TIMESTMP	MAY NOT BE PRESENT

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FFAP Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	GENDAT	- GENERALIZED DATA MAP
0	(0)	SIGNED	4	(0)	WORD BOUNDARY
0	(0)	ADDRESS	4	GENASCB (0)	ASCB POINTER
0	(0)	SIGNED	2	RECERR	ERROR FIELD
2	(2)	SIGNED	2		PAD
4	(4)	SIGNED	2	GENCPU	CPU ADDRESS
6	(6)	CHARACTER	8	GENJOBN	JOBNAME

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	USRDAT	- USER DATA MAP
0	(0)	SIGNED	4	(0)	WORD BOUNDARY
0	(0)	ADDRESS	4		REFER TO GENASCB
4	(4)	CHARACTER	8	USRJOBN	JOBNAME IN USER RECORD

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	WK200	-
0	(0)	CHARACTER	200		STORAGE ACROSS CALLS, ZEROED FOR EACH RECORD, ARCH.

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	DAREA	-
0	(0)	CHARACTER	2	EID	EVENT IDENTIFIER
2	(2)	CHARACTER	2	DELIM	ADDRESS TABLE DELIMITER
4	(4)	BITSTRING	2	CHKERR	COMPARE FOR ERROR RECORD

FFAP Cross Reference

Name	Hex Offset	Hex Value
AID	4	
CHKERR	4	EEEE
DAREA	0	
DELIM	2	4040
EID	0	
FID	5	
GENASCB	0	
GENCPU	4	
GENDAT	0	
GENJOBN	6	
GTFABDP	20	
GTFAPP	0	
GTFBUFP	4	
GTFDATL	34	
GTFDATP	10	
GTFEIDP	C	
GTFFMTP	2C	
GTFFRMP	14	
GTFOPP	8	
GTFRECP	0	
GTFSNPR	1C	
GTFSRCEP	30	
GTFTABP	28	
GTFWALP	24	
GTFWKAP	18	
RECERR	0	
RECHDR	0	
RECLEN	0	
TIMESTMP	6	
USRDAT	0	
USRJOBN	4	
WK200	0	

FIB Heading Information

Common Name: VSM Format Information Block
Macro ID: IGVFIB
DSECT Name: FIB
Owning Component: Virtual Storage Manager (SC1CH)
Eye-Catcher ID: None
Storage Attributes: Subpool: 0
Key: 8
Residency: Above 16M line
Size: FIB -- 104 bytes
STORAGE ESTIMATE: 1, USED BY THE VSMDATA IPCS SERVICE ROUTINES
Created by: IGVSFMAN
Pointed to by: FIBPTR
Serialization: None
Function: GENERAL PARAMETER LIST PASSED AMONG THE VSMDATA IPCS SERVICE ROUTINES

FIB Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	120	FIB	FORMAT ROUTINE INFORMATION BLOCK
0	(0)	ADDRESS	4	FIBABDPL	ADDRESS OF PRINT DUMP PARM LIST
4	(4)	ADDRESS	4	FIBDUMP	DUMP LOCATION OF CONTROL BLOCK
8	(8)	ADDRESS	4	FIBBLOCK	ACCESSED ADDRESS OF CONTROL BLOCK
12	(C)	SIGNED	4	FIBSCAN	NUMBER OF ELEMENTS TO SCAN
16	(10)	SIGNED	4	FIBALLOC	TOTAL AMOUNT ALLOCATED TO THE SUBPOOL
20	(14)	ADDRESS	4	FIBFMTPT	ADDRESS OF FORMAT PATTERN
20	(14)	ADDRESS	4	FIBMODEL	ADDRESS OF FORMAT MODEL
24	(18)	ADDRESS	4	FIBERROR	ADDRESS OF EBCDIC CONTROL BLK NAME
28	(1C)	BITSTRING	4	FIBFLAGS	STATUS FLAGS
		1...		FIBGDA	ERROR IN GDA
		.1..		FIBSPTT	ERROR IN SPTT
		..1.		FIBFVSWK	ERROR IN FIXED VSM WORK AREA
		...1		FIBPVSWK	ERROR IN PAGABLE VSM WORK AREA
		.... 1...		FIBGVSMP	ERROR IN GLOBAL VSM CELL POOLS
		.... .1..		FIBSPT	ERROR IN CSA SUBPOOL TABLE
		.... ..1.		FIBGDEFR	GLOBAL DEFERRED RELEASE QUEUE
		1		FIBRGR	ERROR IN RGR
29	(1D)	1...		*	RESERVED
		.1..		FIBASCB	ERROR IN ASCB
		..1.		FIBLDA	ERROR IN LDA
		...1		FIBLVSWK	ERROR IN PRIVATE AREA VSM WORK AREA
		.... 1...		FIBLVSMP	ERROR IN LOCAL VSM CELL POOL
		.... .1..		FIBEVRD	EXTD V=R REGION DATA FOUND
		.... ..1.		FIBESRD	EXTD SYS RGN DATA FOUND
		1		FIBLDEFR	LOCAL DEFERRED RELEASE QUEUE FOUND
30	(1E)	1...		FIBASXB	ERROR IN ASXB
		.1..		FIBTCB	ERROR IN TCB
		..1.		FIBAE	ERROR IN AE
		...1		FIBSPQE	ERROR IN SPQE
		.... 1...		FIBSPQA	ERROR IN SPQA
		.... .1..		FIBCAUB	ERROR IN CAUB
		.... ..1.		FIBGQATITBL	ERROR IN GQAT Index Table
		1		FIBGQAT	ERROR IN GQAT
31	(1F)	1...		FIBGQE	ERROR IN GQE
		.1..		FIBASSB	ERROR IN ASSB
		..1.		FIBVAB	ERROR IN VAB
		...1		FIBVSMXT	ERROR IN VSM Cell Pool Extent

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Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		.... 1...		FIBSPQX	ERROR IN SPQX
		.... .111		*	RESERVED
32	(20)	CHARACTER	12	FIBPSEL	INFORMATION RETURNED FROM MODULE IGVSFPAR
32	(20)	ADDRESS	4	FIBASL	ADDRESS OF THE ASID SELECTION LIST
36	(24)	SIGNED	4	FIBASL_LEN	Length of the ASID selection list. This field is copied from ADPLPS31, which is in the select ASID service parameter list (ADPLPSEL), by IGVSFPAR. ADPLPSEL is in IGVSFPAR's dynamic area. Thus, ADPLPS31 is copied to the FIB so that routines other than IGVSFPAR can use it.
40	(28)	BITSTRING	4	FIBKEYS	KEYWORD INDICATORS
40	(28)	BITSTRING	1	FIBPSF1	KEYWORD INDICATORS FOR SELECT ASID SERVICE
		1...		FIBALL	1 => ALL KEYWORD SPECIFIED
		.1..		FIBCUR	1 => CURRENT KEYWORD SPECIFIED
		..1.		FIBERR	1 => ERROR KEYWORD SPECIFIED
		...1		FIBTERR	1 => TCBERROR KEYWORD SPECIFIED
		.... 1...		FIBJOBL	1 => JOBLIST KEYWORD SPECIFIED
		.... .1..		FIBASIDL	1 => ASIDLIST KEYWORD SPECIFIED
		11		*	RESERVED
41	(29)	BITSTRING	1	FIBPSF2	KEYWORD INDICATORS FOR VSMDATA ONLY
		1...		FIBCBS	1 => CONTROLBLOCKS KEYWORD SPECIFIED
		.1..		FIBGLOB	1 => GLOBAL KEYWORD SPECIFIED
		..1.		FIBNOGLB	1 => NOGLOBAL KEYWORD SPECIFIED
		...1		FIBNOAS	1 => NOASID KEYWORD SPECIFIED
		 1111		*	RESERVED
42	(2A)	BITSTRING	2	FIBPSF3	KEYWORD INDICATIORS FOR VSMDATA OWNCOMM PARAMETER
		1...		FIBOWNC	1 => OWNCOMM KEYWORD SPECIFIED
		.1..		FIBSUMM	1 => SUMMARY KEYWORD SPECIFIED
		..1.		FIBDETL	1 => DETAIL KEYWORD SPECIFIED
		...1		FIBSYS	1 => SYSTEM KEYWORD SPECIFIED
		.... 1...		FIBSORT	1 => SORTBY KEYWORD SPECIFIED
		.... .1..		FIBASLEN	1 => ASIDLEN KEYWORD SPECIFIED
		.... ..1.		FIBASADR	1 => ASIDADDR KEYWORD SPECIFIED
		1		FIBADDR	1 => ADDRESS KEYWORD SPECIFIED
43	(2B)	1...		FIBLEN	1 => LENGTH KEYRWORD SPECIFIED
		.1..		FIBTIME	1 => TIME KEYWORD SPECIFIED
		..1.		FIBCONT	1 => CONTENTS KEYWORD SPECIFIED
		...1		FIBCONTY	1 => YES KEYWORD SPECIFIED
		.... 1...		FIBCONTN	1 => NO KEYWORD SPECIFIED
		.... .111		*	RESERVED
44	(2C)	CHARACTER	4	FIBACRO	Acronym of the control block currently being processed.
48	(30)	BITSTRING	4	FIBPARF	Flags returned by the parser
		1...		FIBSTXER	Syntax error occured
		.1..		FIBCSA	OWNCOMM(CSA) option
		..1.		FIBSQA	OWNCOMM(SQA) option
48	(30)	BITSTRING	3	*	RESERVED
52	(34)	ADDRESS	4	FIBPSAI	Address of PDE chain input to the Select ASID service
56	(38)	ADDRESS	4	FIBTABLEPTR	Address of DETAIL/SUMMARY Table
60	(3C)	SIGNED	4	FIBTABLESIZE	Size of DETAIL/SUMMARY Table
64	(40)	SIGNED	4	FIBTABLEINDEX	Index into the DETAIL/SUMMARY Table
68	(44)	CHARACTER	16	FIBGRANDTACTIVE	Grand Totals for Active ASIDs
68	(44)	UNSIGNED	4	FIBGRANDTACTIVECSA	CSA held
72	(48)	UNSIGNED	4	FIBGRANDTACTIVESQA	SQA held
76	(4C)	UNSIGNED	4	FIBGRANDTACTIVEECSA	ECSA held
80	(50)	UNSIGNED	4	FIBGRANDTACTIVEESQA	ESQA held
84	(54)	CHARACTER	16	FIBGRANDTOWNGONE	Grand Totals for Owner Gone ASIDs
84	(54)	UNSIGNED	4	FIBGRANDTOWNGONECSA	

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
					CSA held
88	(58)	UNSIGNED	4	FIBGRANDTOWNGONESQA	
					SQA held
92	(5C)	UNSIGNED	4	FIBGRANDTOWNGONEECSA	
					ECSA held
96	(60)	UNSIGNED	4	FIBGRANDTOWNGONEESQA	
					ESQA held
100	(64)	ADDRESS	4	FIBPDRPTR	PDL extent chain header
104	(68)	CHARACTER	8	FIBALLOCBYAREA	
					Allocate storage by area per subpool
104	(68)	UNSIGNED	4	FIBALLOCGT16M	
					Portion of FIBALLOC with virtual > 16M
108	(6C)	UNSIGNED	4	FIBALLOCLT16M	
					Portion of FIBALLOC with virtual < 16M
112	(70)	ADDRESS	4	FIBGDA@	GDA address
116	(74)	ADDRESS	4	FIBFIBEP	FIB Extension
120	(78)	CHARACTER	0	FIBEND	END OF FIB

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	44	FIBSUM	Mapping of SUMMARY table
0	(0)	BITSTRING	2	FIBSUMASID	ASID
2	(2)	CHARACTER	8	FIBSUMJOBNAME	
					JobName
10	(A)	CHARACTER	8	FIBSUMID	Id
18	(12)	CHARACTER	2	FIBSUMSTATUS	Status
20	(14)	UNSIGNED	4	FIBSUMTOTAL	Total common storage
24	(18)	UNSIGNED	4	FIBSUMSQA	SQA
28	(1C)	UNSIGNED	4	FIBSUMCSA	CSA
32	(20)	UNSIGNED	4	FIBSUMESQA	ESQA
36	(24)	UNSIGNED	4	FIBSUMECSA	ECSA
40	(28)	ADDRESS	4	FIBSUMCAUB	CAUB address

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	49208	FIBE	Fib Extension
0	(0)	CHARACTER	4	FIBEFIBE	Acronym
4	(4)	CHARACTER	4	FIBEFLAGS	Reserved Available
		1...		FIBEPREVIOUSPAGEALLOCATED	
		.1..		FIBELDABAD	
		..1.		FIBEFBQEBAD	
		...1		FIBESUBPOOLTABLEOVERFLOW	
		.... 1...		FIBESUBPOOLHDRPRINTED	
8	(8)	SIGNED	4	FIBECOUNT	Count of entries in Fibe
12	(C)	ADDRESS	4	FIBEALLOCABOVE	
					Current Subpool above
16	(10)	ADDRESS	4	FIBEALLOCBELOW	
					Current Subpool below
20	(14)	ADDRESS	4	FIBEALLOCANY	Current Subpool anywhere
24	(18)	ADDRESS	4	FIBELSQABOTTOM	
					Bottom of LSQA area which is a value calculated by finding an FBQE with an area corresponding to LDACRGTP. Add FBQEAREA + FBQESIZE for that FBQE. If no FBQE matches the value is = LDACRGTP
28	(1C)	ADDRESS	4	FIBEELSQABOTTOM	
					Bottom of ELSQA area which is a value calculated by finding an FBQE with an area corresponding to LDAERGTP. Add FBQEAREA + FBQESIZE for that FBQE. If no FBQE matches the value is = LDAERGTP
32	(20)	ADDRESS	4	FIBETARGETFBQEAREA	

FIB Constants

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					Address for IGVERD to Find the FBQE that matches and return the SIZE in the FibeTargetFbqeSize
36	(24)	ADDRESS	4	FIBETARGETFBQESIZE	
					Value for IGVERD to return the FBQESIZE for a given FibeTargetFbqeArea
40	(28)	CHARACTER	3	FIBECURRENTSPN	
					Current Subpool Number
43	(2B)	CHARACTER	2	FIBECURRENTKEY	
					Current Subpool Key number
45	(2D)	CHARACTER	8	FIBECURRENTTCB	
					Current TCB address
53	(35)	CHARACTER	3	*	Reserved available
56	(38)	CHARACTER	24	FIBEENTRY (2048)	
56	(38)	ADDRESS	4	FIBETCB	Pointer To Tcb Owner Binary
60	(3C)	CHARACTER	6	FIBESPNSPKY	Used to reference both SP & KEY
60	(3C)	CHARACTER	3	FIBESPN	Character Subpool Number
63	(3F)	CHARACTER	1	*	Reserved available
64	(40)	CHARACTER	2	FIBESPKY	Character Storage Key
66	(42)	CHARACTER	2	*	Reserved available
68	(44)	ADDRESS	4	FIBEALLOCB	Below allocated to Subpool
72	(48)	ADDRESS	4	FIBEALLOCA	Above allocated to Subpool
76	(4C)	ADDRESS	4	FIBEALLOC	Total allocated to Subpool

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	44	FIBDET	Mapping of DETAIL table
0	(0)	BITSTRING	2	FIBDETASID	ASID
2	(2)	CHARACTER	8	FIBDETJOBNAME	
					JobName
10	(A)	CHARACTER	8	FIBDETID	Id
18	(12)	CHARACTER	2	FIBDETSTATUS	Status
20	(14)	ADDRESS	4	FIBDETADDR	Address of Getmain
24	(18)	UNSIGNED	4	FIBDETLEN	Length of Getmain
28	(1C)	ADDRESS	4	FIBDETRET	Return address
28	(1C)	BITSTRING	3	*	
31	(1F)	1		FIBDETCSA	1 => CSA, 0 => SQA
32	(20)	UNSIGNED	4	FIBDETTIMEDATE	
					Time stamp
36	(24)	ADDRESS	4	FIBDETCAUB	CAUB address
40	(28)	ADDRESS	4	FIBDETDBG	GQE address

FIB Constants

Len	Type	Value	Name	Description
1	DECIMAL	0	FIBEFORMATNOOPTIONS	
1	DECIMAL	1	FIBEFORMATNOLEADINGZERO	
1	DECIMAL	3	FIBEFORMATUNPRINT	
4	DECIMAL	2048	FIBEMAXC	Maximum number of Fibe Entries
4	CHARACTER	FIBE	FIBEACRO	Acronym

Comment

Area prefix string

End of Comment

10	CHARACTER		FIBEAREAPREFIX	
1	BIT	01111011	FIBPSF1COMMONPARMS	
				Parameters which are common to CONTROLBLOCKS and and OWNCOMM
2	BIT	0011111111111111	FIBMASKSUMM	Masks the OWNCOMM and SUMMARY flags in OWNCOMM parameters

Len	Type	Value	Name	Description
2	BIT	1001111111111111	FIBMASKCBSDETSUM	Masks DETAIL/SUMMARY bits allowed with Controlblocks

FIB Cross Reference

Name	Hex Offset	Hex Value
FIB	0	
FIBABDPL	0	
FIBACRO	2C	
FIBADDR	2A	01
FIBAE	1E	20
FIBALL	28	80
FIBALLOC	10	
FIBALLOCBYAREA	68	
FIBALLOCGT16M	68	
FIBALLOCLT16M	6C	
FIBASADR	2A	02
FIBASCB	1D	40
FIBASIDL	28	04
FIBASL	20	
FIBASL_LEN	24	
FIBASLEN	2A	04
FIBASSB	1F	40
FIBASXB	1E	80
FIBBLOCK	8	
FIBCAUB	1E	04
FIBCBS	29	80
FIBCONT	2B	20
FIBCONTN	2B	08
FIBCONTY	2B	10
FIBCSA	30	40
FIBCUR	28	40
FIBDET	0	
FIBDETADDR	14	
FIBDETASID	0	
FIBDETCAUB	24	
FIBDETCSA	1F	01
FIBDETDBG	28	
FIBDETID	A	
FIBDETJOBNAME	2	
FIBDETL	2A	20
FIBDETLEN	18	
FIBDETRET	1C	
FIBDETSTATUS	12	
FIBDETTIMEDATE	20	
FIBDUMP	4	
FIBE	0	
FIBEALLOC	4C	
FIBEALLOCA	48	
FIBEALLOCABOVE	C	
FIBEALLOCANY	14	
FIBEALLOCB	44	
FIBEALLOCBELOW	10	
FIBECOUNT	8	
FIBECURRENTKEY	2B	
FIBECURRENTSPN	28	
FIBECURRENTTCB	2D	
FIBEELSQABOTTOM	1C	
FIBEENTRY	38	
FIBEFBQEBAD	4	20
FIBEFIBE	0	
FIBEFLAGS	4	
FIBELDABAD	4	40
FIBELSQABOTTOM	18	
FIBEND	78	
FIBEPREVIOUSPAGEALLOCATED	4	80
FIBERR	28	20
FIBERROR	18	
FIBESPKY	40	
FIBESPN	3C	
FIBESPNSPKY	3C	
FIBESRD	1D	02
FIBESUBPOOLHDRPRINTED	4	08
FIBESUBPOOLTABLEOVERFLOW	4	10
FIBETARGETFBQEAREA	20	
FIBETARGETFBQESIZE	24	
FIBETCB	38	
FIBEVRD	1D	04
FIBFIBEP	74	
FIBFLAGS	1C	
FIBFMTPT	14	
FIBFVSWK	1C	20
FIBGDA	1C	80
FIBGDA@	70	
FIBGDEFR	1C	02
FIBGLOB	29	40
FIBGQAT	1E	01
FIBGQATITBL	1E	02
FIBGQE	1F	80
FIBGRANDTACTIVE	44	
FIBGRANDTACTIVECSA	44	
FIBGRANDTACTIVEECSA	4C	
FIBGRANDTACTIVEESQA	50	
FIBGRANDTACTIVESQA	48	
FIBGRANDTOWNGONE	54	
FIBGRANDTOWNGONECSA	54	

FIB Cross Reference

Name	Hex Offset	Hex Value
FIBGRANDTOWNGONEECSA	5C	
FIBGRANDTOWNGONEESQA	60	
FIBGRANDTOWNGONESQA	58	
FIBGVSMP	1C	08
FIBJOBL	28	08
FIBKEYS	28	
FIBLDA	1D	20
FIBLDEFR	1D	01
FIBLEN	2B	80
FIBLVSMP	1D	08
FIBLVSWK	1D	10
FIBMODEL	14	
FIBNOAS	29	10
FIBNOGLB	29	20
FIBOWNC	2A	80
FIBPARF	30	
FIBPDRPTR	64	
FIBPSAI	34	
FIBPSEL	20	
FIBPSF1	28	
FIBPSF2	29	
FIBPSF3	2A	
FIBPVSWK	1C	10
FIBRGR	1C	01
FIBSCAN	C	
FIBSORT	2A	08
FIBSPQA	1E	08
FIBSPQE	1E	10
FIBSPQX	1F	08
FIBSPT	1C	04
FIBSPTT	1C	40
FIBSQA	30	20
FIBSTXER	30	80
FIBSUM	0	
FIBSUMASID	0	
FIBSUMCAUB	28	
FIBSUMCSA	1C	
FIBSUMECSA	24	
FIBSUMESQA	20	
FIBSUMID	A	
FIBSUMJOBNAME	2	
FIBSUMM	2A	40
FIBSUMSQA	18	
FIBSUMSTATUS	12	
FIBSUMTOTAL	14	
FIBSYS	2A	10
FIBTABLEINDEX	40	
FIBTABLEPTR	38	
FIBTABLESIZE	3C	
FIBTCB	1E	40
FIBTERR	28	10
FIBTIME	2B	40
FIBVAB	1F	20
FIBVSMXT	1F	10

FIX Heading Information

Common Name: TCCW Translator Fix List
Macro ID: IECDFIX
DSECT Name: FIX
Owning Component: Execute Channel Program Processor (SC1C6)
Eye-Catcher ID: None
Subpool and Key: 226 and key 0 (Residence - below 16M line)
Size: 16 bytes
Created by: Callers of the CCW translation module, IECVTCCW
Pointed to by: TCCWFIX field of the TCCW data area
FIXCHAIN field of the FIX data area
Serialization: Local lock
Function: Contains the fix list that is build by the TCCW translator in page fixing the data areas associated with a callers virtual channel program. This fix list is used to unfix the data areas upon completion of the channel program.

FIX Map

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	FIX	
0	(0)	ADDRESS	4	FIXCHAIN	Fix block chain pointer
4	(4)	ADDRESS	4	FIXECB	Fix list ECB used for page fixing

Comment

Each Fix list entry layout is 8 bytes in length.

End of Comment

8	(8)	ADDRESS	4	FIXLSTST	Start address of area to be fixed
		1...		FIXCONT	"X'80'" Fix list continuation flag
12	(C)	ADDRESS	4	FIXLSTEN	End address of area to be fixed
		1...		LASTENT	"X'80'" Last fix entry flag

Comment

Fix list equates

End of Comment

12	(C)	X'8'	0	FIXHL	"FIXLSTST-FIX" Header length
12	(C)	X'8'	0	FIXEL	"FIXLSTEN+L'FIXLSTEN-FIXLSTST" Fix list entry length
12	(C)	X'13'	0	FIXNE	"19" Number of fix list entries- 160 byte block caller
12	(C)	X'1E'	0	FIXNEL	"30" Number of fix list entries- 248 byte block caller
12	(C)	X'A0'	0	FIXBL	"FIXHL+FIXEL*FIXNE" Size of fix list block

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FIX Cross Reference

Name	Hex Offset	Hex Value
FIX	0	
FIXBL	C	A0
FIXCHAIN	0	
FIXCONT	8	80
FIXECB	4	
FIXEL	C	8
FIXHL	C	8
FIXLSTEN	C	
FIXLSTST	8	
FIXNE	C	13
FIXNEL	C	1E
LASTENT	C	80

FMLE Heading Information

Common Name: FASTID Map List Entry
Macro ID: IHAFMLE
DSECT Name: FMLE
Owning Component: Data-in-virtual (SCDIV)
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: Caller's current address space
Size: 16 bytes
Created by: User of FASTID macro
Pointed to by: N/A
Serialization: None
Function: FMLE is a mapping of an entry in a FASTID Maplist which is a parameter passed to the FASTID macro.

FMLE Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	16	FMLE	FASTID MAP LIST ENTRY
0	(0)	ADDRESS	4	FMLAREA	ADDRESS OF VIRTUAL AREA
4	(4)	UNSIGNED	4	FMLOFFST	BLOCK OFFSET
8	(8)	UNSIGNED	4	FMLSPAN	SPAN VALUE
12	(C)	UNSIGNED	1	FMLPFCNT	PAGE FAULT COUNT
13	(D)	CHARACTER	3	*	RESERVED - MUST BE ZERO

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FMTB Heading Information

Common Name: Component Trace format table
Macro ID: ITTFMTB
DSECT Name: FMTB
Owning Component: Component Trace (SCTRC)
Eye-Catcher ID: FMTB
Offset: 0
Length: 4
Storage Attributes: Virtual Storage: Private storage in IPCS users address space
Subpool: 1
Key: 8
Size: 128 byte header
plus up to 128 65,535 byte entries
Created by: CTRACE user
Pointed to by: Must reside in a load library available to IPCS.
Used by the CTRACE subcommand processor to format trace entries.
Serialization: None
Function: ITTFMTB allows the user to generate a component trace format table or a mapping of the format table. A keyword indicates the function to be performed:
MAP Defines the mapping for a format table.
TABLEDATA Begins a definition of an initialized format table and supplies that information that appears once in the table.
EVENTDATA Defines the data associated with a single event in an initialized format table. One macro should be provided for each event that may be recorded in a component trace table.
As many as 65,535 ITTFMTB EVENTDATA macros can be specified in a format table. (This limit is derived from the halfword dimension field in the header of the table and is not enforced by the macro.)
TABLEEND Ends the definition of an initialized format table.

FMTB Map

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

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FMTB Cross Reference

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	FMTB	, FORMAT TABLE MAP
0	(0)	SIGNED	4	(0)	ALIGNED ON FULLWORD BOUNDARY
0	(0)	BITSTRING	128	FMTBHDR (0)	FORMAT TABLE HEADER
0	(0)	CHARACTER	5	FMTBID	IDENTIFIER STRING AND LEVEL
5	(5)	BITSTRING	3	FMTBFL	RESERVED
8	(8)	ADDRESS	2	FMTBENT	NUMBER OF FORMAT ENTRIES
10	(A)	ADDRESS	2	FMTBENTS	SIZE OF A FORMAT ENTRY
12	(C)	CHARACTER	8	FMTBFILX (0)	NAME OF COMPONENT FILTER EXIT
12	(C)	SIGNED	4	FMTBFIL0	ZERO IF FILTER EXIT ADDRESS SPECIFIED
16	(10)	ADDRESS	4	FMTBFILA	ADDRESS OF FILTER EXIT
20	(14)	CHARACTER	8	FMTBLOCX (0)	NAME OF COMPONENT LOCATE BUFFER EXIT
20	(14)	SIGNED	4	FMTBLOC0	ZERO IF LOCATE BUFFER EXIT ADDRESS SPECIFIED
24	(18)	ADDRESS	4	FMTBLOCA	ADDRESS OF LOCATE BUFFER EXIT
28	(1C)	ADDRESS	2	FMTBELNG	LENGTH OF TRACE ENTRIES
30	(1E)	BITSTRING	98		RESERVED
128	(80)	BITSTRING	96	FMTBNTRY (0)	FORMAT TABLE ENTRY
128	(80)	BITSTRING	4	FMTBFMID	ENTRY IDENTIFIER
132	(84)	CHARACTER	8	FMTBFORM (0)	FORMATTER NAME
132	(84)	SIGNED	4	FMTBFOR0	ZERO IF FORMAT EXIT ADDRESS SPECIFIED
136	(88)	ADDRESS	4	FMTBFORA	ADDRESS OF FORMAT EXIT
140	(8C)	CHARACTER	8	FMTBMODL (0)	MODEL NAME
140	(8C)	SIGNED	4	FMTBMOD0	ZERO IF MODEL ADDRESS SPECIFIED
144	(90)	ADDRESS	4	FMTBMODA	ADDRESS OF MODEL
148	(94)	CHARACTER	8	FMTBMNEM	MNEMONIC FOR TRACE ENTRY
156	(9C)	BITSTRING	2	FMTBFLGS (0)	FORMAT CONTROL FLAGS
156	(9C)	BITSTRING	1	FMTBFLG1	FORMAT CONTROL FLAGS
		1...		FMTBEXCP	"BIT0" TRACE ENTRY IS EXCEPTIONAL
157	(9D)	BITSTRING	1		RESERVED
158	(9E)	CHARACTER	32	FMTBDESC	TRACE ENTRY DESCRIPTION
190	(BE)	BITSTRING	2	FMTBSMVW	SUMMARY VIEW DEFINITION
192	(C0)	BITSTRING	2	FMTBFLVW	FULL VIEW DEFINITION
194	(C2)	ADDRESS	2	FMTBASOF (5)	OFFSETS INTO TRACE ENTRY FOR ASIDS
204	(CC)	ADDRESS	2	FMTBJOBO (5)	OFFSETS INTO TRACE ENTRY FOR JOB NAMES
214	(D6)	ADDRESS	2	FMTBCOMD	COMPONENT DATA
216	(D8)	BITSTRING	8		RESERVED

FMTB Cross Reference

Name	Hex Offset	Hex Value
BIT0	0	80
BIT1	0	40
BIT2	0	20
BIT3	0	10
BIT4	0	8
BIT5	0	4
BIT6	0	2
BIT7	0	1
FMTB	0	
FMTBASOF	C2	
FMTBCOMD	D6	
FMTBDESC	9E	
FMTBELNG	1C	
FMTBENT	8	
FMTBENTS	A	
FMTBEXCP	9C	80
FMTBFILA	10	
FMTBFILX	C	
FMTBFIL0	C	
FMTBFL	5	
FMTBFLGS	9C	
FMTBFLG1	9C	
FMTBFLVW	C0	
FMTBFMID	80	
FMTBFORA	88	
FMTBFORM	84	
FMTBFOR0	84	
FMTBHDR	0	
FMTBID	0	
FMTBJOBO	CC	
FMTBLOCA	18	
FMTBLOCX	14	
FMTBLOC0	14	
FMTBMNEM	94	
FMTBMODA	90	
FMTBMODL	8C	
FMTBMOD0	8C	
FMTBNTRY	80	
FMTBSMVW	BE	

FQE Heading Information

Common Name: VSM Free Queue Element
Macro ID: IHAFQE
DSECT Name: FQE
Owning Component: Virtual Storage Manager (SC1CH)
Eye-Catcher ID: None
Storage Attributes: Subpool: 245 or 255
Key: 0
Residency: Above 16M line
Size: 20 bytes
Created by: IGVGCSA, IGVGPVT, IGVGAPVT, IGVFSDQE
Pointed to by: DQEFFQE, DQELFQE, FQENEXT, FQEPREV
Serialization: VSMFIX lock for global subpools
LOCAL lock for private area subpools
Function: Describes CSA and Private Area free space within pages allocated to a subpool.

FQE Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	20	FQE	FREE QUEUE ELEMENT
0	(0)	ADDRESS	4	FQEAREA	ADDRESS OF FREE AREA
4	(4)	UNSIGNED	4	FQESIZE	SIZE OF FREE AREA
8	(8)	ADDRESS	4	FQENEXT	ADDRESS OF NEXT FQE
12	(C)	ADDRESS	4	FQEPREV	ADDRESS OF PREVIOUS FQE
16	(10)	ADDRESS	4	FQEDQE	ADDRESS OF CONTAINING DQE

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FRRS Programming Interface information

Programming Interface information

FRRS

INCLUDE ONLY

End of Programming Interface information

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FRRS Heading Information

Common Name: FUNCTION RECOVERY ROUTINE STACK
Macro ID: IHAFRRS
DSECT Name: FRRS, FRRSXSTK, FRRSENTR, FRRSXENT
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)
PSATSAV (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 FRRS

FRRS Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	FRRS	, FRRSPTR
0	(0)	CHARACTER	88	FRRSND (0)	NON-DYNAMIC PART OF FRRS
0	(0)	CHARACTER	16	FRRSHEAD (0)	THE HEADER OF THE FRR STACK
0	(0)	ADDRESS	4	FRRSEMP	ADDRESS WHICH INDICATES AN EMPTY STACK
4	(4)	ADDRESS	4	FRRSLAST	ADDRESS OF LAST ENTRY IN THE STACK
8	(8)	SIGNED	4	FRRSELEN	LENGTH OF EACH FRR ENTRY IN THE STACK
12	(C)	ADDRESS	4	FRRSCURR	ADDRESS OF CURRENT FRR ENTRY IN THE STACK
16	(10)	CHARACTER	24	FRRSRSA	SETFRR REG 14-3 SAVE AREA
40	(28)	CHARACTER	4	FRRSRTMW	RECURSION CONTROL DATA REMOVED FROM THE RT1W
44	(2C)	SIGNED	2	FRRSENTL	LENGTH OF ENTRIES FOR FRRSCOPY
46	(2E)	SIGNED	2	FRRSEXTL	LENGTH OF EXTENSIONS FOR FRRSCOPY
48	(30)	CHARACTER	8		RESERVED FOR FUTURE USE

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
56	(38)	ADDRESS	4	FRRSRTMA	RTM1 WORK AREA ADDRESS
60	(3C)	ADDRESS	4	FRRSXSTA	ADDRESS OF THE EXTENSIONS TO THE FRR ENTRIES (ACTUAL SIZE IS 16 TIME THE MAXIMUM NUMBER OF ENTRIES
64	(40)	CHARACTER	24	FRRSASA	SETFRR AR 14-3 SAVE AREA
88	(58)	CHARACTER	1	FRRSENTS	FRR ENTRIES IN STACK

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	FRRSXSTK	, FRRSXSTA THE FRR EXTENSIONS
0	(0)	CHARACTER	0		ACTUAL SIZE

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	FRRSENTR	, FRREPTR THE MAPPING OF A FRR ENTRY
0	(0)	ADDRESS	4	FRRSFRRA (0)	THE ADDRESS OF THE FRR
0	(0)	CHARACTER	3		HIGH ORDER 3 BYTES OF FRR ADDR
3	(3)	CHARACTER	1	FRRSFRA1	LOW ORDER BYTE OF FRR ADDRESS
		1		FRRSXFLG	"X'01'" FLAG INDICATING FRRSFLGS INITIALIZED WHEN SETFRR WAS ISSUED
4	(4)	CHARACTER	4	FRRSFLGS (0)	FLAGS USED BY RTM DURING FRR PROCESSING
4	(4)	BITSTRING	1	FRRSFLG1	RECURSION FLAGS USED BY RTM
		1...		FRRSRCUR	"X'80'" RECURSION FLAG USED WHEN GIVING CONTROL TO FRR AND WHEN RECEIVING CONTROL BACK FROM FRR
		.1..		FRRSNEST	"X'40'" FLAG INDICATING A NESTED FRR ENTRY
		..1.		FRRSNLCL	"X'20'" FLAG INDICATING THAT NESTED FRR IS A MODE=LOCAL FRR
		...1		FRRSNGLB	"X'10'" FLAG INDICATING THAT NESTED FRR IS A MODE=GLOBAL FRR
		.... 1...		FRRSNRTY	"X'08'" FRR RETRY INDICATOR. IF ON, FRR CANNOT RETRY
5	(5)	BITSTRING	1	FRRSFLG2	RESERVED
6	(6)	BITSTRING	1	FRRSFLG3	RESULT OF IAC INSTRUCTION FROM TIME OF SETFRR
7	(7)	BITSTRING	1	FRRSFLG4	FLAGS TO INDICATE OPTIONS CHOSEN WHEN THE SETFRR WAS ISSUED
		1...		FRRSEUT	"X'80'" ENABLED UNLOCKED TASK FRR (EUT=YES ON SETFRR)
		.1..		FRRSNCNL	"X'40'" CANCEL=NO REQUESTED, ROUTINE RUNS PROTECTED FROM CANCELS AND DETACHES
		.... 1...		FRRSFULL	"X'08'" MODE=FULLXM WAS SPEC ON SETFRR
		.... .1..		FRRSPRIM	"X'04'" MODE=PRIMARY SPEC ON SETFRR
		.... ..1.		FRRSLCL	"X'02'" MODE=LOCAL WAS SPEC ON SETFRR
		1		FRRSGLB	"X'01'" MODE=GLOBAL WAS SPEC ON SETFRR
8	(8)	CHARACTER	24	FRRSPARM	PARAMETER AREA PASSED TO FRR

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	FRRSXENT	,FRRXPTR THE MAPPING OF AN FRR ENTRY EXTENSION
0	(0)	CHARACTER	8	FRRSXM (0)	CROSS MEMORY INFORMATION WHEN SETFRR WAS ISSUED
0	(0)	CHARACTER	4	FRRSCR3 (0)	CONTROL REGISTER 3
0	(0)	CHARACTER	2	FRRSKM	KEY MASK
2	(2)	CHARACTER	2	FRRSSAS	SASID
4	(4)	CHARACTER	4	FRRSCR4 (0)	CONTROL REGISTER 4
4	(4)	CHARACTER	2	FRRSAX	AUTHORIZATION INDEX
6	(6)	CHARACTER	2	FRRSPAS	PASID
8	(8)	ADDRESS	4	FRREAX	EAX VALUE AT SETFRR
12	(C)	ADDRESS	4	FRRLS	LINKAGE STACK AT SETFRR

FRRS Cross Reference

Name	Hex Offset	Hex Value
FRREAX	8	
FRRLS	C	
FRRS	0	
FRRSASA	40	
FRRSAX	4	
FRRSCR3	0	
FRRSCR4	4	
FRRSCURR	C	
FRRSELEN	8	
FRRSEMP	0	
FRRSENTL	2C	
FRRSENTR	0	
FRRSENTS	58	
FRRSEUT	7	80
FRRSEXTL	2E	
FRRSFLGS	4	
FRRSFLG1	4	
FRRSFLG2	5	
FRRSFLG3	6	
FRRSFLG4	7	
FRRSFRA1	3	
FRRSFRRA	0	
FRRSFULL	7	8
FRRSGLB	7	1
FRRSHEAD	0	
FRRSKM	0	
FRRSLAST	4	
FRRSLCL	7	2
FRRSNCNL	7	40
FRRSND	0	
FRRSNEST	4	40
FRRSNGLB	4	10
FRRSNLCL	4	20
FRRSNRTY	4	8
FRRSPARM	8	
FRRSPAS	6	
FRRSPRIM	7	4
FRRSRCUR	4	80
FRRSRSA	10	
FRRSRTMA	38	
FRRSRTMW	28	
FRRSSAS	2	
FRRSXENT	0	
FRRSXFLG	3	1
FRRSXM	0	
FRRSXSTA	3C	
FRRSXSTK	0	

FSIP Programming Interface information

Programming Interface information

FSIP

End of Programming Interface information

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FSIP Heading Information

Common Name: Common Fixed Length Parameter List
Macro ID: IAZFSIP
DSECT Name: IAZFSIP
Owning Component: JES2 (SC141)
Eye-Catcher ID: None
Storage Attributes: Subpool: 230
Key: 1
Residency: During FSS/FSA Connect processing, virtual storage is anywhere if the FSS supports AMODE 31; otherwise, it is below 16M. During FSS/FSA Disconnect processing, virtual storage is below 16M. Real storage is anywhere. Storage is in the FSS address space during normal FSS/FSA Connect/Disconnect processing. During abnormal FSS/FSA Disconnect processing in job termination, storage is in the User address space.
Size: See FSILEN
Created by: Issuers of FSIREQ
Pointed to by: FSXBFSIP field of the $FSSXB data area.
FAXBFSIP field of the $FSAXB data area.
FAXBPOST field of the $FSAXB data area.
TTEFSIOA field of the $TTE data area.
Serialization: None required
Function: Input parameter list for FSIREQ functions.

FSIP Map

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	IAZFSIP	
0	(0)	SIGNED	4	FSIPARM (0)	FSI PARAMETER LIST
0	(0)	SIGNED	4	FSILEN	LENGTH OF CONTIGUOUS FSI PARAMETER LIST
4	(4)	SIGNED	4	FSIFUNC	FUNCTION ID NUMBER
4	(4)	X'1'	0	FSIORDER	"1" ORDER FUNCTION NUMBER
4	(4)	X'2'	0	FSIPOST	"2" POST FUNCTION NUMBER
4	(4)	X'3'	0	FSIGDS	"3" GETDS FUNCTION NUMBER
4	(4)	X'4'	0	FSIGREC	"4" GETREC FUNCTION NUMBER
4	(4)	X'5'	0	FSIFREC	"5" FREEREC FUNCTION NUMBER
4	(4)	X'6'	0	FSIRDS	"6" RELDS FUNCTION NUMBER
4	(4)	X'7'	0	FSICKPT	"7" CHKPT FUNCTION NUMBER
4	(4)	X'8'	0	FSISEND	"8" SEND FUNCTION NUMBER
4	(4)	X'8'	0	FSIMAXFN	"8" MAXIMUM FUNCTION NUMBER
4	(4)	X'FE'	0	FSICON	"254" CONNECT FUNCTION NUMBER
4	(4)	X'FF'	0	FSIDCON	"255" DISCONNECT FUNCTION NUMBER
8	(8)	SIGNED	4	FSIFSID (0)	FSS/FSA IDENTIFIER
8	(8)	SIGNED	2	FSIFSSID	FSS PART OF FSID
10	(A)	SIGNED	2	FSIFSAID	FSA PART OF FSID
12	(C)	SIGNED	4	FSIRESN	REASON CODE FOR FUNCTION FAILURE
16	(10)	ADDRESS	4	FSITEXT	Ptr to user specified data
20	(14)	ADDRESS	4	FSIPEXT	ADDRESS OF EXTENSION AREA
24	(18)	SIGNED	4	FSIFEND (0)	ORG POINT FOR FUNCT DEPENDENT AREAS
24	(18)	X'18'	0	FSIFSIZ	"*-FSIPARM" FSI HEADER LENGTH

Comment

CONNECT/DISCONNECT FUNCTION DEPENDENT AREA

End of Comment

24	(18)	X'18'	0	CDFPARM	"*" CONNECT/DISCON FUNC DPNDT AREA
24	(18)	X'35'	0	CDFSSIID	"53" CONNECT/DISCON SSI REQ (SSOBFUNC)
24	(18)	ADDRESS	1	CDFFLGR1	REQUEST FLAG BYTES

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
		1...		CDFNORM	"B'10000000'" SPECIFIES NORMAL DISCONNECT
		.1..		CDFABNOR	"B'01000000'" SPECIFIES ABNORMAL DISCONNECT
25	(19)	ADDRESS	1	CDFFLGR2	FUNCTIONS WHICH INVOLVE OP. INTER. SAME AS ORDIVF1 BIT DEFINITIONS
		1...		CDFFL2BT	"B'10000000'" BTS INTERVENTION
		.1..		CDFFL2FL	"B'01000000'" FLASH INTERVENTION
		..1.		CDFFL2FO	"B'00100000'" FORMS INTERVENTION
		...1		CDFFL2CF	"B'00010000'" CONTINUOUS FORMS
26	(1A)	ADDRESS	1	CDFTOKEN	RESERVED FOR JES
27	(1B)	ADDRESS	1	CDFFLGR3	FUNCTIONS SUPPORTED BY THE FSS
		1...		CDFFL3MS	"B'10000000'" EXTENDED MESSAGE ROUTING IS SUPPORTED
		.1..		CDFFL331	"B'01000000'" AMODE 31 is supported
		..1.		CDFFL34D	"B'00100000'" 4-Digit Device Numbers

Comment

THE FOLLOWING THREE BITS ARE MUTUALLY EXCLUSIVE OF
EACH OTHER. IF NONE IS SPECIFIED, IT IS ASSUMED AS
IF CDF3NOIP IS SPECIFIED.

End of Comment

		...1		CDF3IP	"B'00010000'" IP-ADDRESS IS SUPPORTED
		.... 1...		CDF3NOIP	"B'00001000'" IP-ADDR NOT SUPPORTED
		.... .1..		CDF3BOTH	"B'00000100'" BOTH IP & NON-IP
28	(1C)	ADDRESS	4	CDFSTOR	ADDRESS OF CONTIGUOUS SSOB/SSIB PAIR
		1...		CDFSTORH	"X'80'" HIGH ORDER BIT OF STOR FOR SSI
32	(20)	SIGNED	4	CDFFDATA	VALUE RETURNED ON POST AND ORDER
36	(24)	SIGNED	4	CDFIDNO	NUMBER OF ID PAIRS IN CDFIDNA AREA
40	(28)	ADDRESS	4	CDFIDNA	ADDRESS OF THE FSS/FSA ROUTINE IDS AND THEIR RESPECTIVE ADDRESSES
44	(2C)	CHARACTER	4	CDFSSID	NAME OF THE JES TO BE CONNECTED
48	(30)	ADDRESS	4	CDFEXTN	RESERVED POINTER
52	(34)	ADDRESS	1	CDFFLGS1	FUNCTIONS SUPPORTED BY JES
		1...		CDFS1INT	"B'10000000'" JES SUPPORTS FSA UNSOLICITED SENDS FOR INTERVENTION CONDITIONS
		.1..		CDFS1ETE	"B'01000000'" EXTENDED JES SUPPORT FOR ENVIRONMENTAL TYPE ERRORS
		..1.		CDFS1A31	"B'00100000'" JES Supports AMODE 31
		...1		CDFS1ESS	"B'00010000'" JES Supports ESS keywords
		.... 1...		CDFS14DG	"B'00001000'" JES Supports 4-Digit Device Numbers
		.... .1..		CDFS1DNR	"B'00000100'" Jes Supports Device Not Responding Conditions
		.... ..1.		CDFS1EXT	"B'00000010'" JES supports extended send types
53	(35)	ADDRESS	3		RESERVED
56	(38)	SIGNED	4	(2)	RESERVED
64	(40)	SIGNED	4	(0)	BOUNDARY ALIGNMENT
64	(40)	X'28'	0	CDFSIZ	"*-CDFPARM" CONNECT/DISCONNECT AREA LENGTH
64	(40)	X'40'	0	CDFSIZ1	"CDFSIZ+FSIFSIZ"

Comment

CONNECT IDENTIFIER AND ROUTINE ADDRESS AREA.
THIS AREA CONSISTS OF PAIRS OF FUNCTION IDS
CORRESPONDING ROUTINE ADDRESSES. THE ID-ADDRESS
PAIR CAN BE IN ANY ORDER. THE NUMBER OF PAIRS
IS SPECIFIED IN CDFIDNO.

End of Comment

64	(40)	SIGNED	4	CDFPAIRS (0)	ID/ADDRESS PAIRS
64	(40)	SIGNED	4	CDFID	FUNCTION ID OF 1ST ADDRESS
68	(44)	ADDRESS	4	CDFAD	ADDRESS OF 1ST ID
72	(48)	SIGNED	4	(0)	BOUNDARY ALIGNMENT

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
72	(48)	X'8'	0	CDFIDSZ	"*-CDFID" CDFIDS AREA LENGTH

Comment

CONNECT/DISCONNECT FUNCTION RETURN CODE DEFINITIONS
NOTE: THESE ARE DEFINED HERE FOR SP 1.3.3 COMPATABILITY,
REFER TO JES DOCUMENTATION/LISTINGS FOR FURTHER DEFINITIONS

End of Comment

72	(48)	X'4'	0	CDFIFC	"4" INVALID FUNCTION CODE
72	(48)	X'8'	0	CDFIFSID	"8" INVALID FSS ID
72	(48)	X'C'	0	CDFIFAID	"12" INVALID FSA ID
72	(48)	X'10'	0	CDFIGM	"16" GETMAIN FAILURE
72	(48)	X'14'	0	CDFICN	"20" FSA CONNECT BEFORE FSS CONNECT
72	(48)	X'18'	0	CDFICNFA	"24" FSA NOT/ALREADY CONNECTED
72	(48)	X'1C'	0	CDFICNFS	"28" FSS NOT/ALREADY CONNECTED
72	(48)	X'20'	0	CDFIFREE	"32" FREEMAIN FAILURE
72	(48)	X'24'	0	CDFILOAD	"36" LOAD ERROR

Comment

STANDARD BASE SECTION OF ORDER FUNCTION DEPENDENT AREA

End of Comment

24	(18)	X'18'	0	ORDPARM	"*" ORDER FUNCTION DEPENDENT AREA
24	(18)	ADDRESS	1	ORDFLGS1	STATUS FLAG BYTE
		1...		ORDSRESP	"B'10000000'" RESPONSE IS ORDRSPAD NOW
		.1..		ORDARESP	"B'01000000'" RESPONSE WILL RETURN LATER
25	(19)	ADDRESS	3		RESERVED
28	(1C)	ADDRESS	4	ORDFDATA	RETURNED DATA SPECIFIED ON CONNECT
32	(20)	ADDRESS	4	ORDRSPAD	RESPONSE AREA ADDRESS
36	(24)	SIGNED	2	ORDID	HOLDS THE ORDER NUMBER (ID)
36	(24)	X'4'	0	ORDSPFSS	"4" STOP FSS ORDER ID
36	(24)	X'8'	0	ORDSTFSA	"8" START FSA ORDER ID
36	(24)	X'C'	0	ORDSPFSA	"12" STOP FSA ORDER ID
36	(24)	X'10'	0	ORDSTDEV	"16" START DEVICE ORDER ID
36	(24)	X'14'	0	ORDSPDEV	"20" STOP DEVICE ORDER ID
36	(24)	X'18'	0	ORDQUERY	"24" QUERY ORDER ID
36	(24)	X'1C'	0	ORDSET	"28" SET ORDER ID
36	(24)	X'20'	0	ORDSYNC	"32" SYNC ORDER ID
36	(24)	X'24'	0	ORDINTV	"36" INTERVENTION ORDER ID
38	(26)	SIGNED	2		RESERVED
40	(28)	SIGNED	4		RESERVED
44	(2C)	SIGNED	4	ORDBEND (0)	ORG POINT FOR ORDDATA
44	(2C)	X'14'	0	ORDBSIZ	"*-ORDPARM" ORDER AREA LENGTH
44	(2C)	X'2C'	0	ORDBSIZ1	"ORDBSIZ+FSIFSIZ"

Comment

ORDER DATA ASSOCIATED WITH 'START/STOP DEVICE/FSA/FSS' ORDER

End of Comment

44	(2C)	X'2C'	0	ORDSS	"*" DATA FOR START/STOP ORDERS
44	(2C)	ADDRESS	4	ORDSSSP	POINTER TO START/STOP PARMS
48	(30)	ADDRESS	1	ORDSSF1	FLAG BYTE (REQUEST TYPE)
		1...		ORDSSNO	"B'10000000'" NORMAL TERMINATION REQUESTED
		.1..		ORDSSAB	"B'01000000'" ABNORMAL TERMINATION REQUESTED
		.... 1...		ORDSSDU	"B'00001000'" DUMP REQUESTED ON STOP
49	(31)	ADDRESS	1		RESERVED
50	(32)	SIGNED	2	ORDSSMX	MAX NUMBER OF FSAS PER FSS
52	(34)	SIGNED	4	ORDSSID (0)	FSA IDENTIFIER TO START/STOP
52	(34)	SIGNED	2	ORDSSSI	FSS PART OF THE ID
54	(36)	SIGNED	2	ORDSSAI	FSA PART OF THE ID
56	(38)	CHARACTER	4	ORDSSAD4	Dev Addr in 4-digit format

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
56	(38)	X'38'	0	ORDSSAD	"ORDSSAD4,3" Dev Addr in 3-digit format
60	(3C)	CHARACTER	8	ORDSSNA	DEV NAME IN PRINTABLE FORM
68	(44)	ADDRESS	4	ORDSSXT	RESERVED POINTER
72	(48)	ADDRESS	4	ORDSSSP2	POINTER TO MESSAGE ROUTING AREA FOR FSA RELATED MESSAGES.
76	(4C)	SIGNED	4	(2)	RESERVED
84	(54)	SIGNED	4	ORDSSEND (0)	START/STOP MAIN PARM LIST END
84	(54)	X'28'	0	ORDSSSZ	"*-ORDSS" VARIABLE ORDER DATA SIZE
84	(54)	X'54'	0	ORDSSSZ1	"ORDSSSZ+ORDBSIZ+FSIFSIZ" SIZE OF ST/STOP PARMS

Comment

DEVICE INITIALIZATION PARMS ASSOCIATED WITH START FSA
THE DEVICE INITIALIZATION PARMS SHOULD NOT BE
ASSUMED TO BE CONTIGUOUS WITH THE CONTIGUOUS
HEADER, BASE, AND ORDER DEPENDENT SECTIONS OF
THE START FSA ORDER PARAMETER LIST. FOR THIS
REASON, WHEN ACCESSING THIS AREA THE FIELD
ORDSSSP SHOULD BE USED TO OBTAIN ITS LOCATION
THE LENGTH OF THIS AREA IS NOT INCLUDED IN FSILEN

End of Comment

84	(54)	X'54'	0	ORDSSP1	"*" INIT PARMS AREA FOR START FSA
84	(54)	ADDRESS	1	ORDSSPF1	FLAG BYTE 1 (INITIAL SETTINGS)
		1...		ORDSSS1	"B'10000000'" INITIALIZE SINGLE SPACING
		.1..		ORDSSS2	"B'01000000'" INITIALIZE DOUBLE SPACING
		..1.		ORDSSS3	"B'00100000'" INITIALIZE TRIPLE SPACING
		...1		ORDSSSR	"B'00010000'" INIT. DS SPECIFIED SPACING
85	(55)	ADDRESS	1	ORDSSPF2	FLAG BYTE 2 (INITIAL SETTINGS)
		1...		ORDSSKP	"B'10000000'" INITIALIZE PAGE CKPT INTV
		.1..		ORDSSKT	"B'01000000'" INITIALIZE TIME CKPT INTV
		..1.		ORDSSKN	"B'00100000'" INITIALIZE CKPT DISABLED
86	(56)	ADDRESS	1	ORDSSPF3	FLAG BYTE 3 (INITIAL SETTINGS)
		1...		ORDSSDN	"B'10000000'" INIT. NPRO TIMER DISABLED
		.1..		ORDSSIN	"B'01000000'" INIT. NPRO TIMER VALUE
87	(57)	ADDRESS	1		RESERVED
88	(58)	SIGNED	4	ORDSSKI	INITIAL CHECKPOINT INTERVAL
92	(5C)	SIGNED	4	ORDSSNI	INITIAL NPRO TIME INTERVAL
96	(60)	SIGNED	4	ORDSSND1 (0)	DEVICE INIT PARMS END
96	(60)	X'C'	0	ORDSSPZ	"*-ORDSSP1" SIZE OF SUB-PARM AREA
96	(60)	X'60'	0	ORDSSPZ1	"ORDSSPZ+ORDSSSZ1" SIZE OF START FSA + SUB-PARAMETERS

Comment

MESSAGE ROUTING INFORMATION FOR FSA RELATED MESSAGES
THE MESSAGE ROUTING AREA SHOULD NOT BE ASSUMED
TO BE CONTIGUOUS WITH THE START FSA PARAMETER
LIST OR DEVICE INITIALIZATION PARMS. FOR THIS
REASON, WHEN ACCESSING THIS AREA THE FIELD
ORDSSSP2 SHOULD BE USED TO OBTAIN ITS LOCATION
THE LENGTH OF THIS AREA IS NOT INCLUDED IN FSILEN

End of Comment

96	(60)	X'60'	0	ORDSS2	"*" MESSAGE PARMS AREA FOR START FSA
96	(60)	SIGNED	2	ORDSS2LN	LENGTH OF THIS AREA
98	(62)	BITSTRING	1	ORDSS2FL	MESSAGE ROUTING FLAG
		1...		ORDSS2CS	"B'10000000'" CONSOLE ID SPECIFIED
99	(63)	BITSTRING	1		RESERVED
100	(64)	CHARACTER	16	ORDSS2RC	MCS ROUTING CODE MASK FOR FSA RELATED MESSAGES
116	(74)	SIGNED	4	ORDSS2CN	CONSOLE ID IN WTO FORMAT FOR FSA RELATED MESSAGES
120	(78)	SIGNED	4	(3)	RESERVED

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
132	(84)	SIGNED	4	ORDSSND2 (0)	END OF SECTION
132	(84)	X'24'	0	ORDSS2PZ	"*-ORDSS2" SIZE OF SUB-PARM AREA
132	(84)	X'84'	0	ORDSS2Z2	"ORDSS2PZ+ORDSSPZ1" SIZE OF START FSA + DEV. INIT + MESSAGE ROUTING PARMS

Comment

ORDER DATA ASSOCIATED WITH THE 'SET' ORDER

End of Comment

44	(2C)	X'2C'	0	ORDST	"*" DATA FOR SET ORDER
44	(2C)	ADDRESS	1	ORDSTR1	REQUEST FLAG BYTE
		1...		ORDSTSN	"B'10000000'" SET NPRO INTERVAL
		.1..		ORDSTDN	"B'01000000'" DISABLE NPRO TIMER
45	(2D)	ADDRESS	3		RESERVED
48	(30)	SIGNED	4	ORDSTNI	NPRO INTERVAL (IN SECONDS)
52	(34)	ADDRESS	4	ORDSTXT	RESERVED POINTER
56	(38)	SIGNED	4	(3)	RESERVED
68	(44)	SIGNED	4	(0)	BOUNDARY ALIGNMENT
68	(44)	X'18'	0	ORDSTSZ	"*-ORDST" VARIABLE ORDER DATA SIZE
68	(44)	X'18'	0	ORDTSZ	"ORDSTSZ" SET ORDER SIZE (FOR SP 1.3.3)
68	(44)	X'44'	0	ORDSTSZ1	"ORDSTSZ+ORDBSIZ+FSIFSIZ"

Comment

ORDER DATA ASSOCIATED WITH THE 'SYNCH' ORDER

End of Comment

44	(2C)	X'2C'	0	ORDSY	"*" DATA FOR SYNCH ORDER
44	(2C)	ADDRESS	1	ORDSYR1	REQUEST FLAG BYTE (SYNCH ACTION) (IF ZERO, SYNCH TO OOP)
		1...		ORDSYBCP	"B'10000000'" SYNCH TO PREVIOUS CKPT.
		.1..		ORDSYFCP	"B'01000000'" SYNCH TO NEXT CHECKPOINT
		..1.		ORDSYBTM	"B'00100000'" SYNCH TO TO BEGINNING OF CURRENT TRANSMISSION
		...1		ORDSYETM	"B'00010000'" SYNCH TO END OF CURRENT TRANSMISSION
		.... 1...		ORDSYBDS	"B'00001000'" SYNCH TO BEGINNING OF DS
		.... .1..		ORDSYEDS	"B'00000100'" SYNCH TO END OF DATA SET
45	(2D)	ADDRESS	1	ORDSYR2	REQUEST FLAG BYTE (REPOSITION)
		1...		ORDSYRI	"B'10000000'" INCREMENT PAGE POSITION
		.1..		ORDSYRD	"B'01000000'" DECREMENT PAGE POSITION
		..1.		ORDSYNR	"B'00100000'" DO NOT REPOSITION PAST END OF DATA SET AT OOP
46	(2E)	ADDRESS	1	ORDSYR3	REQUEST FLAG BYTE (UPDATE) (DEVICE RELATED ITEMS)
		1...		ORDSYS1	"B'10000000'" SET SINGLE SPACE
		.1..		ORDSYS2	"B'01000000'" SET DOUBLE SAPCE
		..1.		ORDSYS3	"B'00100000'" SET TRIPLE SPACE
		...1		ORDSYSR	"B'00010000'" USE DS SPECIFIED SPACING
		.... 1...		ORDSYKP	"B'00001000'" PAGE INTERVAL CKPTS
		.... .1..		ORDSYKT	"B'00000100'" TIME INTERVAL CKPTS
		.... ..1.		ORDSYKN	"B'00000010'" DISABLE CHECKPOINTING
		1		ORDSYRL	"B'00000001'" RELOAD RESOURCES FOR THE DATA SET AT OOP
47	(2F)	ADDRESS	1	ORDSYR4	REQUEST FLAG BYTE (UPDATE) (DATA SET RELATED ITEMS)
		1...		ORDSYCI	"B'10000000'" INCREMENT COPY COUNT
		.1..		ORDSYCD	"B'01000000'" DECREMENT COPY COUNT
		..1.		ORDSYCR	"B'00100000'" REPLACE COPY COUNT
48	(30)	ADDRESS	1	ORDSYR5	REQUEST FLAG BYTE (INTERRUPT)
		1...		ORDSYDC	"B'10000000'" DS AT OOP IS COMPLETE
		.1..		ORDSYDI	"B'01000000'" DS AT OOP IS INCOMPLETE
		..1.		ORDSYVA	"B'00100000'" CHKPT FOR OOP DS IS VALID
		...1		ORDSYNV	"B'00010000'" CHKPT FOR OOP DS IS INVALD

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
49	(31)	ADDRESS	1	ORDSYR6	REQUEST FLAG BYTE (MISC.)
		1...		ORDSYMV	"B'10000000'" PRINT ORDSYMSG ON THE OUTPUT OF THE DATA SET BEING SYNCED
		.1..		ORDSYDS	"B'01000000'" REJECT SYNCH IF DATA SET NOT ACTIVE AT OOP
		..1.		ORDSYSP	"B'00100000'" JOB TRAILER PAGE IS REQUIRED FOR THE DD AT OOP
		...1		ORD6EOG	"B'00010000'" End of Output Group
		.... 1...		ORD6CLP	"B'00001000'" Clear the pipeline
50	(32)	ADDRESS	1		RESERVED STATUS FLAG BYTE
51	(33)	ADDRESS	1		RESERVED
52	(34)	SIGNED	4	ORDSYNP	NO. OF PAGES TO REPOSITION
56	(38)	SIGNED	4	ORDSYKI	CHECKPOINT INTERVAL (SEC OR PG)
60	(3C)	SIGNED	2	ORDSYCP	COPY COUNT VALUE
62	(3E)	BITSTRING	2		RESERVED
64	(40)	ADDRESS	4	ORDSYSMX	PTR TO SET ORDER PARM LIST (LENGTH OF SET ORDER NOT INCLUDED IN FSILEN)
68	(44)	ADDRESS	4	ORDSYXTN	RESERVED POINTER
72	(48)	SIGNED	4	(3)	RESERVED
84	(54)	CHARACTER	120	ORDSYMSG	MESSAGE TEXT TO BE PRESENTED ON USERS OUTPUT
204	(CC)	SIGNED	4	(0)	BOUNDARY ALIGNMENT
204	(CC)	X'A0'	0	ORDSYSZ	"*-ORDSY" VARIABLE ORDER DATA SIZE
204	(CC)	X'CC'	0	ORDSYSZ1	"ORDSYSZ+ORDBSIZ+FSIFSIZ"

Comment

ORDER DATA ASSOCIATED WITH 'INTERVENTION' ORDER

End of Comment

44	(2C)	X'2C'	0	ORDIV	"*" INTERVENTION ORDER
44	(2C)	ADDRESS	1	ORDIVF1	FLAG BYTE 1 - INTERVENTION TYPE
		1...		ORDIVRBT	"B'10000000'" BTS INTERVENTION REQUEST
		.1..		ORDIVRFL	"B'01000000'" FLASH INTERVENTION REQUEST
		..1.		ORDIVRFO	"B'00100000'" FORMS INTERVENTION REQUEST
		...1		ORDIVRCF	"B'00010000'" CONT. FORMS INTRVNTN REQST
45	(2D)	ADDRESS	1	ORDIVF2	FLAG BYTE 2 - UPDATE TYPE
		1...		ORDIVUBT	"B'10000000'" BTS TOKEN UPDATE REQUEST
		.1..		ORDIVUFL	"B'01000000'" FLASH TOKEN UPDATE REQUEST
		..1.		ORDIVUFO	"B'00100000'" FORMS TOKEN UPDATE REQUEST
		...1		ORDIVUCF	"B'00010000'" CONT. FORMS UPDATE REQUEST
46	(2E)	ADDRESS	2		RESERVED
48	(30)	CHARACTER	8	ORDIVBTT	TOKEN FOR BTS INTERVENTION
56	(38)	CHARACTER	8	ORDIVFLT	TOKEN FOR FLASH INTERVENTION
64	(40)	CHARACTER	8	ORDIVFOT	TOKEN FOR FORMS INTERVENTION
72	(48)	CHARACTER	8	ORDIVCFT	TOKEN FOR CFS INTERVENTION
80	(50)	ADDRESS	4	ORDIVXTN	RESERVED POINTER
84	(54)	SIGNED	4	(3)	RESERVED
96	(60)	SIGNED	4	(0)	BOUNDARY ALIGNMENT
96	(60)	X'34'	0	ORDIVSZ	"*-ORDIV" VARIABLE ORDER DATA SIZE
96	(60)	X'60'	0	ORDIVSZ1	"ORDIVSZ+ORDBSIZ+FSIFSIZ"

Comment

GETDS FUNCTION DEPENDENT AREA

End of Comment

24	(18)	X'18'	0	GDSPARM	"*" GETDS FUNCTION DEPENDENT AREA
24	(18)	ADDRESS	1	GDSFLGR1	REQUEST FLAG BYTE 1
		1...		GDSJHDR	"B'10000000'" JOB HEADER PAGE REQUIRED
		.1..		GDSJTRL	"B'01000000'" JOB TRAILER PAGE REQUIRED
		..1.		GDSHDR	"B'00100000'" DATA SET HEADER PAGE REQUIRED
		...1		GDSHTDS	"B'00010000'" DATA SET RTND TO BE ON SAME PAGE AS JOB HEADER OR TRAILER PAGE
		.... 1...		GDSFRMRK	"B'00001000'" FORMS MARK REQUIRED

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		.... .1..		GDSCMC	"B'00000100'" COPY MARK TO BE CHNGED ON DS
		.... ..1.		GDSCMCPY	"B'00000010'" COPY MARK TO BE CHNGED ON COPIES
		1		GDSTRKDS	"B'00000001'" TRACK DATA SET AND ISSUE SEND WHEN DATA SET REACHES OOP
25	(19)	ADDRESS	1	GDSFLGR2	REQUEST FLAG BYTE 2
		1...		GDSJHSWB	"B'10000000'" USE SWBS DEFINED FOR JOB HEADER PAGE
		.1..		GDSJTSWB	"B'01000000'" USE SWBS DEFINED FOR JOB TRAILER PAGE
		..1.		GDS2EOG	"B'00100000'" End of Output Group
		...1		GDS2CMNO	"B'00010000'" COPY MARK to be supressed
26	(1A)	ADDRESS	1	GDSFLGS1	STATUS FLAG BYTE
		1...		GDSCKP	"B'10000000'" CHECKPOINT AREA FILLED IN
		.1..		GDSALLOC	"B'01000000'" DATA SET ALLOCATED ID IN GDSID
		..1.		GDSJNEWS	"B'00100000'" DATA SET IS JESNEWS
		.... 1...		GDSNALLC	"B'00001000'" DATA SET NOT ALLOCATED
		.... .1..		GDSRSTCT	"B'00000100'" PAGE/REC COUNTS TO BE RESET
		.... ..1.		GDSSJERR	"B'00000010'" ERROR IN SJF PROCESSING
27	(1B)	ADDRESS	1		STATUS FLAG BYTE RESERVED
28	(1C)	SIGNED	4	GDSCKPL	LENGTH OF CHKPT AREA SUPPLIED
32	(20)	ADDRESS	4	GDSCKPA	POINTER TO CHECKPOINT AREA
36	(24)	ADDRESS	4	GDSJSPA	POINTER TO JSPA
40	(28)	BITSTRING	8	GDSDDTK (0)	DD SWB TOKEN
40	(28)	ADDRESS	4	GDSDDRS	SWB- RESERVED
44	(2C)	ADDRESS	4	GDSDDPT	SWB- PTR TO ADDR OF SWB CHAIN
48	(30)	BITSTRING	8	GDSOUTK (0)	OUTPUT SWB TOKEN
48	(30)	ADDRESS	4	GDSOUTRS	SWB- RESERVED
52	(34)	ADDRESS	4	GDSOUTPT	SWB- PTR TO ADDR OF SWB CHAIN
56	(38)	CHARACTER	8	GDSJDVTN	JDVT NAME USED AT CREATION
64	(40)	CHARACTER	12	GDSDSID	DATA SET IDENTIFIER
76	(4C)	ADDRESS	4	GDSEXTN	RESERVED POINTER
80	(50)	BITSTRING	1	GDSRECFM	Data set record format
81	(51)	BITSTRING	2	GDSMRECL	Maximum ds record length
83	(53)	BITSTRING	1		Reserved for future use
84	(54)	SIGNED	4	(2)	RESERVED
92	(5C)	CHARACTER	80	GDSSJMSG	MSG TEXT FOR SJF ERROR
172	(AC)	SIGNED	4	(0)	BOUNDARY ALIGNMENT
172	(AC)	X'94'	0	GDSSIZ	"*-GDSPARM" GETDS AREA LENGTH
172	(AC)	X'AC'	0	GDSSIZ1	"GDSSIZ+FSIFSIZ"

Comment

GETREC FUNCTION DEPENDENT AREA

End of Comment

24	(18)	X'18'	0	GLRPARM	"*" GETREC FUNCTION DEPENDENT AREA
24	(18)	ADDRESS	1	GLRFLGR1	REQUEST FLAG BYTE
		1...		GLRREC1	"B'10000000'" REQUEST FIRST REC IN DS
		.1..		GLRRECN	"B'01000000'" REQUEST NEXT SEQUENTIAL REC
		..1.		GLRRECS	"B'00100000'" REQUEST SPECIFIED REC
25	(19)	ADDRESS	1		REQUEST FLAG BYTE RESERVED
26	(1A)	ADDRESS	1	GLRFLGS1	STATUS FLAG BYTE
		1...		GLREOF	"B'10000000'" END OF FILE INDICATOR
		.1..		GLRNBA	"B'01000000'" NO BUFFERS AVAILABLE
		..1.		GLRIPL	"B'00100000'" INVALID PARAMETER LIST
		...1		GLRIOE	"B'00010000'" I/O ERROR ENCOUNTERED
		.... 1...		GLRLGE	"B'00001000'" LOGIC ERROR OR ABEND OCCURD
		.... .1..		GLRNOI	"B'00000100'" NO INDEX RETURNED
27	(1B)	ADDRESS	1		STATUS FLAG BYTE RESERVED
28	(1C)	ADDRESS	4	GLRINDX	POINTER TO RETURNED INDEX
32	(20)	BITSTRING	8	GLRECID	SPOOL RECORD ID (SEE IDXRECID)
40	(28)	CHARACTER	12	GLRDSID	DS INDENTIFIER
52	(34)	ADDRESS	4	GLREXTN	RESERVED POINTER
56	(38)	SIGNED	4	(3)	RESERVED
68	(44)	SIGNED	4	(0)	BOUNDARY ALIGNMENT

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
68	(44)	X'2C'	0	GLRSIZ	"*-GLRPARM" GETREC AREA LENGTH
68	(44)	X'44'	0	GLRSIZ1	"GLRSIZ+FSIFSIZ"

Comment

FREEREC FUNCTION DEPENDENT AREA

End of Comment

24	(18)	X'18'	0	FLRPARM	"*" FREEREC FUNCTION DEPENDENT AREA
24	(18)	ADDRESS	4	FLRINDX	POINTER TO INDEX TO BE FREED
28	(1C)	CHARACTER	12	FLRDSID	DS IDENTIFIER
40	(28)	ADDRESS	4	FLREXTN	RESERVED POINTER
44	(2C)	SIGNED	4	(3)	RESERVED
56	(38)	SIGNED	4	(0)	BOUNDARY ALIGNMENT
56	(38)	X'20'	0	FLRSIZ	"*-FLRPARM" FREEREC AREA LENGTH
56	(38)	X'38'	0	FLRSIZ1	"FLRSIZ+FSIFSIZ"

Comment

RELDS FUNCTION DEPENDENT AREA

End of Comment

24	(18)	X'18'	0	RDSPARM	"*" RELDS FUNCTION DEPENDENT AREA
24	(18)	ADDRESS	1	RDSFLGS1	DATA SET STATUS FLAG BYTE
		1...		RDSDONE	"B'10000000'" DS COMPLETELY PROCESSED
		.1..		RDSINC	"B'01000000'" DS NOT COMPLETELY PROCESSED
		..1.		RDSCKPI	"B'00100000'" DS CHKPT INVALID
		...1		RDSUNPR	"B'00010000'" DS UNPRINTABLE
24	(18)	X'18'	0	RDSSTAT	"RDSFLGS1" Alternate name for RDSFLGS1
25	(19)	ADDRESS	3		RESERVED
28	(1C)	CHARACTER	12	RDSDSID	DATA SET IDENTIFIER
40	(28)	ADDRESS	4	RDSEXTN	RESERVED POINTER
44	(2C)	CHARACTER	8	RDSMIDSE	MESSAGE ID INDICATING DATASET ERROR
52	(34)	SIGNED	4		RESERVED
56	(38)	SIGNED	4	(0)	
56	(38)	X'20'	0	RDSSIZ	"*-RDSPARM" RELDS AREA LENGTH
56	(38)	X'38'	0	RDSSIZ1	"RDSSIZ+FSIFSIZ"

Comment

CHKPT FUNCTION DEPENDENT AREA

End of Comment

24	(18)	X'18'	0	CHKPARM	"*" CHKPT FUNCTION DEPENDENT AREA
24	(18)	ADDRESS	4	CHKADR	POINTER TO CHKPT BUFFER
28	(1C)	ADDRESS	1	CHKFLGR1	REQUEST FLAG BYTE
		1...		CHKFCWRT	"B'10000000'" FORCE A WRITE OF THE CHK REC
29	(1D)	ADDRESS	1		RESERVED
30	(1E)	ADDRESS	1	CHKFLGS1	STATUS FLAG BYTE
		1...		CHKFCERR	"B'10000000'" PERMANENT ERROR ATTEMPTING CHECK-POINT WRITE, REQUEST IGNORED
31	(1F)	ADDRESS	1		RESERVED
32	(20)	CHARACTER	12	CHKDSID	DS IDENTIFIER
44	(2C)	ADDRESS	4	CHKEXTN	RESERVED POINTER
48	(30)	SIGNED	4	(3)	RESERVED
60	(3C)	SIGNED	4	(0)	BOUNDARY ALIGNMENT
60	(3C)	X'24'	0	CHKSIZ	"*-CHKPARM" CHKPT AREA LENGTH
60	(3C)	X'3C'	0	CHKSIZ1	"CHKSIZ+FSIFSIZ"

Comment

POST FUNCTION DEPENDENT AREA

End of Comment

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
24	(18)	X'18'	0	POSTPARM	"*" POST FUNCTION DEPENDENT AREA
24	(18)	ADDRESS	1	POSTFLS1	STATUS FLAG BYTE
		1...		POSTGDS	"B'10000000'" GETDS REQUEST SATISFIED
25	(19)	ADDRESS	3		RESERVED
28	(1C)	SIGNED	4	POSFDATA	RETURNED CONNECT DATA
32	(20)	SIGNED	4		RESERVED
32	(20)	X'C'	0	POSTSIZ	"*-POSTPARM" POST AREA LENGTH
32	(20)	X'24'	0	POSTSIZ1	"POSTSIZ+FSIFSIZ"

Comment

SEND FUNCTION DEPENDENT AREA

End of Comment

24	(18)	X'18'	0	SNDPARM	"*" SEND FUNCTION DEPENDENT AREA
24	(18)	ADDRESS	1	SNDTYPE	SEND FLAG BYTE
		1...		SNDTYRSP	"B'10000000'" RESPONSE TO AN ORDER
		.1..		SNDTYTDS	"B'01000000'" SEND REQUESTED VIA GDSFLGR1 INDICATING DS REACHED OOP
		..1.		SNDTYFIT	"B'00100000'" REQUEST FOR FSA TERM
		...1		SNDTYINT	"B'00010000'" UNSOLICITED DEVICE INTERVENTION DETECTED FROM THE FSA
		.... 1...		SNDTYICL	"B'00001000'" UNSOLICITED DEVICE INTERVENTION CLEARED FROM THE FSA
		.... .1..		SNDTYDNR	"B'00000100'" Unsolicited device not Responding RECVD From the FSA
		.... ..1.		SNDTYDCL	"B'00000010'" Unsolicited device not Responding CLEARED From the FSA
		1		SNDTYEXT	"B'00000001'" Extended send type specified
25	(19)	BITSTRING	1	SNDTYP2	Extended send type
25	(19)	X'1'	0	SNDE58OK	"1" Unsolicited request to issue an EOD-OK ENF58 signal
25	(19)	X'2'	0	SNDE58ER	"2" Unsolicited request to issue an EOD-Error ENF58 signal
26	(1A)	BITSTRING	2		Reserved
28	(1C)	ADDRESS	4	SNDRSPTR	RESPONSE AREA POINTER FOR UNSOLICITED SEND REQUESTS
32	(20)	SIGNED	4		RESERVED
36	(24)	SIGNED	4	(0)	BOUNDARY ALIGNMNET
36	(24)	X'C'	0	SNDSIZ	"*-SNDPARM" SEND AREA LENGTH
36	(24)	X'24'	0	SNDSIZ1	"SNDSIZ+FSIFSIZ"

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	FSIUDATA	User defined trace data.
0	(0)	SIGNED	4	FSIUDLEN	Length of user data area, this includes the length word and the routine name as well as the user trace data in FSIUDTXT. Must be 2K or less.
4	(4)	CHARACTER	8	FSIUDNAM	Routine name generating the FSIREQ.
12	(C)	CHARACTER	1	FSIUDTXT (0)	User specified data that is to be placed in the GTF trace when GTF tracing is turned on.

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	FSIED	
0	(0)	SIGNED	2	FSIEXNUM	NUMBER OF EXTENSIONS
2	(2)	SIGNED	2	FSIEXLEN	LENGTH OF ALL EXTENSIONS
4	(4)	CHARACTER	4	FSIEHID	EXTENSION HEADER ID
8	(8)	SIGNED	4		RESERVED
12	(C)	SIGNED	4		RESERVED
16	(10)	SIGNED	4		RESERVED
20	(14)	SIGNED	4		RESERVED
24	(18)	SIGNED	4	FSIEXEND (0)	END OF DEFINITION AREA

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
24	(18)	X'18'	0	FSIEDSZE	"*-FSIEXNUM" SIZE OF DEFINITION AREA

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	FSIEA	
0	(0)	SIGNED	2	FSIEGLEN	EXTENSION AREA LENGTH
2	(2)	SIGNED	2	FSIEGVSN	VERSION NUMBER FIELD
4	(4)	SIGNED	4	FSIEGFID	EXTENSION ID IDENTIFYING GETDS
8	(8)	CHARACTER	80	FSIEGUTK	USER TOKEN
88	(58)	CHARACTER	80	FSIEGRTK	RESOURCE TOKEN
168	(A8)	CHARACTER	20	FSIEGOGT	OUTPUT GROUP TOKEN
168	(A8)	X'BC'	0	FSIEASZE	"*-FSIEGLEN" SIZE OF GETDS EXT. AREA
168	(A8)	X'2'	0	FSIEGVNM	"2" CURRENT VERSION NUMBER

FSIP Cross Reference

Name	Hex Offset	Hex Value
CDFABNOR	18	40
CDFAD	44	
CDFEXTN	30	
CDFFDATA	20	
CDFFLGR1	18	
CDFFLGR2	19	
CDFFLGR3	1B	
CDFFLGS1	34	
CDFFL2BT	19	80
CDFFL2CF	19	10
CDFFL2FL	19	40
CDFFL2FO	19	20
CDFFL3MS	1B	80
CDFFL331	1B	40
CDFFL34D	1B	20
CDFICN	48	14
CDFICNFA	48	18
CDFICNFS	48	1C
CDFID	40	
CDFIDNA	28	
CDFIDNO	24	
CDFIDSZ	48	8
CDFIFAID	48	C
CDFIFC	48	4
CDFIFREE	48	20
CDFIFSID	48	8
CDFIGM	48	10
CDFILOAD	48	24
CDFNORM	18	80
CDFPAIRS	40	
CDFPARM	18	18
CDFSIZ	40	28
CDFSIZ1	40	40
CDFSSID	2C	
CDFSSIID	18	35
CDFSTOR	1C	
CDFSTORH	1C	80
CDFS1A31	34	20
CDFS1DNR	34	4
CDFS1ESS	34	10
CDFS1ETE	34	40
CDFS1EXT	34	2
CDFS1INT	34	80
CDFS14DG	34	8

Name	Hex Offset	Hex Value
CDFTOKEN	1A	
CDF3BOTH	1B	4
CDF3IP	1B	10
CDF3NOIP	1B	8
CHKADR	18	
CHKDSID	20	
CHKEXTN	2C	
CHKFCERR	1E	80
CHKFCWRT	1C	80
CHKFLGR1	1C	
CHKFLGS1	1E	
CHKPARM	18	18
CHKSIZ	3C	24
CHKSIZ1	3C	3C
FLRDSID	1C	
FLREXTN	28	
FLRINDX	18	
FLRPARM	18	18
FLRSIZ	38	20
FLRSIZ1	38	38
FSICKPT	4	7
FSICON	4	FE
FSIDCON	4	FF
FSIEA	0	
FSIEASZE	A8	BC
FSIED	0	
FSIEDSZE	18	18
FSIEGFID	4	
FSIEGLEN	0	
FSIEGOGT	A8	
FSIEGRTK	58	
FSIEGUTK	8	
FSIEGVNM	A8	2
FSIEGVSN	2	
FSIEHID	4	
FSIEXEND	18	
FSIEXLEN	2	
FSIEXNUM	0	
FSIFEND	18	
FSIFREC	4	5
FSIFSAID	A	
FSIFSID	8	
FSIFSIZ	18	18
FSIFSSID	8	

Name	Hex Offset	Hex Value
FSIFUNC	4	
FSIGDS	4	3
FSIGREC	4	4
FSILEN	0	
FSIMAXFN	4	8
FSIORDER	4	1
FSIPARM	0	
FSIPEXT	14	
FSIPOST	4	2
FSIRDS	4	6
FSIRESN	C	
FSISEND	4	8
FSITEXT	10	
FSIUDATA	0	
FSIUDLEN	0	
FSIUDNAM	4	
FSIUDTXT	C	
GDSALLOC	1A	40
GDSCKP	1A	80
GDSCKPA	20	
GDSCKPL	1C	
GDSCMC	18	4
GDSCMCPY	18	2
GDSDDPT	2C	
GDSDDRS	28	
GDSDDTK	28	
GDSDSID	40	
GDSEXTN	4C	
GDSFLGR1	18	
GDSFLGR2	19	
GDSFLGS1	1A	
GDSFRMRK	18	8
GDSHDR	18	20
GDSHTDS	18	10
GDSJDVTN	38	
GDSJHDR	18	80
GDSJHSWB	19	80
GDSJNEWS	1A	20
GDSJSPA	24	
GDSJTRL	18	40
GDSJTSWB	19	40
GDSMRECL	51	
GDSNALLC	1A	8
GDSOUTK	30	
GDSOUTPT	34	
GDSOUTRS	30	
GDSPARM	18	18
GDSRECFM	50	
GDSRSTCT	1A	4
GDSSIZ	AC	94
GDSSIZ1	AC	AC
GDSSJERR	1A	2
GDSSJMSG	5C	
GDSTRKDS	18	1
GDS2CMNO	19	10
GDS2EOG	19	20
GLRDSID	28	
GLRECID	20	
GLREOF	1A	80
GLREXTN	34	
GLRFLGR1	18	
GLRFLGS1	1A	
GLRINDX	1C	
GLRIOE	1A	10
GLRIPL	1A	20
GLRLGE	1A	8
GLRNBA	1A	40
GLRNOI	1A	4
GLRPARM	18	18
GLRRECN	18	40
GLRRECS	18	20
GLRREC1	18	80
GLRSIZ	44	2C
GLRSIZ1	44	44
IAZFSIP	0	
ORDARESP	18	40
ORDBEND	2C	
ORDBSIZ	2C	14
ORDBSIZ1	2C	2C
ORDFDATA	1C	
ORDFLGS1	18	
ORDID	24	
ORDINTV	24	24
ORDIV	2C	2C
ORDIVBTT	30	
ORDIVCFT	48	
ORDIVFLT	38	
ORDIVFOT	40	
ORDIVF1	2C	
ORDIVF2	2D	
ORDIVRBT	2C	80
ORDIVRCF	2C	10
ORDIVRFL	2C	40
ORDIVRFO	2C	20
ORDIVSZ	60	34
ORDIVSZ1	60	60
ORDIVUBT	2D	80
ORDIVUCF	2D	10
ORDIVUFL	2D	40
ORDIVUFO	2D	20
ORDIVXTN	50	
ORDPARM	18	18
ORDQUERY	24	18
ORDRSPAD	20	
ORDSET	24	1C
ORDSPDEV	24	14
ORDSPFSA	24	C
ORDSPFSS	24	4
ORDSRESP	18	80
ORDSS	2C	2C
ORDSSAB	30	40
ORDSSAD	38	38
ORDSSAD4	38	
ORDSSAI	36	
ORDSSDN	56	80
ORDSSDU	30	8
ORDSSEND	54	
ORDSSF1	30	
ORDSSID	34	
ORDSSIN	56	40
ORDSSKI	58	
ORDSSKN	55	20
ORDSSKP	55	80
ORDSSKT	55	40
ORDSSMX	32	
ORDSSNA	3C	
ORDSSND1	60	
ORDSSND2	84	
ORDSSNI	5C	
ORDSSNO	30	80

Name	Hex Offset	Hex Value
ORDSSPF1	54	
ORDSSPF2	55	
ORDSSPF3	56	
ORDSSPZ	60	C
ORDSSPZ1	60	60
ORDSSP1	54	54
ORDSSSI	34	
ORDSSSP	2C	
ORDSSSP2	48	
ORDSSSR	54	10
ORDSSSZ	54	28
ORDSSSZ1	54	54
ORDSSS1	54	80
ORDSSS2	54	40
ORDSSS3	54	20
ORDSSXT	44	
ORDSS2	60	60
ORDSS2CN	74	
ORDSS2CS	62	80
ORDSS2FL	62	
ORDSS2LN	60	
ORDSS2PZ	84	24
ORDSS2RC	64	
ORDSS2Z2	84	84
ORDST	2C	2C
ORDSTDEV	24	10
ORDSTDN	2C	40
ORDSTFSA	24	8
ORDSTNI	30	
ORDSTR1	2C	
ORDSTSN	2C	80
ORDSTSZ	44	18
ORDSTSZ1	44	44
ORDSTXT	34	
ORDSY	2C	2C
ORDSYBCP	2C	80
ORDSYBDS	2C	8
ORDSYBTM	2C	20
ORDSYCD	2F	40
ORDSYCI	2F	80
ORDSYCP	3C	
ORDSYCR	2F	20
ORDSYDC	30	80
ORDSYDI	30	40
ORDSYDS	31	40
ORDSYEDS	2C	4
ORDSYETM	2C	10
ORDSYFCP	2C	40
ORDSYKI	38	
ORDSYKN	2E	2
ORDSYKP	2E	8
ORDSYKT	2E	4
ORDSYMSG	54	
ORDSYMV	31	80
ORDSYNC	24	20
ORDSYNP	34	
ORDSYNR	2D	20
ORDSYNV	30	10
ORDSYRD	2D	40
ORDSYRI	2D	80
ORDSYRL	2E	1
ORDSYR1	2C	
ORDSYR2	2D	
ORDSYR3	2E	
ORDSYR4	2F	
ORDSYR5	30	
ORDSYR6	31	
ORDSYSMX	40	
ORDSYSP	31	20
ORDSYSR	2E	10
ORDSYSZ	CC	A0
ORDSYSZ1	CC	CC
ORDSYS1	2E	80
ORDSYS2	2E	40
ORDSYS3	2E	20
ORDSYVA	30	20
ORDSYXTN	44	
ORDTSZ	44	18
ORD6CLP	31	8
ORD6EOG	31	10
POSFDATA	1C	
POSTFLS1	18	
POSTGDS	18	80
POSTPARM	18	18
POSTSIZ	20	C
POSTSIZ1	20	24
RDSCKPI	18	20
RDSDONE	18	80
RDSDSID	1C	
RDSEXTN	28	
RDSFLGS1	18	
RDSINC	18	40
RDSMIDSE	2C	
RDSPARM	18	18
RDSSIZ	38	20
RDSSIZ1	38	38
RDSSTAT	18	18
RDSUNPR	18	10
SNDE58ER	19	2
SNDE58OK	19	1
SNDPARM	18	18
SNDRSPTR	1C	
SNDSIZ	24	C
SNDSIZ1	24	24
SNDTYDCL	18	2
SNDTYDNR	18	4
SNDTYEXT	18	1
SNDTYFIT	18	20
SNDTYICL	18	8
SNDTYINT	18	10
SNDTYPE	18	
SNDTYP2	19	
SNDTYRSP	18	80
SNDTYTDS	18	40

FTPT Heading Information

Common Name: Parm list for FRR/ESTAE (Comm Task)
Macro ID: IEZVR001
DSECT Name: PARMLIST, PARMDATA
Owning Component: Communications Task (SC1CK)
Eye-Catcher ID: None
Storage Attributes: Main Storage: Yes
Subpool: Any
Key: 0
Size: PARMLIST - 24 bytes
PARMDATA - 88 bytes
Created by: Comm task modules using IEAVMFRR as their recovery routine.
Pointed to by: Register 2 on entry to IEAVMFRR
Serialization: N/A
Function: Used by the protected routine to communicate with the recovery routine.
Passed to IEAVMFRR via the PARAM keyword on the ESTAE macro, or the PARMAD keyword on the SETFRR macro.

FTPT Map

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	24	PARMLIST	RECOVERY PARM LIST
0	(0)	CHARACTER	4	PARMSTAT	STATUS WORD
0	(0)	ADDRESS	1	PARMFTPT	FOOTPRINT BYTE
1	(1)	BITSTRING	1	PARMFLAG	FLAG BYTE
		1...		PARMSDWA	SDWA INDICATOR
		.1..		PARMCWT	CONTINUE WITH TERM. IND.
		..1.		PARMRECU	ESTAE RECURSION COUNTER
		...1		PARMFRID	FRR INDICATOR. ON = THE LEVEL OF RECOVERY ASSOCIATED WITH THIS PARMLIST IS PROTECTED BY AN FRR. HOWEVER, FOR ROUTINES INVOKED DIRECTLY BY IEAVMFRR (E.G., THE CLEANUP ROUTINE POINTED TO BY THE PARMCLAD FIELD, AND THE DUMP EXIT ROUTINE POINTED TO BY THE PARMDMPA FIELD, BUT NOT THE RETRY POINT POINTED TO BY PARMRTAD), ON = THE LEVEL OF RECOVERY ASSOCIATED WITH THIS PARMLIST IS AN FRR. This will be on for estae entry into IEAVMFRR if percolated from FRR The callers of SETFRR turn it on in the estae parameter list
		.... 1...		PARMWARG	REG UPDATE INDICATOR
		.... .1..		PARMNDMP	NO DUMP INDICATOR
		.... ..1.		PARMCLNP	Cleanup only call
		1		PARMDPNO	Issue SETRP DUMP=NO
2	(2)	ADDRESS	1	PARMSYSR	SYSTEM SERVICE ID
3	(3)	ADDRESS	1	PARMCTBK	CONTROL BLOCK ID
4	(4)	ADDRESS	4	PARMUSER	RECOVERY USER DATA AREA ADDRESS (WAS PARMSYAD - SERVICE HANDLER ADDR)
8	(8)	ADDRESS	4	PARMCLAD	CLEANUP ROUTINE ADDRESS RECEIVES CONTROL IN PRIMARY MODE
12	(C)	ADDRESS	4	PARMRTAD	RETRY ADDRESS
16	(10)	ADDRESS	4	PARMRGAD	REGISTER SAVEAREA POINTER
20	(14)	CHARACTER	4	PARMID	MODULE ID

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Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	88	PARMDATA	RECOVERY USER DATA AREA
0	(0)	CHARACTER	4	PARMACRO	ACRONYM - 'PDAT'
4	(4)	UNSIGNED	1	PARMVRSN	VERSION LEVEL
5	(5)	BITSTRING	1	PARMENV	ENVIRONMENT
		1...		PARMXMCS	EXTENDED-MCS PROCESSING
6	(6)	CHARACTER	2	PARMFLGS	MISCELLANEOUS FLAGS
6	(6)	BITSTRING	1	PARMFLG1	MISCELLANEOUS FLAGS BYTE 1
		1...		PARMCCEA	TRYING TO ACCESS CCE
		.1..		PARMODTA	TRYING TO ACCESS ODT
		..1.		PARMCLTA	TRYING TO ACCESS CLT
		...1		PARMMSGA	TRYING TO ACCESS MESSAGE DATA SPACE
		.... 1...		PARMMDS1	MDCBMDS1 HAS BEEN SET
		.... .1..		PARMRSOK	PARMRSNC is valid
		.... ..1.		PARMFDMP	FORCE DUMP ON CLEANUP ONLY CALL
		1		PARMCMDS	CMDS COMMAND DUMP
7	(7)	BITSTRING	1	PARMFLG2	MISCELLANEOUS FLAGS BYTE 2
8	(8)	CHARACTER	8	PARMLOAD	LOAD MODULE NAME
16	(10)	CHARACTER	8	PARMCSCT	CSECT CURRENTLY IN CONTROL
24	(18)	CHARACTER	8	PARMBRCH	MODULE/SERVICE BEING BRANCHED TO
32	(20)	CHARACTER	16	PARMMDLV	MODULE LEVEL
48	(30)	CHARACTER	5	PARMCMPT	COMPONENT ID OF FAILING MODULE
53	(35)	CHARACTER	3	PARMABND	EBCDIC abend code
56	(38)	ADDRESS	4	PARMVRAD	VRA ADDRESS
60	(3C)	ADDRESS	4	PARMSDWD	SDWA ADDRESS
64	(40)	ADDRESS	4	PARMDMPA	DUMP EXIT ROUTINE ADDRESS
68	(44)	ADDRESS	4	PARMUDEF	PTR TO USER DEFINED DATA AREA
72	(48)	CHARACTER	8	PARMRSNC	Abend reason code in EBCDIC, if PARMRSOK = ON
80	(50)	CHARACTER	8	PARMSTOK	CMDS command dataspace stoken

FTPT Constants

Len	Type	Value		Name	Description
4	CHARACTER	PDAT		PARMACRN	ACRONYM - 'PDAT'
1	DECIMAL		1	PARMS410	SP4.1.0 VERSION LEVEL
1	DECIMAL		2	PARMS420	SP4.2.0 VERSION LEVEL
1	DECIMAL		4	PARMS703	HBB7703, OW45398
1	DECIMAL		5	PARMS705	HBB7705 VERSION LEVEL
1	DECIMAL		5	PARMVRID	CURRENT VERSION LEVEL

FTPT Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
PARMABND	35		PARMFLG2	7	
PARMACRO	0		PARMFRID	1	10
PARMBRCH	18		PARMFTPT	0	
PARMCCEA	6	80	PARMID	14	
PARMCLAD	8		PARMLIST	0	
PARMCLNP	1	02	PARMLOAD	8	
PARMCLTA	6	20	PARMMDLV	20	
PARMCMDS	6	01	PARMMDS1	6	08
PARMCMPT	30		PARMMSGA	6	10
PARMCSCT	10		PARMNDMP	1	04
PARMCTBK	3		PARMODTA	6	40
PARMCWT	1	40	PARMRECU	1	20
PARMDATA	0		PARMRGAD	10	
PARMDMPA	40		PARMRSNC	48	
PARMDPNO	1	01	PARMRSOK	6	04
PARMENV	5		PARMRTAD	C	
PARMFDMP	6	02	PARMSDWA	1	80
PARMFLAG	1		PARMSDWD	3C	
PARMFLGS	6		PARMSTAT	0	
PARMFLG1	6		PARMSTOK	50	

Name	Hex Offset	Hex Value
PARMSYSR	2	
PARMUDEF	44	
PARMUSER	4	
PARMVRAD	38	
PARMVRSN	4	
PARMWARG	1	08
PARMXMCS	5	80

FUNCFLGS Programming Interface Information

Programming Interface Information

FUNCFLGS

End of Programming Interface Information

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FUNCFLGS Heading Information

Common Name: Parameter Mappings for IEFAB4UV and IEFEB4UV
Macro ID: IEFZB4UV
DSECT Name: FUNCFLGS, UNITTAB, GROUPIDD, ATTRIBUTS, UNITADRS, NAMELS12, UCBLIST4, UCBLIST5
Owning Component: Allocation (SC1B4)
Eye-Catcher ID:
Offset:
Subpool and Key: For IEFAB4UV - Subpool 230 and key 1. For IEFEB4UV - Problem program subpool and key.
Size: Varies dependent on function
Created by: Callers of IEFAB4UV or IEFEB4UV
Pointed to by: Register 1 points to a pointer to the function flags and a pointer to the unit table on entry to IEFAB4UV or IEFEB4UV.
Serialization: None
Function: To map the parameters to IEFAB4UV or IEFEB4UV. These modules are service routines to provide information from the Eligible Device Table (EDT). IEFAB4UV is for authorized callers; IEFEB4UV is for unauthorized callers. These modules have two parameters: two bytes of function flags, and a unit table. The format and length of the unit table is dependent on the function/functions requested.

FUNCFLGS Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	FUNCFLGS	INPUT FUNCTION FLAGS
0	(0)	BITSTRING	1	FUNCFLG1	FIRST BYTE OF FLAGS
		1...		CHKGROUP	"X'80'" CHECK FOR GROUP SPLITTING
		.1..		CHKUNITS	"X'40'" CHECK FOR CORRECT UNITS
		..1.		RETNUNIT	"X'20'" RETURN UNIT NAME
		...1		RETNUCBS	"X'10'" RETURN UCB ADDRESSES
		.... 1...		RETGRPID	"X'08'" RETURN GROUP ID FUNCTION
		.... .1..		LUVDEVB	"X'04'" INPUT LUV OR DEVICE TYPE FOR CHECK UNIT OR RETURN UCB ADDRESS FUNCTIONS
		.... ..1.		RETNLUV	"X'02'" RETURN LOOK-UP VALUE
		1		CNVTLUV	"X'01'" CONVERT DEV TYPE TO LUV
1	(1)	BITSTRING	1	FUNCFLG2	SECOND BYTE OF FLAGS
		1...		RETNATRB	"X'80'" RETURN ATTRIBUTES
		.1..		CHKUNSTR	"X'40'" DO NOT STORE INTO PARMLIST
		..1.		SPECSUBP	"X'20'" USER SPECIFIED SUBPOOL FOR RETURN UCBS
		...1		RETNNAME	"X'10'" RETURN LIST OF UNIT NAMES
		.... 1...		OVERRIDE	"X'08'" Indicates to check if the specified unit name can override.

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	UNITTAB	UNIT TABLE
0	(0)	SIGNED	4	(0)	MAKE ON A WORD BOUNDARY
0	(0)	CHARACTER	8	UNITNM (0)	UNIT NAME
0	(0)	ADDRESS	4	UNGRPIDP (0)	PTR TO GROUP ID TABLE
0	(0)	CHARACTER	4	LUVDEVT	LUV OR DEVICE TYPE INPUT FOR CHECK UNIT FUNCTION
4	(4)	ADDRESS	4	UNUCBL5P	PTR TO INPUT UCB LIST
8	(8)	SIGNED	4	(0)	MAKE ON A WORD BOUNDARY
8	(8)	CHARACTER	4	UNLUVDEV (0)	LOOK-UP VAL OR DEV TYPE
8	(8)	ADDRESS	4	UNUCBL4P (0)	RETURN UCB LIST PTR
8	(8)	SIGNED	4	UNITNUMB	NUM OF UNIT ADDRS SUPPLIED
12	(C)	ADDRESS	4	UNITADDP (0)	UNIT ADDRESS TABLE PTR

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
12	(C)	ADDRESS	4	UNATRIBP	UNIT ATTIBUTES PTR
16	(10)	SIGNED	2	UNSUBPL	UNIT SUBPOOL FOR UCB LIST
18	(12)	CHARACTER	1	UNDEVCL	DEVICE CLASS FOR SEARCH
19	(13)	CHARACTER	1		RESERVED
20	(14)	SIGNED	4		RESERVED

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	GROUPIDD	GROUP ID DSECT POINTED TO BY UNGRPIDP
0	(0)	SIGNED	4	GROUPID	ARRAY OF GROUP IDS

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	UCBLIST5	INPUT UCB LIST (FUNC 5) POINTED TO BY UNUCBL5P
0	(0)	SIGNED	4	LIST5NUM	NUMBER ENTRIES
4	(4)	ADDRESS	4	LIST5UCB	ARRAY OF UCB ADDRESSES

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	UCBLIST4	RETURNED UCB LIST (FUNC 4) POINTED TO BY UNUCBL4P
0	(0)	DBL WORD	8	LIST4HDR (0)	
0	(0)	ADDRESS	1	LIST4SP	SUBPOOL OF LIST
1	(1)	ADDRESS	3	LIST4SIZ	LENGTH OF LIST
4	(4)	SIGNED	4	LIST4NUM	NUMBER OF ENTRIES
8	(8)	ADDRESS	4	LIST4UCB	ARRAY OF UCB ADDRESSES

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NAMELS12	RETURNED NAME LIST (FUNC12) POINTED TO BY UNNML12P
0	(0)	DBL WORD	8	LST12HDR (0)	
0	(0)	ADDRESS	1	LST12SPL	SUBPOOL OF LIST
1	(1)	ADDRESS	3	LST12SIZ	LENGTH OF LIST
4	(4)	SIGNED	4	LST12NUM	NUMBER OF ENTRIES
8	(8)	CHARACTER	8	LST12NAM	ARRAY OF UNIT NAMES

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	UNITADRS	UNIT ADDRESSES (FUNC 1,2) POINTED TO BY UNITADDP
0	(0)	SIGNED	4	(0)	MAKE ON A WORD BOUNDARY
0	(0)	CHARACTER	3	ADDRS	ARRAY OF EBCDIC ADDRESSES
3	(3)	BITSTRING	1	UNADRFLG	UNIT ADDRESS FLAG
		1...		INVALID	"X'80'" INVALID ADDRESS
		.1..		UNITERR	"X'40'" UNIT NOT ASSOCIATED WITH INPUT UNIT NAME

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	ATRIBUTS	UNIT ATTRIBUTES (FUNC 9) POINTED TO BY UNATRIBP
0	(0)	SIGNED	4	(0)	MAKE ON A WORD BOUNDARY
0	(0)	SIGNED	1	ATRLEN	LENGTH OF AREA
1	(1)	BITSTRING	2	ATRFLGS (0)	ATTRIBUTE FLAGS
1	(1)	BITSTRING	1	ATRFLG1	FIRST BYTE OF FLAGS
		1...		ESOTERIC	"X'80'" UNIT IS AN ESOTERIC
		.1..		VIOELIG	"X'40'" UNIT IS VIO ELIGIBLE

FUNCFLGS Cross Reference

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		..1.		V3330	"X'20'" CONTAINS 3330V UNITS
		...1		TPCLASS	"X'10'" CONTAINS TP DEVICES
2	(2)	BITSTRING	1	ATRFLG2	SECOND BYTE OF FLAGS
		1...		OVERESO	"X'80'" Indicates the specified unit name is an overriding esoteric.
3	(3)	CHARACTER	1	DEVCLAS#	NUM OF DEVICE CLASSES
4	(4)	CHARACTER	4	GENDEV#	NUM OF GENERIC DEV. TYPES
8	(8)	CHARACTER	2		RESERVED
8	(8)	X'A'	0	ATRLENC	"*-ATRIBUTS" LENGTH OF ATRIBUTS

Comment

RETURN CODE CONSTANTS

End of Comment

12	(C)	SIGNED	4	SUCES4UV	SUCCESSFUL OPERATION
16	(10)	SIGNED	4	NAMER4UV	INPUT VALUE NOT FOUND IN EDT
20	(14)	SIGNED	4	UNITR4UV	INCORRECT UNITS ASSOCIATED WITH UNIT NAME
24	(18)	SIGNED	4	GRPER4UV	INVALID DEVICE GROUPINGS FOR INPUT UNIT ADDRESSES
28	(1C)	SIGNED	4	GETER4UV	GETMAIN ERROR
32	(20)	SIGNED	4	ADDRE4UV	INPUT UNIT ADDRESS INVALID
36	(24)	SIGNED	4	ENVER4UV	ENVIRONMENT NOT SET UP
40	(28)	SIGNED	4	FNCER4UV	INVALID, MUTUALLY EXCLUSIVE, AND/OR NO FUNCTION REQUESTED OR NO LIST INPUT FOR FUNCTION 1, 2, 5, OR 9
44	(2C)	SIGNED	4	ATRPT4UV	A pointer to the attribute area is required for the specified function(s) but is zero.
48	(30)	SIGNED	4	NOTAC4UV	None of the units within the specified unit name are accessible via the IEFEB4UV /IEFAB4UV/IEFGB4UV interface (i.e. no 3-digit, STATIC, devices with 24-bit UCBs).

FUNCFLGS Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
ADDRE4UV	20	14	LIST4SIZ	1	
ADDRS	0		LIST4SP	0	
ATRFLGS	1		LIST4UCB	8	
ATRFLG1	1		LIST5NUM	0	
ATRFLG2	2		LIST5UCB	4	
ATRIBUTS	0		LST12HDR	0	
ATRLEN	0		LST12NAM	8	
ATRLENC	8	A	LST12NUM	4	
ATRPT4UV	2C	20	LST12SIZ	1	
CHKGROUP	0	80	LST12SPL	0	
CHKUNITS	0	40	LUVDEVB	0	4
CHKUNSTR	1	40	LUVDEVT	0	
CNVTLUV	0	1	NAMELS12	0	
DEVCLAS#	3		NAMER4UV	10	4
ENVER4UV	24	18	NOTAC4UV	30	24
ESOTERIC	1	80	OVERESO	2	80
FNCER4UV	28	1C	OVERRIDE	1	8
FUNCFLGS	0		RETGRPID	0	8
FUNCFLG1	0		RETNATRB	1	80
FUNCFLG2	1		RETNLUV	0	2
GENDEV#	4		RETNNAME	1	10
GETER4UV	1C	10	RETNUCBS	0	10
GROUPID	0		RETNUNIT	0	20
GROUPIDD	0		SPECSUBP	1	20
GRPER4UV	18	C	SUCES4UV	C	0
INVALID	3	80	TPCLASS	1	10
LIST4HDR	0		UCBLIST4	0	
LIST4NUM	4		UCBLIST5	0	

Name	Hex Offset	Hex Value
UNADRFLG	3	
UNATRIBP	C	
UNDEVCL	12	
UNGRPIDP	0	
UNITADDP	C	
UNITADRS	0	
UNITERR	3	40
UNITNM	0	
UNITNUMB	8	
UNITR4UV	14	8
UNITTAB	0	
UNLUVDEV	8	
UNSUBPL	10	
UNUCBL4P	8	
UNUCBL5P	4	
VIOELIG	1	40
V3330	1	20

GDA Programming Interface information

Programming Interface information

GDA

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

- GDA_CSA_ALLOC
- GDA_CSA_CONV
- GDA_ECSA_ALLOC
- GDA_ECSA_CONV
- GDA_ESQA_ALLOC
- GDA_SQA_ALLOC
- GDACSA
- GDACSACV
- GDACSAHWM
- GDACSASZ
- GDACSATR
- GDADGQAT@
- GDAECSA
- GDAECSAHWM
- GDAECSAS
- GDAEPVT
- GDAEPVTS
- GDAESQA
- GDAESQAHWM
- GDAESQAS
- GDAFCAUB
- GDAGQAT_INDEX
- GDALCAUB
- GDAPVT
- GDAPVTSZ
- GDASCAUB
- GDASQA
- GDASQAHWM
- GDASQASZ
- GDASQATR
- GDASYVAB
- GDATRACKINGTIMESTAMPS
- GDAUCAUB
- GDAVR
- GDAVREGS
- GDAVRSZ

End of Programming Interface information

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GDA Heading Information

Common Name: Global Data Area Block
Macro ID: IHAGDA
DSECT Name: GDA
Owning Component: Virtual Storage Manager (SC1CH)
Eye-Catcher ID: GDA
Offset: 0
Length: 4
Storage Attributes: Subpool: 245
Key: 0
Residency: Above 16M line
Size: GDA -- X'560' bytes
Created by: IEAIPL04
Pointed to by: CVTGDA
Serialization: VSMFIX LOCK
Function: CONTROL BLOCK USED BY VSM TO CONTAIN INFORMATION ABOUT SYSTEM RELATED VIRTUAL STORAGE AND TO ANCHOR SQA AND CSA QUEUES

GDA Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	GDA	
0	(0)	CHARACTER	4	GDAID	CONTROL BLOCK IDENTIFIER
4	(4)	SIGNED	4	GDAQANC5 (6)	SUBPOOL 245 QUEUE ANCHORS
4	(4)	ADDRESS	4	GDASQAT5	ADDRESS OF THE SUBPOOL 245 SIZE QUEUE ANCHOR TABLE
8	(8)	ADDRESS	4	GDAAQAT5	ADDRESS OF SUBPOOL 245 ADDRESS QUEUE ANCHOR TABLE
12	(C)	SIGNED	4	GDADFEQ5 (4)	SUBPOOL 245 DFE QUEUE HEADER
12	(C)	ADDRESS	4	GDAADF45	ADDRESS OF THE FIRST DFE ON THE SUBPOOL 245 ADDRESS QUEUE
16	(10)	ADDRESS	4	GDAADL45	ADDRESS OF THE LAST DFE ON THE SUBPOOL 245 ADDRESS QUEUE
20	(14)	ADDRESS	4	GDASZF45	ADDRESS OF THE FIRST DFE ON THE SUBPOOL 245 SIZE QUEUE
24	(18)	ADDRESS	4	GDASZL45	ADDRESS OF THE LAST DFE ON THE SUBPOOL 245 SIZE QUEUE
28	(1C)	SIGNED	4	GDAEANC5 (6)	SUBPOOL 245 QUEUE ANCHORS - EXTENDED
28	(1C)	ADDRESS	4	GDAESQT5	ADDRESS OF THE SUBPOOL 245 SIZE QUEUE ANCHOR TABLE
32	(20)	ADDRESS	4	GDAEAQT5	ADDRESS OF SUBPOOL 245 ADDRESS QUEUE ANCHOR TABLE
36	(24)	SIGNED	4	GDAEDFE5 (4)	SUBPOOL 245 DFE QUEUE HEADER
36	(24)	ADDRESS	4	GDAEADF5	ADDRESS OF THE FIRST DFE ON THE SUBPOOL 245 ADDRESS QUEUE
40	(28)	ADDRESS	4	GDAEADL5	ADDRESS OF THE LAST DFE ON THE SUBPOOL 245 ADDRESS QUEUE
44	(2C)	ADDRESS	4	GDAESZF5	ADDRESS OF THE FIRST DFE ON THE SUBPOOL 245 SIZE QUEUE
48	(30)	ADDRESS	4	GDAESZL5	ADDRESS OF THE LAST DFE ON THE SUBPOOL 245 SIZE QUEUE
52	(34)	SIGNED	4	GDAQANC6 (6)	SUBPOOL 226 QUEUE ANCHORS
52	(34)	ADDRESS	4	GDASQAT6	ADDRESS OF THE SUBPOOL 226 SIZE QUEUE ANCHOR TABLE
56	(38)	ADDRESS	4	GDAAQAT6	ADDRESS OF SUBPOOL 226 ADDRESS QUEUE ANCHOR TABLE
60	(3C)	SIGNED	4	GDADFEQ6 (2)	SUBPOOL 226 DFE QUEUE HEADER

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
60	(3C)	ADDRESS	4	GDAADF26	ADDRESS OF THE FIRST DFE ON THE SUBPOOL 226 ADDRESS QUEUE
64	(40)	ADDRESS	4	GDAADL26	ADDRESS OF THE LAST DFE ON THE SUBPOOL 226 ADDRESS QUEUE
68	(44)	ADDRESS	4	GDASZF26	ADDRESS OF THE FIRST DFE ON THE SUBPOOL 226 SIZE QUEUE
72	(48)	ADDRESS	4	GDASZL26	ADDRESS OF THE LAST DFE ON THE SUBPOOL 226 SIZE QUEUE
76	(4C)	SIGNED	4	(6)	RESERVED
100	(64)	SIGNED	4	GDACSARD (4)	CSA REGION DESCRIPTOR
100	(64)	ADDRESS	4	GDAFBQCF	ADDRESS OF THE FIRST CSA FBQE
104	(68)	ADDRESS	4	GDAFBQCL	ADDRESS OF THE LAST CSA FBQE
108	(6C)	ADDRESS	4	GDACSA	LOWEST ADDRESS OF CSA (PSPI)
112	(70)	SIGNED	4	GDACSASZ	SIZE OF CSA (PSPI)
116	(74)	SIGNED	4	GDAECRD (4)	CSA REGION DESCRIPTOR - EXTENDED
116	(74)	ADDRESS	4	GDAEFBCF	ADDRESS OF THE FIRST EXTENDED CSA FBQE
120	(78)	ADDRESS	4	GDAEFBCL	ADDRESS OF THE LAST EXTENDED CSA FBQE
124	(7C)	ADDRESS	4	GDAECSA	LOWEST ADDRESS OF EXTENDED CSA (PSPI)
128	(80)	SIGNED	4	GDAECSAS	SIZE OF EXTENDED CSA (PSPI)
132	(84)	SIGNED	4	GDACSARE	AMOUNT OF UNALLOCATED COMMON AREA LEFT (CSA + SQA) Note that ECSA and ESQA are NOT included in this count.
136	(88)	ADDRESS	4	GDASPT	ADDRESS OF CSA SUBPOOL TABLE
140	(8C)	SIGNED	4	GDACSACV	AMOUNT OF CSA CONVERTED TO SQA (PSPI)
144	(90)	ADDRESS	4	GDASQA	ADDRESS OF START OF SQA AREA (PSPI)
148	(94)	SIGNED	4	GDASQASZ	SIZE OF SQA AREA (PSPI)
152	(98)	ADDRESS	4	GDAESQA	ADDRESS OF START OF SQA AREA - EXTENDED (PSPI)
156	(9C)	SIGNED	4	GDAESQAS	SIZE OF SQA AREA - EXTENDED (PSPI)
160	(A0)	ADDRESS	4	GDAPVT	ADDRESS OF START OF PRIVATE AREA (PSPI)
160	(A0)	X'A0'	0	PASTRT	"GDAPVT" ADDRESS OF START OF PRIVATE AREA
164	(A4)	SIGNED	4	GDAPVTSZ	SIZE OF THE PRIVATE AREA (PSPI)
164	(A4)	X'A4'	0	PASIZE	"GDAPVTSZ" SIZE OF THE PRIVATE AREA
168	(A8)	ADDRESS	4	GDAEPVT	ADDRESS OF START OF PRIVATE AREA - EXTENDED (PSPI)
172	(AC)	SIGNED	4	GDAEPVTS	SIZE OF THE PRIVATE AREA - EXTENDED (PSPI)
176	(B0)	SIGNED	4	GDACPANC (3)	SQA CELL POOL HEADER
176	(B0)	ADDRESS	4	GDACPADR	ADDRESS OF VSM'S SQA CELL POOL
180	(B4)	SIGNED	4	GDACPCNT	NUMBER OF FREE CELLS IN VSM'S SQA CELL POOL
184	(B8)	ADDRESS	4	GDAFCADR	ADDRESS OF FIRST FREE CELL IN VSM'S SQA CELL POOL
188	(BC)	ADDRESS	4	GDACPAB	ADDRESS OF PERMANENT CPAB TABLE
192	(C0)	ADDRESS	4	GDAVR	ADDRESS OF GLOBAL V=R AREA (PSPI)
196	(C4)	SIGNED	4	GDAVRSZ	SIZE OF GLOBAL V=R AREA (PSPI)
200	(C8)	SIGNED	4	GDAVREGS	DEFAULT V=R REGION SIZE (PSPI)
204	(CC)	ADDRESS	4	GDAWRKA	ADDRESS OF GLOBAL WORKAREA IN NUCLEUS
208	(D0)	ADDRESS	4	GDARGR	ADDRESS OF REGION REQUEST ELEMENT QUEUE
212	(D4)	ADDRESS	4	GDASPTT	ADDRESS OF SUBPOOL TRANSLATION TABLE
216	(D8)	BITSTRING	2	GDAFLGS	MISCELLANEOUS FLAGS
		1...		GDALOW1	"X'80'" IF ONE COMMON AREA FREE SPACE IS BELOW THRESHOLD 1
		.1..		GDALOW2	"X'40'" IF ONE COMMON AREA FREE SPACE IS BELOW THRESHOLD 2
		..1.		GDAGFSTR	"X'20'" Indicates that GETMAIN/FREEMAIN/STORAGE trace is active ('1'B) or inactive ('0'B).
		...1		GDASQAOK	"X'10'" Indicates whether IEAVNP08 has finished processing the SQA parameter. '0'B => IEAVNP08 has *NOT* finished. '1'B => IEAVNP08 is done. Supervisor control interrogates this bit, and builds pools for the linkage stacks only after the SQA parameter has been processed. If the attempt to obtain storage for the linkage stack fails because SQA has been exhausted, then only a re-IPL (with more SQA) is required. If supervisor builds the linkage stack pools *before* the SQA parameter is processed, then an 'SQA exhausted' error would require a ZAP to increase the size of initial SQA. This bit is implicitly initialized to '0'B when IEAIPL04 builds the GDA. Serialization: None.

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					Comment
					The following 2 fields indicate whether the VSM function that collects data about who is using SQA and CSA is active ('1'B) or inactive ('0'B). Write serialization: VSMFIX and VSMPAG Read serialization: VSMFIX or VSMPAG.
					End of Comment
		.... 1...		GDACSATR	"X'08'" CSA tracking is active ('1'B) (PSPI)
		.... .1..		GDASQATR	"X'04'" SQA tracking is active ('1'B) (PSPI)
		.... ..1.		GDASTTC	"X'02'" Subpool Translation Table complete. Set when the the subpool table indices have been set to their final values. Prior to this, requests for storage requests for LSQA (SP203-5,213-15,223-25,233-35,253-55) were satisfied from SP 245. '0'B ==> LSQA getmains satisfied from SP 245 '1'B ==> LSQA getmains satisfied from subpools specified
218	(DA)	CHARACTER	2		RESERVED
220	(DC)	ADDRESS	4	GDACSADR	ADDRESS OF CSA DEFERED RELEASE FBQE QUEUE
224	(E0)	ADDRESS	4	GDAWRKAP	ADDRESS OF WORK AREA FOR PAGABLE CSA
228	(E4)	SIGNED	4	GDAQANC9 (6)	SUBPOOL 239 QUEUE ANCHORS
228	(E4)	ADDRESS	4	GDASQAT9	ADDRESS OF THE SUBPOOL 239 SIZE QUEUE ANCHOR TABLE
232	(E8)	ADDRESS	4	GDAAQAT9	ADDRESS OF SUBPOOL 239 ADDRESS QUEUE ANCHOR TABLE
236	(EC)	SIGNED	4	GDADFEQ9 (4)	SUBPOOL 239 DFE QUEUE HEADER
236	(EC)	ADDRESS	4	GDAADF39	ADDRESS OF THE FIRST DFE ON THE SUBPOOL 239 ADDRESS QUEUE
240	(F0)	ADDRESS	4	GDAADL39	ADDRESS OF THE LAST DFE ON THE SUBPOOL 239 ADDRESS QUEUE
244	(F4)	ADDRESS	4	GDASZF39	ADDRESS OF THE FIRST DFE ON THE SUBPOOL 239 SIZE QUEUE
248	(F8)	ADDRESS	4	GDASZL39	ADDRESS OF THE LAST DFE ON THE SUBPOOL 239 SIZE QUEUE
252	(FC)	SIGNED	4	GDAEANC9 (6)	SUBPOOL 239 QUEUE ANCHORS - EXTENDED
252	(FC)	ADDRESS	4	GDAESQT9	ADDRESS OF THE SUBPOOL 239 SIZE QUEUE ANCHOR TABLE
256	(100)	ADDRESS	4	GDAEAQT9	ADDRESS OF SUBPOOL 239 ADDRESS QUEUE ANCHOR TABLE
260	(104)	SIGNED	4	GDAEDFE9 (4)	SUBPOOL 239 DFE QUEUE HEADER
260	(104)	ADDRESS	4	GDAEADF9	ADDRESS OF THE FIRST DFE ON THE SUBPOOL 239 ADDRESS QUEUE
264	(108)	ADDRESS	4	GDAEADL9	ADDRESS OF THE LAST DFE ON THE SUBPOOL 239 ADDRESS QUEUE
268	(10C)	ADDRESS	4	GDAESZF9	ADDRESS OF THE FIRST DFE ON THE SUBPOOL 239 SIZE QUEUE
272	(110)	ADDRESS	4	GDAESZL9	ADDRESS OF THE LAST DFE ON THE SUBPOOL 239 SIZE QUEUE
276	(114)	ADDRESS	4	GDAPPDPG	ADDRESS OF PAGEABLE PPD QUEUE
280	(118)	ADDRESS	4	GDAPPDFX	ADDRESS PF FIXED PPD QUEUE
284	(11C)	SIGNED	4	GDANONFM (4)	NON-FREEMAINABLE COMMON AREAS
284	(11C)	SIGNED	4	GDASM (2)	NON-FREEMAINABLE STORAGE MANAGEMENT AREA
284	(11C)	ADDRESS	4	GDASMAD	ADDRESS OF AREA
288	(120)	SIGNED	4	GDASMSZ	SIZE OF AREA
292	(124)	SIGNED	4	GDAPGT (2)	NON-FREEMAINABLE PAGE TABLE AREA
292	(124)	ADDRESS	4	GDAPGTAD	ADDRESS OF AREA
296	(128)	SIGNED	4	GDAPGTSZ	SIZE OF AREA
300	(12C)	SIGNED	4	GDAQANC7 (6)	RESERVED
324	(144)	SIGNED	4	GDAEANC7 (6)	SUBPOOL 247 QUEUE ANCHORS - EXTENDED
324	(144)	ADDRESS	4	GDAESQT7	ADDRESS OF THE SUBPOOL 247 SIZE QUEUE ANCHOR TABLE
328	(148)	ADDRESS	4	GDAEAQT7	ADDRESS OF SUBPOOL 247 ADDRESS QUEUE ANCHOR TABLE

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
332	(14C)	SIGNED	4	GDAEDFE7 (4)	SUBPOOL 247 DFE QUEUE HEADER
332	(14C)	ADDRESS	4	GDAEADF7	ADDRESS OF THE FIRST DFE ON THE SUBPOOL 247 ADDRESS QUEUE
336	(150)	ADDRESS	4	GDAEADL7	ADDRESS OF THE LAST DFE ON THE SUBPOOL 247 ADDRESS QUEUE
340	(154)	ADDRESS	4	GDAESZF7	ADDRESS OF THE FIRST DFE ON THE SUBPOOL 247 SIZE QUEUE
344	(158)	ADDRESS	4	GDAESZL7	ADDRESS OF THE LAST DFE ON THE SUBPOOL 247 SIZE QUEUE
348	(15C)	SIGNED	4	GDAQANC8 (6)	RESERVED
372	(174)	SIGNED	4	GDAEANC8 (6)	SUBPOOL 248 QUEUE ANCHORS - EXTENDED
372	(174)	ADDRESS	4	GDAESQT8	ADDRESS OF THE SUBPOOL 248 SIZE QUEUE ANCHOR TABLE
376	(178)	ADDRESS	4	GDAEAQT8	ADDRESS OF SUBPOOL 248 ADDRESS QUEUE ANCHOR TABLE
380	(17C)	SIGNED	4	GDAEDFE8 (4)	SUBPOOL 248 DFE QUEUE HEADER
380	(17C)	ADDRESS	4	GDAEADF8	ADDRESS OF THE FIRST DFE ON THE SUBPOOL 248 ADDRESS QUEUE
384	(180)	ADDRESS	4	GDAEADL8	ADDRESS OF THE LAST DFE ON THE SUBPOOL 248 ADDRESS QUEUE
388	(184)	ADDRESS	4	GDAESZF8	ADDRESS OF THE FIRST DFE ON THE SUBPOOL 248 SIZE QUEUE
392	(188)	ADDRESS	4	GDAESZL8	ADDRESS OF THE LAST DFE ON THE SUBPOOL 248 SIZE QUEUE
396	(18C)	ADDRESS	4	GDATRAC	Address of the GETMAIN/FREEMAIN/STORAGE trace anchor block. Serialization: Read=none, Write=none. (Only IEAIPL04 writes this field.)
400	(190)	SIGNED	4	GDAESTSZ	Size of RSM's ESTE, computed by IPL04, passed to NPA8.

Comment

Fields related to tracking CSA. Unless noted otherwise, read serialization for all fields is none, and write serialization for all fields is the VSMFIX lock. To find more information about what these fields point to, see the mapping macro IGVCAUB.

End of Comment

404	(194)	ADDRESS	4	GDASCAUB	Address of the system CAUB. (PSPI)
408	(198)	ADDRESS	4	GDAUCAUB	Address of the unknown CAUB. (PSPI)
412	(19C)	ADDRESS	4	GDAFCAUB	Address of the first CAUB on the unowned queue (PSPI)
416	(1A0)	ADDRESS	4	GDALCAUB	Address of the last CAUB on the unowned queue (PSPI)
420	(1A4)	ADDRESS	4	GDAGQAT_INDEX	Address of the GQAT Index Table (PSPI)
424	(1A8)	BITSTRING	1	GDAFLAGS0	Flags
		1...		GDATRACKINGPERMANENTLYOFF	"X'80'" An error was detected while processing common storage tracking. Tracking was disabled and may not be restarted.
		.1..		GDATRACKINGCLEANEDUP	"X'40'" Indicates whether or not things have been cleaned up following setting of the TrackingPermanentlyOff bit.
425	(1A9)	BITSTRING	1	GDAFLAGS1	Flags
426	(1AA)	BITSTRING	1	GDAFLAGS2	Flags
427	(1AB)	BITSTRING	1	GDAFLAGS3	Flags
428	(1AC)	ADDRESS	4		Reserved

Comment

The following fields contain counts of how much common storage is GETMAINed.

End of Comment

432	(1B0)	SIGNED	4	GDA_CSA_ALLOC	Total non-extended CSA currently GETMAINed. (PSPI)

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
436	(1B4)	SIGNED	4	GDA_ECSA_ALLOC	Total extended CSA currently GETMAINed (PSPI)
440	(1B8)	SIGNED	4	GDA_SQA_ALLOC	Total non-extended SQA currently GETMAINed. This includes SQA that has been converted from CSA. Note that this does not include portions of pages that are free. That is, only GETMAINed storage is included here. (PSPI)
444	(1BC)	SIGNED	4	GDA_ESQA_ALLOC	Total extended SQA currently GETMAINed This includes ESQA that has been converted from ECSA. Note that this does not include portions of pages that are free. That is, only GETMAINed storage is included here. (PSPI)
448	(1C0)	SIGNED	4	GDA_CSA_CONV	Total non-extended CSA currently converted to non-extended SQA. (This includes portions of pages that are free.) (PSPI)
452	(1C4)	SIGNED	4	GDA_ECSA_CONV	Total extended CSA currently converted to to extended SQA. (This includes portions of pages that are free.) (PSPI)
456	(1C8)	SIGNED	4	GDACAANC (3)	CAUB CELL POOL HEADER
456	(1C8)	ADDRESS	4	GDACAADR	ADDRESS OF VSM'S CAUB CELL POOL
460	(1CC)	SIGNED	4	GDACACNT	NUMBER OF FREE CELLS IN CAUB CELL POOL
464	(1D0)	ADDRESS	4	GDAFCAAD	ADDRESS OF FIRST FREE CELL IN CAUB CELL
468	(1D4)	SIGNED	4	GDAVAANC (3)	VAB CELL POOL HEADER
468	(1D4)	ADDRESS	4	GDAVAADR	ADDRESS OF VSM'S VAB CELL POOL
472	(1D8)	SIGNED	4	GDAVACNT	NUMBER OF FREE CELLS IN VAB CELL POOL
476	(1DC)	ADDRESS	4	GDAFVAAD	ADDRESS OF FIRST FREE CELL IN VAB CELL
480	(1E0)	ADDRESS	4	GDASJOB@	Job start/stop service routine. This is not an intended interface.
484	(1E4)	ADDRESS	4	GDASYVAB	Address of system VAB (PSPI)
488	(1E8)	SIGNED	4	GDACSAGQECPANC (3)	CSA GQE CELL POOL HEADER
488	(1E8)	ADDRESS	4	GDACSAGQECPADR	ADDRESS OF CSA GQE CELL POOL
492	(1EC)	SIGNED	4	GDACSAGQECPCNT	NUMBER OF FREE CELLS IN CELL POOL
496	(1F0)	ADDRESS	4	GDACSAGQEFCADR	ADDRESS OF FIRST FREE CELL IN CELL
500	(1F4)	ADDRESS	4	GDADGQAT@	Address of dummy GQAT (PSPI)
504	(1F8)	SIGNED	4	GDASQAGQECPANC (3)	SQA GQE CELL POOL HEADER
504	(1F8)	ADDRESS	4	GDASQAGQECPADR	ADDRESS OF SQA GQE CELL POOL
508	(1FC)	SIGNED	4	GDASQAGQECPCNT	NUMBER OF FREE CELLS IN CELL POOL
512	(200)	ADDRESS	4	GDASQAGQEFCADR	ADDRESS OF FIRST FREE CELL IN CELL
516	(204)	CHARACTER	16	GDATRACKINGTIMESTAMPS (0)	Tracking timestamps (PSPI)
516	(204)	CHARACTER	8	GDACSATRACKINGTIMESTAMPS (0)	Timestamps for CSA
516	(204)	SIGNED	4	GDACSATRACKINGLASTON	Bits 0-31 of TOD clock when CSA tracking was last turned on. 0 if unchanged since IPL.
520	(208)	SIGNED	4	GDACSATRACKINGLASTOFF	Bits 0-31 of TOD clock when CSA tracking was last turned off. 0 if unchanged since IPL.
524	(20C)	CHARACTER	8	GDASQATRACKINGTIMESTAMPS (0)	Timestamps for SQA
524	(20C)	SIGNED	4	GDASQATRACKINGLASTON	Bits 0-31 of TOD clock when SQA tracking was last turned on. 0 if unchanged since IPL.

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
528	(210)	SIGNED	4	GDASQATRACKINGLASTOFF	Bits 0-31 of TOD clock when SQA tracking was last turned off. 0 if unchanged since IPL.
532	(214)	SIGNED	4	GDADOMID_IGV002E	
536	(218)	SIGNED	4	GDASQAHWM	GDA_SQA_Alloc high water mark
540	(21C)	SIGNED	4	GDAESQAHWM	GDA_ESQA_Alloc high water mark
544	(220)	SIGNED	4	GDACSAHWM	GDA_CSA_Alloc high water mark
548	(224)	SIGNED	4	GDAECSAHWM	GDA_ECSA_Alloc high water mark
552	(228)	CHARACTER	8		Reserved
560	(230)	SIGNED	4	GDANOCSADUMPTIMESTAMPH	When last dump taken for "NO CSA"
564	(234)	SIGNED	4	GDANOSQADUMPTIMESTAMPH	When last dump taken for "NO SQA"
568	(238)	CHARACTER	8		Reserved
576	(240)	DBL WORD	8	GDAEND (0)	
576	(240)	X'81000'	0	GDAHISUF	"129*4096" SRM CSA/SQA SPACE HIGH THRESHOLD - SUFFICIENT SPACE
576	(240)	X'41000'	0	GDALOSUF	"65*4096" SRM CSA/SQA SPACE LOW THRESHOLD - SUFFICIENT SPACE
576	(240)	X'80000'	0	GDAHIINS	"128*4096" SRM CSA/SQA SPACE HIGH THRESHOLD - INSUFFICIENT SPACE
576	(240)	X'40000'	0	GDALOINS	"64*4096" SRM CSA/SQA SPACE LOW THRESHOLD - INSUFFICIENT SPACE

GDA Cross Reference

Name	Hex Offset	Hex Value
GDA	0	
GDA_CSA_ALLOC	1B0	
GDA_CSA_CONV	1C0	
GDA_ECSA_ALLOC	1B4	
GDA_ECSA_CONV	1C4	
GDA_ESQA_ALLOC	1BC	
GDA_SQA_ALLOC	1B8	
GDAADF26	3C	
GDAADF39	EC	
GDAADF45	C	
GDAADL26	40	
GDAADL39	F0	
GDAADL45	10	
GDAAQAT5	8	
GDAAQAT6	38	
GDAAQAT9	E8	
GDACAADR	1C8	
GDACAANC	1C8	
GDACACNT	1CC	
GDACPAB	BC	
GDACPADR	B0	
GDACPANC	B0	
GDACPCNT	B4	
GDACSA	6C	
GDACSACV	8C	
GDACSADR	DC	
GDACSAGQECPADR	1E8	
GDACSAGQECPANC	1E8	
GDACSAGQECPCNT	1EC	
GDACSAGQEFCADR	1F0	
GDACSAHWM	220	
GDACSARD	64	
GDACSARE	84	
GDACSASZ	70	
GDACSATR	D8	8
GDACSATRACKINGLASTOFF	208	
GDACSATRACKINGLASTON	204	
GDACSATRACKINGTIMESTAMPS	204	
GDADFEQ5	C	
GDADFEQ6	3C	
GDADFEQ9	EC	
GDADGQAT@	1F4	
GDADOMID_IGV002E	214	
GDAEADF5	24	
GDAEADF7	14C	
GDAEADF8	17C	
GDAEADF9	104	
GDAEADL5	28	
GDAEADL7	150	
GDAEADL8	180	
GDAEADL9	108	
GDAEANC5	1C	
GDAEANC7	144	
GDAEANC8	174	
GDAEANC9	FC	
GDAEAQT5	20	
GDAEAQT7	148	
GDAEAQT8	178	
GDAEAQT9	100	

Name	Hex Offset	Hex Value
GDAECRD	74	
GDAECSA	7C	
GDAECSAHWM	224	
GDAECSAS	80	
GDAEDFE5	24	
GDAEDFE7	14C	
GDAEDFE8	17C	
GDAEDFE9	104	
GDAEFBCF	74	
GDAEFBCL	78	
GDAEND	240	
GDAEPVT	A8	
GDAEPVTS	AC	
GDAESQA	98	
GDAESQAHWM	21C	
GDAESQAS	9C	
GDAESQT5	1C	
GDAESQT7	144	
GDAESQT8	174	
GDAESQT9	FC	
GDAESTSZ	190	
GDAESZF5	2C	
GDAESZF7	154	
GDAESZF8	184	
GDAESZF9	10C	
GDAESZL5	30	
GDAESZL7	158	
GDAESZL8	188	
GDAESZL9	110	
GDAFBQCF	64	
GDAFBQCL	68	
GDAFCAAD	1D0	
GDAFCADR	B8	
GDAFCAUB	19C	
GDAFLAGS0	1A8	
GDAFLAGS1	1A9	
GDAFLAGS2	1AA	
GDAFLAGS3	1AB	
GDAFLGS	D8	
GDAFVAAD	1DC	
GDAGFSTR	D8	20
GDAGQAT_INDEX	1A4	
GDAHIINS	240	80000
GDAHISUF	240	81000
GDAID	0	
GDALCAUB	1A0	
GDALOINS	240	40000
GDALOSUF	240	41000
GDALOW1	D8	80
GDALOW2	D8	40
GDANOCSADUMPTIMESTAMPH	230	
GDANONFM	11C	
GDANOSQADUMPTIMESTAMPH	234	
GDAPGT	124	
GDAPGTAD	124	
GDAPGTSZ	128	
GDAPPDFX	118	
GDAPPDPG	114	
GDAPVT	A0	
GDAPVTSZ	A4	
GDAQANC5	4	
GDAQANC6	34	
GDAQANC7	12C	
GDAQANC8	15C	
GDAQANC9	E4	
GDARGR	D0	
GDASCAUB	194	
GDASJOB@	1E0	
GDASM	11C	
GDASMAD	11C	
GDASMSZ	120	
GDASPT	88	
GDASPTT	D4	
GDASQA	90	
GDASQAGQECPADR	1F8	
GDASQAGQECPANC	1F8	
GDASQAGQECPCNT	1FC	
GDASQAGQEFCADR	200	
GDASQAHWM	218	
GDASQAOK	D8	10
GDASQASZ	94	
GDASQATR	D8	4
GDASQATRACKINGLASTOFF	210	
GDASQATRACKINGLASTON	20C	
GDASQATRACKINGTIMESTAMPS	20C	
GDASQAT5	4	
GDASQAT6	34	
GDASQAT9	E4	
GDASTTC	D8	2
GDASYVAB	1E4	
GDASZF26	44	
GDASZF39	F4	
GDASZF45	14	
GDASZL26	48	
GDASZL39	F8	
GDASZL45	18	
GDATRAC	18C	
GDATRACKINGCLEANEDUP	1A8	40
GDATRACKINGPERMANENTLYOFF	1A8	80
GDATRACKINGTIMESTAMPS	204	
GDAUCAUB	198	
GDAVAADR	1D4	
GDAVAANC	1D4	
GDAVACNT	1D8	
GDAVR	C0	
GDAVREGS	C8	
GDAVRSZ	C4	
GDAWRKA	CC	
GDAWRKAP	E0	
PASIZE	A4	A4
PASTRT	A0	A0

GRPL Heading Information

Common Name: VSM Getregion Parameter List
Macro ID: IGVGRPL
DSECT Name: IGVGRPL
Owning Component: Virtual Storage Manager (SC1CH)
Eye-Catcher ID: None
Subpool and Key: 245 and key 0
Size: 24 bytes
Created by: IGVGRRGN, IGVGVGRN
Serialization: None
Function: Interface between VSM GET/FREE REGION routines

GRPL Map

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	24	GRPL	FRR PARAMETER LIST FOR GET REAL OR VIRTUAL REGION
0	(0)	ADDRESS	4	GRPLGCD	CODE REGISTER
4	(4)	ADDRESS	4	GRPLGWK	DYNAMIC AREA ADDRESS
8	(8)	ADDRESS	4	GRPLCWK	CALLED ROUTINE DYNAMIC AREA ADDRESS
12	(C)	ADDRESS	4	GRPLRSMP	ADDRESS OF RSM PARM LIST
16	(10)	SIGNED	2	GRPLGSZ	GET REGION DYNAMIC AREA SIZE
18	(12)	SIGNED	2	GRPLCSZ	CALLED ROUTINE DYNAMIC AREA SIZE
20	(14)	BITSTRING	1	GRPLFOOT	FOOTPRINT INDICATORS
		1...		GRPLFVRG	1=> IN IGVFVRGN
		.1..		GRPLFRRG	1=> IN IGVFRRGN
		..1.		GRPLIGVL	1=> IN IGVLIMIT
		...1		GRPLIEAL	1=> IN IEALIMIT
		.... 1...		GRPLDAQA	1=> IN IGVDAQAT
		.... .111		*	UNUSED
21	(15)	BITSTRING	1	GRPLPROC	PROCESSING BITS
		1...		GRPLPERC	1=> FORCE PERCOLATION OF ABEND
		.1..		GRPLRCUR	1=> RECOVERY HAS BEEN ENTERED
		..1.		GRPLRSM	1=> RSM HAS BEEN CALLED
		...1		GRPLVVSP	1=> V=V SPACE HAS BEEN ENTIRELY REMOVED FROM THE RD
		.... 1...		GRPLEOTF	SAVEAREA FOR TCBEOTFM BIT SETTING
		.... .111		*	UNUSED

GRPL Cross Reference

Name	Hex Offset	Hex Value
GRPL	0	
GRPLCSZ	12	
GRPLCWK	8	
GRPLDAQA	14	08
GRPLEOTF	15	08
GRPLFOOT	14	
GRPLFRRG	14	40
GRPLFVRG	14	80
GRPLGCD	0	
GRPLGSZ	10	
GRPLGWK	4	
GRPLIEAL	14	10
GRPLIGVL	14	20
GRPLPERC	15	80
GRPLPROC	15	
GRPLRCUR	15	40
GRPLRSM	15	20
GRPLRSMP	C	
GRPLVVSP	15	10

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GSDA Heading Information

Common Name: Global System Duplex Area
Macro ID: IHAGSDA
DSECT Name: GSDA
Owning Component: Supervisor Control (SC1C5)
Eye-Catcher ID: None
Storage Attributes: Residency: Nucleus resident
Size: Offset of GSDAEND minus the offset of GSDA.
Created by: IEAVGSDA
Pointed to by: CVTGSDA
Serialization: By IPL/NIP. The GSDA is filled in by NIP and not modified after module IEAVNP09 is executed.
Function: Provide duplex area for critical system pointers.

GSDA Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	232	GSDA	
0	(0)	ADDRESS	4	GSDAASVT	ASVT DUPLEXED ADDRESS
4	(4)	ADDRESS	4	GSDAPCCT	PCCAT DUPLEXED ADDRESS
8	(8)	ADDRESS	4	GSDAGDA	GDA DUPLEXED ADDRESS
12	(C)	ADDRESS	4	GSDACSD	CSD DUPLEXED ADDRESS
16	(10)	ADDRESS	4	GSDALCCT	LCCAT DUPLEXED ADDRESS
20	(14)	SIGNED	4	GSDAMAX	MAXUSER VALUE DUPLEX AREA
20	(14)	SIGNED	2	*	NOT USED.
22	(16)	SIGNED	2	GSDAMAXU	MAXUSER DUPLEX AREA
24	(18)	SIGNED	2	GSDASTRT	NUMBER OF ASVT SLOTS RESERVED FOR START/SASI ADDRESS SPACES. OWNERSHIP: SUPERVISOR CONTROL. SERIALIZATION: NIP RIM PROCESS.
26	(1A)	SIGNED	2	GSDANONR	NUMBER OF ASVT SLOTS RESERVED TO REPLACE NON-REUSABLE ASIDS. OWNERSHIP: SUPERVISOR CONTROL. SERIALIZATION: NIP RIM PROCESS.

Comment

THE FOLLOWING FIELDS DUPLEX SVT FIELDS

End of Comment

28	(1C)	ADDRESS	4	GSDAENTY	SVTOENTY DUPLEXED ADDRESS.
32	(20)	ADDRESS	4	GSDASTKN	SVTSTKN DUPLEXED ADDRESS.
36	(24)	ADDRESS	4	GSDASTKE	SVTSTKNE DUPLEXED ADDRESS.
40	(28)	ADDRESS	4	GSDANALD	SVTNALD DUPLEXED ADDRESS.
44	(2C)	ADDRESS	4	GSDANALV	SVTNALV DUPLEXED ADDRESS.
48	(30)	ADDRESS	4	GSDASWUQ	SVTSWUQ DUPLEXED ADDRESS. SERIALIZATION: DISABLEMENT OWNERSHIP: SUPERVISOR CONTROL
52	(34)	ADDRESS	4	GSDALSCO	SVTLSCO duplexed address.

Comment

THE FOLLOWING FIELDS DUPLEX PSA FIELDS

End of Comment

56	(38)	CHARACTER	4	GSDAR0M1	PSACR0M1 duplexed value.
60	(3C)	CHARACTER	4	GSDAR0M2	PSACR0M2 duplexed value.
64	(40)	CHARACTER	48	GSDAATLK	PSADATLK duplexed value. Note that the contents of PSADATLK is defined in IEAVFX00.
112	(70)	ADDRESS	4	GSDAATOF	PSADATOF duplexed addr. Note that the contents of PSADATOF is initialized by IEAIPL02 using IEAVEDAT. (LNKGBASE points to IEAVEDAT.)

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GSDA Cross Reference

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
116	(74)	SIGNED	4	GSDAATLN	PSADATLN duplexed value. Note that the contents of PSADATLN is initialized by IEAIPL02 using IEAVEDAT. (LNKGBASE points to IEAVEDAT.)
120	(78)	CHARACTER	4	GSDAFACL	PSAFACL duplexed value.
				Comment	
				THE FOLLOWING FIELDS DUPLEX PSAX FIELDS	
				End of Comment	
124	(7C)	CHARACTER	64	GSDAXDATLK	PSAXDATLK duplexed value. Note that the contents of PSAXDATLK is defined in IEAVFX00.
188	(BC)	ADDRESS	4	GSDAXDATOF	PSAXDATOF duplexed addr. Note that the contents of PSAXDATOF is initialized by IEAIPL02 using IEAVEDAT. (LNKGBASE points to IEAVEDAT.)
192	(C0)	SIGNED	4	GSDAXDATLN	PSAXDATLN duplexed value. Note that the contents of PSAXDATLN is initialized by IEAIPL02 using IEAVEDAT. (LNKGBASE points to IEAVEDAT.)
196	(C4)	CHARACTER	1	GSDAARCH	
		1111 11..		*	
		.... ..1.		GSDAEMAME	
		1		GSDAESAME	
197	(C5)	CHARACTER	7	*	Unused
204	(CC)	CHARACTER	8	GSDACR0_AREA	
204	(CC)	CHARACTER	4	GSDACR0DEFAULT	Default CR0
208	(D0)	CHARACTER	4	GSDACR08TO12AND15VALUE	Value for bits 8-12,15
212	(D4)	CHARACTER	8	GSDACR12ERESET	ESAME CR12
212	(D4)	CHARACTER	4	*	n/a
216	(D8)	CHARACTER	4	GSDACR12RESET	VALUE FOR CR12
220	(DC)	ADDRESS	4	GSDALCCXVT	Address of LCCXVT
224	(E0)	ADDRESS	4	*	Reserved for future use
228	(E4)	SIGNED	4	GSDAPSASTOR	Copy of PsaSTOR
232	(E8)	CHARACTER	0	*	ASSURE DWORD ALIGNED

GSDA Cross Reference

Name	Hex Offset	Hex Value
GSDA	0	
GSDAARCH	C4	
GSDAASVT	0	
GSDAATLK	40	
GSDAATLN	74	
GSDAATOF	70	
GSDACR0_AREA	CC	
GSDACR0DEFAULT	CC	
GSDACR08TO12AND15VALUE	D0	
GSDACR12ERESET	D4	
GSDACR12RESET	D8	
GSDACSD	C	
GSDAEMAME	C4	02
GSDAENTY	1C	
GSDAESAME	C4	01
GSDAFACL	78	
GSDAGDA	8	
GSDALCCT	10	
GSDALCCXVT	DC	
GSDALSCO	34	
GSDAMAX	14	
GSDAMAXU	16	
GSDANALD	28	
GSDANALV	2C	
GSDANONR	1A	
GSDAPCCT	4	
GSDAPSASTOR	E4	
GSDAR0M1	38	
GSDAR0M2	3C	
GSDASTKE	24	
GSDASTKN	20	
GSDASTRT	18	
GSDASWUQ	30	
GSDAXDATLK	7C	
GSDAXDATLN	C0	
GSDAXDATOF	BC	

GTD Heading Information

Common Name: GTF DATA IN TRACE DATA SET RECORDS.
Macro ID: AHLZGTD.
DSECT Name: N/A
Owning Component: SC111 (GENERALIZED TRACE FACILITY).
Eye-Catcher ID: N/A
Offset: N/A
Length: N/A
Storage Attributes: Main Storage: N/A
Virtual Storage: N/A
Auxiliary Storage: N/A
Subpool: N/A
Key: N/A
Data Space: N/A
Residency: N/A
Size: SEE ASSEMBLER LISTING.
Created by: THE TRACE WRITER.
Pointed to by: (NOT APPLICABLE)
Serialization: NONE.
Function: AHLZGTD DESCRIBES THE STRUCTURE OF THE GTF DATA PART OF THE DATA RECORDS IN A GTF DATA SET. IT DEFINES GTD, THE COMMON PART OF THE DATA, AND FIELDS FOR SOME INDIVIDUAL RECORD TYPES.

GTD Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	16	GTD	GTF trace data.
0	(0)	ADDRESS	4	GTDASCB	For most records, an ASCB address.
4	(4)	UNSIGNED	2	GTDCPU	For most records, a CPU address.
6	(6)	CHARACTER	8	GTDJOB	For most records, a job name.
6	(6)	CHARACTER	8	GTDPSW	For some records, a program status word.
14	(E)	UNSIGNED	2	GTDDEV	For many trace records, a device address.
16	(10)	CHARACTER	0	GTDEND	The rest of the record.

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	*	GTDU	User trace record fields.
0	(0)	CHARACTER	4	GTDUASCB	The address of the ASCB.
4	(4)	CHARACTER	8	GTDUJOB	The job name.
12	(C)	CHARACTER	*	GTDUDATA	The user-suppled trace data.

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GTD Cross Reference

Name	Hex Offset	Hex Value
GTD	0	
GTDASCB	0	
GTDCPU	4	
GTDDEV	E	
GTDEND	10	
GTDJOB	6	
GTDPSW	6	
GTDU	0	
GTDUASCB	0	
GTDUDATA	C	
GTDUJOB	4	

GTO Heading Information

Common Name: GTF TRACE OPTIONS MAPPING.
Macro ID: AHLZGTO.
DSECT Name: N/A
Owning Component: SC111 (GENERALIZED TRACE FACILITY).
Eye-Catcher ID: N/A
Offset: N/A
Length: N/A
Storage Attributes: Main Storage: N/A
Virtual Storage: N/A
Auxiliary Storage: N/A
Subpool: N/A
Key: N/A
Data Space: N/A
Residency: N/A
Size: VARIABLE.
Created by: THE TRACE WRITER AND THE COPYTRC IPCS SUBCOMMAND.
Pointed to by: (NOT APPLICABLE)
Serialization: NONE.
Function: AHLZGTO DESCRIBES THE GTF OPTIONS IN THE CONTROL RECORDS IN THE GTF TRACE DATA SET. IT DEFINES THE FOLLOWING STRUCTURE:
GTO - THE GTF OPTIONS.

GTO Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	GTO	- THE GTF TRACE OPTIONS.
0	(0)	BITSTRING	1	GTOBYTE0	
		1...		GTOSYSM	"BIT0" SYSM - RECORDS MINIMAL DATA FOR SYSTEM EVENTS. - RECORDS EVENTS AS IF EACH OF THE FOLLOWING OPTIONS IS SPECIFIED, EXCEPT THAT MINIMAL TRACE DATA IS RECORDED: EXT, PI, SVC AND RR. - RECORDS EVENTS AS IF EACH OF THE FOLLOWING OPTIONS IS SPECIFIED: IO, SSCH, CSCH, HSCH AND MSCH. - IF ANY OF THE FOLLOWING OPTIONS ARE SPECIFIED CAUSES MINIMAL RECORDING TO BE DONE FOR THEM: DSP, RNIO AND SRM. - THE FOLLOWING OPTIONS ARE IGNORED: EXT, PI, SVC, RR, IO, SSCH, CSCH, HSCH AND MSCH.
		.1..		GTOSYSP	"BIT1" SYSP - RECORDS COMPREHENSIVE TRACE DATA FOR SYSTEM EVENTS, WITH PROMPTING. - GTF PROMPTS THE OPERATOR FOR THE ONLY PI, SVC, IO AND SSCH EVENTS THAT WILL HAVE DATA RECORDED. - OTHERWISE, GTF RECORDS THE SAME EVENTS AS THOSE RECORDED BY SYS. - GTF IGNORES THE FOLLOWING OPTIONS: EXT, PI, SVC, RR, IO, SSCH, CSCH, HSCH AND MSCH.
		..1.		GTOSYS	"BIT2" SYS - RECORDS COMPREHENSIVE TRACE DATA FOR SYSTEM EVENTS. - RECORDS EVENTS AS IF EACH OF THE FOLLOWING OPTIONS IS SPECIFIED: EXT, PI, SVC, RR, IO, SSCH, CSCH, HSCH AND MSCH. - THE FOLLOWING OPTIONS ARE IGNORED: EXT, PI, SVC, RR, IO, SSCH, CSCH, HSCH AND MSCH.
		...1		GTOUSR	"BIT3" USR - RECORDS ALL USER TRACE DATA PASSED TO GTF BY THE GTRACE MACRO.

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Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		.... 1...		GTOTRC	"BIT4" TRC - RECORDS EVENTS ASSOCIATED WITH GTF ITSELF. THIS CAUSES TRACING ONLY WHEN AT LEAST ONE OTHER TYPE OF EVENT IS BEING TRACED.
		.... .1..		GTODSP	"BIT5" DSP - RECORDS DISPATCHER EVENTS. IF SYSM IS ALSO SPECIFIED, GTF RECORDS MINIMAL TRACE DATA. OTHERWISE, GTF RECORDS COMPREHENSIVE TRACE DATA.
		1		GTOPCI	"BIT7" PCI - RECORDS I/O INTERRUPTIONS THAT INDICATE INTERMEDIATE STATUS. THESE INCLUDE PROGRAM-CONTROLLED INTERRUPTIONS (PCIS), INITIAL STATUS REQUEST INTERRUPTIONS, AND RESUME AND SUSPEND CHANNEL PROGRAM INTERRUPTIONS. - WHEN IOP SPECIFIES PARTICULAR DEVICES, PCI APPLIES ONLY TO THEM. - PCI CAUSES TRACING ONLY WHEN ONE OF THE FOLLOWING IS ALSO SPECIFIED: IO, IOP, SYS, SYSM, SYSP.
1	(1)	BITSTRING	1	GTOBYTE1	
		1...		GTOSVC	"BIT0" SVC - RECORDS SUPERVISOR CALL INTERRUPTIONS. IF SYSM IS ALSO SPECIFIED, GTF RECORDS MINIMAL TRACE DATA. OTHERWISE, GTF RECORDS COMPREHENSIVE TRACE DATA.
		.1..		GTOSVCP	"BIT1" SVCP - LIKE SVC, BUT GTF PROMPTS THE OPERATOR FOR THE ONLY SVC NUMBERS THAT WILL HAVE DATA RECORDED.
		..1.		GTOSIO	"BIT2" SIO - RECORDS START I/O OPERATIONS - EQUIVALENT TO SSCH.
		...1		GTOSIOP	"BIT3" SIOP - SIO WITH PROMPTING - EQUIVALENT TO SSCHP.
		.... 1...		GTOPI	"BIT4" PI - RECORDS PROGRAM INTERRUPTIONS. IF SYSM IS ALSO SPECIFIED, GTF RECORDS MINIMAL TRACE DATA. OTHERWISE, GTF RECORDS COMPREHENSIVE TRACE DATA.
		.... .1..		GTOPIP	"BIT5" PIP - LIKE PI, BUT GTF PROMPTS THE OPERATOR FOR THE ONLY PROGRAM INTERRUPTION CODES THAT WILL HAVE DATA RECORDED.
		.... ..1.		GTOIO	"BIT6" IO - RECORDS I/O INTERRUPTIONS. GTF DOES NOT RECORD INTERMEDIATE-STATUS INTERRUPTIONS UNLESS PCI IS ALSO SPECIFIED.
		1		GTOIOP	"BIT7" IOP - LIKE IO, BUT GTF PROMPTS THE OPERATOR FOR THE ONLY DEVICES THAT WILL HAVE DATA RECORDED.
2	(2)	BITSTRING	1	GTOBYTE2	
		1...		GTOEXT	"BIT0" EXT- RECORDS EXTERNAL INTERRUPTIONS. IF SYSM IS ALSO SPECIFIED, GTF RECORDS MINIMAL TRACE DATA. OTHERWISE, GTF RECORDS COMPREHENSIVE TRACE DATA.
		.1..		GTORNIO	"BIT1" RNIO - RECORDS VTAM (REMOTE NETWORK) ACTIVITY. IF SYSM IS ALSO SPECIFIED, GTF RECORDS MINIMAL TRACE DATA. OTHERWISE, GTF RECORDS COMPREHENSIVE TRACE DATA. THIS CAUSES TRACING ONLY WHEN VTAM TRACING IS ACTIVE.
		..1.		GTOSRM	"BIT2" SRM - RECORDS CALLS TO THE SYSTEM RESOURCE MANAGER. IF SYSM IS ALSO SPECIFIED, GTF RECORDS MINIMAL TRACE DATA. OTHERWISE, GTF RECORDS COMPREHENSIVE TRACE DATA.
		...1		GTORR	"BIT3" RR - RECORDS DATA ASSOCIATED WITH RECOVERY ROUTINES, SUCH AS ESTAES AND STAES. IF SYSM IS ALSO SPECIFIED, GTF RECORDS MINIMAL TRACE DATA. OTHERWISE, GTF RECORDS COMPREHENSIVE TRACE DATA.
		.... 1...		GTOSLIP	"BIT4" SLIP - RECORDS SLIP TRAP DATA.
		.... .1..		GTOCCW	"BIT5" CCW - RECORDS CHANNEL PROGRAM DATA. THIS CAUSES TRACING ONLY WHEN ONE OF THE FOLLOWING OPTIONS IS SPECIFIED: SSCH, SSCHP, IO, OR IOP.

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		.... ..1.		GTOCCWP	"BIT6" CCWP - LIKE CCW, BUT GTF WILL PROMPT THE OPERATOR FOR THE FOLLOWING INFORMATION: WHETHER TO TRACE DATA FOR SSCH OPERATIONS OR I/O INTERRUPTIONS OR BOTH, THE MAXIMUM NUMBER OF CCWS PER EVENT, THE MAXIMUM NUMBER OF DATA BYTES PER CCW, WHETHER TO TRACE IOSB AND EWA DATA (THESE ARE MVS CONTROL BLOCKS ASSOCIATED WITH I/O), AND THE SIZE OF THE PCI TABLE.
		1		GTOISIO	"BIT7" THE DEVICES TRACED SELECTIVELY FOR IO AND SIO ARE IDENTICAL.
3	(3)	BITSTRING	1	GTOBYTE3	
		1...		GTOCCWI	"BIT0" CCW=I - RECORDS CHANNEL PROGRAM DATA FOR I/O INTERRUPTIONS. THIS CAUSES TRACING ONLY WHEN IO OR IOP IS SPECIFIED.
		.1..		GTOCCWS	"BIT1" CCW=S - RECORDS CHANNEL PROGRAM DATA FOR START SUBCHANNEL AND RESUME SUBCHANNEL OPERATIONS. THIS CAUSES TRACING ONLY WHEN SSCH OR SSCHP IS SPECIFIED.
		..1.		GTOJOBP	"BIT2" JOBNAMEP - LIMITS ALL TRACING TO THE JOBS SPECIFIED. GTF PROMPTS THE OPERATOR FOR THE ONLY JOBS THAT WILL HAVE DATA RECORDED.
		...1		GTOASIDP	"BIT3" ASIDP - LIMITS ALL TRACING TO THE ADDRESS SPACE IDENTIFIERS (ASIDS) SPECIFIED. GTF PROMPTS THE OPERATOR FOR THE ONLY ASIDS THAT WILL HAVE DATA RECORDED.
		.... 1...		GTOUSRP	"BIT4" USRP - USR WITH PROMPTING. GTF PROMPTS THE OPERATOR FOR THE ONLY USER EVENTS THAT WILL HAVE DATA RECORDED.
		1		GTOTIME	"BIT7" TIME STAMPS APPEAR IN GTF TRACE DATA RECORDS. THIS IS ALWAYS 1.
4	(4)	BITSTRING	1	GTOBYTE4	
		1...		GTOSSCH	"BIT0" SSCH - RECORDS START SUBCHANNEL AND RESUME SUBCHANNEL OPERATIONS.
		.1..		GTOSSCHP	"BIT1" SSCHP - SSCH WITH PROMPTING. GTF PROMPTS THE OPERATOR FOR THE ONLY DEVICES THAT WILL HAVE DATA RECORDED.
		..1.		GTOMSCH	"BIT2" MSCH - RECORDS MODIFY SUBCHANNEL OPERATIONS.
		...1		GTOHSCH	"BIT3" HSCH - RECORDS HALT SUBCHANNEL OPERATIONS.
		.... 1...		GTOCSCH	"BIT4" CSCH - RECORDS CLEAR SUBCHANNEL OPERATIONS.
		1		GTOISSCH	"BIT7" THE DEVICES TRACED SELECTIVELY FOR IO AND SSCH ARE IDENTICAL.
5	(5)	BITSTRING	1	GTOBYTE5	RESERVED.
6	(6)	BITSTRING	1	GTOBYTE6	RESERVED.
7	(7)	BITSTRING	1	GTOBYTE7	RESERVED.

GTO Cross Reference

Name	Hex Offset	Hex Value
GTO	0	
GTOASIDP	3	10
GTOBYTE0	0	
GTOBYTE1	1	
GTOBYTE2	2	
GTOBYTE3	3	
GTOBYTE4	4	
GTOBYTE5	5	
GTOBYTE6	6	
GTOBYTE7	7	
GTOCCW	2	4
GTOCCWI	3	80
GTOCCWP	2	2
GTOCCWS	3	40
GTOCSCH	4	8
GTODSP	0	4
GTOEXT	2	80
GTOHSCH	4	10
GTOIO	1	2
GTOIOP	1	1
GTOISIO	2	1
GTOISSCH	4	1
GTOJOBP	3	20
GTOMSCH	4	20
GTOPCI	0	1
GTOPI	1	8
GTOPIP	1	4
GTORNIO	2	40
GTORR	2	10
GTOSIO	1	20
GTOSIOP	1	10
GTOSLIP	2	8
GTOSRM	2	20
GTOSSCH	4	80
GTOSSCHP	4	40
GTOSVC	1	80
GTOSVCP	1	40
GTOSYS	0	20
GTOSYSM	0	80
GTOSYSP	0	40
GTOTIME	3	1
GTOTRC	0	8
GTOUSR	0	10
GTOUSRP	3	8

GTS Programming Interface information

Programming Interface information

GTS

End of Programming Interface information

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GTS Heading Information

Common Name: GENERALIZED TRACE DATA SOURCE DESCRIPTOR.
Macro ID: AHLZGTS.
DSECT Name: GTS
Owning Component: GTF (SC111)
Eye-Catcher ID: GTS
Offset: 0
Length: 4
Storage Attributes: Subpool: n/a
Key: n/a
Size: 64
Created by: THE TRACE WRITER.
Pointed to by: n/a
Serialization: NONE.
Function: AHLZGTS MAPS A TRACE SOURCE DESCRIPTOR. IT CONTAINS A REPRESENTATION OF THE SYSTEM THAT RECORDED THE DATA AND THE TRACE OPTIONS IN EFFECT WHEN THE DATA WAS RECORDED.

GTS Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	GTS	- TRACE SOURCE DESCRIPTOR.
0	(0)	CHARACTER	4	GTSID	IDENTIFIER 'GTS '.
0	(0)	X'E3E240'	0	GTSIDV	"C'GTS '" VALUE FOR GTSID. USE "DC AL4(GTSIDV)" TO DEFINE A FIELD FOR COMPARING GTSID TO.
4	(4)	SIGNED	1	GTSVERS	VERSION NUMBER.
4	(4)	X'1'	0	GTSVERSV	"1" VALUE FOR GTSVERS. 1=HBB4410.
5	(5)	SIGNED	1	GTSFMT	FORMAT OF THIS GTS (MUST BE 0).
6	(6)	SIGNED	1	GTSLEN	LENGTH OF THIS GTS.
7	(7)	CHARACTER	1		RESERVED.
8	(8)	CHARACTER	8	GTSREL	RELEASE LEVEL OF THE SYSTEM.
16	(10)	CHARACTER	8	GTSFMID	FMID OF THE SYSTEM.
24	(18)	CHARACTER	8	GTSSNAME	GTS SYSTEM NAME.
32	(20)	CHARACTER	8	GTSCPUID	CPU ID OF THE SYSTEM. THE CPU ADDRESS HAS BEEN SET TO 0.
40	(28)	CHARACTER	8	GTSLSO	LEAP YEAR SECOND VALUE FROM CVT.
48	(30)	CHARACTER	8	GTSLDTO	LOCAL TIME OFFSET FROM CVT.
56	(38)	CHARACTER	8	GTSOPTS	GTF OPTIONS IN EFFECT.
64	(40)	CHARACTER	1	(0)	END OF GTS.

GTS Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
GTS	0		GTSVERSV	4	1
GTSCPUID	20				
GTSFMID	10				
GTSFMT	5				
GTSID	0				
GTSIDV	0	E3E240			
GTSLDTO	30				
GTSLEN	6				
GTSLSO	28				
GTSOPTS	38				
GTSREL	8				
GTSSNAME	18				
GTSVERS	4				

GTW Heading Information

Common Name: GENERALIZED TRACE WRITER DATA.
Macro ID: AHLZGTW.
DSECT Name: N/A
Owning Component: SC111 (GENERALIZED TRACE FACILITY).
Eye-Catcher ID: N/A
Offset: N/A
Length: N/A
Storage Attributes: Main Storage: N/A
Virtual Storage: N/A
Auxiliary Storage: N/A
Subpool: N/A
Key: N/A
Data Space: N/A
Residency: N/A
Size: VARIABLE.
Created by: THE TRACE WRITER AND THE COPYTRC IPCS SUBCOMMAND.
Pointed to by: (NOT APPLICABLE)
Serialization: NONE.
Function: AHLZGTW DESCRIBES THE STRUCTURE OF THE DIFFERENT KINDS OF RECORD WRITTEN TO DATA SETS BY THE TRACE WRITER. IT DEFINES THE FOLLOWING STRUCTURES:
GTWB - TRACE DATA BLOCK.
GTW - TRACE OUTPUT RECORD.
GTWC - TRACE CONTROL RECORD.
GTWD - TRACE DATA RECORD.
GTWL - TRACE LOST DATA RECORD.

GTW Map

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	4	GTWB	An output block of trace data.
0	(0)	SIGNED	2	GTWBLEN	The length of the entire block (required by data management).
2	(2)	CHARACTER	2	*	Reserved (data management requires that this be 0).
4	(4)	CHARACTER	0	GTWBRECS	Trace output records, mapped by GTW.
4	(4)	CHARACTER	0	GTWBCNTL	The control record that each block must begin with. It is followed by one or more data and lost data records.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	6	GTW	A trace output data record.
0	(0)	SIGNED	2	GTWLEN	The length of the record (required by data management).
2	(2)	CHARACTER	2	*	Reserved (data management requires that this be 0).
4	(4)	CHARACTER	1	GTWAID	The trace application identifier (AID) for this record. See the constants GTWAxxxx declared below for the possible values of this field.
5	(5)	CHARACTER	1	GTWFID	The trace format identifier for this record.
6	(6)	CHARACTER	0	GTWVAR	The rest of the record. This varies, depending on the value of GTWAID. If this is a control or lost data record, it also depends on GTWFID.

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Offsets Dec	Offsets Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	*	GTWC	A trace output control record.
0	(0)	CHARACTER	6	GTWCI	The initial portion, mapped by GTW.
6	(6)	CHARACTER	4	GTWCZONE	The time zone for all the records in this block. It is expected that all the trace records in a single data set or in a collection of data sets to be merged will have the same time zone. If this block contains records that have been merged from different time zones, the value here is the smallest of the time zone values.
10	(A)	CHARACTER	8	GTWCTIME	This contains a time value in TOD-clock format which is less accurate than the time values in individual records. It is present to maintain compatibility with pre-SP4.1.0 traces.
18	(12)	CHARACTER	8	GTWCFORM	Format information for the control record and other records in this block. To maintain some compatibility with pre-SP4.1.0 systems, the GTF options of all sources are ORed here.
18	(12)	BITSTRING	3	*	GTF options and other reserved fields.
21	(15)	1		GTWCFTIM	If 1, individual records have time stamps (this is always the case for post-SP4.1.0 trace records). If 0, the time stamp field in individual records is missing.
22	(16)	BITSTRING	1	*	GTF options and other reserved fields.
23	(17)	.... ..1.		GTWCFSID	The data records in this block have source identifiers. Their format is incompatible with pre-SP4.1.0 data.
		1		GTWCFNEW	This block was written by a post-SP4.1.0 trace.
24	(18)	BITSTRING	2	*	Reserved.
26	(1A)	CHARACTER	*	GTWCSRCE	The array of source descriptors for the origins of the records in this block. A source descriptor is mapped by GTS in AHLZGTS. The source identifier in fields GTWLSRCE and GTWDSRCE is an array index (beginning with 1). All source descriptor arrays are the same in all control records in a trace data set.

Offsets Dec	Offsets Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	24	GTWL	A lost trace data record.
0	(0)	CHARACTER	6	GTWLI	The initial portion, mapped by GTW.
6	(6)	CHARACTER	4	GTWLZONE	The time zone for this record.
10	(A)	CHARACTER	8	GTWLTIME	The time-of-day clock value for this record.
18	(12)	UNSIGNED	4	GTWLCNT	The count of lost trace events. If this is a "lost system storage block" record (FID=3), the value of this field is undefined.
22	(16)	CHARACTER	0	GTWLEND1	End of the lost data record when the source ID is not present.
22	(16)	SIGNED	2	GTWLSRCE	If GTWCFSID=1 in the control records associated with this data set, this is the source ID of the source that created the lost data. If GTWCFSID=0, this field is missing. (New in SP4.1.0.)
24	(18)	CHARACTER	0	GTWLEND2	End of the lost data record when the source ID is present.

Offsets Dec	Offsets Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	24	GTWD	A trace data record.
0	(0)	CHARACTER	6	GTWDI	The initial portion, mapped by GTW.
6	(6)	CHARACTER	8	GTWDTIME	The time stamp for when this record was created (time-of-day clock format).
14	(E)	BITSTRING	2	GTWDEID	The event identifier.
		1111		GTWDMCLA	The monitor class for this event.
14	(E)	BITSTRING	1	GTWDMCOD	The monitor code for this event.
16	(10)	CHARACTER	0	GTWDEND1	The data part of the record, if GTWDSRCE is not present.
16	(10)	SIGNED	2	GTWDSRCE	If GTWCFSID = 1, this is the identifier of the trace source that created this record. If GTWCFSID = 0, this field is missing, or is all 0 if this is a split record.
18	(12)	CHARACTER	0	GTWDEND2	The data part of the record, if GTWDSRCE is present and this is not a split record.
18	(12)	SIGNED	2	GTWDSEQ	(Split records only) The sequence number of this split record.
20	(14)	SIGNED	4	GTWDTOTL	(Split records only) The total length of the split trace data.
24	(18)	CHARACTER	0	GTWDEND3	(Split records only) The data part of the record.

GTW Constants

Len	Type	Value	Name	Description
			Comment	
			Application identifiers (AIDs)	
			End of Comment	
1	HEX	00	GTWACNLD	Control or lost data record.
1	HEX	F0	GTWASPLF	Split trace data record (first record).
1	HEX	F1	GTWASPLM	Split trace data record (middle record).
1	HEX	F3	GTWASPLL	Split trace data record (last record).
			Comment	
			FD and FE: reserved.	
			End of Comment	
1	HEX	FF	GTWADATA	Trace data record (not split).
			Comment	
			Format identifiers (FIDs)	
			End of Comment	
			Comment	
			AID 0, FID 0 is reserved. This was used before SP4.1.0 for the save-hook record that moved data from GTF to SDUMP and ABDUMP.	
			End of Comment	
1	HEX	01	GTWFCNTL	If GTWAID=GTWACNLD, this is a control record.
1	HEX	02	GTWFLDSY	If GTWAID=GTWACNLD, this is a lost data record. A system storage buffer (GTF BLOK) for the data could not be found.
1	HEX	03	GTWFLDCS	If GTWAID=GTWACNLD, this is a lost data record. A system storage buffer (GTF BLOK) was lost.

GTW Cross Reference

Name	Hex Offset	Hex Value
GTW	0	
GTWAID	4	
GTWB	0	
GTWBCNTL	4	
GTWBLEN	0	
GTWBRECS	4	
GTWC	0	
GTWCFNEW	17	01
GTWCFORM	12	
GTWCFSID	17	02
GTWCFTIM	15	01
GTWCI	0	
GTWCSRCE	1A	
GTWCTIME	A	
GTWCZONE	6	
GTWD	0	
GTWDEID	E	
GTWDEND1	10	
GTWDEND2	12	
GTWDEND3	18	
GTWDI	0	
GTWDMCLA	E	F0
GTWDMCOD	E	
GTWDSEQ	12	
GTWDSRCE	10	
GTWDTIME	6	
GTWDTOTL	14	
GTWFID	5	
GTWL	0	
GTWLCNT	12	
GTWLEN	0	
GTWLEND1	16	
GTWLEND2	18	
GTWLI	0	
GTWLSRCE	16	
GTWLTIME	A	
GTWLZONE	6	
GTWVAR	6	

GVT Programming Interface information

Programming Interface information

GVT

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

- GVTFUNCS
- GVTRCRNL
- GVTRNLEA
- GVTSERNL
- GVTSIRNL

End of Programming Interface information

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GVT Heading Information

Common Name: GLOBAL RESOURCE SERIALIZATION (GRS) VECTOR TABLE
Macro ID: ISGGVT
DSECT Name: GVT
Owning Component: Global Resource Serialization (SCSDS)
Eye-Catcher ID: GVT
Offset: 0
Length: 4
Storage Attributes: Subpool: Nucleus
Key: 0
Residency: Below 16M line
Size: 624 bytes
Created by: THE GVT IS CONTAINED IN THE NUCLEUS RESIDENT MODULE ISGGRS00. THE GVT IS AUTOMATICALLY CREATED WHEN THE NUCLEUS IS LOADED BY IEAIPL.
Pointed to by: THE GVT IS POINTED TO BY THE CVT FIELD CVTGVT.
Serialization: Based on the individual fields being referenced.
Function: THE GVT PROVIDES A MEANS OF COMMUNICATION WITHIN GRS. THE GVT CONTAINS ALL GLOBAL QUEUES, POINTERS, AND ENTRY POINT ADDRESSES. THE GVT IS DIVIDED INTO SECTIONS RELATING TO THE DIFFERENT FUNCTIONAL AREAS OF GRS: GRS INITIALIZATION, ENQ/DEQ MAINLINE, GRS RING PROCESSOR, GRS CTC DRIVER, AND GRS COMMAND PROCESSOR. THE FUNCTIONAL SECTIONS ARE FOLLOWED BY ASSIGNED PC NUMBERS AND ENTRY POINT ADDRESSES USED BY GRS MODULES.

GVT Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	GVT	GRS VECTOR TABLE
0	(0)	X'80'	0	BIT0	"128"
0	(0)	X'40'	0	BIT1	"64"
0	(0)	X'20'	0	BIT2	"32"
0	(0)	X'10'	0	BIT3	"16"
0	(0)	X'8'	0	BIT4	"8"
0	(0)	X'4'	0	BIT5	"4"
0	(0)	X'2'	0	BIT6	"2"
0	(0)	X'1'	0	BIT7	"1"
0	(0)	CHARACTER	4	GVTID	CONTROL BLOCK ACRONYM (GVT)

Comment

THE FOLLOWING SECTION OF THE GVT IS USED BY ALL AREAS OF GRS.

End of Comment

4	(4)	SIGNED	4	GVTGSECT (0)	GLOBAL SECTION
4	(4)	BITSTRING	1	GVTGSFLG	GRS GENERAL STATUS FLAGS

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		1...		GVTGRSAS	"BIT0" GRS ADDRESS SPACE FLAG - 0 = GRS ADDRESS SPACE NOT INITIALIZED (PC/PT SHOULD NOT BE ISSUED), 1 = GRS ADDRESS SPACE HAS BEEN INITIALIZED (PC/PT CAN BE ISSUED)
		.1..		GVTGRSNA	"BIT1" GLOBAL RESOURCE SERIALIZATION NOT ACTIVE FLAG - WHEN 1, GLOBAL RESOURCE SERIALIZATION IS NOT ACTIVE
		..1.		GVTGRSPC	"BIT2" GRS OPTION PROCESSING COMPLETE FLAG- WHEN 1, PROCESSING OF THE GRS= OPTION HAS BEEN DONE AND INITIALIZATION IS COMPLETE.
		...1		GVTPRGOK	"BIT3" PURGE PROCESSING OKAY FLAG - WHEN 1, PURGING OF LOCAL/GLOBAL RESOURCES PERFORMED BY THE GRS TERMINATION RESOURCE MANAGER IS ALLOWED
		.... 1...		GVTNCMDR	"BIT4" NO COMMAND ROUTER FLAG - WHEN 1, THE GRS COMMAND ROUTER (ISGCMDR) IS NOT ACTIVE
		.... .1..		GVTEXRES	"BIT5" EXCLUDE RESERVE REQUEST FLAG - WHEN 1, RESERVE REQUEST TO BE EXCLUDED FROM GLOBAL PROCESSING (SERIALIZED BY CMS ENQ/DEQ LOCK) BIT6 IS RESERVED
		1		GVTARQA	"BIT7" ALLOCATE CELLS FROM THE RQA/ERQA - WHEN 1, ALLOCATE CELLS FROM THE RQA/ERQA (USED BY ISGSALC)
5	(5)	BITSTRING	1	GVTQSFLG	GRS QUEUE STATUS FLAGS
		1...		GVTGQDMG	"BIT0" GLOBAL QUEUE DAMAGE FLAG - WHEN 1, THE GLOBAL RESOURCE QUEUES HAVE BEEN DAMAGED
		.1..		GVTLQDMG	"BIT1" LOCAL QUEUE DAMAGE FLAG - WHEN 1, THE LOCAL RESOURCE QUEUES HAVE BEEN DAMAGED
		..1.		GVTQMRGA	"BIT2" QUEUE MERGE ACTIVE FLAG - WHEN 1, ISGCQMRG IS IN THE PROCESS OF UPDATING THE GLOBAL QUEUES
6	(6)	BITSTRING	1	GVTGRSOP	GRS OPTION FLAGS
		1...		GVTSTART	"BIT0" START FLAG - WHEN 1, GRS OPTION IS START
		.1..		GVTJOIN	"BIT1" JOIN FLAG - WHEN 1, GRS OPTION IS JOIN
		..1.		GVTNONE	"BIT2" NONE FLAG - WHEN 1, GRS OPTION IS NONE
		...1		GVTTRYJN	"BIT3" TRYJOIN FLAG - WHEN 1, GRS OPTION IS TRYJOIN
		.... 1...		GVTSTAR	"BIT4" STAR FLAG - WHEN 1, GRS OPTION IS STAR
7	(7)	BITSTRING	1	GVTVFLAG	GRS VALIDATION FLAGS
		1...		GVTRNLVC	"BIT0" RNL VALIDATION COMPLETE FLAG - WHEN 1, VALIDATION COMPLETE FOR ALL RESOURCE NAME LISTS
		.1..		GVTVERNL	"BIT1" INVALID SYSTEMS EXCLUSION RNL FLAG - WHEN 1, ERROR EXISTS IN THE SYSTEMS EXCLUSION RESOURCE NAME LIST
		..1.		GVTVIRNL	"BIT2" INVALID SYSTEMS INCLUSION RNL FLAG - WHEN 1, ERROR EXISTS IN THE SYSTEMS INCLUSION RESOURCE NAME LIST
		...1		GVTVCRNL	"BIT3" INVALID RESERVE CONVERSION RNL FLAG - WHEN 1, ERROR EXISTS IN THE RESERVE CONVERSION RESOURCE NAME LIST
		.... 1...		GVTRNLEA	"BIT4" RNL EXCLUDE ALL FLAG - WHEN 1, GRSRNL=EXCLUDE IS IN EFFECT
8	(8)	BITSTRING	1	GVTGRSRP	GRS RING PROCESSING FLAGS
		1...		GVTNCOMM	"BIT0" NO COMMUNICATION FLAG - WHEN 1, CTC DRIVER AND RING PROCESSING ARE INOPERATIVE
		.1..		GVTMAINR	"BIT1" MAINRING FLAG - WHEN 1, THIS SYSTEM IS A MEMBER OF THE MAINRING
		..1.		GVTINACT	"BIT2" INACTIVE SYSTEM FLAG - WHEN 1, RING PROCESSING DISCOVERED A MAINRING FAILURE BUT THIS SYSTEM HAS NOT YET RESET ITS MAINRING RESOURCES
		...1		GVTOBSQD	"BIT3" OBSOLETE QUEUE DATA FLAG - WHEN 1, THIS SYSTEM HAS INCOMPLETE INFORMATION ABOUT GLOBAL RESOURCES HELD BY OTHER SYSTEMS

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		.... 1...		GVTAURST	"BIT4" AUTO RESTART FLAG - WHEN 1, THIS SYSTEM HAS THE ABILITY TO AUTOMATICALLY REBUILD A DISRUPTED GRS RING
		.... .1..		GVTJSRBS	"BIT5" CTC DRIVER SRB SCHEDULED FLAG - WHEN 1, THE UNUSUAL EVENT SRB OF CTC DRIVER HAS BEEN SCHEDULED
		1		GVTAURJN	"BIT7" REJOIN FLAG - WHEN 1, THIS SYSTEM HAS THE ABILITY TO AUTOMATICALLY REJOIN AN ACTIVE GRS RING
9	(9)	BITSTRING	1	GVTPRMLB	GRS PARMLIB PROCESSING STATUS FIELDS
		1...		GVTCNFER	"BIT0" GRSCNFXX PROCESSING STATUS FLAG WHEN 1, ERROR PROCESSING GRSCNFXX MEMBER OF SYS1.PARMLIB
		.1..		GVTRNLER	"BIT1" RNL PROCESSING STATUS FLAG WHEN 1, ERROR PROCESSING GRSRNLXX MEMBER OF SYS1.PARMLIB
		...1		GVTNOCTC	"BIT3" GRSCNFXX CTC FLAG - WHEN 1, NO CTC DEFINITIONS WERE SPECIFIED IN THE SYS1.PARMLIB GRSCNF MEMBER
10	(A)	BITSTRING	2		RESERVED
12	(C)	BITSTRING	4	GVTCMPAT	GRS COMPATIBILITY INDICATOR - ANY VERSION OF GRS HAVING THE SAME VALUE FOR THIS FIELD ARE COMPATIBLE WITH EACH OTHER
16	(10)	ADDRESS	4	GVTGVTX	ADDRESS OF THE GRS VECTOR TABLE EXTENSION
20	(14)	ADDRESS	4	GVTGASCB	ADDRESS OF THE ASCB FOR THE GRS ADDRESS SPACE
24	(18)	ADDRESS	4	GVTGRPRB	ADDRESS OF THE RB UNDER WHICH ISGGRP00 IS EXECUTING
28	(1C)	ADDRESS	4	GVTRSE	ADDRESS OF THE RNL-SEARCH EXTENSION TABLE (RSE)
32	(20)	SIGNED	4	GVTCS	Fullword containing flags that are set via Compare and Swap
32	(20)	BITSTRING	1	GVTCSFLG	Compare and swap flags
		1...		GVTSYNCH	"X'80'" Synchronous reserve flag
33	(21)	CHARACTER	3	GVTCSRSV	Reserved
36	(24)	BITSTRING	4		RESERVED

Comment

THE FOLLOWING SECTION OF THE GVT IS USED PRIMARILY BY THE INITIALIZATION MODULES OF GRS.

End of Comment

40	(28)	DBL WORD	8	GVTINITS (0)	GRS INITIALIZATION SECTION
40	(28)	ADDRESS	4	GVTNTCB	ADDRESS OF THE TCB UNDER WHICH ISGNASIM IS EXECUTING
44	(2C)	BITSTRING	4		RESERVED
48	(30)	SIGNED	4	GVTQWBCS	SIZE OF THE SQA STORAGE CONTAINING LOAD MODULE ISGGQWBC
52	(34)	SIGNED	4	GVTNTLIM	TIME LIMIT IN UNITS OF 0.01 SECONDS FOR FUNCTIONS PERFORMED BY ISGBCI FOR GRS INITIALIZATION MODULES
56	(38)	SIGNED	4	GVTERSVC	EARLY RESERVE COUNT (GLOBAL RESERVES CONVERTED TO LOCAL RESERVES) - ONLY INCREASED WHEN GVTEXRES IS SET (SERIALIZED BY CMS ENQ/DEQ LOCK)
60	(3C)	BITSTRING	4		RESERVED

Comment

THE FOLLOWING SECTION OF THE GVT IS USED PRIMARILY BY THE ENQ/DEQ MODULES OF GRS.

End of Comment

64	(40)	DBL WORD	8	GVTNQDQS (0)	ENQ/DEQ SECTION
64	(40)	DBL WORD	8	GVTPROCQ (0)	GRS PROCESS QUEUE CONSISTING OF QWBS QUEUED BY ISGBSR AND DEQUEUED BY ISGGRP00

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
64	(40)	ADDRESS	4	GVTPRCQF	ADDRESS OF THE FIRST QWB ON THE GRS PROCESS QUEUE - THAT IS, THE OLDEST QWB ON THE PROCESS QUEUE (SERIALIZED BY GRS LOCAL LOCK)
68	(44)	ADDRESS	4	GVTPRCQL	ADDRESS OF THE LAST QWB ON THE GRS PROCESS QUEUE - THAT IS, THE NEWEST QWB ON THE PROCESS QUEUE (SERIALIZED BY MAINRING RSA MESSAGE)
72	(48)	ADDRESS	4	GVTREQQ	GRS REQUEST QUEUE CONSISTING OF QWBS QUEUED BY ISGGNQDQ AND DEQUEUED BY ISGBSR (SERIALIZED BY COMPARE AND SWAP LOGIC)
76	(4C)	ADDRESS	4	GVTNQMON	ADDRESS OF CONTROL BLOCK CREATED BY ENQ MONITOR
80	(50)	SIGNED	4	GVTGLWSA (0)	GLOBAL/LOCAL AREAS USED BY ISGGNQDQ AND ISGGRP00
80	(50)	ADDRESS	4	GVTGQWA	ADDRESS OF THE GLOBAL QUEUE WORK AREA
84	(54)	ADDRESS	4	GVTGRXA	ADDRESS OF ISGGRX WORK AREA
88	(58)	ADDRESS	4	GVTLQWA	ADDRESS OF THE LOCAL QUEUE WORK AREA
92	(5C)	ADDRESS	4	GVTLGSA	ADDRESS OF THE LOCAL GROUP SUMMARY AREA
96	(60)	SIGNED	4	GVTLISTS (0)	GRS RESOURCE NAME LISTS
96	(60)	ADDRESS	4	GVTSERNL	ADDRESS OF THE SYSTEMS EXCLUSION RESOURCE NAME LIST
100	(64)	ADDRESS	4	GVTSIRNL	ADDRESS OF THE SYSTEMS INCLUSION RESOURCE NAME LIST
104	(68)	ADDRESS	4	GVTRCRNL	ADDRESS OF THE RESERVE CONVERSION RESOURCE NAME LIST
108	(6C)	BITSTRING	4		RESERVED
112	(70)	ADDRESS	4	GVTSMPL	ADDRESS OF AN SMPL USED TO REFRESH THE SMPL RESIDING IN THE SQA QWB
116	(74)	BITSTRING	2		RESERVED
118	(76)	SIGNED	2	GVTSQWBS	SIZE OF THE SQA QWB
120	(78)	ADDRESS	4	GVTSQWB	ADDRESS OF THE SQA QWB
124	(7C)	BITSTRING	4		RESERVED
128	(80)	SIGNED	4	GVTCREQ	CONCURRENT REQUEST THRESHOLD
132	(84)	SIGNED	4	GVTCREQA	CONCURRENT REQUEST LIMIT FOR AUTHORIZED CALLERS OF ENQ
136	(88)	ADDRESS	4	GVTGRPRA	ADDRESS OF A 500 BYTE WORK AREA USED BY ISGGREPR (SERIALIZED BY CMS ENQ/DEQ LOCK
140	(8C)	BITSTRING	4		RESERVED

Comment

THE FOLLOWING SECTION OF THE GVT IS USED PRIMARILY BY THE GRS RING PROCESSING MODULES.

End of Comment

144	(90)	DBL WORD	8	GVTRINGS (0)	GRS RING PROCESSING SECTION
144	(90)	CHARACTER	8	GVTSYSNM	SYSNAME OF CURRENT SYSTEM
152	(98)	BITSTRING	2		RESERVED
154	(9A)	SIGNED	2	GVTSYSID	SYSID OF CURRENT SYSTEM
156	(9C)	SIGNED	4		RESERVED LBC
160	(A0)	CHARACTER	8	GVTMREAT (0)	MAINRING RSA EXPECTED ARRIVAL TIME
160	(A0)	BITSTRING	7		
167	(A7)	BITSTRING	1		
		1		GVTRSAST	"BIT7" RSA STATUS, THE LOW ORDER BIT OF GVTMREAT, IS 1 WHEN THE THE MAINRING RSA IS AT THIS SYSTEM OR HAS BEEN FOUND TO BE OVERDUE. WHEN THE LOW ORDER BIT IS 0, THE MAINRING RSA IS NOT AT THIS SYSTEM.
168	(A8)	SIGNED	4	GVTMRSCW	MAINRING SEND COMPLETION WORD - WHEN 0, THE MAINRING RSA HAS BEEN SUCCESSFULLY SENT BY CTC DRIVER
172	(AC)	SIGNED	4	GVTDMSCW	DUMMY SEND COMPLETION WORD - WHEN 0, MESSAGES OTHER THAN THE MAINRING RSA HAVE BEEN SUCCESSFULLY SENT BY CTC DRIVER

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
176	(B0)	ADDRESS	4	GVTMRTQE	ADDRESS OF MAINRING RESIDENCE TIMER QUEUE ELEMENT
180	(B4)	ADDRESS	4		RESERVED
184	(B8)	ADDRESS	4	GVTRSSRB	Address of the RSA Send SRB (Used to SCHEDULE ISGBSM)
188	(BC)	ADDRESS	4	GVTBDRMI	ADDRESS OF THE MODULE INFORMATION FOR ISGBDR

Comment

The following section of the GVT is reserved for the latch function.

End of Comment

192	(C0)	DBL WORD	8	GVTLATCH (0)	GRS Latch control words
192	(C0)	SIGNED	4	GVTLPBYA	PC number to ISGLPBYA
196	(C4)	SIGNED	4		Reserved

Comment

THE FOLLOWING SECTION OF THE GVT IS USED BY THE FAST DEQ FUNCTION

End of Comment

200	(C8)	DBL WORD	8	GVTFDEQF (0)	GRS FAST DEQ FUNCTION
200	(C8)	SIGNED	2	GVTSLTS	NUMBER OF ENTRIES ALLOWED IN THE FAST DEQ SLOT TABLE
206	(CE)	BITSTRING	2		RESERVED

Comment

THE FOLLOWING SECTION OF THE GVT ARE CONSTANTS THAT ARE PRIMARILY USED BY THE GRS RING PROCESSING MODULES.

End of Comment

208	(D0)	DBL WORD	8	GVTRCNST (0)	GRS RING PROCESSING CONSTANTS
208	(D0)	SIGNED	4		RESERVED
212	(D4)	SIGNED	4	GVTOLINT	TOLERANCE TIME INTERVAL - NUMBER OF MILLISECONDS BEYOND THE TIME A RING PROCESSING EVENT IS EXPECTED TO OCCUR BEFORE THAT EVENT IS CONSIDERED OVERDUE (NOTE: THIS TIME INTERVAL IS ADDED TO THE MAINRING CYCLE TIME AS WELL AS TO ALL TIME LIMITS PASSED TO ISGBCI)
216	(D8)	SIGNED	4	GVTASYOH	ADDITIONAL SYSTEM OVERHEAD VALUE - NUMBER OF MILLISECONDS ADDED TO THE MAINRING CYCLE TIME WHENEVER A SYSTEM ENTERS THE MAINRING (NOTE: THIS VALUE IS IN ADDITION TO THE RSA RESIDENCY INTERVAL OF THE ADDED SYSTEM)
220	(DC)	SIGNED	4	GVTICCEP	IMMEDIATE CCW CHANNEL END PAUSE VALUE - NUMBER OF MILLISECONDS ISGBCI WAITS BETWEEN CHECKS FOR A CHANNEL END IN RESPONSE TO AN IMMEDIATE CCW
224	(E0)	SIGNED	4	GVTICCEC	IMMEDIATE CCW CHANNEL END COUNT - NUMBER OF TIMES ISGBCI WILL CHECK FOR A CHANNEL END IN RESPONSE TO AN IMMEDIATE CCW
228	(E4)	SIGNED	4	GVTICRRP	IMMEDIATE CCW REMOTE RESPONSE PAUSE VALUE - NUMBER OF MILLISECONDS ISGBCI WAITS BETWEEN CHECKS FOR RESPONSES FROM REMOTE SYSTEMS TO WHICH AN IMMEDIATE CCW WAS ISSUED
232	(E8)	SIGNED	4	GVTICRRC	IMMEDIATE CCW REMOTE RESPONSE COUNT - NUMBER OF TIMES ISGBCI WILL CHECK FOR RESPONSES FROM ALL REMOTE SYSTEMS TO WHICH AN IMMEDIATE CCW WAS ISSUED

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
236	(EC)	SIGNED	4	GVTNMRRP	NON-MAINRING RSA RESOURCE PAUSE VALUE - NUMBER OF MILLISECONDS ISGBTCIR WAITS BETWEEN CHECKS FOR THE AVAILABILITY OF RESOURCES REQUIRED TO SEND THE NON-MAINRING RSA (THAT IS, RESOURCES REQUIRED TO SCHEDULE ISGBSRRI)
240	(F0)	SIGNED	4	GVTNMRRC	NON-MAINRING RSA RESOURCE COUNT - NUMBER OF TIMES ISGBTCIR WILL CHECK FOR THE AVAILABILITY OF RESOURCES REQUIRED TO SEND THE NON-MAINRING RSA (THAT IS, RESOURCES REQUIRED TO SCHEDULE ISGBSRRI)
244	(F4)	SIGNED	4	GVTNMRHP	NON-MAINRING RSA HOLD PAUSE VALUE - NUMBER OF MILLISECONDS ISGBCI WAITS BETWEEN REPEATED ATTEMPTS TO SEND A NON-MAINRING RSA TO A REMOTE SYSTEM
248	(F8)	SIGNED	4	GVTNHRPT	NO-HOLD RESPONSE TIME VALUE - NUMBER OF MILLISECONDS THIS SYSTEM ALLOWS A REMOTE SYSTEM TO RECEIVE A NON-MAINRING RSA, PROCESS IT, AND SEND IT BACK WITH ZERO HOLD TIME
252	(FC)	SIGNED	4	GVTHDRPT	HOLD RESPONSE TIME VALUE - NUMBER OF MILLISECONDS THIS SYSTEM ALLOWS A REMOTE SYSTEM TO RECEIVE A NON-MAINRING RSA, PROCESS IT, HOLD IT, AND SEND IT BACK
256	(100)	SIGNED	4	GVTBFTAT	BUFFER TURNAROUND TIME VALUE - NUMBER OF MILLISECONDS ISGBCI ALLOWS A REMOTE SYSTEM TO GIVE BACK THE BUFFER USED TO SEND A NON-MAINRING RSA
260	(104)	SIGNED	2	GVTTHRS	RING ACCELERATION THRESHOLD - NUMBER OF SYSTEMS INCLUDING THE SENDER WHO MUST SEE THE REQUEST BEFORE PROCESSING CAN CONTINUE
262	(106)	BITSTRING	1	GVTTWEAK	
		1...		GVTSP18I	"BIT0" Purge messages suppression flag - when 1, do not build MRBs to issue any ISG018I messages
263	(107)	BITSTRING	17		Reserved

Comment

The following flags indicate functions available in GRS that have
been delivered via PTF.
Other function availability can be determined from the CVTOSLVL
field:
GRS=STAR mode CVTOS390_R2
ENF51 signals CVTOS390_R2
Dynamic RESMIL, TOLINT CVTOS390_R6
Synchronous Reserve (SYNCHRES) CVTOS390_R7

End of Comment

280	(118)	CHARACTER	8	GVTFUNCS (0)	Functions delivered via PTF
280	(118)	BITSTRING	1	GVTFUNC0	Functions byte zero
		1...		GVTRNLWC	"BIT0" GRSRNL wildcarding is available, when set
		1...		GVTNQXIT	"BIT0" ISGNQXIT installation exit point is available, when set
		.1..		GVTEXIT1	"BIT1" ISGNQXITBATCH, ISGNQXITQUEUED1, ISGENDOFLQCB, ISGDGRSRES installation exit points are available, when set
		.1..		GVTPCENQ	"BIT1" ENQ/DEQ LINKAGE=SYSTEM is available, when set
		..1.		GVTISGEC	"BIT2" ISGECA interface function is available, when set
281	(119)	BITSTRING	1	GVTFUNC1	Functions byte one
282	(11A)	BITSTRING	1	GVTFUNC2	Functions byte two
283	(11B)	BITSTRING	1	GVTFUNC3	Functions byte three
284	(11C)	BITSTRING	1	GVTFUNC4	Functions byte four
285	(11D)	BITSTRING	1	GVTFUNC5	Functions byte five
286	(11E)	BITSTRING	1	GVTFUNC6	Functions byte six
287	(11F)	BITSTRING	1	GVTFUNC7	Functions byte seven

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					Comment
					THE FOLLOWING SECTION OF THE GVT IS USED PRIMARILY BY THE GRS CTC DRIVER MODULES.
					End of Comment
288	(120)	DBL WORD	8	GVTCTCDS (0)	GRS CTC DRIVER SECTION
288	(120)	ADDRESS	4	GVTJGCT	"V(ISGGCT)" ADDRESS OF THE GRS CTC DRIVER BRANCH TABLE
292	(124)	ADDRESS	4	GVTJCNFD	ADDRESS OF DATA CONTAINED IN GRSCNFXX PARMLIB MEMBER
296	(128)	ADDRESS	4	GVTJGCV	ADDRESS OF THE GRS CTC DRIVER VECTOR TABLE
300	(12C)	SIGNED	4	GVTJNPG	NUMBER OF PAGES
					Comment
					THE FOLLOWING SECTION OF THE GVT IS USED PRIMARILY BY THE GRS COMMAND MODULES.
					End of Comment
304	(130)	DBL WORD	8	GVTGCMDS (0)	GRS COMMAND SECTION
304	(130)	DBL WORD	8	(0)	FORCE DOUBLEWORD ALIGNMENT FOR GRS COMMAND QUEUES
304	(130)	CHARACTER	8	GVTCMDQS (0)	GRS COMMAND QUEUES
304	(130)	ADDRESS	4	GVTCMDRQ	COMMAND REQUEST QUEUE FOR ISGCMDR CONSISTING OF CRBS QUEUED BY ISGCMDI OR ISGBSR AS WELL AS MRBS QUEUED BY ISGBSR OR ISGGTRM0 (SERIAIZED BY COMPARE AND SWAP LOGIC) WHEN THE HIGH ORDER BIT IS 1, NO MORE REQUESTS ARE TO BE PLACED ON THE COMMAND REQUEST QUEUE
308	(134)	ADDRESS	4	GVTCMDWQ	COMMAND WORK QUEUE FOR ISGCMDR TO HOLD CRB/MRBS MOVED FROM THE COMMAND REQUEST QUEUE
312	(138)	ADDRESS	4	GVTCMDCQ	COMMAND CLEANUP QUEUE FOR THE ETXR ROUTINE IN ISGCMDR CONSISTING OF CRB/MRBS QUEUED BY ISGCMDR (SERIALIZED BY COMPARE AND SWAP LOGIC)
316	(13C)	SIGNED	4	GVTCECB	ECB USED BY ISGCMDR TO WAIT FOR WORK, THIS ECB IS POSTED BY ISGCMDI ISGBSR, OR ISGGTRM0 WHENEVER A CRB/MRB IS PLACED ON THE COMMAND REQUEST QUEUE
320	(140)	SIGNED	4	GVTCTLIM	TIME LIMIT IN UNITS OF 0.01 SECONDS FOR FUNCTIONS PERFORMED BY ISGBCI FOR GRS COMMAND MODULES
324	(144)	ADDRESS	4	GVT_MCA@	Pointer to the MCA - Migration Control Area
328	(148)	BITSTRING	2	GVTDLAY	delay percentage for quiesce cmd, value 000A = 001.0%
330	(14A)	BITSTRING	2		RESERVED
332	(14C)	ADDRESS	4	GVTCQT	Pointer to Contention Queue Table
					Comment
					THE FOLLOWING SECTION OF THE GVT CONTAINS THOSE PC NUMBERS ASSIGNED TO GRS FUNCTIONS.
					End of Comment
336	(150)	DBL WORD	8	GVTPCS (0)	PC NUMBER SECTION
336	(150)	SIGNED	4	GVTDMPPC (0)	PC NUMBER FOR ISGDGCB0 - GRS DUMP ROUTINE
336	(150)	BITSTRING	3		UNUSED BITS AND LX VALUE
339	(153)	BITSTRING	1	GVTDMPEX	ENTRY TABLE INDEX FOR THIS PC
340	(154)	SIGNED	4	GVTED1PC (0)	PC NUMBER FOR ISGGED01 - ENQ/DEQ/RESERVE ROUTINE (NO SQA QWB OVERFLOW)
340	(154)	BITSTRING	3		UNUSED BITS AND LX VALUE
343	(157)	BITSTRING	1	GVTED1EX	ENTRY TABLE INDEX FOR THIS PC
344	(158)	SIGNED	4	GVTED2PC (0)	PC NUMBER FOR ISGGED02 - ENQ/DEQ/RESERVE ROUTINE (SQA QWB OVERFLOW)

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
344	(158)	BITSTRING	3		UNUSED BITS AND LX VALUE
347	(15B)	BITSTRING	1	GVTED2EX	ENTRY TABLE INDEX FOR THIS PC
348	(15C)	SIGNED	4	GVTGESPC (0)	PC NUMBER FOR ISGGEST0 - GRS MAINLINE ESTAE MODULE
348	(15C)	BITSTRING	3		UNUSED BITS AND LX VALUE
351	(15F)	BITSTRING	1	GVTGESEX	ENTRY TABLE INDEX FOR THIS PC
352	(160)	SIGNED	4	GVTGFRPC (0)	PC NUMBER FOR ISGGFRR2 - ENQ/DEQ/RESERVE FRR ROUTINE
352	(160)	BITSTRING	3		UNUSED BITS AND LX VALUE
355	(163)	BITSTRING	1	GVTGFREX	ENTRY TABLE INDEX FOR THIS PC
356	(164)	SIGNED	4	(0)	Reserved (was ISGLNQ00)
356	(164)	BITSTRING	4		Reserved
360	(168)	SIGNED	4	(0)	Reserved (was ISGLDQ00)
360	(168)	BITSTRING	4		Reserved
364	(16C)	SIGNED	4	GVTSMIPC (0)	PC NUMBER FOR ISGSMI - STORAGE MANAGER INTERFACE MODULE
364	(16C)	BITSTRING	3		UNUSED BITS AND LX VALUE
367	(16F)	BITSTRING	1	GVTSMIEX	ENTRY TABLE INDEX FOR THIS PC
368	(170)	SIGNED	4	GVTTRMPC (0)	PC NUMBER FOR ISGGTRM1 - TERMINATION RESOURCE MANAGER MODULE
368	(170)	BITSTRING	3		UNUSED BITS AND LX VALUE
371	(173)	BITSTRING	1	GVTTRMEX	ENTRY TABLE INDEX FOR THIS PC
372	(174)	SIGNED	4	GVTSUSPC (0)	PC NUMBER FOR ISGGSUSE - DRNL SUSPEND ESTAE MODULE
372	(174)	BITSTRING	3		UNUSED BITS AND LX VALUE
375	(177)	BITSTRING	1	GVTSUSEX	ENTRY TABLE INDEX FOR THIS PC
376	(178)	SIGNED	4	GVTCSEPC (0)	PC NUMBER FOR ISGCSETP - UPDATE RESMIL VALUES ENTRY POINT
376	(178)	BITSTRING	3		UNUSED BITS AND LX VALUE
379	(17B)	BITSTRING	1	GVTCSEEX	ENTRY TABLE INDEX FOR THIS PC
380	(17C)	BITSTRING	4	GVTMONLX	LXRES FOR ENQ MONITOR
384	(180)	SIGNED	4	GVTMONPC (0)	PC NUMBER FOR ISGAPREC
384	(180)	BITSTRING	3		UNUSED BITS AND LX VALUE
387	(183)	BITSTRING	1	GVTMONEX	ENTRY TABLE INDEX FOR THIS PC
388	(184)	SIGNED	4	GVTCDAPC (0)	PC Number for ISGCDANG
388	(184)	BITSTRING	3		Unused bits and LX value
391	(187)	BITSTRING	1	GVTCDAEX	Entry table index for this PC

Comment

THE FOLLOWING SECTION OF THE GVT CONTAINS ENTRY POINT ADDRESSES OF THOSE GRS MODULES OR ROUTINES THAT RESIDE IN THE NUCLEUS OR LPA AS WELL AS THOSE GRS MODULES THAT ARE USED BY ENQ/DEQ MAINLINE (ISGGNQDQ).

End of Comment

392	(188)	DBL WORD	8	GVTEPS (0)	ENTRY POINT SECTION
392	(188)	ADDRESS	4	GVTBDR	"V(ISGBDR)" ENTRY POINT ADDRESS OF ISGBDR - ESTABLISH A TIMER DIE TIME INTERVAL MODULE
396	(18C)	ADDRESS	4	GVTBDRC	"V(ISGBDRC)" ENTRY POINT ADDRESS OF ISGBDRC - TIME EXPIRATION CHECKING ROUTINE (ENTRY POINT IN ISGBDR)
400	(190)	ADDRESS	4	GVTCRET0	ENTRY POINT ADDRESS OF ISGCRET0 - ERRET MODULE FOR XM-POST OF ISGCMDR
404	(194)	ADDRESS	4	GVTCRCV	Address of ISGCRCV in ELPA
408	(198)	ADDRESS	4	GVTLSQUS	Address of IEAVLSUP, the linkage stack query and update service
412	(19C)	ADDRESS	4	GVTGDQ00	ENTRY POINT ADDR OF ISGGDQ00 - BRANCH ENTRY DEQ ROUTINE FOR ISGGRP00 (ENTRY POINT IN ISGGNQDQ, 31 BIT MODE)
416	(1A0)	ADDRESS	4	GVTGFRR0	ENTRY POINT ADDR OF ISGGFRR0 - ENQ/DEQ/RESERVE FRR MODULE (31 BIT MODE)
420	(1A4)	ADDRESS	4	GVTGFRR1	"V(ISGGFRR1)" ENTRY POINT ADDRESS OF ISGGFRR1 - GRS STORAGE MANAGER RESOURCE REPAIR GLUE GLUE

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
424	(1A8)	ADDRESS	4	GVTGFRR2	ENTRY POINT ADDR OF ISGGFRR2 - ENQ/DEQ/RESERVE FRR ROUTINE (PC ENTRY POINT IN ISGGFRR0, 31 BIT MODE)
428	(1AC)	ADDRESS	4	GVTGNQ00	ENTRY POINT ADDR OF ISGGNQ00 - BRANCH ENTRY ENQ ROUTINE FOR ISGGRP00 (ENTRY POINT IN ISGGNQDQ, 31 BIT MODE)
432	(1B0)	ADDRESS	4	GVTGQWBC	ENTRY POINT ADDRESS OF ISGGQWBC - COPY QWB MODULE
436	(1B4)	ADDRESS	4		RESERVED (WAS ADDRESS OF ISGGRCEX)
440	(1B8)	ADDRESS	4		RESERVED (WAS ADDRESS OF ISGGGLUE3
444	(1BC)	ADDRESS	4		RESERVED (WAS ADDRESS OF ISGGSEEX)
448	(1C0)	ADDRESS	4		RESERVED (WAS ADDRESS OF ISGGSIEX)
452	(1C4)	ADDRESS	4	GVTGWAIT	ENTRY POINT ADDRESS OF ISGGWAIT - GRS WAIT MODULE FOR GENERAL USE (31 BIT MODE)
456	(1C8)	ADDRESS	4	GVTGWT02	"V(ISGGWT02)" ENTRY POINT ADDRESS OF ISGGWT02 - GRS WAIT ROUTINE USED BY ISGGNQDQ (ENTRY POINT IN ISGGWAIT, 31 BIT MODE)
460	(1CC)	ADDRESS	4	GVTSALC	"V(ISGSALCN)" ENTRY POINT ADDRESS OF ISGSALCN - STORAGE MANAGER ALLOCATION MODULE (Non-ASA linkage)
464	(1D0)	ADDRESS	4	GVTSDAL	"V(ISGSDALN)" ENTRY POINT ADDRESS OF ISGSDALN - STORAGE MANAGER DEALLOCATION MODULE (Non-ASA linkage)
468	(1D4)	ADDRESS	4	GVTSGLH	ENTRY POINT ADDRESS OF ISGSGLH - STORAGE MANAGER GLOBAL/LOCAL HASH ROUTINE (ENTRY POINT IN ISGSHASH, 31 BIT MODE)
472	(1D8)	ADDRESS	4	GVTSRNMH	Entry point address of ISGSRNMH - Storage Manager resource name hash routine (entry point in ISGSHASH, 31 bit mode)
476	(1DC)	ADDRESS	4	GVTSSAH	ENTRY POINT ADDRESS OF ISGSSAH - STORAGE MANAGER SYSID/ASID HASH ROUTINE (ENTRY POINT IN ISGSHASH, 31 BIT MODE)
480	(1E0)	BITSTRING	8		RESERVED
488	(1E8)	ADDRESS	4		RESERVED - WAS ADDR OF ISGGLUE1
492	(1EC)	ADDRESS	4		RESERVED - WAS ADDR OF ISGGLUE2
496	(1F0)	ADDRESS	4	GVTGFRR4	ENTRY POINT ADDRESS OF ISGGFRR4 - STORAGE MANAGER RESOURCE CLEANUP ROUTINE (ENTRY POINT IN ISGGFRR0, 31 BIT MODE)
500	(1F4)	ADDRESS	4	GVTGPGRP	ENTRY POINT ADDR OF ISGGPGRP - PROCESS QEL GROUP ROUTINE (31 BIT MODE)

Comment

THE FOLLOWING SECTION OF THE GVT IS USED BY THE RNL-SEARCH FUNCTION.

End of Comment

504	(1F8)	DBL WORD	8	GVTGRHS (0)	GRS RNL-SEARCH SECTION
504	(1F8)	ADDRESS	4	GVTGRHS0	ADDRESS OF MODULE ISGGRHS0
508	(1FC)	ADDRESS	4	GVTGRHS1	"V(ISGGRHS1)" ADDRESS OF MODID INFO FOR MODULE ISGGRHS0

Comment

THE FOLLOWING SECTION OF THE GVT IS USED PRIMARILY BY THE TRACE MODULES OF GRS.

End of Comment

512	(200)	DBL WORD	8	GVTTR (0)	GRS TRACE SECTION
512	(200)	ADDRESS	4	GVTTCA@	Address of the GRS trace control area.
516	(204)	BITSTRING	4	GVTTFLAG	GRS trace flags: when 1, tracing is active. when 0, tracing is not active
		1...		GVTTCNTL	"BIT0" Selected event tracing
		.1..		GVTTRSA	"BIT1" RSA tracing
		..1.		GVTTSIGN	"BIT2" Signalling tracing

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		...1		GVTTREQ	"BIT3" Request tracing
		.... 1...		GVTTMON	"BIT4" Monitor tracing

Comment

THE FOLLOWING SECTION OF THE GVT CONTAINS XCF RELATED INFORMATION.

End of Comment

520	(208)	DBL WORD	8	GVTXCF (0)	ENTRY POINT SECTION
520	(208)	ADDRESS	4	GVTRSVX	ADDRESS OF THE RSVX
524	(20C)	BITSTRING	8	GVTSTATF	Status field containing GRS member information used by XCF monitoring. This field is modified to signal that work is in progress.
532	(214)	BITSTRING	2	GVTXCFFL	GRS XCF Flags
		1...		GVTMULTS	"BIT0" System is to IPLed into an XCF multisystem environment, so GRS be active
534	(216)	BITSTRING	18		Reserved

Comment

THE FOLLOWING SECTION OF THE GVT CONTAINS DYNAMIC RNL RELATED FIELDS

End of Comment

552	(228)	DBL WORD	8	GVTDRNL (0)	Dynamic RNL fields
552	(228)	SIGNED	4	GVTDEPS (0)	Dynamic RNL entry points
552	(228)	ADDRESS	4	GVTGDRQU	"V(ISGGDRQU)" Used to call ISGGDRQU
556	(22C)	ADDRESS	4	GVTGRNLC	Used to call ISGGRNLC - has a mode bit
560	(230)	ADDRESS	4	GVTGRNLT	"V(ISGGRNLT)" Used to call ISGGRNLT
564	(234)	ADDRESS	4	GVTRNLUF	Used to call ISGRNLUF (filled by ISGGDLYP)
568	(238)	SIGNED	4	GVTDWA (0)	Work area pointers
568	(238)	ADDRESS	4	GVTDRQUL	Work area for ISGGDRQU - serialized by CMSEQDQ lock, local requests
572	(23C)	ADDRESS	4	GVTDRQUG	Work area for ISGGDRQU - serialized by GRS local lock, global requests
576	(240)	ADDRESS	4	GVTRNLCW	Work area for ISGGRNLC - serialized by CMSEQDQ lock.
580	(244)	ADDRESS	4	GVTSUSPW	Work area for ISGGSUSP - serialized by CMSEQDQ lock.
584	(248)	ADDRESS	4	GVTRNLTW	Work area for ISGGRNLT - serialized by CMSEQDQ lock.
588	(24C)	ADDRESS	4	GVTRCANW	Work area for ISGGRCAN - serialized by CMSEQDQ lock.
592	(250)	ADDRESS	4	GVTRUFGW	Work area for ISGRNLUF - serialized by grs loc lock.
596	(254)	ADDRESS	4	GVTRUFLW	Work area for ISGRNLUF - serialized by cmseqdq lock.
600	(258)	DBL WORD	8	GVTMISC (0)	Miscellaneous fields
600	(258)	ADDRESS	4	GVTRCA	Address of the RNL Change AREA (RCA)
604	(25C)	BITSTRING	1	GVTFLAGS	FLags
		1...		GVTNOQRT	"BIT0" Turns off QRT compression
		.1..		GVTSQVAL	"BIT1" There is a valid suspend queue anchored in the RCA
		..1.		GVTRNLIP	"BIT2" There is a RNL change in progress.
605	(25D)	BITSTRING	3		Reserved

Comment

THE FOLLOWING SECTION OF THE GVT IS USED FOR RESERVE RELATED FUNCTIONS.

End of Comment

608	(260)	ADDRESS	4	GVTUPFAL	Address of preallocated parameter list for IOSUPFA service
612	(264)	ADDRESS	4	GVTRSTRT	Address of Reserve-Start routine (ISGGRSVE)
616	(268)	ADDRESS	4	GVTREND	Address of Reserve-End routine (ISGGRSVE)
620	(26C)	ADDRESS	4	GVTRSVW	Pointer to ISGGRSV work area

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					Comment THE FOLLOWING FIELDS ARE USED FOR STAR-MODE PROCESSING End of Comment
624	(270)	ADDRESS	4	GVTSCANQ	GRS GQSCAN request queue. Serialized via Compare and Swap.
628	(274)	SIGNED	4	GVTSSECB	System Server task's master ECB that is waited on when waiting for work.
632	(278)	SIGNED	4	GVTGQECB	GQSCAN Server task's master ECB that is waited on when waiting for work.
636	(27C)	SIGNED	4	GVTSRECB	Send/Receive task's master ECB that is waited on when waiting for work.
640	(280)	SIGNED	4	GVTITECB	Initialization task's master ECB that is waited on when waiting for work.
644	(284)	ADDRESS	4		Reserved
648	(288)	ADDRESS	4	GVTDSL@	Address of the SUMLIST used for dumping during Star mode recovery processing
					Comment INITIALIZATION TASK WORK FLAGS. NOTE: THESE FLAGS MUST BE SET USING OIL OR NIL. End of Comment
652	(28C)	BITSTRING	1	GVTITWRK	Initialization Task work flags
		1...		GVTSRLCK	"BIT0" Lock Structure Stop and Rebuild work pending
		.1..		GVTSRRNL	"BIT1" RNL Structure Stop and Rebuild work pending
					Comment RESERVED BYTES End of Comment
653	(28D)	BITSTRING	3		Reserved
					Comment The following are the trace control bits for Star mode code. Each word represents a major option and logically consists of 16 bit pairs. Each bit pair represents one of the 16 sub-options for that major option. The first pair (high-order two) represents sub-option 0, the next pair sub-option 1, etc. For a given pair, the high-order bit will be on if the events of the sub-option it represents are to be traced. The second bit will be on if tracing for these events is to be limited. ---------- The ISGTRACE macro requires that the names of the bits consist of GVTZ followed by the first four letters of the name of the major option. End of Comment
656	(290)	SIGNED	4	GVTZCONT	CONTROL option flags
660	(294)	SIGNED	4	GVTZREQU	REQUEST option flags
664	(298)	SIGNED	4	GVTZMONI	MONITOR option flags
668	(29C)	SIGNED	4	GVTZSIGN	SIGNAL option flags
672	(2A0)	SIGNED	4	GVTZFLOW	FLOW option flags
676	(2A4)	BITSTRING	8		Reserved

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					Comment
					The following two declares are for issuing waitstate messages via ISGZLDWT. The minimal assumption is that the GVT will be available to make such requests. If the GVT is unavailable, ABEND 09A/mmC0 - 'C0'X indicates a bad control block was detected.
					End of Comment
684	(2AC)	ADDRESS	4	GVTNLDWX	"V(ISGNLDWX)" ISGNLDWX
688	(2B0)	ADDRESS	4	GVTMIMSP	ISGMIMSP
692	(2B4)	ADDRESS	4	GVTMTVT@	Ptr to module table in common
696	(2B8)	SIGNED	4	GVTLRNLC (2)	TOD of last RNL change
704	(2C0)	SIGNED	4	(14)	Reserved
760	(2F8)	DBL WORD	8	GVTEND (0)	END OF GVT
760	(2F8)	X'2B0'	0	GVTXMSP	"GVTMIMSP"

GVT Cross Reference

Name	Hex Offset	Hex Value
BIT0	0	80
BIT1	0	40
BIT2	0	20
BIT3	0	10
BIT4	0	8
BIT5	0	4
BIT6	0	2
BIT7	0	1
GVT	0	
GVT_MCA@	144	
GVTARQA	4	1
GVTASYOH	D8	0
GVTAURJN	8	1
GVTAURST	8	8
GVTBDR	188	
GVTBDRC	18C	
GVTBDRMI	BC	
GVTBFTAT	100	0
GVTCDAEX	187	0
GVTCDAPC	184	
GVTCECB	13C	0
GVTCMDCQ	138	
GVTCMDQS	130	
GVTCMDRQ	130	
GVTCMDWQ	134	
GVTCMPAT	C	0
GVTCNFER	9	80
GVTCQT	14C	
GVTCRCV	194	
GVTCREQ	80	0
GVTCREQA	84	0
GVTCRET0	190	
GVTCS	20	
GVTCSEEX	17B	0
GVTCSEPC	178	
GVTCSFLG	20	
GVTCSRSV	21	
GVTCTCDS	120	
GVTCTLIM	140	0
GVTDEPS	228	
GVTDLAY	148	A
GVTDMPEX	153	0
GVTDMPPC	150	
GVTDMSCW	AC	0
GVTDRNL	228	
GVTDRQUG	23C	
GVTDRQUL	238	
GVTDSL@	288	
GVTDWA	238	
GVTED1EX	157	0
GVTED1PC	154	
GVTED2EX	15B	0
GVTED2PC	158	
GVTEND	2F8	
GVTEPS	188	
GVTERSVC	38	0
GVTEXIT1	118	40
GVTEXRES	4	4
GVTFDEQF	C8	
GVTFLAGS	25C	0
GVTFUNCS	118	
GVTFUNC0	118	
GVTFUNC1	119	
GVTFUNC2	11A	
GVTFUNC3	11B	
GVTFUNC4	11C	
GVTFUNC5	11D	
GVTFUNC6	11E	
GVTFUNC7	11F	
GVTGASCB	14	
GVTGCMDS	130	
GVTGDQ00	19C	
GVTGDRQU	228	
GVTGESEX	15F	0
GVTGESPC	15C	
GVTGFREX	163	0
GVTGFRPC	160	
GVTGFRR0	1A0	
GVTGFRR1	1A4	
GVTGFRR2	1A8	
GVTGFRR4	1F0	
GVTGLWSA	50	
GVTGNQ00	1AC	
GVTGPGRP	1F4	
GVTGQDMG	5	80
GVTGQECB	278	0

Name	Hex Offset	Hex Value
GVTGQWA	50	
GVTGQWBC	1B0	
GVTGRHS	1F8	
GVTGRHS0	1F8	
GVTGRHS1	1FC	
GVTGRNLC	22C	
GVTGRNLT	230	
GVTGRPRA	88	
GVTGRPRB	18	
GVTGRSAS	4	80
GVTGRSNA	4	40
GVTGRSOP	6	0
GVTGRSPC	4	20
GVTGRSRP	8	0
GVTGRXA	54	
GVTGSECT	4	
GVTGSFLG	4	0
GVTGVTX	10	
GVTGWAIT	1C4	
GVTGWT02	1C8	
GVTHDRPT	FC	0
GVTICCEC	E0	0
GVTICCEP	DC	0
GVTICRRC	E8	0
GVTICRRP	E4	0
GVTID	0	C7E5E340
GVTINACT	8	20
GVTINITS	28	
GVTISGEC	118	20
GVTITECB	280	0
GVTITWRK	28C	0
GVTJCNFD	124	
GVTJGCT	120	
GVTJGCV	128	
GVTJNPG	12C	0
GVTJOIN	6	40
GVTJSRBS	8	4
GVTLATCH	C0	
GVTLGSA	5C	
GVTLISTS	60	
GVTLPBYA	C0	0
GVTLQDMG	5	40
GVTLQWA	58	
GVTLRNLC	2B8	0
GVTLSQUS	198	
GVTMAINR	8	40
GVTMIMSP	2B0	
GVTMISC	258	
GVTMONEX	183	0
GVTMONLX	17C	0
GVTMONPC	180	
GVTMREAT	A0	
GVTMRSCW	A8	0
GVTMRTQE	B0	
GVTMTVT@	2B4	
GVTMULTS	214	80
GVTNCMDR	4	8
GVTNCOMM	8	80
GVTNHRPT	F8	0
GVTNLDWX	2AC	
GVTNMRHP	F4	0
GVTNMRRC	F0	0
GVTNMRRP	EC	0
GVTNOCTC	9	10
GVTNONE	6	20
GVTNOQRT	25C	80
GVTNQDQS	40	
GVTNQMON	4C	
GVTNQXIT	118	80
GVTNTCB	28	
GVTNTLIM	34	0
GVTOBSQD	8	10
GVTOLINT	D4	0
GVTPCENQ	118	40
GVTPCS	150	
GVTPRCQF	40	
GVTPRCQL	44	
GVTPRGOK	4	10
GVTPRMLB	9	0
GVTPROCQ	40	
GVTQMRGA	5	20
GVTQSFLG	5	0
GVTQWBCS	30	0
GVTRCA	258	
GVTRCANW	24C	
GVTRCNST	D0	
GVTRCRNL	68	
GVTREND	268	
GVTREQQ	48	
GVTRINGS	90	
GVTRNLCW	240	
GVTRNLEA	7	8
GVTRNLER	9	40
GVTRNLIP	25C	20
GVTRNLTW	248	
GVTRNLUF	234	
GVTRNLVC	7	80
GVTRNLWC	118	80
GVTRSAST	A7	1
GVTRSE	1C	
GVTRSSRB	B8	
GVTRSTRT	264	
GVTRSVW	26C	
GVTRSVX	208	
GVTRUFGW	250	
GVTRUFLW	254	
GVTSALC	1CC	
GVTSCANQ	270	
GVTSDAL	1D0	
GVTSERNL	60	
GVTSGLH	1D4	
GVTSIRNL	64	
GVTSLTS	C8	0
GVTSMIEX	16F	0
GVTSMIPC	16C	
GVTSMPL	70	
GVTSP18I	106	80
GVTSQVAL	25C	40
GVTSQWB	78	
GVTSQWBS	76	0
GVTSRECB	27C	0
GVTSRLCK	28C	80
GVTSRNMH	1D8	
GVTSRRNL	28C	40
GVTSSAH	1DC	
GVTSSECB	274	0
GVTSTAR	6	8
GVTSTART	6	80
GVTSTATF	20C	0
GVTSUSEX	177	0

Name	Hex Offset	Hex Value
GVTSUSPC	174	
GVTSUSPW	244	
GVTSYNCH	20	80
GVTSYSID	9A	0
GVTSYSNM	90	40404040
GVTTCA@	200	
GVTTCNTL	204	80
GVTTFLAG	204	0
GVTTHRS	104	0
GVTTMON	204	8
GVTTR	200	
GVTTREQ	204	10
GVTTRMEX	173	0
GVTTRMPC	170	
GVTTRSA	204	40
GVTTRYJN	6	10
GVTTSIGN	204	20
GVTTWEAK	106	0
GVTUPFAL	260	
GVTVCRNL	7	10
GVTVERNL	7	40
GVTVFLAG	7	0
GVTVIRNL	7	20
GVTXCF	208	
GVTXCFFL	214	0
GVTXMSP	2F8	2B0
GVTZCONT	290	0
GVTZFLOW	2A0	0
GVTZMONI	298	0
GVTZREQU	294	0
GVTZSIGN	29C	0

GVTX Heading Information

Common Name: GRS VECTOR TABLE EXTENSION
Macro ID: ISGGVTX
DSECT Name: GVTX
Owning Component: Global Resource Serialization (SCSDS)
Eye-Catcher ID: GVTX
Offset: 0
Length: 4
Storage Attributes: Subpool: 229
Key: 0
Size: 772 BYTES
Created by: THE GVTX IS CREATED BY ISGNCBIM IN SQA AND BY ISGNASIM IN THE GRS ADDRESS SPACE.
Pointed to by: The GVTGVTX field of the GVT data area
Serialization: GRS LOCAL LOCK - GLOBAL SAVE AREA
GLOBAL SMPL
GLOBAL WORK AREA
ISGGFRR1 SAVE AREA
CMS ENQ/DEQ LOCK - LOCAL SAVE AREA
LOCAL SMPL
LOCAL WORK AREA
SRB COUNT
Function: THE GVTX CONTAINS INFORMATION RELATIVE TO THE GRS ADDRESS SPACE.

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	772	GVTX	GRS VECTOR TABLE EXTENSION
0	(0)	CHARACTER	4	GVTXID	CONTROL BLOCK ACRONYM (GVTX)
ENTRY POINTS					
4	(4)	CHARACTER	68	GVTXEPTS	ENTRY POINT SECTION
4	(4)	ADDRESS	4	GVTXBBE	ENTRY POINT OF ISGBBE - GRS RING PROCESSING BACK END ROUTINE (ENTRY POINT IN ISGBSR)
8	(8)	ADDRESS	4	GVTXBCI	ENTRY POINT OF ISGBCI - GRS RING PROCESSING COMMAND INTERFACE MODULE
12	(C)	ADDRESS	4	GVTXBRIN	ENTRY POINT OF ISGBSRIN - CONVERTS SYSID TO SYSNAME ROUTINE (ENTRY POINT IN ISGBSR)
16	(10)	ADDRESS	4	GVTXBRNI	ENTRY POINT OF ISGBSRNI - CONVERTS SYSNAME TO SYSID ROUTINE (ENTRY POINT IN ISGBSR)
20	(14)	ADDRESS	4	GVTXCRCV	ENTRY POINT OF ISGCRCV - GRS COMMAND RECOVERY MODULE
24	(18)	ADDRESS	4	GVTXDEQP	ENTRY POINT OF ISGGDEQP - RESOURCE PURGE MODULE
28	(1C)	ADDRESS	4	GVTXMSG	ENTRY POINT OF ISGMSG00 - GRS MESSAGE MODULE
32	(20)	ADDRESS	4	GVTXQWB1	ENTRY POINT OF ISGGQWB1 - BUILD QWB FROM RSA ROUTINE (ENTRY POINT IN ISGGQWB0)
36	(24)	ADDRESS	4	GVTXQWBO	Entry point address of ISGGQWBO - Obtain QWBs (Entry point in ISGGQWB0)
40	(28)	ADDRESS	4	GVTXTRM2	Entry point address of ISGGTRM2 - Termination Resource Manager
44	(2C)	ADDRESS	4	GVTXQWB4	ENTRY POINT OF ISGGQWB4 - BUILD DEQUEUE QWB FROM QEL ROUTINE (ENTRY POINT IN ISGGQWB0)
48	(30)	ADDRESS	4	GVTXQWB5	ENTRY POINT OF ISGGQWB5 - BUILD SYSID DEQUEUE QWB ROUTINE (ENTRY POINT IN ISGGQWB0)

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Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
52	(34)	ADDRESS	4	GVTXQWBF	ENTRY POINT OF ISGGQWBF - FREE QWB ROUTINE (ENTRY POINT IN ISGGQWB0)
56	(38)	ADDRESS	4	GVTXRET1	ENTRY POINT OF ISGCRET1 - ERRET MODULE FOR XM-POST OF A COMMAND REQUESTOR'S ECB
60	(3C)	ADDRESS	4	*	Unused
64	(40)	ADDRESS	4	GVTXBSM	Entry point of ISGBSM -RSA Send Module.
68	(44)	ADDRESS	4	GVTXBRM	Entry point of ISGBRM -RSA Receive Module.
THE FOLLOWING FIELDS ARE USED PRIMARILY BY THE GRS TRACE MODULE.					
72	(48)	CHARACTER	8	GVTXTR	GRS TRACE SECTION
72	(48)	CHARACTER	4	*	RESERVED
76	(4C)	ADDRESS	4	GVTXTRAC	ENTRY POINT OF ISGTTRAC - GRS TRACE MODULE.
THE FOLLOWING FIELDS ARE USED PRIMARILY BY THE GRS RING PROCESSING MODULES.					
80	(50)	CHARACTER	16	GVTXRING	RING PROCESSING SECTION
80	(50)	ADDRESS	4	GVTXBRSV	ADDRESS OF RING PROCESSING SYSTEM VECTOR TABLE
84	(54)	SIGNED	4	GVTXBECB	ECB USED BY ISGBTC TO WAIT FOR UNUSUAL EVENTS TO OCCUR
88	(58)	ADDRESS	4	GVTXSIVT	POINTER TO THE SYSID VALIDATION TABLE - A 256 BYTE TABLE THAT IS USED FOR VALIDATING THE QWBHSYID FIELD IN QWB'S INSYS COPIED FROM THE RSA, AND QWB'S TAKEN OFF THE PROCESS QUEUE. THIS TABLE IS ALSO USED FOR ASSIGNING A SYSID TO A SYSTEM JOINING THE COMPLEX.
92	(5C)	SIGNED	4	GVTXMIAR	MESSAGE-ID OF AUTO-REJOIN MESSAGE OR ZERO. THIS ID CAN BE USED TO DELETE MESSAGE ISG028E.
THE FOLLOWING FIELD IS USED PRIMARILY BY THE GRS CTC-DRIVER MODULES.					
96	(60)	CHARACTER	4	GVTXCTCS	CTC-DRIVER SECTION
96	(60)	ADDRESS	4	GVTXJGCV	ADDRESS OF THE GRS CTC-DRIVER VECTOR TABLE
THE FOLLOWING FIELD IS USED BY COMMAND-ROUTER TASK AND RING PROCESSING EXCEPTION-HANDLER TASK					
100	(64)	SIGNED	4	GVTXCVGL	COUNT OF VARY-ONLINE OPERATIONS FOR GRS LINKS
THE FOLLOWING FIELDS ARE USED PRIMARILY BY THE GRS GLOBAL RESOURCE PROCESSOR					
104	(68)	CHARACTER	8	GVTXGRPS	GLOBAL RESOURCE PROCESSOR SECTION
104	(68)	ADDRESS	4	GVTXQWBV	ADDRESS OF THE QWB THAT IS CURRENTLY BEING VALIDITY CHECKED BY ISGGRP00
108	(6C)	ADDRESS	4	GVTXQWBD	QUEUE HEAD TO A CHAIN OF QWB'S THAT WERE DETERMINED BY ISGGRP00 TO BE DAMAGED. THIS CHAIN IS FOR DEBUGGING PURPOSES.
THE FOLLOWING FIELDS ARE USED PRIMARILY BY THE GRS INITIALIZATION MODULES.					
112	(70)	CHARACTER	40	GVTXINIT	GRS INITIALIZATION SECTION
112	(70)	SIGNED	4	GVTXECB0	IN RING-MODE, ECB USED BY ISGNAR TO WAIT FOR ISGCMDR TO TERMINATE (NORMAL OR ABNORMAL). IN STAR-MODE, ECB USED BY ISGNST TO WAIT FOR ISGCMDR TO TERMINATE (NORMAL OR ABNORMAL).
116	(74)	SIGNED	4	GVTXECB1	IN RING-MODE, ECB USED BY ISGNAR TO WAIT FOR ISGGRP00 TO COMPLETE INITIALIZATION. IN NONE-MODE, ECB USED BY ISGNASIM TO WAIT FOR ISGGRP00 TO COMPLETE INITIALIZATION.
120	(78)	SIGNED	4	GVTXECB2	IN RING-MODE, ECB USED BY ISGNAR TO WAIT FOR ISGGRP00 TO TERMINATE (NORMAL OR ABNORMAL). IN NONE-MODE, ECB USED BY ISGNASIM TO WAIT FOR ISGGRP00 TO TERMINATE (NORMAL OR ABNORMAL).
124	(7C)	SIGNED	4	GVTXECB3	IN RING-MODE, ECB USED BY ISGNAR TO WAIT FOR ISGBTC TO COMPLETE INITIALIZATION.

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
128	(80)	SIGNED	4	GVTXECB4	IN RING-MODE, ECB USED BY ISGNAR TO WAIT FOR ISGBTC TO TERMINATE (NORMAL OR ABNORMAL).
132	(84)	SIGNED	4	GVTXECB5	IN RING-MODE, ECB USED BY ISGNAR TO WAIT FOR ISGNGRSP TO TERMINATE (NORMAL OR ABNORMAL).
136	(88)	SIGNED	4	*	
140	(8C)	SIGNED	4	GVTXGCBS	SIZE OF GRS CONTROL BLOCKS (GVTX,LQHT,RPT,GQHT,SAHT)
144	(90)	SIGNED	4	GVTXERQS	SIZE OF GRS EXTENDED RESOURCE QUEUE AREA
148	(94)	CHARACTER	4	*	RESERVED
THE FOLLOWING FIELDS ARE USED PRIMARILY BY THE GRS STORAGE MANAGEMENT MODULES.					
152	(98)	CHARACTER	336	GVTXSMGS	GRS STORAGE MANAGER SECTION
152	(98)	ADDRESS	4	*	
156	(9C)	ADDRESS	4	*	
160	(A0)	ADDRESS	4	*	
164	(A4)	ADDRESS	4	GVTXGQHT	ADDRESS OF GLOBAL QUEUE HASH TABLE
168	(A8)	ADDRESS	4	GVTXLQHT	ADDRESS OF LOCAL QUEUE HASH TABLE
172	(AC)	ADDRESS	4	GVTXSAHT	ADDRESS OF SYSTEM/ASID HASH TABLE
176	(B0)	ADDRESS	4	GVTXGRPT	ADDRESS OF GLOBAL RESOURCE POOL TABLE
180	(B4)	ADDRESS	4	*	
184	(B8)	CHARACTER	72	GVTXGSAR	GLOBAL SAVE AREA (SERIALIZED BY GRS LOCAL LOCK)
256	(100)	CHARACTER	72	GVTXLSAR	LOCAL SAVE AREA (SERIALIZED BY CMS ENQ/DEQ CLASS LOCK)
328	(148)	CHARACTER	16	GVTXGSMP	GLOBAL STORAGE MANAGEMENT PARAMETER LIST (SERIALIZED BY GRS LOCAL LOCK)
344	(158)	CHARACTER	16	GVTXLSMP	LOCAL STORAGE MANAGEMENT PARAMETER LIST (SERIALIZED BY CMS ENQ/DEQ CLASS LOCK)
360	(168)	ADDRESS	4	GVTXLWK@	ADDRESS OF THE WORK AREA USED BY ISGSALC AND ISGSDAL. THIS AREA IS SERIALIZED BY THE GRS LOCAL LOCK
364	(16C)	ADDRESS	4	GVTX_TRACEENQSTACK@	Address of stack used by ISGTTRAC when holding the CMSEQDQ lock
368	(170)	ADDRESS	4	GVTX_TRACELATCHSTACK@	Address of work area used by ISGTTRAC when holding the CMSLATCH lock
372	(174)	CHARACTER	4	*	RESERVED
376	(178)	ADDRESS	4	GVTXCWK@	ADDRESS OF THE WORK AREA USED BY ISGSALC AND ISGSDAL. THIS AREA IS SERIALIZED BY THE GRS CMS ENQ/DEQ LOCK
380	(17C)	ADDRESS	4	GVTX_GSEHE@	ADDRESS OF ISGGSEHE
384	(180)	ADDRESS	4	GVTX_GSERE@	ADDRESS OF ISGGSERE
388	(184)	CHARACTER	4	*	RESERVED
392	(188)	ADDRESS	4	GVTXSRB	ADDRESS OF SRB FOR ISGSPRLS
396	(18C)	ADDRESS	4	GVTXSRBW	ISGXSRBW, SRB TIMED WAIT
400	(190)	SIGNED	4	*	
404	(194)	ADDRESS	4	GVTXERQA	ADDRESS OF GRS EXTENDED RESOURCE QUEUE AREA
408	(198)	ADDRESS	4	GVTXEBMP	POINTER TO ERQA BIT MAP
412	(19C)	UNSIGNED	4	GVTXEBML	LENGTH OF ERQA BIT MAP IN BYTES
416	(1A0)	CHARACTER	72	GVTXF1SA	ISGGFRR1 SAVE AREA (SERIALIZED BY GRS LOCAL LOCK)
THE FOLLOWING FIELDS ARE USED PRIMARILY BY THE FAST DEQ FUNCTION					
488	(1E8)	CHARACTER	8	GVTXFD	FAST DEQ SECTION
488	(1E8)	ADDRESS	4	GVTXSTAD	ADDRESS OF THE FAST DEQ SLOT TABLE
492	(1EC)	ADDRESS	4	GVTXFDEQ	ENTRY POINT OF ISGGFDEQ - FAST DEQ GATE ROUTINE
DECLARATION FOR DYNAMIC RNL SECTION					
496	(1F0)	CHARACTER	8	GVTXDRNL	Dynamic RNL section
496	(1F0)	ADDRESS	4	GVTXCRES	Entry point of ISGCREST - GRS command recovery module for dynamic RNL support
500	(1F4)	ADDRESS	4	GVTXMAS	Master A.S. ASCB address
504	(1F8)	ADDRESS	4	GVTXLMVT	addr latch mngr vector tbl

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
508	(1FC)	ADDRESS	4	*	Reserved
Declaration for Star mode Section					
512	(200)	CHARACTER	236	GVTX_STAR	Star mode Section
The following fields are used as anchors for control blocks associated with major GRS functions.					
512	(200)	ADDRESS	4	GVTX_QVT@	Address of the GRS Queue Scan Vector Table (QVT) owned by the GRS Queue Scan Task
516	(204)	ADDRESS	4	GVTX_SST@	Address of System Server Table (SST) owned by the System Server task
520	(208)	ADDRESS	4	GVTX_GGT@	Address of GRS Group Table (GGT) owned by the GRS Group Exit
524	(20C)	ADDRESS	4	*	
528	(210)	ADDRESS	4	*	
532	(214)	ADDRESS	4	GVTX_LSCT@	Address of the Lock Structure Control Table(LSCT)
536	(218)	ADDRESS	4	*	
540	(21C)	ADDRESS	4	GVTX_GGTREBUILDAREA@	Address of GGT Rebuild Area
544	(220)	ADDRESS	4	GVTX_LATCHHRPARMLIST@	Address of the SYSEVENT parameter list used for latch resources. Serialized by the CMSLATCH lock
548	(224)	ADDRESS	4	GVTX_GSEENQSTACK@	Address of the stack area used by ISGGSE when called while holding the CMSEQDQ lock
552	(228)	ADDRESS	4	GVTX_GSELATCHSTACK@	Address of the stack area used by ISGGSE when called while holding the CMSLATCH lock
TCB addresses of all the primary tasks in Star-mode.					
556	(22C)	ADDRESS	4	GVTX_SSTCB@	Address of System Server TCB.
560	(230)	ADDRESS	4	GVTX_GQTCB@	Address of GQSCAN Server TCB.
564	(234)	CHARACTER	4	*	Reserved
568	(238)	ADDRESS	4	GVTX_CMDRTCB@	Address of Command Router TCB
ECBs used in Star-Mode.					
572	(23C)	CHARACTER	8	*	Reserved
580	(244)	SIGNED	4	GVTX_GQ_TERMECB	In Star-mode, ECB used by ISGNST to wait for the GQSCAN Server task to terminate either normally or abnormally.
584	(248)	SIGNED	4	GVTX_SS_TERMECB	In Star-mode, ECB used by ISGNST to wait for the System Server task to terminate either normally or abnormally.
Star Mode Hash Tables In addition to the hash tables defined below, the GVTXLQHT hash table is also used when running in Star mode.					
588	(24C)	ADDRESS	4	GVTXSGHT	Address of System Global Hash Table. Only global resource requests initiated on this system are queued to this table.
Pointers to Star Mode specific routines					
592	(250)	ADDRESS	4	GVTX_GERTS	Address of ISGGERTS, the Star mode ENQ RET=TEST routine.
596	(254)	ADDRESS	4	*	Reserved
Cell Pool IDs for Dynamic areas and Workareas used by GRS					
600	(258)	ADDRESS	4	GVTX_R24WORKAREA1_CPID	Cell pool ID for workareas below the 16M line. These cells are intended for use by any module that requires a workarea below the 16M line for use other than for local working storage.
604	(25C)	ADDRESS	4	GVTX_R31WORKAREA1_CPID	Cell pool ID for workareas above the 16M line. These cells are intended for use by any module that requires a workarea above the 16M line for use other than for local working storage.
608	(260)	ADDRESS	4	GVTX_R24DYNAREA1_CPID	

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					Cell pool ID for dynamic areas below the 16M line. These cells are intended for use only by modules running in SRB mode which require a local storage area below the 16M line.
612	(264)	ADDRESS	4	GVTX_R31DYNAREA1_CPID	
					Cell pool ID for dynamic areas above the 16M line. These cells are intended for use only by modules running in SRB mode which require a local storage area above the 16M line.
616	(268)	ADDRESS	4	GVTX_R31DYNAREA2_CPID	
					Cell pool ID for large dynamic areas above the 16M line. These cells are intended to be used as stack storage for ASA linkage modules.
620	(26C)	CHARACTER	8	*	Reserved words for additional cell pool ids.
GRS Module Table Vector Table					
628	(274)	CHARACTER	80	GVTXMTVTAREA	
628	(274)	ADDRESS	4	GVTXMTVT (20)	Vector table used for linkage. Points to the module tables for each of the GRS subcomponents that use ASA linkage. Must keep in synch with GVTMTVTArea, GVTMTVT
Storage used for mapping the SYSEVENT parameters for reporting ENQHOLD and ENQRLSE to SRM. This storage is obtained and page fixed by ISGNASIM.					
708	(2C4)	ADDRESS	4	GVTX_GLOBALHRPARMLIST@	
					Address of the SYSEVENT parameter list used for global resources. Serialized by the GRS local lock.
712	(2C8)	ADDRESS	4	GVTX_LOCALHRPARMLIST@	
					Address of the SYSEVENT parameter list used for local resources. Serialized by the CMSEQDQ lock.
716	(2CC)	ADDRESS	4	GVTX_CNVT@	Address of the contention notification vector table
720	(2D0)	ADDRESS	4	GVTX_WORKAREA@	Address of a work block, available for use by anyone holding the CMSEQDQ lock.
Storage associated with SYNCHRES processing					
724	(2D4)	ADDRESS	4	GVTX_IOSVDSTF@	Address of IOSVDSTF (SynchRes processing)
728	(2D8)	UNSIGNED	4	GVTX_ISG348EDOMID	
					DOMID for ISG348E
Maximum size answer area needed when querying the entire GRS group in Star mode.					
732	(2DC)	UNSIGNED	4	GVTX_MAXANSWERAREASIZE	
					Maximum answer area size for querying the entire GRS group.
GRS Star Migration area (for migration from Ring mode)					
736	(2E0)	UNSIGNED	4	GVTX_STAR_MIGRATION_ECB	
					ECB waited on by ISGNAR and posted by ISGCIMS/ISGCPMS to terminate Ring mode. ISGNAR will return to ISGNASIM, which then calls ISGNST to initialize Star mode.
740	(2E4)	UNSIGNED	4	GVTX_STAR_MODE_READY_ECB	
					ECB to notify ISGNMIG that all old QWBs from Ring mode are on the system server process queue, and new requests can now be processed.
744	(2E8)	BITSTRING	1	GVTX_MIG_FLAGS	Migration Bit Flags
		1...		GVTX_STARMIGRATIONINPROGRESS	
		.1..		GVTX_STARMIGINITIATOR	
					The migration to Star mode was initiated on this system.
		..1.		GVTX_SYSFAILUREINMIGRATION	
					During migration a system failed. Reconciliation must be called.
		...1		GVTX_NO_STARMIG_BACKOFF	
					Star migration cannot be cancelled. If any migration failure occurs, it will cause a wait state.
		.... 1...		GVTX_STARMIG_LEFT_SYSGRS	
					During migration to Star mode, marks the point when the IXCLEAVE has been done
		.... .1..		GVTX_STARMIG_POPULATION	

GVTX Heading Information

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					Migration is currently populating the lock structure with requests from the ring
		11		*	Reserved
745	(2E9)	CHARACTER	3	*	Reserved
8@LMD					
GRS Star Dynamic RNL Area (for command SET GRSRNL)					
748	(2EC)	CHARACTER	24	GVTX_STARSETGRSRNLAREA	
748	(2EC)	ADDRESS	4	GVTX_RCAS@	Pointer to the star-mode RCA extension (RCAS). Valid only in star-mode.
752	(2F0)	UNSIGNED	4	GVTX_RNLCHANGEECB	ECB used to communicate between the SET GRSRNL command processor and ISGGRNX/ISGXMX during message broadcast. Post reasons are defined in ISGYRCAS.
756	(2F4)	UNSIGNED	4	GVTX_RNLSUMMARYECB	ECB used to communicate between the SET GRSRNL command processor and ISGGRNX/ISGXMX during message broadcast. Post reasons are defined in ISGYRCAS.
760	(2F8)	UNSIGNED	4	GVTX_RNLCANCELECB	ECB used to notify the SET GRSRNL command processor of cancel request from other systems in the sysplex. Post reasons are defined in ISGYRCAS.
764	(2FC)	UNSIGNED	4	GVTX_STARSETGRSRNLID	Command ID used to uniquely identify a SET GRSRNL command. This value plus one gives the next available command ID.
768	(300)	BITSTRING	1	GVTX_STARSETGRSRNLFLAGS	Dynamic RNL flags
		1...		GVTX_STARSETGRSRNLINPROGRESS	RNL change is in progress
		.1..		GVTX_STARSETGRSRNLINITIATOR	The RNL change process was initiated on this system
		..1.		GVTX_READYTOCUTOVER	The initiating system is ready to cutover to the new RNLs - no delay reasons exist in the sysplex
		...1		GVTX_CANCELBYINITIATOR	SET GRSRNL has been cancelled by the initiating system
		 1111		*	Reserved
769	(301)	CHARACTER	3	*	Reserved
772	(304)	CHARACTER	0	GVTXEND	END OF GVTX

Constants

Len	Type	Value	Name	Description
4	DECIMAL	12288	GVTX_KWORKAREASIZE	Size of work area addressed by GVTX_WorkArea@
4	DECIMAL	4096	GVTX_KISGGSESTACKSIZE	Stack size allocated for ISGGSE enabled entry points
4	DECIMAL	229	GVTX_KISGGSESTACKSP	Subpool for ISGGSE stack
4	DECIMAL	4096	GVTX_KISGTTRACSTACKSIZE	Stack size allocated for ISGTTRAC enabled entry point
4	DECIMAL	229	GVTX_KISGTTRACSTACKSP	Subpool for ISGTTRAC stack
4	DECIMAL	2048	GVTX_KENQHRPARMLISTSIZE	Size of ENQHR parameter list
4	DECIMAL	229	GVTX_KENQHRPARMLISTSP	Subpool for ENQHR parameter list

Cross Reference

Name	Hex Offset	Hex Value	Level
GVTX	0		1
GVTX_CANCELBYINITIATOR	340	10	4
GVTX_CMDRTCB@	238		3
GVTX_CNVT@	2CC		3
GVTX_GERTS	250		3
GVTX_GGT@	208		3
GVTX_GGTREBUILDAREA@	2FE		3
GVTX_GLOBALHRPARMLIST@	204		3
GVTX_GQ_TERMECB	244		3
GVTX_GQTCB@	230		3
GVTX_GSEENQSTACK@	224		3
GVTX_GSEHE@	17C		3
GVTX_GSELATCHSTACK@	226		3
GVTX_GSERE@	180		3
GVTX_IOSVDSTF@	2D4		3
GVTX_ISG348EDOMID	2D8		3
GVTX_LATCHHRPARMLIST@	220		3
GVTX_LOCALHRPARMLIST@	20C		3
GVTX_LSCT@	214		3
GVTX_MAXANSWERAREASIZE	2EC		3
GVTX_MIG_FLAGS	2E8		3
GVTX_NO_STARMIG_BACKOFF	2E6	F0	4
GVTX_QVT@	200		3
GVTX_RCAS@	2EC		3
GVTX_READYTOCUTOVER	300	20	4
GVTX_RNLCANCELECB	2B8		3
GVTX_RNLCHANGEECB	2B0		3
GVTX_RNLSUMMARYECB	2C4		3
GVTX_R24DYNAREA1CPID	260		3
GVTX_R24WORKAREA1CPID	258		3
GVTX_R31DYNAREA1CPID	264		3
GVTX_R31DYNAREA2CPID	268		3
GVTX_R31WORKAREA1CPID	25C		3
GVTX_SS_TERMECB	248		3
GVTX_SST@	204		3
GVTX_SSTCB@	22C		3
GVTX_STAR	200		2
GVTX_STAR_MIGRATION_ECB	2E0		3
GVTX_STAR_MODE_READY_ECB	2E4		3
GVTX_STARMIG_LEFTSYSGRP	2E8	08	4
GVTX_STARMIG_POPULATION	2E8	04	4
GVTX_STARMIGINITIATOR	2E8	40	4
GVTX_STARMIGRATIONINPROGRESS	2E8	80	4
GVTX_STARSETGRSPECAREA	2FC		2
GVTX_STARSETGRSPECFLAGS	300		3
GVTX_STARSETGRSPECID	2FC		3
GVTX_STARSETGRSPECINITIATOR	300	40	4
GVTX_STARSETGRSPECINPROGRESS	300	80	4
GVTX_SYSFAILUREINMIGRATION	2E6	20	4
GVTX_TRACEENQSTACK@	16C		3
GVTX_TRACELATCHSTACK@	170		3
GVTX_WORKAREA@	2D0		3
GVTXBBE	4		3
GVTXBCI	8		3
GVTXBECB	54		3
GVTXBRIN	C		3
GVTXBRM	44		3
GVTXBRNI	10		3
GVTXBRSV	50		3
GVTXBSM	40		3
GVTXCRCV	14		3
GVTXCRES	1F0		3
GVTXCTCS	60		2
GVTXCVGL	64		2
GVTXCWK@	178		3
GVTXDEQP	18		3
GVTXDRNL	1F0		2
GVTXEBML	19C		3
GVTXEBMP	198		3
GVTXECB0	70		3
GVTXECB1	74		3
GVTXECB2	78		3
GVTXECB3	7C		3
GVTXECB4	80		3
GVTXECB5	84		3
GVTXEND	304		2
GVTXEPTS	4		2
GVTXERQA	194		3
GVTXERQS	90		3
GVTXFD	1E8		2
GVTXFDEQ	1EC		3
GVTXF1SA	1A0		3
GVTXGCBS	8C		3
GVTXGQHT	A4		3
GVTXGRPS	68		2
GVTXGRPT	B0		3
GVTXGSAR	B8		3
GVTXGSMP	148		3
GVTXID	0		2
GVTXINIT	70		2
GVTXJGCV	60		3
GVTXLMVT	1F8		2
GVTXLQHT	A8		3
GVTXLSAR	100		3
GVTXLSMP	158		3
GVTXLWK@	168		3
GVTXMAS	1F4		3
GVTXMIAR	5C		3
GVTXMSG	1C		3
GVTXMTVT	274		4
GVTXMTVTAREA	274		3
GVTXQWBD	6C		3
GVTXQWBF	34		3
GVTXQWBO	24		3
GVTXQWBV	68		3
GVTXQWB1	20		3
GVTXQWB4	2C		3
GVTXQWB5	30		3
GVTXRET1	38		3
GVTXRING	50		2
GVTXSAHT	AC		3
GVTXSGHT	24C		3
GVTXSIVT	58		3
GVTXSMGS	98		2
GVTXSRB	188		3
GVTXSRBW	18C		3
GVTXSTAD	1E8		3
GVTXTR	48		2
GVTXTRAC	4C		3
GVTXTRM2	28		3

GWT Heading Information

Common Name: VSM Get Region Work Table
Macro ID: IHAGWT
DSECT Name: GWT
Owning Component: Virtual Storage Manager (SC1CH)
Eye-Catcher ID: None
Subpool and Key: 253 and key 0
Size: 12 bytes
Created by: IEFSD263
Serialization: None
Function: Interface to VSM GET/FREE REGION routines.

GWT Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	12	GWT	
0	(0)	ADDRESS	4	GWTVRRST	
4	(4)	ADDRESS	4	GWTEVVST	
8	(8)	ADDRESS	4	GWTECB	
12	(C)	CHARACTER	0	GWTEND	

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HCL Programming Interface information

Programming Interface information

HCL

End of Programming Interface information

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HCL Heading Information

Common Name: HARDCOPY LOG FORMAT (HCL OR HCR)
Macro ID: IHAHCLOG
DSECT Name: HCL OR HCRREQ
Owning Component: COMMUNICATIONS TASK (SC1CK)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: N/A
Key: N/A
Residency: N/A
Size: 55 BYTES PLUS A FIELD OF VARIABLE LENGTH AT OFFSET 55 (when the system is using a 2-digit year). If system is using 4-digit years in the log (HCFORMAT(CENTURY) was specified in CONSOLxx) , then the size is 57 bytes, plus a field of variable length at offset 57.
Created by: N/A
Pointed to by: N/A
Serialization: NONE
Function: MAPS HARDCOPY LOG RECORDS

HCL Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	HCL	HARDCOPY LOG RECORD
0	(0)	X'0'	0	HCLHEAD	"*" HEADER INFORMATION
0	(0)	CHARACTER	2	HCLRECID (0)	RECORD ID
0	(0)	CHARACTER	1	HCLRECTP	RECORD TYPE
0	(0)	X'D5'	0	HCLWTO	"C'N'" SINGLE-LINE MESSAGE
0	(0)	X'E6'	0	HCLWTOR	"C'W'" SINGLE-LINE MESSAGE WITH REPLY
0	(0)	X'D4'	0	HCLMLWTO	"C'M'" FIRST LINE OF A MULTI-LINE MESSAGE
0	(0)	X'D6'	0	HCLLOG	"C'O'" LOG COMMAND INPUT
0	(0)	X'E7'	0	HCLOTHER	"C'X'" ENTRY FROM A SOURCE OTHER THAN HARDCOPY OR LOG COMMAND
0	(0)	X'E2'	0	HCLSPLIT	"C'S'" CONTINUATION OF PREVIOUS LINE
0	(0)	X'D3'	0	HCLLABEL	"C'L' LABEL LINE OF A MULTI-LINE MESSAGE "
0	(0)	X'C4'	0	HCLDATA	"C'D'" DATA LINE OF A MULTI-LINE MESSAGE
0	(0)	X'C5'	0	HCLDTEND	"C'E'" DATA/END LINE OF A MULTI-LINE MESSAGE
1	(1)	CHARACTER	1	HCLREQTP	REQUEST TYPE
1	(1)	X'C3'	0	HCLCMD	"C'C'" COMMAND ISSUED BY OPERATOR
1	(1)	X'D9'	0	HCLRESP	"C'R'" COMMAND RESPONSE
1	(1)	X'C9'	0	HCLINTNL	"C'I'" INTERNAL ISSUED COMMAND
2	(2)	CHARACTER	7	HCLROUTC	ROUTING CODES
9	(9)	CHARACTER	1		BLANK
10	(A)	CHARACTER	8	HCLSYSID	SYSTEM NAME
18	(12)	CHARACTER	1		BLANK
19	(13)	CHARACTER	5	HCLDATE (0)	JULIAN DATE OF MESSAGE - YYDDD
19	(13)	CHARACTER	2	HCLYEAR	YEAR YY
21	(15)	CHARACTER	3	HCLDAY	DAY OF YEAR DDD
24	(18)	CHARACTER	1	HCLFRMT	BLANK
25	(19)	CHARACTER	11	HCLTIME (0)	TIME MESSAGE WAS ISSUED - HH:MM:SS.TH
25	(19)	CHARACTER	2	HCLHR	HOURS HH
27	(1B)	CHARACTER	1	HCLCOLN1	COLON :
28	(1C)	CHARACTER	2	HCLMIN	MINUTES MM
30	(1E)	CHARACTER	1	HCLCOLN2	COLON :
31	(1F)	CHARACTER	2	HCLSEC	SECONDS SS
33	(21)	CHARACTER	1	HCLDOT1	DECIMAL POINT .
34	(22)	CHARACTER	2	HCLTHSEC	.01 SECONDS TH
36	(24)	CHARACTER	1		BLANK

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
37	(25)	CHARACTER	8	HCLCONID (0)	ID OF CONSOLE THAT ISSUED COMMAND - APPEARS ON FIRST/ONLY LINE OF COMMANDS AND COMMAND RESPONSES
37	(25)	CHARACTER	8	HCLJOBID (0)	ID OF JOB THAT ISSUED MESSAGE - APPEARS ON FIRST/ONLY LINE OF OTHER MESSAGES
37	(25)	CHARACTER	5		RESERVED
42	(2A)	CHARACTER	3	HCLMLID	MULTI-LINE MESSAGE ID - APPEARS ON ADDITIONAL LINES OF MULTI-LINE MESSAGES
45	(2D)	CHARACTER	1		BLANK
46	(2E)	CHARACTER	8	HCLREQFL	USER EXIT/MPF REQUEST FLAGS

Comment

```
WHEN THIS PRINTABLE HEX VALUE IS CONVERTED TO
BINARY, THE RESULTING BITS HAVE THE FOLLOWING
DEFINITIONS ASSOCIATED WITH THEM.
REQUEST FLAGS BYTE 1
  BIT POSITION X'80' - MESSAGE TEXT WAS CHANGED
  BIT POSITION X'40' - ROUTING CODES WERE CHANGED
  BIT POSITION X'20' - DESCRIPTOR CODES WERE
                       CHANGED
  BIT POSITION X'10' - MESSAGE WAS QUEUED TO A
                       PARTICULAR ACTIVE CONSOLE
  BIT POSITION X'08' - MESSAGE WAS QUEUED TO A
                       PARTICULAR CONSOLE
                       UNCONDITIONALLY
  BIT POSITION X'04' - MESSAGE WAS QUEUED BY
                       ROUTING CODES ONLY
  BIT POSITION X'02' - THE CONSOLE ID TO WHICH THE
                       MESSAGE WAS QUEUED, WAS
                       CHANGED
  BIT POSITION X'01' - MINOR LINES WERE PROCESSED
REQUEST FLAGS BYTE 2
  BIT POSITION X'80' - MESSAGE WAS DELETED
  BIT POSITION X'40' - MPF SUPPRESSION OVERRIDDEN
  BIT POSITION X'20' - MESSAGE WAS FORCED TO
                       HARDCOPY
  BIT POSITION X'10' - MESSAGE BYPASSED HARDCOPY
  BIT POSITION X'08' - MESSAGE WAS FORCED TO
                       HARDCOPY ONLY
  BIT POSITION X'04' - MESSAGE WAS BROADCASTED TO
                       ACTIVE CONSOLES
  BIT POSITION X'02' - BROADCASTING OF MESSAGE WAS
                       TURNED OFF
  BIT POSITION X'01' - MESSAGE WAS NOT RETAINED BY
                       AMRF DUE TO A USER EXIT'S
                       REQUEST
REQUEST FLAGS BYTE 3
  BIT POSITION X'80' - MESSAGE WAS RETAINED BY
                       AMRF DUE TO A USER EXIT'S
```

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
		REQUEST			
		BIT POSITION X'40' - CHANGE THE RETRIEVAL KEY			
		BIT POSITION X'20' - CHANGE THE 4-BYTE CONSOLE ID			
		BIT POSITION X'10' - CHANGE THE MESSAGE TYPE FLAGS			
		BIT POSITION X'08' - AUTOMATION IS NOT REQUIRED			
		BIT POSITION X'04' - AUTOMATION IS REQUIRED AND/OR AUTOMATION TOKEN			
		BIT POSITION X'02' - MESSAGE WAS ISSUED AS HARDCOPY ONLY			
		BIT POSITION X'01' - MESSAGE WAS A UD MESSAGE			
		SUPPRESSION FLAGS BYTE 4			
		BIT POSITION X'80' - MESSAGE NOT SERVICED BY ANY WTO USER EXIT			
		BIT POSITION X'40' - ESTAE ERROR IN IEAVX600			
		BIT POSITION X'20' - MESSAGE NOT SERVICED BECAUSE OF AN INCOMPATIBLE REQUEST			
		BIT POSITION X'10' - AUTOMATION REQUESTED			
		BIT POSITION X'08' - MESSAGE NOT QUEUED TO ANY CONSOLE			
		BIT POSITION X'04' - MESSAGE SUPPRESSED BY A SUBSYSTEM			
		BIT POSITION X'02' - MESSAGE SUPPRESSED BY A WTO USER EXIT ROUTINE			
		BIT POSITION X'01' - MESSAGE SUPPRESSED BY MPF			
		End of Comment			
54	(36)	CHARACTER	1		BLANK
54	(36)	X'37'	0	HCLHEADL	"*-HCLHEAD" LENGTH OF HEADER
54	(36)	X'37'	0	HCLTEXT	"*" MESSAGE OR COMMAND TEXT

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	HCRREC	HARDCOPY LOG RECORD WITH A DATE OF THE FORM YYYYDDD
0	(0)	X'0'	0	HCRHEAD	"*" HEADER INFORMATION
0	(0)	CHARACTER	2	HCRRECID (0)	RECORD ID
0	(0)	CHARACTER	1	HCRRECTP	RECORD TYPE
0	(0)	X'D5'	0	HCRWTO	"C'N'" SINGLE-LINE MESSAGE
0	(0)	X'E6'	0	HCRWTOR	"C'W'" SINGLE-LINE MESSAGE WITH REPLY
0	(0)	X'D4'	0	HCRMLWTO	"C'M'" FIRST LINE OF A MULTI-LINE MESSAGE
0	(0)	X'D6'	0	HCRLOG	"C'O'" LOG COMMAND INPUT
0	(0)	X'E7'	0	HCROTHER	"C'X'" ENTRY FROM A SOURCE OTHER THAN HARDCOPY OR LOG COMMAND
0	(0)	X'E2'	0	HCRSPLIT	"C'S'" CONTINUATION OF PREVIOUS LINE
0	(0)	X'D3'	0	HCRLABEL	"C'L' LABEL LINE OF A MULTI-LINE MESSAGE "
0	(0)	X'C4'	0	HCRDATA	"C'D'" DATA LINE OF A MULTI-LINE MESSAGE
0	(0)	X'C5'	0	HCRDTEND	"C'E'" DATA/END LINE OF A MULTI-LINE MESSAGE
1	(1)	CHARACTER	1	HCRREQTP	REQUEST TYPE
1	(1)	X'C3'	0	HCRCMD	"C'C'" COMMAND ISSUED BY OPERATOR
1	(1)	X'D9'	0	HCRRESP	"C'R'" COMMAND RESPONSE
1	(1)	X'C9'	0	HCRINTNL	"C'I'" INTERNAL ISSUED COMMAND
2	(2)	CHARACTER	7	HCRROUTC	ROUTING CODES
9	(9)	CHARACTER	1		BLANK
10	(A)	CHARACTER	8	HCRSYSID	SYSTEM NAME
18	(12)	CHARACTER	1		BLANK
19	(13)	CHARACTER	7	HCRDATE (0)	JULIAN DATE OF MESSAGE - YYYYDDD
19	(13)	CHARACTER	2	HCRCENT	CENTURY YY
21	(15)	CHARACTER	5	HCRYYDDD (0)	OLD FORMAT OF DATE - YYDDD
21	(15)	CHARACTER	2	HCRYEAR	YEAR YY
23	(17)	CHARACTER	3	HCRDAY (0)	DAY OF YEAR DDD
23	(17)	CHARACTER	1		FIRST DIGIT OF DAY OF YEAR

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
24	(18)	CHARACTER	1	HCRFRMT	SECOND DIGIT OF DAY OF YEAR IF THIS FIELD IS A BLANK THEN THE HCL MAPPING SHOULD BE USED TO MAP THE HARDCOPY LOG RECORD
25	(19)	CHARACTER	1		LAST DIGIT OF DAY OF YEAR
26	(1A)	CHARACTER	1		BLANK
27	(1B)	CHARACTER	11	HCRTIME (0)	TIME MESSAGE WAS ISSUED - HH:MM:SS.TH
27	(1B)	CHARACTER	2	HCRHR	HOURS HH
29	(1D)	CHARACTER	1	HCRCOLN1	COLON :
30	(1E)	CHARACTER	2	HCRMIN	MINUTES MM
32	(20)	CHARACTER	1	HCRCOLN2	COLON :
33	(21)	CHARACTER	2	HCRSEC	SECONDS SS
35	(23)	CHARACTER	1	HCRDOT1	DECIMAL POINT .
36	(24)	CHARACTER	2	HCRTHSEC	.01 SECONDS TH
38	(26)	CHARACTER	1		BLANK
39	(27)	CHARACTER	8	HCRCONID (0)	ID OF CONSOLE THAT ISSUED COMMAND - APPEARS ON FIRST/ONLY LINE OF COMMANDS AND COMMAND RESPONSES
39	(27)	CHARACTER	8	HCRJOBID (0)	ID OF JOB THAT ISSUED MESSAGE - APPEARS ON FIRST/ONLY LINE OF OTHER MESSAGES
39	(27)	CHARACTER	5		RESERVED
44	(2C)	CHARACTER	3	HCRMLID	MULTI-LINE MESSAGE ID - APPEARS ON ADDITIONAL LINES OF MULTI-LINE MESSAGES
47	(2F)	CHARACTER	1		BLANK
48	(30)	CHARACTER	8	HCRREQFL	USER EXIT/MPF REQUEST FLAGS - See description after HCLREQFL
56	(38)	CHARACTER	1		BLANK
56	(38)	X'39'	0	HCRHEADL	"*-HCRHEAD" LENGTH OF HEADER
56	(38)	X'39'	0	HCRTEXT	"*" MESSAGE OR COMMAND TEXT

Comment

MISCELLANEOUS CONSTANTS

End of Comment

56	(38)	X'7A'	0	HCLCOLON	"C':'" COLON FOR TIMESTAMP
56	(38)	X'4B'	0	HCLDOT	"C'.'" DECIMAL POINT FOR TIMESTAMP
56	(38)	X'40'	0	HCLBLANK	"C' '" BLANK FOR COLUMN SEPARATION

HCL Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
HCL	0		HCLMLID	2A	
HCLBLANK	38	40	HCLMLWTO	0	D4
HCLCMD	1	C3	HCLOTHER	0	E7
HCLCOLN1	1B		HCLRECID	0	
HCLCOLN2	1E		HCLRECTP	0	
HCLCOLON	38	7A	HCLREQFL	2E	
HCLCONID	25		HCLREQTP	1	
HCLDATA	0	C4	HCLRESP	1	D9
HCLDATE	13		HCLROUTC	2	
HCLDAY	15		HCLSEC	1F	
HCLDOT	38	4B	HCLSPLIT	0	E2
HCLDOT1	21		HCLSYSID	A	
HCLDTEND	0	C5	HCLTEXT	36	37
HCLFRMT	18		HCLTHSEC	22	
HCLHEAD	0	0	HCLTIME	19	
HCLHEADL	36	37	HCLWTO	0	D5
HCLHR	19		HCLWTOR	0	E6
HCLINTNL	1	C9	HCLYEAR	13	
HCLJOBID	25		HCRCENT	13	
HCLLABEL	0	D3	HCRCMD	1	C3
HCLLOG	0	D6	HCRCOLN1	1D	
HCLMIN	1C		HCRCOLN2	20	

HCL Cross Reference

Name	Hex Offset	Hex Value
HCRCONID	27	
HCRDATA	0	C4
HCRDATE	13	
HCRDAY	17	
HCRDOT1	23	
HCRDTEND	0	C5
HCRFRMT	18	
HCRHEAD	0	0
HCRHEADL	38	39
HCRHR	1B	
HCRINTNL	1	C9
HCRJOBID	27	
HCRLABEL	0	D3
HCRLOG	0	D6
HCRMIN	1E	
HCRMLID	2C	
HCRMLWTO	0	D4
HCROTHER	0	E7
HCRREC	0	
HCRRECID	0	
HCRRECTP	0	
HCRREQFL	30	
HCRREQTP	1	
HCRRESP	1	D9
HCRROUTC	2	
HCRSEC	21	
HCRSPLIT	0	E2
HCRSYSID	A	
HCRTEXT	38	39
HCRTHSEC	24	
HCRTIME	1B	
HCRWTO	0	D5
HCRWTOR	0	E6
HCRYEAR	15	
HCRYYDDD	15	

HIDT Heading Information

Common Name: HOT I/O Detection Table
Macro ID: IOSDHIDT
DSECT Name: HIDT
Owning Component: I/O Supervisor (SC1C3)
Eye-Catcher ID: 'IOSRHIDT'
Offset: 0
Length: 8
Storage Attributes: Subpool: 245
Key: 0
Data Space: N/A
Residency: Nucleus
Size: 170-Bytes
Created by: IOSRHIDT
Pointed to by: N/A
Serialization: HIDHOTQ, HIDSCDAN and HIDCPCNT are serialized via the HOT I/O Synchronization Lock
Function: This macro maps the HOT I/O detection table. It contains the threshold value used to determine if HOT I/O is occuring and contains anchors to control blocks used in determining and processing HOT I/O conditions.

Notes: The assembler version of this macro is used to generate the CSECT. The threshold and default processing flags can be altered by using the following keywords:
DVTHRSH - Device Threshold Value used to determine how many consecutive unsolicited interrupts must occur for a given device before the device is considered "hot".
Optional.
Default = 100
DFLT110, DFLT111 and DFLT112 are the parameters which are used to describe the default recovery actions for non-serial devices.
DFLT110=(Non-recursive Recovery Action, Recursive Recovery Action)

- Recovery processing action to be taken in response to the conditions which would result in the IOS110D message being issued (ie: The hot device is not DASD).

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Function:Continued

If a recovery action is supplied, the IOS110D message will not be issued since the reason for the message is to obtain the recovery action from the operator. However, an informational message (IOS109I) will be issued to inform the operator that a hot I/O condition has occurred and the recovery action taken.

- Valid action values are:
  CHPK - Try to recover the channel path and leave it online if channel path recovery is successful.
  CHPF - Force the channel path offline (the same processing done for the operator command 'VARY CHP(xx) FORCE' will be done).
  BOX - Box the device
  Optional
- Default - Issue the IOS110D message and obtain recovery action from the operator.
  DFLT111=(Non-recursive Recovery Action, Recursive Recovery Action)
- Same as DFLT110, except that this variable is associated with the IOS111D message (Ie: The Hot device is a non-reserved DASD).
  Optional
- Default - Issue the IOS111D message and obtain recovery action from operator
  DFLT112=(Non-recursive Recovery Action, Recursive Recovery Action)
- Same as DFLT110, except that this variable is associated with the IOS112D message (Ie: The hot device is a reserved DASD).
  Optional

Function:Continued

- Default - Issue the IOS112D message and obtain recovery action from operator.
  SDFT110, SDFT111 and SDFT112 are the parameters which are used to describe the default recovery actions for serial devices.
- Valid actions are:
  CHPK - try to recover the channel path and leave it online if channel path recovery is successful
  CHPF - force the channel path offline, (the same processing done for the operator command V CHP(XX),FORCE will be done)
  BOX - box the device
  CUK - let channel path recovery attempt control unit recovery
  SDFT110=(non-recursive recovery action, recursive recovery action)
  – specifies the recovery action to be taken for a non-DASD, non-dynamic pathing device.
  OPTIONAL
  – DEFAULT = Issue IOS110D message and obtain recovery action from operator.
  SDFT111=(non-recursive recovery action, recursive recovery action)
  – Specifies the recovery action to be taken for a DASD or dynamic pathing device that is not reserved/assigned.
  – OPTIONAL
  – DEFAULT = Issue IOS111D message and obtain recovery action from operator.
  SDFT112=(non-recursive recovery action, recursive recovery action)
  – specifies the recovery action to be taken for a DASD or a dynamic pathing device that is reserved/assigned.
  – OPTIONAL
  – DEFAULT = Issue IOS112D message and obtain recovery action from operator.

HIDT Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	368	HIDT	Hot I/O detection table
0	(0)	CHARACTER	24	HIDMODID	MODID information
24	(18)	UNSIGNED	2	HIDDVTHR	Device threshold
26	(1A)	UNSIGNED	2	*	Reserved
28	(1C)	CHARACTER	6	HIDRVDFT	Default recovery actions for non-serial devices.

HIDT Constants

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
28	(1C)	UNSIGNED	1	HIDMSGDT (3,2)	Message defaults. First Index: 01=110D message defaults. 02=111D message defaults. 03=112D message defaults. Second Index: 01=Non-recursion. 02=Recursion.
34	(22)	BITSTRING	1	*	Reserved
35	(23)	BITSTRING	1	HIDTBLPM	Box Last Path Mask set by the HOTIO BOX_LP keyword in IECIOSxx.
36	(24)	CHARACTER	68	HIDSCDPT	SCD pointers
36	(24)	ADDRESS	4	HIDHOTQ	Anchor for the Queue of SCD for which HOTIO has been detected.
40	(28)	ADDRESS	4	HIDSCDAN (0 15)	Anchors for SCD blocks. The 2nd byte of the device number (ie 0X00) determines which SCD queue the device will be assigned to. This separation is used only to provide a faster search for a particular SCD
104	(68)	UNSIGNED	1	HIDCPCNT (0 255)	Number of currently hot devices per channel path
360	(168)	CHARACTER	6	HIDSRECD	Default recovery actions for serial devices.
360	(168)	UNSIGNED	1	HIDSMSGD (3,2)	Serial message defaults. First Index: 01=110D message defaults. 02=111D message defaults. 03=112D message defaults. Second Index: 01=Non-recursion. 02=Recursion.
366	(16E)	CHARACTER	2	*	Reserved
368	(170)	CHARACTER	0	HIDEND	

HIDT Constants

Len	Type	Value	Name	Description
			Comment	
Constants for HIDMSGDT and HIDSMSGD				
			End of Comment	
1	DECIMAL	2	HIDBOX	Box the device
1	DECIMAL	4	HIDCHPK	Channel path recovery
1	DECIMAL	5	HIDCHPF	Force channel path offline
1	DECIMAL	6	HIDCUK	Control unit recovery. This constant is only valid for HIDSMSGD.
			Comment	
Constants for first index of HIDMSGDT and HIDSMSGD				
			End of Comment	
1	DECIMAL	1	MSG110	
1	DECIMAL	2	MSG111	
1	DECIMAL	3	MSG112	
			Comment	
Constants for second index of HIDMSGDT and HIDSMSGD				
			End of Comment	
1	DECIMAL	2	RECURSN	
1	DECIMAL	1	NONRECUR	

HIDT Cross Reference

Name	Hex Offset	Hex Value
HIDCPCNT	68	
HIDDVTHR	18	
HIDEND	170	
HIDHOTQ	24	
HIDMODID	0	
HIDMSGDT	1C	
HIDRVDFT	1C	
HIDSCDAN	28	
HIDSCDPT	24	
HIDSMSGD	168	
HIDSRECD	168	
HIDT	0	
HIDTBLPM	23	

HMAA Programming Interface information

Programming Interface information

HMAA

End of Programming Interface information

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HMAA Heading Information

Common Name: Hiperbatch Monitor Answer Area
Macro ID: COFZHMAA
DSECT Name: HMAA, HMAADSNB, HMAARNG, HMAATRKR
Owning Component: Virtual Lookaside Facility (SC164)
Eye-Catcher ID: None
Storage Attributes: Subpool: 0
Key: 8
Residency: Above 16MB in central/virtual storage
Size: 80 bytes for HMAA,
112 bytes for each HMAADSNB
8 bytes for each HMAARNG
36 bytes for each HMAATRKR
Created by: The HMAA is created by the requestor of the Hiperbatch Monitor data collector (COFDSTAT). The storage for the HMAA may reside anywhere in private or common addressable storage.
Pointed to by: HMPANSWR
Serialization: None required.
Function: The HMAA is a block of storage that the requestor of the Hiperbatch Monitor data collector uses to reference data extracted by the data collector.

HMAA Map

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	HMAA	HIPERBATCH MONITOR ANSWER AREA
					Comment GENERAL MACRO USAGE FIELDS End of Comment
0	(0)	BITSTRING	1	HMAAVERS	VERSION NUMBER X'00'
1	(1)	BITSTRING	3	HMAARES1	RESERVED
4	(4)	SIGNED	4	HMAALEN	LEN OF ENTIRE ANSWER AREA TO FOLLOW
8	(8)	SIGNED	4	HMAANUMD	NUMBER OF DATA SET BLOCKS RETURNED
12	(C)	ADDRESS	4	HMAADSNP	POINTER TO FIRST DATA SET BLOCK
16	(10)	SIGNED	4	HMAADSNS	SIZE OF EACH DATA SET BLOCK
					Comment GLOBAL FIELDS (FROM GLOBAL CONTROL BLOCKS) End of Comment
20	(14)	SIGNED	4	HMAAMAXC	MAX NUMBER OF CACHED DATA SETS ALLOWED
24	(18)	SIGNED	4	HMAACURR	CURRENT NUMBER OF RETAINED DATA SETS
28	(1C)	SIGNED	4	HMAAEXPB	MAXIMUM ESTORE AVAIL TO HIPERBATCH (IN UNITS OF 4K BYTES)
32	(20)	SIGNED	4	HMAAMRET	MAXIMUM AMOUNT OF RETAINED STORAGE
36	(24)	SIGNED	4	HMAAIRET	IN-USE AMOUNT OF RETAINED STORAGE
40	(28)	SIGNED	4	HMAAMNRT	MAX AMOUNT OF NON-RETAINED STORAGE
44	(2C)	SIGNED	4	HMAAINRT	IN-USE AMT OF NON-RETAINED STORAGE
48	(30)	SIGNED	4	HMAATOES	TOTAL AMOUNT OF ESTORE ONLINE
52	(34)	SIGNED	4	HMAANUMC	NUM OF DATA SETS NOW BEING CACHED
56	(38)	BITSTRING	4	HMAARES2	RESERVED
60	(3C)	SIGNED	2	HMAANUMR	NUMBER OF TIMES HIPERBATCH WENT INTO RECOVERY
62	(3E)	SIGNED	2	HMAADLFA	DLF ADDRESS SPACE ASID

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
64	(40)	BITSTRING	1	HMAAGLBF	HIPERBATCH GLOBAL FLAGS
		1...		HM@DISAB	"X'80'" HIPERBATCH IS DISABLED. If this bit is on then all data is incorrect, including all "data set-specific fields", "range block data" & "tracker data". @01C
		.1..		HM@NORNV	"X'40'" NO MORE VSAM READERS ARE ALLOWED TO CONNECT TO A NEW DATA SET
		..1.		HM@NORNQ	"X'20'" NO MORE QSAM READERS ARE ALLOWED TO CONNECT TO A NEW DATA SET
65	(41)	BITSTRING	3	HMAARES3	RESERVED
68	(44)	BITSTRING	4	HMAARES4	RESERVED
72	(48)	BITSTRING	4	HMAARES5	RESERVED
76	(4C)	BITSTRING	4	HMAARES6	RESERVED
76	(4C)	X'50'	0	HMAALENG	"*-HMAA" LENGTH OF GLOBAL PART OF ANSWER AREA

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	HMAADSNB	DATA SET BLOCK DATA
0	(0)	SIGNED	4	HMAALEND	LENGTH OF THIS DATA SET BLOCK, INCLUDING ALL RANGE BLOCKS (HMAARNG) AND TRACKERS (HMAATRKR)
4	(4)	CHARACTER	44	HMAADSNM	DATA SET NAME
48	(30)	CHARACTER	6	HMAAVOL	VOLSER
54	(36)	BITSTRING	2	HMAARES7	RESERVED
56	(38)	BITSTRING	1	HMAAERR	ERROR FLAGS

Comment

PLZ NOTE: THESE ERROR FLAGS O-N-L-Y SET HMAAERR (NOT REG 15)

End of Comment

56	(38)	X'14'	0	HM@NCCHD	"20" THIS DS ISN'T CURRENTLY BEING CACHED
56	(38)	X'18'	0	HM@SV261	"24" THIS DS ENCOUNTERED SVC 26 ERROR #1
56	(38)	X'1C'	0	HM@SV262	"28" THIS DS ENCOUNTERED AN SVC 26 ERROR, I.E., DATA SET IS NOT A VSAM CLUSTER
56	(38)	X'20'	0	HM@SV263	"32" THIS DS ENCOUNTERED AN SVC 26 ERROR I.E., UNABLE TO FIND DATA COMPONENT
56	(38)	X'24'	0	HM@SV264	"36" THIS DS ENCOUNTERED SVC 26 ERROR #2
56	(38)	X'28'	0	HM@RNGT	"40" THIS DS ENCOUNTERED A RANGE ERROR
56	(38)	X'2C'	0	HM@TRKR	"44" THIS DS ENCOUNTERED A TRACKER ERROR

Comment

PLZ NOTE: THE NEXT 4 ERROR FLAGS ARE SET BY THE COFDHRBN RTN

End of Comment

56	(38)	X'30'	0	HM@SV265	"48" THIS DS ENCOUNTERED AN SVC 26 ERROR WHILE CALCULATING THE HRBN OF A QSAM MANAGED DATA SET
56	(38)	X'34'	0	HM@UCBLK	"52" THIS DS ENCOUNTERED A UCBLOOK ERROR
56	(38)	X'38'	0	HM@OBTN	"56" THIS DS ENCOUNTERED AN OBTAIN ERROR
56	(38)	X'3C'	0	HM@TRKC	"60" THIS DS ENCOUNTERED A TRKCALC ERROR
56	(38)	X'40'	0	HM@HRB0	"64" THIS DS HAS AN HIRBA / RBN OF 0!!!
57	(39)	BITSTRING	3	HMAARES8	RESERVED
60	(3C)	SIGNED	4	HMAAHURB	DATA SET'S HIGH USED RBA (IF VSAM) OR HIGH USED RBN (IF QSAM)
64	(40)	BITSTRING	4	HMAACFLG	GLOBAL FLAGS
		.1..		HM@VSAM	"X'40'" CACHED DATA SET IS A VSAM DATA SET
		..1.		HM@QSAM	"X'20'" CACHED DATA SET IS A QSAM DATA SET
		.... .1..		HM@RTAIN	"X'04'" DATA SET IS BEING RETAINED
		.... ..1.		HM@BSAM	"X'02'" BSAM/EXCP UPDATER
68	(44)	SIGNED	4	HMAACISZ	DATA SET CI OR BUFFER (QSAM) SIZE
72	(48)	SIGNED	4	HMAAOPNN	NUMBER OF OPENS AGAINST THIS DATASET

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
76	(4C)	SIGNED	4	HMAABKDP	NUMBER OF BACKED PAGES USED BY THE DATA SET (UNITS OF 4K-BYTES)
80	(50)	ADDRESS	4	HMAARNGP	POINTER TO FIRST RANGE BLOCK
84	(54)	SIGNED	4	HMAARNGS	SIZE OF EACH RANGE BLOCK
88	(58)	SIGNED	4	HMAARNGN	NUMBER OF RANGE BLOCKS TO FOLLOW
92	(5C)	ADDRESS	4	HMAATRKP	POINTER TO FIRST TRACKER
96	(60)	SIGNED	4	HMAATRKS	SIZE OF EACH TRACKER
100	(64)	SIGNED	4	HMAATRKN	NUMBER OF TRACKERS TO FOLLOW
104	(68)	BITSTRING	4	HMAARES9	RESERVED
108	(6C)	BITSTRING	4	HMAARS10	RESERVED
108	(6C)	X'70'	0	HMAALENB	"*-HMAADSNB" LENGTH OF FIXED PART OF A DSN BLOCK
108	(6C)	X'C0'	0	HMAALENF	"(*-HMAADSNB)+HMAALENG" LEN OF FIXED PART OF ANSWER AREA

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	HMAARNG	ESTORE RANGE DATA, ONE PER RANGE OF DATA SET DATA CONTAINED IN ESTORE
0	(0)	SIGNED	4	HMAALRBA	LOW RBA REPRESENTED BY THIS RANGE
0	(0)	X'0'	0	HMAALRBN	"HMAALRBA,4" LOW RBN REPRESENTED BY THIS RANGE
4	(4)	SIGNED	4	HMAAHRBA	HIGH RBA REPRESENTED BY THIS RANGE
4	(4)	X'4'	0	HMAAHRBN	"HMAAHRBA,4" HIGH RBN REPRESENTED BY THIS RANGE
4	(4)	X'8'	0	HMAALENC	"*-HMAARNG" LENGTH OF A RANGE BLOCK DATA ENTRY

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	HMAATRKR	TRACKER (USER) DATA, ONE PER USER
0	(0)	DBL WORD	8	HMAATIME	TIME-OF-DAY TIMESTAMP OF FIRST OPEN
8	(8)	SIGNED	4	HMAARBA	RBA REPRESENTED BY THIS TRACKER
8	(8)	X'8'	0	HMAARBN	"HMAARBA,4" RBN REPRESENTED BY THIS TRACKER
12	(C)	SIGNED	2	HMAAASID	OWNING ASID
14	(E)	BITSTRING	2	HMAAAFLG	TRACKER FLAGS
		1...		HM@ASEQL	"X'80'" SEQUENTIAL - QSAM AND VSAM
		.1..		HM@ABSUP	"X'40'" BSAM UPDATER - QSAM
		...1		HM@AINPT	"X'10'" INPUT - QSAM AND VSAM
		.... 1...		HM@AVSUP	"X'08'" VSAM UPDATER / QSAM CREATE (LOAD)
		.... .1..		HM@AVLOD	"X'04'" VSAM LOAD
16	(10)	SIGNED	4	HMAANIOR	NUMBER OF I/O READ REQUESTS
20	(14)	SIGNED	4	HMAACHTS	NUMBER OF CACHE HITS
24	(18)	SIGNED	4	HMAAWATS	NUMBER OF WAITS
28	(1C)	SIGNED	4	HMAAPHYS	NUMBER OF PHYSICAL I/OS
32	(20)	SIGNED	4	HMAAPHSP	NUMBER OF PHYSICAL I/OS FOR PIONEER
32	(20)	X'24'	0	HMAALENA	"*-HMAATRKR" LENGTH OF A TRACKER DATA ENTRY

Comment

EQUS FOR GETMAIN AREA LENGTHS (COFDBIRD AND SLCT USE ANSWLEN6)

End of Comment

32	(20)	X'3DB0'	0	ANSWLEN	"HMAALENF+(1500*HMAALENC)+(100*HMAALENA)" THE ABOVE IS APPROX. 15K BYTES
32	(20)	X'112D0'	0	ANSWLEN6	"HMAALENG+6*(HMAALENB+(1000*HMAALENC)+(100*HMAALENA))" THE ABOVE IS APPROX. 68K BYTES

HMAA Cross Reference

Name	Hex Offset	Hex Value
ANSWLEN	20	3DB0
ANSWLEN6	20	112D0
HM@ABSUP	E	40
HM@AINPT	E	10
HM@ASEQL	E	80
HM@AVLOD	E	4
HM@AVSUP	E	8
HM@BSAM	40	2
HM@DISAB	40	80
HM@HRB0	38	40
HM@NCCHD	38	14
HM@NORNQ	40	20
HM@NORNV	40	40
HM@OBTN	38	38
HM@QSAM	40	20
HM@RNGT	38	28
HM@RTAIN	40	4
HM@SV261	38	18
HM@SV262	38	1C
HM@SV263	38	20
HM@SV264	38	24
HM@SV265	38	30
HM@TRKC	38	3C
HM@TRKR	38	2C
HM@UCBLK	38	34
HM@VSAM	40	40
HMAA	0	
HMAAAFLG	E	
HMAAASID	C	
HMAABKDP	4C	
HMAACFLG	40	
HMAACHTS	14	
HMAACISZ	44	
HMAACURR	18	
HMAADLFA	3E	
HMAADSNB	0	
HMAADSNM	4	
HMAADSNP	C	
HMAADSNS	10	
HMAAERR	38	
HMAAEXPB	1C	
HMAAGLBF	40	
HMAAHRBA	4	
HMAAHRBN	4	4
HMAAHURB	3C	
HMAAINRT	2C	
HMAAIRET	24	
HMAALEN	4	
HMAALENA	20	24
HMAALENB	6C	70
HMAALENC	4	8
HMAALEND	0	
HMAALENF	6C	C0
HMAALENG	4C	50
HMAALRBA	0	
HMAALRBN	0	0
HMAAMAXC	14	
HMAAMNRT	28	
HMAAMRET	20	
HMAANIOR	10	
HMAANUMC	34	
HMAANUMD	8	
HMAANUMR	3C	
HMAAOPNN	48	
HMAAPHSP	20	
HMAAPHYS	1C	
HMAARBA	8	
HMAARBN	8	8
HMAARES1	1	
HMAARES2	38	
HMAARES3	41	
HMAARES4	44	
HMAARES5	48	
HMAARES6	4C	
HMAARES7	36	
HMAARES8	39	
HMAARES9	68	
HMAARNG	0	
HMAARNGN	58	
HMAARNGP	50	
HMAARNGS	54	
HMAARS10	6C	
HMAATIME	0	
HMAATOES	30	
HMAATRKN	64	
HMAATRKP	5C	
HMAATRKR	0	
HMAATRKS	60	
HMAAVERS	0	
HMAAVOL	30	
HMAAWATS	18	

HMPL Heading Information

Common Name: Hiperbatch Monitor Parameter List
Macro ID: COFZHMPL
DSECT Name: HMPL
Owning Component: VLF (SC164)
Eye-Catcher ID: None
Storage Attributes: Subpool: 0
Key: 8
Residency: Above 16MB in central/virtual storage
Size: 40 bytes for HMPL,
56 bytes for each HMPHR
44 bytes for each HMPDS
Created by: The HMPL is created by the requestor of the Hiperbatch Monitor data collector (COFDSTAT). The storage for the HMPL may reside anywhere in private or common addressable storage.
Pointed to by: Private pointer (or data register), in containing module.
Register 1 on entry to COFDSTAT.
Serialization: None required.
Function: The HMPL represents a request to the Hiperbatch Monitor data collector (COFDSTAT). This parm list must be filled in for COFDSTAT to process the request.

HMPL Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	HMPL	HIPERBATCH SERVICE CALL WORKAREA
0	(0)	BITSTRING	1	HMPVERSN	WORKAREA VERSION NUMBER X'00'
1	(1)	BITSTRING	1	HMPFUNCN	FUNCTION CODE:
1	(1)	X'1'	0	HM@GLBL	"1" GLOBAL REQUEST
1	(1)	X'2'	0	HM@SUMM	"2" SUMMARY REQUEST
1	(1)	X'3'	0	HM@SLCT	"3" "SELECTED DATASETS" REQUEST
1	(1)	X'4'	0	HM@ALL	"4" 'ALL' REQUEST
2	(2)	BITSTRING	2		RESERVED FOR FUTURE USE
4	(4)	ADDRESS	4	HMPANSWR	POINTER TO ANSWER AREA (HMAA)
8	(8)	SIGNED	4	HMPANSLN	ANSWER AREA LENGTH
12	(C)	ADDRESS	4	HMPHRBLK	POINTER TO HIGH USED RBA/RBN BLOCK
16	(10)	SIGNED	4	HMPHRNUM	NUMBER OF HMPHR ENTRIES
20	(14)	SIGNED	4	HMPHRSIZ	SIZE OF EACH HMPHR ENTRY
24	(18)	ADDRESS	4	HMPDSBLK	POINTER TO FIRST HMPDS ENTRY
28	(1C)	SIGNED	4	HMPDSNUM	NUMBER OF HMPDS ENTRIES
32	(20)	SIGNED	4	HMPDSSIZ	SIZE OF EACH HMPDS ENTRY
36	(24)	SIGNED	4		RESERVED FOR FUTURE USE

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	HMPHR	HIGH USED RBA/N BLOCK SAVEAREA
0	(0)	CHARACTER	44	HMPHRDSN	CACHED DATA SET NAME
44	(2C)	CHARACTER	8	HMPHRSTK	DATA SET'S HIPERSPACE STOKEN
52	(34)	SIGNED	4	HMPHRHRB	HIGH USED RBA / N
52	(34)	X'38'	0	HM@HRLEN	"*-HMPHR" LENGTH OF AREA

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HMPL Cross Reference

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	HMPDS	DATA SET NAME REQUEST BLOCK
0	(0)	CHARACTER	44	HMPDSDSN	REQUESTED DATA SET NAME
0	(0)	X'2C'	0	HM@DSLEN	"*-HMPDS" LENGTH OF AREA

Comment

RETURN CODES (IN REG 15) FROM COFDSTAT

End of Comment

0	(0)	X'4'	0	HM@LEN	"4" LENGTH ERROR (ANSWER AREA TOO SMALL)
0	(0)	X'8'	0	HM@PARM	"8" INPUT PARAMETER ERROR
0	(0)	X'C'	0	HM@NHIPR	"12" DLF NOT ACTIVE OR HIPERBATCH NOT CACHING
0	(0)	X'10'	0	HM@NCACH	"16" NO DATA SETS CURRENTLY BEING CACHED
0	(0)	X'14'	0	HM@ENVER	"20" ENVIRONMENTAL ERRORS

Comment

PARAMETER ERROR (RETURN CODE 8) REASON CODES (IN REG 0)

End of Comment

0	(0)	X'0'	0	HM@PRM00	"0" HMPL VERSION NUMBER NOT SUPPORTED
0	(0)	X'4'	0	HM@PRM04	"4" INVALID ANSWER AREA POINTER
0	(0)	X'8'	0	HM@PRM08	"8" INVALID ANSWER AREA LENGTH
0	(0)	X'C'	0	HM@PRM12	"12" INVALID FUNCTION CODE
0	(0)	X'10'	0	HM@PRM16	"16" INVALID DATA SET BLOCK POINTER
0	(0)	X'14'	0	HM@PRM20	"20" INVALID HMPDSNUM VALUE
0	(0)	X'18'	0	HM@PRM24	"24" INVALID HMPDSSIZ VALUE

Comment

HIPERBATCH ERROR (RETURN CODE 12) REASON CODES (IN REG 0)

End of Comment

0	(0)	X'0'	0	HM@HPB00	"0" DLF NOT ACTIVE
0	(0)	X'4'	0	HM@HPB04	"4" VLF DATA IS INVALID
0	(0)	X'8'	0	HM@HPB08	"8" HB HAS NOT YET OPENED ANY DATA SETS
0	(0)	X'C'	0	HM@HPB12	"12" GLOBAL HEADER EYECATCHER INVALID
0	(0)	X'10'	0	HM@HPB16	"16" GLOBAL PROPER POINTER INVALID
0	(0)	X'14'	0	HM@HPB20	"20" GLOBAL PROPER EYECATCHER INVALID
0	(0)	X'18'	0	HM@HPB24	"24" GLOBAL DATA SET TABLE PTR INVALID

HMPL Cross Reference

Name	Hex Offset	Hex Value
HM@ALL	1	4
HM@DSLEN	0	2C
HM@ENVER	0	14
HM@GLBL	1	1
HM@HPB00	0	0
HM@HPB04	0	4
HM@HPB08	0	8
HM@HPB12	0	C
HM@HPB16	0	10
HM@HPB20	0	14
HM@HPB24	0	18
HM@HRLEN	34	38
HM@LEN	0	4
HM@NCACH	0	10
HM@NHIPR	0	C
HM@PARM	0	8
HM@PRM00	0	0
HM@PRM04	0	4
HM@PRM08	0	8
HM@PRM12	0	C
HM@PRM16	0	10
HM@PRM20	0	14
HM@PRM24	0	18
HM@SLCT	1	3
HM@SUMM	1	2
HMPANSLN	8	
HMPANSWR	4	
HMPDS	0	
HMPDSBLK	18	
HMPDSDSN	0	
HMPDSNUM	1C	
HMPDSSIZ	20	
HMPFUNCN	1	
HMPHR	0	
HMPHRBLK	C	
HMPHRDSN	0	
HMPHRHRB	34	
HMPHRNUM	10	

Name	Hex Offset	Hex Value
HMPHRSIZ	14	
HMPHRSTK	2C	
HMPL	0	
HMPVERSN	0	

IARDRL Programming Interface information

Programming Interface information

IARDRL

End of Programming Interface information

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IARDRL Heading Information

Common Name: DSPSERV Range List Entry
Macro ID: IARDRL
DSECT Name: DRL
Owning Component: Real Storage Manager (SC1CR)
Eye-Catcher ID: None
Storage Attributes: Virtual Storage: Yes
Subpool: Caller-defined (must be non-pageable for caller with >16 ranges)
Key: Caller-defined
Residency: Must be above 16 meg virtual
Size: DRLLEN bytes
Created by: Caller
Pointed to by: x_ZXRANGLIST field of DSPSERV MF(L,x) expansion.
Serialization: None
Function: Contains mapping for RANGLIST data for the DSPSERV service.

IARDRL Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	DRL	, Maps the DSPSERV range list (DRL) entry.
0	(0)	ADDRESS	4	DRLSTVSA	Starting virtual storage address of the data space range to be processed.
4	(4)	CHARACTER	1	DRLRSV	Reserved.
5	(5)	SIGNED	3	DRLNUMPG	Number of pages in the data space range to be processed.
8	(8)	SIGNED	4	DRLEND (0)	End of DSPSERV range list (DRL) entry mapping.
8	(8)	X'8'	0	DRLLEN	"DRLEND-DRL" Length of a DRL.

IARVRL Programming Interface information

Programming Interface information

IARVRL

End of Programming Interface information

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IARVRL Heading Information

Common Name: IARVSERV Virtual Range List Entry
Macro ID: IARVRL
DSECT Name: VRL
Owning Component: Real Storage Manager (SC1CR)
Eye-Catcher ID: None
Storage Attributes: Virtual Storage: Yes
Subpool: Caller-defined (must be non-pageable for authorized caller with >16 ranges)
Key: Caller-defined
Residency: Must be above 16 meg virtual
Size: VRLLEN bytes
Created by: Caller
Pointed to by: x_ZXRANGLIST field of IARVSERV MF(L,x) expansion.
Serialization: None
Function: Contains mapping for RANGLIST data for the IARVSERV service.

IARVRL Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	VRL	, Maps the IARVSERV range list (VRL) entry
0	(0)	ADDRESS	4	VRLSVSA	Starting virtual storage address of the source data to be made shared. This field is ignored for the UNSHARE request.
4	(4)	BITSTRING	8	VRLSSTKN (0)	STOKEN of the space in which the source data resides. If ALET is used rather than STOKEN, then the first 4 bytes must be zero. This field is ignored for the UNSHARE request. Note: an STOKEN may be specified for data space storage only.
4	(4)	BITSTRING	4	VRLSSTK1	First word of source STOKEN. When this word is zero, VRLSALET contains an ALET
8	(8)	SIGNED	4	VRLSALET	ALET which corresponds to the space in which the source data resides. This field is ignored for the UNSHARE request.
12	(C)	ADDRESS	4	VRLNUMPG	Number of pages in the SOURCE and/or TARGET area. This field is required for both the SHARE and the UNSHARE requests.
16	(10)	ADDRESS	4	VRLTVSA	Starting virtual storage address of the target data to be made shared or unshared. This field is required for both the SHARE and the UNSHARE requests.
20	(14)	BITSTRING	8	VRLTSTKN (0)	STOKEN of the space in which the target data resides. If ALET is used rather than STOKEN, then the first 4 bytes must be zero. This field is required for both the SHARE and the UNSHARE requests. Note: an STOKEN may be specified for data space storage only.
20	(14)	BITSTRING	4	VRLTSTK1	First word of target STOKEN. When this word is zero, VRLSALET contains an ALET
24	(18)	SIGNED	4	VRLTALET	ALET which corresponds to the space in which the target data resides. This field is required for both the SHARE and the UNSHARE requests.
28	(1C)	SIGNED	4	VRLEND (0)	End of IARVSERV range list (VRL) entry mapping
28	(1C)	X'1C'	0	VRLLEN	"VRLEND-VRL" Length of a VRL

IARVRL Cross Reference

Name	Hex Offset	Hex Value
VRL	0	
VRLEND	1C	
VRLLEN	1C	1C
VRLNUMPG	C	
VRLSALET	8	
VRLSSTKN	4	
VRLSSTK1	4	
VRLSVSA	0	
VRLTALET	18	
VRLTSTKN	14	
VRLTSTK1	14	
VRLTVSA	10	

IAXCNTPL Heading Information

Common Name: RSM Frame Count Service Parameter List
Macro ID: IAXCNTPL
DSECT Name: None
Owning Component: Real Storage Manager (SC1CR)
Eye-Catcher ID: None
Storage Attributes: Virtual Storage: Yes
Auxiliary Storage: No
Subpool: User specified
Key: Any, but must agree with input save area, parm list, and work area.
AMODE = 31 LOCKS HELD = None required ASC MODE = Primary or Secondary ADDRESS SPACE = Irrelevent MEMORY MODE = XMEM | non-XMEM DISPATCH MODE = Task | SRB
Data Space: No
Residency: User specified
Size: 48 bytes
Created by: CALLER
INITIALIZED BY = CALLER
DESTROYED BY = CALLER
Pointed to by: Register 1 (request to IAXXC)
Serialization: PROVIDED BY CALLER
Function: Contains input and output information for the request to IAXXC to obtain the frame count

IAXCNTPL Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	48	PARMS_NTF	Parm list for IARXCNTF
0	(0)	ADDRESS	4	NTFWORKA	Address of input work area
4	(4)	BITSTRING	4	FLAGS	Flags word
		1...		SWAP_FLAG	Address space swapped in/out indicator (not meaningful if this request was for common). 0 = swapped in 1 = swapped out
		.1..		NEW_PLIST	1 = New Parm list which contains FIXED_ABOVE is used 0 = Old Parm list is used
4	(4)	BITSTRING	3	*	Reserved
8	(8)	SIGNED	4	FXED	The total number of fixed frames owned by the address space or page-fixed pages if this is common
12	(C)	SIGNED	4	FIXED_BEL	Of the total fixed frames indicated in FXED field, the number of frames located below 16MB real storage
16	(10)	SIGNED	4	FIXED_LSQA	Of the total fixed frames indicated in FXED field, the number of frames backing LSQA pages (will be zero for common)
20	(14)	SIGNED	4	DREF	The total amount of processor storage (frames) backing LSQA DREF and data space DREF storage (SQA-DREF if request is for common)
24	(18)	SIGNED	4	DREF_REAL	Of the total indicated in DREF field the number of real storage frames backing LSQA DREF and data space DREF storage (SQA DREF for common)
28	(1C)	SIGNED	4	CSA	The total amount of processor storage (frames) backing CSA pages. It is only meaningful for common and not meaningful for address spaces
32	(20)	SIGNED	4	FIXED_ABOVE	Of the total fixed frames indicated in FXED field, the number of frames located between 16MB and 2G real storage
36	(24)	CHARACTER	12	CNTRSV	Reserved

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IAXCNTPL Constants

Len	Type	Value	Name	Description
4	DECIMAL	128	NTFWORKA_SIZE	Size of the input workarea needed by the frame count service routine

IAXCNTPL Cross Reference

Name	Hex Offset	Hex Value
CNTRSV	24	
CSA	1C	
DREF	14	
DREF_REAL	18	
FIXED_ABOVE	20	
FIXED_BEL	C	
FIXED_LSQA	10	
FLAGS	4	
FXED	8	
NEW_PLIST	4	40
NTFWORKA	0	
PARMS_NTF	0	
SWAP_FLAG	4	80

IAXPFTE Heading Information

Common Name:	PAGE FRAME TABLE ENTRY
Macro ID:	IAXPFTE
DSECT Name:	PFTE
Owning Component:	Real Storage Manager (SC1CR)
Eye-Catcher ID:	None
Storage Attributes:	Virtual Storage: Yes Subpool: N/A (See Residency) Key: 0 Residency: A dataspace called IARPFT
Size:	64 Bytes
Created by:	RSM Initialization
Pointed to by:	PFTFQPTR field of the PFTE Data Area PFTBQPTR field of the PFTE Data Area RITPFTE field of the RIT Data Area RITLPFTE field of the RIT Data Area RITFPFTE field of the RIT Data Area RITPAFQF field of the RIT Data Area RITPAFQL field of the RIT Data Area RITNAFQF field of the RIT Data Area RITNAFQL field of the RIT Data Area RITPBFQF field of the RIT Data Area RITPBFQL field of the RIT Data Area RITNBFQF field of the RIT Data Area RITNBFQL field of the RIT Data Area RITTDFQF field of the RIT Data Area RITTDFQL field of the RIT Data Area RITBDFQF field of the RIT Data Area

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RITBDFQL field of the RIT Data Area
RITSFQF field of the RIT Data Area
RITSFQL field of the RIT Data Area
RITRSFQF field of the RIT Data Area
RITRSFQL field of the RIT Data Area
RITSBFQF field of the RIT Data Area
RITSBFQL field of the RIT Data Area
RITVRFQF field of the RIT Data Area
RITVRFQL field of the RIT Data Area
RITFVR field of the RIT Data Area
RITLVR field of the RIT Data Area
RITNPFTE field of the RIT Data Area
RITPFTEC field of the RIT Data Area
RITSFFQF field of the RIT Data Area
RITSFFQL field of the RIT Data Area
RITSPFQF field of the RIT Data Area
RITSPFQL field of the RIT Data Area
RITPHFQF field of the RIT Data Area
RITPHFQL field of the RIT Data Area
RITNHFQF field of the RIT Data Area
RITNHFQL field of the RIT Data Area
RITQSFQF field of the RIT Data Area
RITQSFQL field of the RIT Data Area
RITQDFQF field of the RIT Data Area
RITQDFQL field of the RIT Data Area
RITQHFQF field of the RIT Data Area
RITQHFQL field of the RIT Data Area
RIT2GPFT field of the RIT Data Area
RITPFTEC field of the RIT Data Area
RITPFTAC field of the RIT Data Area
RITGDFQF field of the RIT Data Area
RITGDFQL field of the RIT Data Area
RITQDPrefStealCursor field of the RIT Data Area
RITQDStealCursor field of the RIT Data Area
PCBPFTE field of the PCB Data Area
RABPFQF field of the RAB Data Area
RABPFQL field of the RAB Data Area
RABFFQF field of the RAB Data Area
RABFFQL field of the RAB Data Area
RABDFFQF field of the RAB Data Area
RABDFFQL field of the RAB Data Area

Serialization: Varies

Function: Represents a FRAME to RSM

IAXPFTE Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	64	PFTE	

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
					Comment
		2 Char(8) BDY(WORD), 4 Fixed(32), Need to make sure queueing/dequeueing methods work before we leave some reserved space for forward/ backwards pointers			
					End of Comment
0	(0)	ADDRESS	4	PFTFQPTR	FORWARD PFTE QUEUE POINTER
					Comment
		2 Char(8) BDY(WORD), 4 Fixed(32),			
					End of Comment
4	(4)	ADDRESS	4	PFTBQPTR	BACKWARD PFTE QUEUE POINTER
8	(8)	CHARACTER	1	PFTQID	QUEUE ID FOR CURRENT QUEUE UNLESS THE PFTE IS ON AN AVAILABLE FRAME QUEUE---- 08=>TOP-DOUBLE-FRAME-QUEUE 09=>BOTTOM-DOUBLE-FRAME-QUEUE 21=>SQA-FRAME-QUEUE 22=>RESERVED-SQA-FRAME-QUEUE 23=>REAL-STG-BUF-FRAME-QUEUE 24=>V=R-WAITING-FRAME-QUEUE 25=>General Defer Frame Queue 40=>SHARED-PAGE-FIXED-FR-QUEUE 41=>SHARED-PAGE-PAGEABLE-FR-QU EUE 81=>PAGEABLE-FRAME-QUEUE 82=>FIXED-FRAME-QUEUE 83=>DEFERRED-FREEMAIN-FR-QUEUE 84=>HIGH VIRTUAL FRAME QUEUE 85=>LOCAL QUAD FRAME QUEUE 86=>PAGE TABLE FRAME QUEUE A1=>PAGEABLE-DATA-SPACE-FR-QUE A2=>FIXED-DATA-SPACE-FR-QUEUE A3=>DEFERRED-DELETE-FR-QUEUE E0=>PAGEABLE-RDD-FRAME-QUEUE E1=>FIXED-RDD-FRAME-QUEUE E2=>ORPHAN-FRAME-QUEUE F0=>UNQUEUED..DAT-OFF-NUCLEUS F1=>UNQUEUED..READ-ONLY-NUC. F2=>UNQUEUED..READ/WRITE-NUC. F3=>UNQUEUED..RSMDATA FRAME F4=>UNQUEUED..HW-SYSTEM-AREA F5=>UNQUEUED..ABS.-ZERO-FRAME F6=>UNQUEUED..FIXED-LPA/BLDL FD=>A-FLAWED-PFTE FE=>UNQUEUED..UNINITIALIZED FF=>UNQUEUED-PFTE
9	(9)	UNSIGNED	1	PFTUIC	NUMBER OF UPDATE INTERVALS DURING WHICH FRAME WAS NOT REFERENCED
10	(A)	BITSTRING	1	PFTFLGS2	FLAG BYTE 2 (ALLOCATION FLAGS)
		1...		PFTONAFQ	PFTE IS ON AN AFQ
		.1..		PFTPERM	FRAME IS BACKING PERMANENT STG
		..1.		PFTOFFLN	FRAME IS OFF-LINE
		...1		PFTVIODP	This PFTE contains a VIO dataset page
		.... 1...		PFTVRWT	FRAME IS WAITING FOR V=R ALLOC.
		.... .1..		PFTVRALC	FRAME IS ALLOCATED TO V=R
		.... ..1.		PFTDREF	FRAME IS BACKING A DREF PAGE
		1		PFTDSPPG	FRAME IS BACKING A DATA SPACE PAGE
11	(B)	BITSTRING	1	PFTFLGS3	FLAG BYTE 3 (MISC. FLAGS)
		1...		PFTIOCUR	I/O IS CURRENT FOR THIS FRAME
		.1..		PFTVRPLT	THIS FRAME IS CURRENTLY POLLUTING THE V=R AREA
		..1.		PFTVIORU	THIS FRAME IS VIO REUSABLE
		...1		PFTVRINT	FRAME IS V=R INTERCEPTED
		.... 1...		PFTOFINT	FRAME IS OFFLINE INTERCEPTED

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		.... .1..		PFTNOREC	INTERCEPTED FRAME SUMMARY BIT- THIS FRAME HAS BEEN INTERCEPTED AND SHOULD NOT BE TAKEN UNLESS IT IS SENT TO AN AVAILABLE FRAME QUEUE. ALSO, THE PAGE ASSOCIATED WITH THE FRAME CANNOT BE REVALIDATED WITH A DIFFERENT FRAME IF A REQUEST FOR THE PAGE IS CURRENTLY ON THE DPQ.
		.... ..1.		PFTIOMC	I/O FOR THIS FRAME MUST COMPLETE INTACT. NEITHER THE FRAME NOR THE DATA MAY BE USED UNTIL THE I/O HAS COMPLETED.
		1		PFTNOPRF	FRAME SHOULD NOT BE STOLEN BY GETFRAME PREF STEAL
12	(C)	CHARACTER	4	PFTFCWRD	FIX COUNT WORD. SERIALIZED BY COMPARE AND SWAP. NOTE: PFTFXCT MUST ALWAYS BE THE LOW ORDER HALFWORD OF THIS FIELD FOR ?INC/DECFXCT TO WORK.
12	(C)	CHARACTER	1	PFTFREID	ID OF QUEUE TO WHICH THIS PFTE IS TO BE RETURNED WHEN FREED-- 01=>PREFERRED-ABOVE-AFQ 02=>NON-PREFERRED-ABOVE-AFQ 03=>PREFERRED-BELOW-AFQ 04=>NON-PREFERRED-BELOW-AFQ 05=>PREFERRED-HIGH-AFQ 06=>NON-PREFERRED-HIGH-AFQ 07=>NON-PREFERRED-QUAD-AFQ 08=>TOP-DOUBLE-FRAME-QUEUE 09=>BOTTOM-DOUBLE-FRAME-QUEUE FF=>NON-FREEABLE-PFTE
13	(D)	BITSTRING	1	PFTFLGS1	FLAG BYTE 1 (PHYSICAL FLAGS). SINCE PFTFCWRD IS DECLARED ABNL, PL/AS WILL GENERATE COMPARE AND SWAP INSTRUCTIONS WHEN UPDATING THESE FLAGS.
		1...		PFTPREF	PFTE IS FOR PREFERRED AREA
		.1..		PFTBELOW	PFTE IS FOR REAL BELOW 16M
		..1.		PFTVR	PFTE IS A V=R CANDIDATE
		...1 1...		*	RESERVED
		.... .1..		PFTSRBSC	SRB HAS BEEN SCHEDULED TO DO FRAME DEALLOCATION.
		.... ..1.		PFTNOUNC	NO UNCORRECTABLE ERRORS HAVE OCCURRED WITHIN THE FRAME. THIS BIT IS MEANINGFUL ONLY WHEN PFTBADFR=1.
		1		PFTBADFR	BAD FRAME - DO NOT REALLOCATE
14	(E)	SIGNED	2	PFTFXCT	FIX COUNT FOR THIS FRAME
16	(10)	CHARACTER	4	PFTSER	PFTE SERIALIZATION WORD
16	(10)	BITSTRING	2	PFTSERFL	Flags portion of PftSer
		1...		PFTRDS	THIS PFTE IS SERIALIZED BY AN RSMDS LOCK
		.1..		PFTSPAGE	THIS PFTE IS IN USE FOR A SHARED PAGE AND IS SERIALIZED BY THE RSMAD/XM/CM/ST LOCK OF COMMON. PFTSDH CONTAINS THE ADDRESS OF THE SDH FOR THE SHARED PAGE GROUP
		..1.		PFTLSQA	FRAME IS BACKING SQA OR LSQA
		...1		PFTMEGAROOED	Shared meg page
		.... 1...		PFTTERM	This is a PFTE that was put on Common's PFQ by termination
		.... .111		*	RESERVED
17	(11)	BITSTRING	1	PFTRVTEX	THE RVTE INDEX IF PFTRDS=1
18	(12)	BITSTRING	2	PFTASID	ASID OF CURRENT OR LAST OWNER
20	(14)	ADDRESS	8	PFTVSA64	

Comment

VIRTUAL ADDRESS CURRENTLY OR LAST BACKED BY THIS FRAME. For translation tables for virtual pages above 2G, it will contain the lowest vsa that the table provides translation for, see PFTPGTYP for indicator of table type. E.g., a region 1st table will have PFTVSA64 = 0, an R2 table for 0 to 8P-1 will also have PFTVSA64 = 0, etc.

End of Comment

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
20	(14)	CHARACTER	8	PFTLPID	
				Comment	
				LPID for the VIO dataset Page	
				End of Comment	
20	(14)	UNSIGNED	4	PFTVSAHI	Top half of virtual address. 0 for pages < 2G.
24	(18)	ADDRESS	4	PFTVSA	VIRTUAL ADDRESS CURRENTLY OR LAST BACKED BY THIS FRAME Field maintained for compatibility with prior code supporting virtual < 2G.
24	(18)	ADDRESS	4	PFTLPIDP	Pointer to the LPID for the VIO dataset Page
24	(18)	UNSIGNED	4	PFTVIORA	VIO DATA SET PAGE REUSE ARGUMENT - VALID IF PFTVIORU=1
24	(18)	ADDRESS	4	PFTSDH	ADDRESS OF SHARED DATA HEADER - VALID IF PFTSPAGE=1
28	(1C)	ADDRESS	4	PFTPCB	ADDRESS OF PCB CURRENTLY BEING USED TO DO I/O FOR THIS FRAME (PFTIOCUR=1) OR PCB LAST USED TO DO THE I/O (PFTIOCUR=0)
28	(1C)	BITSTRING	4	PFTMEGAR	Megarooed segment info
28	(1C)	BITSTRING	1	PFTSEGNO	Segment number of the segment backed by this Megarooed page table.
29	(1D)	.... 1...		*	Reserved
29	(1D)	BITSTRING	2	PFTUDSNX	UDS index for the UDD that was source for the Megarooed segment mapped by this page table.
32	(20)	CHARACTER	4	PFTPROG	DATA SPACE PROGRAMMING WORD. THIS FIELD IS VALID IF PFTDSPPG IS ON AND THE FRAME IS NOT ON THE DDFQ.
32	(20)	ADDRESS	4	PFTQHDRPTR	Address of the queue header which anchors the PFTE queue section for pages above 2G. This field valid for ordinary pages above 2G.
32	(20)	ADDRESS	4	PFTSPE	Address of the SPE for the view which obtained this PFTE. Valid if PFTSPAGE=1
32	(20)	ADDRESS	4	PFTTCB	ADDRESS OF THE OWNING TCB IF THE FRAME IS ON THE DDFQ
32	(20)	ADDRESS	4	PFTPFTE	Address of the PFTE in the VIO Real Cache that may contain another copy of the data in this frame
32	(20)	CHARACTER	4	PFTALSID	When PFTVIODP=1, the LSID for the auxiliary storage copy of the VIO dataset page
36	(24)	BITSTRING	1	PFTPGTYP	0 - Virtual Page 1 - VIO Dataset Page 2 - Page Table 3 - Segment Table 4 - Region 3rd Table 5 - Region 2rd Table 6 - Region 1rd Table
37	(25)	CHARACTER	1	*	Reserved
38	(26)	UNSIGNED	2	PFTATTCT	Attachment count for translation tables: segment and page tables. For segment table PFTE, number of valid region 3rd entries pointing to this frame. For page table PFTE, number of valid segment table entries pointing to this frame.
40	(28)	ADDRESS	8	PFTPTEPTR	When PFTPGTYP is a Virtual Page above 2G, this is the real address of the page table entry for the virtual page.
48	(30)	CHARACTER	16	*	Reserved

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	8	PFTQHEADER	Arbitrary PFTE queue header
0	(0)	ADDRESS	4	PFTQHEADERFIRST	Address of first pfte on queue
4	(4)	ADDRESS	4	PFTQHEADERLAST	Address of last pfte on queue

IAXPFTE Constants

Len	Type	Value	Name	Description
			Comment	
		PFTE QUEUE IDS When adding a QID, examine IARQL for possible hits		
			End of Comment	
1	HEX	01	PFTPAFQN	PREFERRED ABOVE AFQ
1	HEX	02	PFTNAFQN	NON-PREFERRED ABOVE AFQ
1	HEX	03	PFTPBFQN	PREFERRED BELOW AFQ
1	HEX	04	PFTNBFQN	NON-PREFERRED BELOW AFQ
1	HEX	05	PFTPHFQN	Preferred High AFQ
1	HEX	06	PFTNHFQN	Non-Preferred High AFQ
1	HEX	07	PFTNQFQN	Non-Preferred Quad AFQ
1	HEX	08	PFTTDFQN	TOP DOUBLE FRAME QUEUE
1	HEX	09	PFTBDFQN	BOTTOM DOUBLE FRAME QUEUE
1	HEX	21	PFTSFQN	SQA FRAME QUEUE
1	HEX	22	PFTRSFQN	RESERVED SQA FRAME QUEUE
1	HEX	23	PFTSBFQN	REAL STG BUFFER FRAME QUEUE
1	HEX	24	PFTVRFQN	V=R WAITING FRAME QUEUE
1	HEX	25	PFTGDFQN	General Defer Frame Queue
1	HEX	26	PFTQSFQN	Single Quad avail q
1	HEX	27	PFTQHFQN	Quad Holding queue
1	HEX	40	PFTSFFQN	SHARED PAGE FIXED FRAME QUEUE
1	HEX	41	PFTSPFQN	SHARED PAGE PAGEABLE FRAME QUEUE
1	HEX	81	PFTPFQN	PAGEABLE FRAME QUEUE
1	HEX	82	PFTFFQN	FIXED FRAME QUEUE
1	HEX	83	PFTDFFQN	DEFERRED FREEMAIN FRAME Q
1	HEX	84	PFTHVFQN	High Virtual Frame Q (for pages between 2G and 16E-1).
1	HEX	85	PFTLQFQN	Local Quad Frame Q (quad frames for DAT tables describing pages between 2G and 16E-1).
1	HEX	86	PFTPGTQN	Page Table Frame Q (frames for page tables describing pages between 2G and 16E-1).
1	HEX	A1	PFTPDFQN	PAGEABLE DATA SPACE FQ
1	HEX	A2	PFTFDFQN	FIXED DATA SPACE FQ
1	HEX	A3	PFTDDFQN	DEFERED DELETE FRAME Q
1	HEX	E0	PFTPRFQN	PAGEABLE RDD FRAME Q
1	HEX	E1	PFTFRFQN	FIXED RDD FRAME QUEUE
1	HEX	E2	PFTOFQN	ORPHAN FRAME QUEUE
1	HEX	E8	PFTPF1QN	UNQUEUED - PFT backing PFT CADS dat structure
1	HEX	E9	PFTPF2QN	UNQUEUED - PFT backing PFT CADS
1	HEX	EA	PFTREMQN	UNQUEUED - Pft backing the real map TBD: scafolding
1	HEX	F0	PFTDONN	UNQUEUED- DAT-OFF NUCLEUS
1	HEX	F1	PFTRONN	UNQUEUED- READ ONLY NUC.
1	HEX	F2	PFTRWNN	UNQUEUED- READ/WRITE NUC.
1	HEX	F3	PFTIPCN	UNQUEUED- RSM IPCS USE ONLY
1	HEX	F4	PFTHSAN	UNQUEUED- HW SYSTEM AREA
1	HEX	F5	PFTAZN	UNQUEUED- ABSOLUTE ZERO FR
1	HEX	F6	PFTFXAN	UNQUEUED- FIXED LPA
1	HEX	FC	PFTSADN	RESERVED FOR STAND ALONE DUMP
1	HEX	FD	PFTFLAWN	UNQUEUED- PFTE WAS FOUND FLAWED DURING RECOVERY
1	HEX	FE	PFTUNIN	UNQUEUED- UNINITIALIZED
1	HEX	FF	PFTUNQDN	UNQUEUED
1	HEX	FF	PFTNOFRN	WHEN IN THE PFTFREID FIELD - THIS PFTE CANNOT BE FREED
1	HEX	07	PFTAFQMK	HIGHEST POSSIBLE AVAILABLE FRAME QUEUE ID.
1	HEX	20	PFTRITMK	LOWEST POSSIBLE RIT BASED QUEUE ID (EXCLUDING AFQS AND DOUBLE FRAME QUEUES).

Len	Type	Value	Name	Description
1	HEX	2F	PFTGLMK	Highest possible queue id for a PFTE serialized by the RSMGL lock.
1	HEX	80	PFTRABMK	LOWEST POSSIBLE QUEUE ID FOR AN ADDRESS SPACE RELATED QUEUE (RAB, DAB, OR RDD BASED FRAME QUEUE).
1	HEX	A0	PFTDABMK	LOWEST POSSIBLE QUEUE ID FOR A DAB BASED FRAME QUE
1	HEX	E0	PFTRDDML	LOWEST POSSIBLE QUEUE ID FOR AN RDD BASED FRAME QUE
1	HEX	E7	PFTRDDMH	HIGHEST POSSIBLE QUEUE ID FOR AN RDD BASED FRAME QUE
1	HEX	E8	PFTUNQMK	LOWEST ID POSSIBLE FOR AN UNQUEUED PFTE.

Comment

PFTE CONSTANTS

End of Comment

1	HEX	FE	PFTKMUIC	MAXIMUM UIC VALUE
1	HEX	FF	PFTKBUIC	UIC VALUE USED TO INDICATE A BLOCKED PAGE THAT HAS NEVER BEEN REFERENCED
4	DECIMAL	16777218	PFTALET	Alet of the CADS dataspace containing the PFT
8	CHARACTER	IARPFT	PFTCADSNAME	Name of dataspace containing PFT

IAXPFTE Cross Reference

Name	Hex Offset	Hex Value
PFTALSID	20	
PFTASID	12	
PFTATTCT	26	
PFTBADFR	D	01
PFTBELOW	D	40
PFTBQPTR	4	
PFTDREF	A	02
PFTDSPPG	A	01
PFTE	0	
PFTFCWRD	C	
PFTFLGS1	D	
PFTFLGS2	A	
PFTFLGS3	B	
PFTFQPTR	0	
PFTFREID	C	
PFTFXCT	E	
PFTIOCUR	B	80
PFTIOMC	B	02
PFTLPID	14	
PFTLPIDP	18	
PFTLSQA	10	20
PFTMEGAR	1C	
PFTMEGAROOED	10	10
PFTNOPRF	B	01
PFTNOREC	B	04
PFTNOUNC	D	02
PFTOFFLN	A	20
PFTOFINT	B	08
PFTONAFQ	A	80
PFTPCB	1C	
PFTPERM	A	40
PFTPFTE	20	
PFTPGTYP	24	
PFTPREF	D	80
PFTPROG	20	
PFTPTEPTR	28	

Name	Hex Offset	Hex Value
PFTQHDRPTR	20	
PFTQHEADER	0	
PFTQHEADERFIRST	0	
PFTQHEADERLAST	4	
PFTQID	8	
PFTRDS	10	80
PFTRVTEX	11	
PFTSDH	18	
PFTSEGNO	1C	
PFTSER	10	
PFTSERFL	10	
PFTSPAGE	10	40
PFTSPE	20	
PFTSRBSC	D	04
PFTTCB	20	
PFTTERM	10	08
PFTUDSNX	1D	
PFTUIC	9	
PFTVIODP	A	10
PFTVIORA	18	
PFTVIORU	B	20
PFTVR	D	20
PFTVRALC	A	04
PFTVRINT	B	10
PFTVRPLT	B	40
PFTVRWT	A	08
PFTVSA	18	
PFTVSAHI	14	
PFTVSA64	14	

IAXV64WA Programming Interface information

Programming Interface information

IAXV64WA

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

- V64WAENTRY
- V64WAHEADERPUBLIC

End of Programming Interface information

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IAXV64WA Heading Information

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

IAXV64WA Map

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

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	V64WAENTRY	Map for eacm memory object range list entry
0	(0)	BITSTRING	1	V64WAFLAG	Memory object flag byte
		1111		V64WAKEY	"X'F0'" Storage key for the memory object containing this range
1	(1)	BITSTRING	3		Reserved - must be zeroes
4	(4)	CHARACTER	8	V64WASTART64	Starting address of this storage range (Assumed to be on a segment boundary)
12	(C)	CHARACTER	8	V64WAEND64	End address of this storage range (assumed to be on a segment boundary)
12	(C)	X'0'	0	V64WARC_OK	"0" Successful completion
12	(C)	X'2'	0	V64WARC_CHANGED	"2" Successful completion but structure changed
12	(C)	X'4'	0	V64WARC_PARTIAL	"4" Partially successful completion. More information remains to be returned in the work area
12	(C)	X'6'	0	V64WARC_PARTIALCHANGED	"6" Partially successful completion. More information remains to be returned in the work area. The structure has changed.
12	(C)	X'8'	0	V64WARC_NOTFOUND	"8" No memory object was found
12	(C)	X'14'	0	V64WAENTRY_LEN	

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
					"*-V64WAENTRY"

IAXV64WA Cross Reference

Name	Hex Offset	Hex Value
V64WAEND64	C	
V64WAENTRY	0	
V64WAENTRY_LEN		
	C	14
V64WAFLAG	0	
V64WAHEADER	0	
V64WAHEADER_LEN		
	24	28
V64WAHEADERPRIVATE		
	0	
V64WAHEADERPUBLIC		
	20	
V64WAKEY	0	F0
V64WANUMDATAAREAS		
	24	
V64WARC_CHANGED		
	C	2
V64WARC_NOTFOUND		
	C	8
V64WARC_OK	C	0
V64WARC_PARTIAL		
	C	4
V64WARC_PARTIALCHANGED		
	C	6
V64WARETURNCODE		
	20	
V64WASTART64	4	

IAZBTOKP Programming Interface information

Programming Interface information

IAZBTOKP

End of Programming Interface information

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IAZBTOKP Heading Information

Common Name: JES spool data set browse token (common mapping)
Macro ID: IAZBTOKP
DSECT Name: IAZBTOKP or BTOK
Owning Component: JES Common (SC141)
Eye-Catcher ID: BTOK
Offset: BTOKID-BTOK
Length: L'BTOKID
Storage Attributes: Subpool: Caller
Key: Any
Residency: Virtual and real storage are anywhere.
Size: See BTOKSIZE
Created by: Caller of dynamic allocation
Sysout API Put/Get SSI
Pointed to by: SSALBTKN in the dynamic allocation SSOB extension
SSS2BTOK in the Sysout API SSOB extension
Serialization: None required
Function: This macro maps the spool data set browse token that is passed via a dynamic allocation text unit on spool data set browse allocation requests.

The information in this token is utilized by the job entry subsystem to allocate spool data sets in read only (browse) mode so they may be opened and read using standard MVS data management services for access to spool data.
The information is also used to link Sysout API control information to the data set being allocated. When used in this fashion, the IAZBTOKP area is constructed entirely by the Sysout API and a pointer to this area is passed back to the Sysout API PUT/GET function caller in the SSS2BTOK field.

IAZBTOKP Map

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

Comment

EQU 1 Reserved - do not ever use

End of Comment

8	(8)	X'2'	0	BTOKSAPI	"2" Block created by Sysout API
8	(8)	X'3'	0	BTOKSTKN	"3" SPOOL data set or client token allocation
9	(9)	BITSTRING	1	BTOKVERS	Version
9	(9)	X'3'	0	BTOKVRNM	"3" Version OS/390 Release 10
10	(A)	BITSTRING	2	BTOKPL3	Spool token length

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

IAZBTOKP Cross Reference

Name	Hex Offset	Hex Value
BTOK	0	0
BTOKASID	18	
BTOKBRWS	8	0
BTOKEND	27	125
BTOKID	2	
BTOKIOTP	C	
BTOKJKEY	12	
BTOKLOGS	26	
BTOKLSDA	27	
BTOKLSDL	26	
BTOKPL1	0	
BTOKPL2	6	
BTOKPL3	A	
BTOKPL4	10	
BTOKPL5	16	
BTOKPL6	1A	
BTOKPL7	24	
BTOKRCID	1C	
BTOKSAPI	8	2
BTOKSAPT	C	C
BTOKSIZE	27	125
BTOKSPLT	C	C
BTOKSTKN	8	3
BTOKTYPE	8	
BTOKVER	8	
BTOKVERS	9	
BTOKVRNM	9	3
IAZBTOKP	0	

IAZCHK Programming Interface information

Programming Interface information

IAZCHK

End of Programming Interface information

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IAZCHK Heading Information

Common Name: JES FSI checkpoint record area
Macro ID: IAZCHK
DSECT Name: IAZCHK or CHK
Owning Component: JES Common (SC141)
Eye-Catcher ID: 'CHK '
Offset: CHKID-CHK
Length: L'CHKID
Storage Attributes: Subpool: Caller
Key: Any
Residency: Virtual and real storage are anywhere.
Size: See CHKLEN
Created by: Caller of FSIREQ service
Pointed to by: GDSCKPA field of the IAZFSIP data area when FSIREQ REQUEST=FSIGDS
CHKADR field of the IAZFSIP data area when FSIREQ REQUEST=FSICKPT
Serialization: None required
Function: This macro maps the data area describing the dataset information needed to understand the progress being made on the dataset by the processing FSA when a significant point in logic was reached. This information is used if the processing needs to be restarted, for example, a printer is repositioned and needs to resume work on a piece of output.

IAZCHK Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	IAZCHK	
0	(0)	X'0'	0	CHK	"IAZCHK" ALTERNATE DSECT NAME
0	(0)	CHARACTER	4	CHKID	CHKPT RECORD AREA ID
4	(4)	SIGNED	2	CHKLNGTH	CHKPT LENGTH
6	(6)	SIGNED	2		RESERVED
8	(8)	CHARACTER	64	CHKJESWK	TO BE FILLED IN BY JES
72	(48)	CHARACTER	8	CHKRBA	JES EQUIVALENT OF A RBA
80	(50)	SIGNED	4	CHKDEV	DEVICE TYPE
84	(54)	SIGNED	4	CHKMOD	MODEL NUMBER
88	(58)	SIGNED	4	CHKCOPY	COPY COUNT
92	(5C)	SIGNED	4	CHKTRNC	TRANSMISSION COUNT
96	(60)	SIGNED	4	CHKREC	LOGICAL RECORD COUNT(FROM SPOOL)
100	(64)	SIGNED	4	CHKPAGE	PHYSICAL SHEET COUNT
104	(68)	CHARACTER	8	CHKPROD	PRODUCT THAT CREATED CKPT REC
112	(70)	SIGNED	4	CHKVER	VERSION OF PRODUCT
116	(74)	SIGNED	4	CHKRELS	RELEASE OF PRODUCT
120	(78)	SIGNED	4	CHKMODF	MODIFICATION LEVEL OF PRODUCT
124	(7C)	SIGNED	4	CHKSERV	SERVICE LEVEL OF PRODUCT
124	(7C)	X'80'	0	CHKLEN	"*-CHK"

IAZCHK Cross Reference

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

IAZCTKN Programming Interface information

Programming Interface information

IAZCTKN

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

- CTKNSORT

End of Programming Interface information

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IAZCTKN Heading Information

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

IAZCTKN Map

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

Comment

All fields except for CTKNJESD are common between JES2 and JES3.

End of Comment

0	(0)	SIGNED	1	CTKNJESI	Identifies which JES built the CTOKEN
0	(0)	X'2'	0	CTKNJES2	"2" Identifier for JES2
0	(0)	X'3'	0	CTKNJES3	"3" Identifier for JES3
1	(1)	SIGNED	1	CTKNPLVL	Product level of CTOKEN creator
2	(2)	SIGNED	1	CTKNSLVL	Service level of CTOKEN creator
3	(3)	BITSTRING	1		Reserved alignment byte
4	(4)	SIGNED	4	CTKNSORT	Sort key
8	(8)	SIGNED	4	(0)	Full word alignment
8	(8)	BITSTRING	8	CTKNBMAP	Bit map for supported bytes in the JES dependent area
16	(10)	CHARACTER	64	CTKNJESD	JES dependent section
16	(10)	X'50'	0	CTOKEND	"*" End of CTOKEN
16	(10)	X'50'	0	CTKNSIZE	"CTOKEND-CTOKEN" Size of CTOKEN

IAZCTKN Cross Reference

Name	Hex Offset	Hex Value
CTKNBMAP	8	
CTKNJESD	10	
CTKNJESI	0	
CTKNJES2	0	2
CTKNJES3	0	3
CTKNPLVL	1	
CTKNSIZE	10	50
CTKNSLVL	2	
CTKNSORT	4	
CTOKEN	0	
CTOKEND	10	50

IAZCVDEV Programming Interface information

Programming Interface information

IAZCVDEV

End of Programming Interface information

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IAZCVDEV Heading Information

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

IAZCVDEV Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	CVDEV	
0	(0)	CHARACTER	4	CVDVSSID	I.Eye catcher
4	(4)	ADDRESS	2	CVDVLEN	I.Length of CVDEV parameter list
6	(6)	SIGNED	2	CVDEVVRN	I.Parm list version number
6	(6)	X'1'	0	CVDVVER1	"1" Service version number of IAZCVDEV
8	(8)	SIGNED	2	CVDVVERO	O.Subsystem version number
10	(A)	SIGNED	2		Reserved

Comment

Device Name Input and Output Section

End of Comment

12	(C)	BITSTRING	4		Reserved for future use
16	(10)	BITSTRING	1		A filler byte to preserve alignment
17	(11)	BITSTRING	3	CVDVID	I.Device ID in binary
20	(14)	BITSTRING	4		Reserved for future use
24	(18)	CHARACTER	18	CVDVNAME	O.Converted name in EBCDIC
42	(2A)	BITSTRING	14		Reserved for future use
42	(2A)	X'38'	0	CVDVSZE	"*-CVDEV" Size of CVDEV

Comment

CVDEV reason code
The reason code is placed in SSJIRETN

End of Comment

42	(2A)	X'0'	0	CVDVOK	"0" Success
42	(2A)	X'4'	0	CVDVERR	"4" Conversion unsuccessful
42	(2A)	X'8'	0	CVDVILG	"8" Eye catcher is not initialized correctly

IAZCVDEV Cross Reference

Name	Hex Offset	Hex Value
CVDEV	0	
CVDEVVRN	6	
CVDVERR	2A	4
CVDVID	11	
CVDVILG	2A	8
CVDVLEN	4	
CVDVNAME	18	
CVDVOK	2A	0
CVDVSSID	0	
CVDVSZE	2A	38
CVDVVERO	8	
CVDVVER1	6	1

IAZENF58 Programming Interface information

Programming Interface information

IAZENF58

End of Programming Interface information

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IAZENF58 Heading Information

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

IAZENF58 Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	ENF58	ENF58 mapping
0	(0)	CHARACTER	6	ENF58_ID	Eye catcher 'ENF58 '
6	(6)	BITSTRING	1	ENF58_VERSION	Version of mapping
6	(6)	X'1'	0	ENF58_VONE	"1" Version 1
6	(6)	X'1'	0	ENF58_CVER	"ENF58_VONE" Current version
7	(7)	BITSTRING	1		Reserved
8	(8)	SIGNED	4	ENF58_LENGTH	Length of parameter list
12	(C)	BITSTRING	1	ENF58_QUALIFIER	Qualifier code - defined below
12	(C)	X'1'	0	ENF58_Q_PURGE	"1" Data Set was purged
12	(C)	X'2'	0	ENF58_Q_SELECT	"2" Data Set was selected

Comment

A data set has been "processed" by JES2 if a $#DISPRO is issued to update the data set disposition.
A data set has been "processed" by JES3 if the data set is complete.

End of Comment

12	(C)	X'3'	0	ENF58_Q_DESELECT_PROCESSED	"3" Data set was processed
12	(C)	X'4'	0	ENF58_Q_DESELECT_NOT_PROCESSED	"4" Data set is no longer selected, disposition was not updated
12	(C)	X'5'	0	ENF58_Q_DESELECT_NOT_PROCESSED_HELD	"5" Data set is no longer selected, disposition was not updated and data set is held
12	(C)	X'6'	0	ENF58_Q_DESELECT_ERROR	"6" An error resulting in a system level hold occurred
12	(C)	X'7'	0	ENF58_Q_EOD_OK	"7" End of data set notification occurred - successful
12	(C)	X'8'	0	ENF58_Q_EOD_ERROR	"8" End of data set notification occurred - unsuccessful
12	(C)	X'9'	0	ENF58_Q_JOB_CHANGE	

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
					"9" Job-status change occurred
12	(C)	X'A'	0	ENF58_Q_TOKEN_CHANGE	
					"10" Client token has changed
13	(D)	BITSTRING	1	ENF58_SYS_HOLD	
					System hold reason - refer to IAZOHLD for possible values
14	(E)	CHARACTER	8	ENF58_JES_NAME	
					JES2 Member Name / JES3 MAIN name where this signal originated

Comment

```
ENF58_REASON can contain a variety of different
information depending on the ENF type being issued.
ENF 58 type Information in ENF58_REASON
--------------- ------------------------------
ENF58_Q_SELECT Device/process name selecting
               the data set
ENF58_Q_DESELECT_ERROR If ENF58_SYS_HOLD indicates
               that a RELDS Unprintable error
               occurred, RDSMIDSE from the
               IAZFSIP RELDS parameter list,
               else no meaningful value
ENF58_Q_JOB_CHANGE Status change that occurred
               for the job (eg. PURGED)
```

End of Comment

22	(16)	CHARACTER	18	ENF58_REASON	Reason text
40	(28)	DBL WORD	8	(0)	Establish alignment
40	(28)	BITSTRING	80	ENF58_CTOKEN	Data Set Client Token
40	(28)	X'78'	0	ENF58_SIZE1	"*-ENF58" Small Version of ENF58 ends here
120	(78)	BITSTRING	80	ENF58_NEW_CTOKEN	
					New client token that should replace the Ctoken for a TOKEN_CHANGE ENF type
120	(78)	X'C8'	0	ENF58_SIZE2	"*-ENF58" Long version of ENF58 ends here

IAZENF58 Cross Reference

Name	Hex Offset	Hex Value
ENF58	0	
ENF58_CTOKEN	28	
ENF58_CVER	6	1
ENF58_ID	0	
ENF58_JES_NAME	E	
ENF58_LENGTH	8	
ENF58_NEW_CTOKEN	78	
ENF58_Q_DESELECT_ERROR	C	6
ENF58_Q_DESELECT_NOT_PROCESSED	C	4
ENF58_Q_DESELECT_NOT_PROCESSED_HELD	C	5
ENF58_Q_DESELECT_PROCESSED	C	3
ENF58_Q_EOD_ERROR	C	8
ENF58_Q_EOD_OK	C	7
ENF58_Q_JOB_CHANGE	C	9
ENF58_Q_PURGE	C	1
ENF58_Q_SELECT	C	2
ENF58_Q_TOKEN_CHANGE	C	A
ENF58_QUALIFIER	C	
ENF58_REASON	16	
ENF58_SIZE1	28	78
ENF58_SIZE2	78	C8
ENF58_SYS_HOLD	D	
ENF58_VERSION	6	
ENF58_VONE	6	1

IAZJBCLD Programming Interface information

Programming Interface information

IAZJBCLD

End of Programming Interface information

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IAZJBCLD Heading Information

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

IAZJBCLD Map

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

Comment

JBCLSTRP is an anchor for use by the subsystem that responds to this request. It is expected that the caller will set this to zero the FIRST time an SSOB extension is used and from that point on it will be managed by the subsystem.

End of Comment

12	(C)	ADDRESS	4	JBCLSTRP	Storage management anchor
16	(10)	BITSTRING	1	JBCLFLAG	IS.Flag byte
		1...		JBCL1JOB	"B'10000000'" Return a particular job class indicated by JBCLJNAM
17	(11)	BITSTRING	1		Reserved for future use
18	(12)	CHARACTER	1	JBCLSMCL	O.STC message class
19	(13)	CHARACTER	1	JBCLTMCL	O.TSU message class
20	(14)	CHARACTER	8	JBCLJNAM	IS.Single job class to be returned
28	(1C)	SIGNED	4	(20)	Reserved for future use
108	(6C)	SIGNED	4	JBCLDPTR	O.Pointer to first job class data buffer
112	(70)	SIGNED	4	JBCLNJC	O.Number of job classes returned
116	(74)	SIGNED	4	(15)	Reserved for future use
116	(74)	X'B0'	0	JBCLSZE1	"*-JBCLD" Fixed parmameter end: version 1
116	(74)	X'B0'	0	JBCLSZE	"*-JBCLD" JBCLD Current version fixed parameter length

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

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	JBCLDHDR	, Job class section header
0	(0)	CHARACTER	4	JBCTEYE	Eye catcher
4	(4)	ADDRESS	2	JBCTOHDR	Offset to first section
6	(6)	BITSTRING	2		Reserved for future use
8	(8)	ADDRESS	4	JBCTNEXT	Address of next CAT
12	(C)	ADDRESS	4		Reserved for future use
16	(10)	ADDRESS	4		Reserved for future use
16	(10)	X'14'	0	JBCLDHSZ	"*-JBCLDHDR" Size of header

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	JBCTPREF	, Prefix section
0	(0)	ADDRESS	2	JBCTHDLN	Length of entire ???? (Max value is 65535)
2	(2)	ADDRESS	1	JBCTHDTP	Type of this header
3	(3)	ADDRESS	1	JBCTHDMD	Modifier
3	(3)	X'4'	0	JBCTHDSZ	"*-JBCTPREF" Size of prefix section

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	JBCLDCAT	, Job Class Data
0	(0)	ADDRESS	2	JBCTLEN	Length of Job Class section
2	(2)	ADDRESS	1	JBCTTYPE	Type of this header
3	(3)	ADDRESS	1	JBCTMOD	Modifier
4	(4)	BITSTRING	1	JBCJOBFL	Job flags
		1...		JBCBATCH	"B'10000000'" Batch job
		.1..		JBCTSUJB	"B'01000000'" Time sharing user
		..1.		JBCSTCJB	"B'00100000'" System task
4	(4)	X'E0'	0	JBCVALJB	"JBCBATCH+JBCTSUJB+JBCSTCJB" valid types
		...1		JBCNOJNL	"B'00010000'" No journal option
		.... 1...		JBCNOUPT	"B'00001000'" No output option
		.... .1..		JBCTSCAN	"B'00000100'" TYPRUN=SCAN was specified
		.... ..1.		JBCTCOPY	"B'00000010'" TYPRUN=COPY was specified
		1		JBCRSTRT	"B'00000001'" Allow warmstart to re-queue to XEQ
5	(5)	BITSTRING	1	JBCJBOPT	Job options flag

Comment

EQU B'11000110' Reserved

End of Comment

		..1.		JBCTHOLD	"B'00100000'" TYPRUN=HOLD
		...1		JBCNOLOG	"B'00010000'" NO job log option
		.... 1...		JBCXBMII	"B'00001000'" XBM II job
		1		JBCQHELD	"B'00000001'" Class queue is held
6	(6)	CHARACTER	2	JBCPROCN	Procedure library number
8	(8)	BITSTRING	1	JBCSMFLG	SMF flag

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		Comment			
		EQU B'11011000' Reserved			
		End of Comment			
		..1.		JBCNOUSO	"B'00100000'" Do not take IEFUSO exit
		.... .1..		JBCNOTY6	"B'00000100'" Do not produce Type 6 SMF record
		.... ..1.		JBCNOUJP	"B'00000010'" Do not take IEFUJP exit
		1		JBCNOT26	"B'00000001'" Do not produce Type 26 SMF record
9	(9)	CHARACTER	3	JBCPERFM	Default performance group
12	(C)	SIGNED	4	JBCCPBGN (0)	
12	(C)	BITSTRING	1	JBCCACCT	Accouting info required
		....		JBCCNONE	"B'00000000'" No info is required
		1		JBCCNAME	"B'00000001'" Programmer required
		.... ..1.		JBCCNUMB	"B'00000010'" Account number required
12	(C)	X'3'	0	JBCCALL	"JBCCNAME+JBCCNUMB" Pgmr and number required
		.... .1..		JBCCSWAL	"B'00000100'" SWA above 16M line
13	(D)	CHARACTER	2		Reserved
15	(F)	CHARACTER	8	JBCCTIME (0)	DFLT job step intl time
15	(F)	CHARACTER	6	JBCCMNTE	Maximum minutes
21	(15)	CHARACTER	2	JBCCSECS	Maximum seconds
23	(17)	CHARACTER	5	JBCCREGN (0)	Default job step region
23	(17)	CHARACTER	4	JBCCRGN	Numeric specification
27	(1B)	CHARACTER	1	JBCCRGA	Kilbytes or megabytes spec.
28	(1C)	CHARACTER	1	JBCCMND	Command disposition
28	(1C)	X'F0'	0	JBCCEXEC	"C'0'" Pass the command through
28	(1C)	X'F1'	0	JBCCDSPL	"C'1'" Display and then pass cmnd
28	(1C)	X'F2'	0	JBCCVER	"C'2'" Ask operator disposition
28	(1C)	X'F3'	0	JBCCIGN	"C'3'" Ignore the command
29	(1D)	CHARACTER	1	JBCCBLP	Bypass label processing option
		1		JBCCBLPY	"B'00000001'" Process bypass label parm
30	(1E)	CHARACTER	1	JBCCOCG	Operator command group
		.... .1..		JBCCGSYS	"B'00000100'" Group 1 commands (SYS)
		.... ..1.		JBCCGIO	"B'00000010'" Group 2 commands (I/O)
		1		JBCCGCON	"B'00000001'" Group 3 commands (CONS)
30	(1E)	X'7'	0	JBCCGALL	"JBCCGSYS+JBCCGIO+JBCCGCON" All groups
31	(1F)	CHARACTER	3		Reserved command group
34	(22)	CHARACTER	1	JBCCLJCL	Default MSGLEVEL, JCL listed if not MSGLEVEL
35	(23)	CHARACTER	1	JBCCTMSG	Allocation termination msgs
35	(23)	X'C'	0	JBCCONVP	"JBCCPBGN,*-JBCCPBGN" Full converter parameters
36	(24)	BITSTRING	8		Reserved for potential expansion of IEFCNPRM
44	(2C)	BITSTRING	1	JBCOPSWT	Converter option switches
45	(2D)	BITSTRING	1	JBCFLAG1	Normal OUTDISP for JESDS
		1...		JBC1CDP	"B'10000000'" Conditionally purge output for jobs in this class
		...1		JBC1NODP	"B'00010000'" NORMAL OUTDISP=PURGE
		.... 1...		JBC1NODW	"B'00001000'" NORMAL OUTDISP=WRITE
		.... .1..		JBC1NODH	"B'00000100'" NORMAL OUTDISP=HOLD
		.... ..1.		JBC1NODK	"B'00000010'" NORMAL OUTDISP=KEEP
		1		JBC1NODL	"B'00000001'" NORMAL OUTDISP=LEAVE
46	(2E)	BITSTRING	1	JBCFLAG2	Abnormal OUTDISP for JESDS
		...1		JBC2AODP	"B'00010000'" ABNORMAL OUTDISP=PURGE
		.... 1...		JBC2AODW	"B'00001000'" ABNORMAL OUTDISP=WRITE
		.... .1..		JBC2AODH	"B'00000100'" ABNORMAL OUTDISP=HOLD
		.... ..1.		JBC2AODK	"B'00000010'" ABNORMAL OUTDISP=KEEP
		1		JBC2AODL	"B'00000001'" ABNORMAL OUTDISP=LEAVE
47	(2F)	BITSTRING	1	JBCFLAG3	Processing flags
		1...		JBC3WLM	"B'10000000'" WLM managed class
		.1..		JBC3SPEC	"B'01000000'" Special class (STC/TSU)
		..1.		JBC3PSEU	"B'00100000'" Pseudo-class (Only class name and counts valid)
48	(30)	CHARACTER	8	JBCXBM	PROCNAME FOR XBM/2 JOB
56	(38)	CHARACTER	8	JBCCLASS	Job class
64	(40)	SIGNED	4	JBCMAXJ	Max executing jobs in this class in the JESPlex
68	(44)	SIGNED	4	JBCCURJ	Current executing jobs in this class in the JESPlex

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
72	(48)	SIGNED	4	JBCQSIZE	Non-WLM jobs eligible for execution (including executing jobs)
76	(4C)	SIGNED	4	JBCHLDCT	Non-WLM jobs held in class
80	(50)	CHARACTER	16	JBCDSCHE	Default SCHENV, JOB classes only
96	(60)	CHARACTER	1	JBCDMCLS	Default msgclass, TSU and STC classes only
97	(61)	BITSTRING	6	JBCJLOG	JESLOG control information
97	(61)	BITSTRING	1	JBCJLFLG	Flags
		1...		JBJLELIG	"B'10000000'" Spin eligible
		.1..		JBJLTIMI	"B'01000000'" Spin on time interval
		..1.		JBJLTIMD	"B'00100000'" Spin on time of day
		...1		JBJLLINE	"B'00010000'" Spin upon line delta
		.... 1...		JBJLSUP	"B'00001000'" Suppress
		.... .1..		JBJLNOSP	"B'00000100'" No Spin
98	(62)	SIGNED	1	JBJSOURC	Source of JESLOG info
98	(62)	X'0'	0	JBJSEXIT	"0" JESLOG from Exit
98	(62)	X'1'	0	JBJSJCL	"1" JESLOG from JCL
98	(62)	X'2'	0	JBJSCAT	"2" JESLOG from CAT
98	(62)	X'3'	0	JBJSSRR	"3" JESLOG from IEFSSRR
99	(63)	SIGNED	4	JBCJLVAL	Spin value
103	(67)	BITSTRING	9	JBCDRESV	Reserved
112	(70)	DBL WORD	8	(0)	
112	(70)	X'70'	0	JBCTSIZE	"*-JBCLDCAT" Job Class data length

IAZJBCLD Cross Reference

Name	Hex Offset	Hex Value
JBCBATCH	4	80
JBCCACCT	C	
JBCCALL	C	3
JBCCBLP	1D	
JBCCBLPY	1D	1
JBCCDSPL	1C	F1
JBCCEXEC	1C	F0
JBCCGALL	1E	7
JBCCGCON	1E	1
JBCCGIO	1E	2
JBCCGSYS	1E	4
JBCCIGN	1C	F3
JBCCLASS	38	
JBCCLJCL	22	
JBCCMND	1C	
JBCCMNTE	F	
JBCCNAME	C	1
JBCCNONE	C	0
JBCCNUMB	C	2
JBCCOCG	1E	
JBCCONVP	23	C
JBCCPBGN	C	
JBCCREGN	17	
JBCCRGA	1B	
JBCCRGN	17	
JBCCSECS	15	
JBCCSWAL	C	4
JBCCTIME	F	
JBCCTMSG	23	
JBCCURJ	44	
JBCCVER	1C	F2
JBCDMCLS	60	
JBCDRESV	67	
JBCDSCHE	50	
JBCFLAG1	2D	
JBCFLAG2	2E	
JBCFLAG3	2F	
JBCHLDCT	4C	
JBCJBOPT	5	
JBCJLFLG	61	
JBCJLOG	61	
JBCJLVAL	63	
JBCJOBFL	4	
JBCLD	0	
JBCLDCAT	0	
JBCLDHDR	0	
JBCLDHSZ	10	14
JBCLDPTR	6C	
JBCLFLAG	10	
JBCLJNAM	14	
JBCLLEN	4	
JBCLNJC	70	
JBCLSMCL	12	
JBCLSSID	0	
JBCLSTBG	18	
JBCLSTCP	14	
JBCLSTHL	8	
JBCLSTID	0	D1C2C3D3
JBCLSTNX	10	
JBCLSTOR	0	
JBCLSTPL	C	E6
JBCLSTRP	C	
JBCLSTSP	C	
JBCLSTTL	D	
JBCLSVR#	6	3
JBCLSVRN	6	
JBCLSVR1	6	1
JBCLSVR2	6	2
JBCLSVR3	6	3
JBCLSZE	74	B0
JBCLSZE1	74	B0
JBCLTMCL	13	
JBCLUSER	A	C
JBCLVERO	8	
JBCL1JOB	10	80
JBCMAXJ	40	

IAZJBCLD Cross Reference

Name	Hex Offset	Hex Value
JBCNOJNL	4	10
JBCNOLOG	5	10
JBCNOTY6	8	4
JBCNOT26	8	1
JBCNOUJP	8	2
JBCNOUPT	4	8
JBCNOUSO	8	20
JBCOPSWT	2C	
JBCPERFM	9	
JBCPROCN	6	
JBCQHELD	5	1
JBCQSIZE	48	
JBCRSTRT	4	1
JBCSMFLG	8	
JBCSTCJB	4	20
JBCTCOPY	4	2
JBCTEYE	0	C4C3C1E3
JBCTHDLN	0	
JBCTHDMD	3	
JBCTHDSZ	3	4
JBCTHDTP	2	
JBCTHOLD	5	20
JBCTLEN	0	70
JBCTMOD	3	
JBCTNEXT	8	
JBCTOHDR	4	14
JBCTPREF	0	
JBCTSCAN	4	4
JBCTSIZE	70	70
JBCTSUJB	4	40
JBCTTYPE	2	
JBCVALJB	4	E0
JBCXBM	30	
JBCXBMII	5	8
JBC1CDP	2D	80
JBC1NODH	2D	4
JBC1NODK	2D	2
JBC1NODL	2D	1
JBC1NODP	2D	10
JBC1NODW	2D	8
JBC2AODH	2E	4
JBC2AODK	2E	2
JBC2AODL	2E	1
JBC2AODP	2E	10
JBC2AODW	2E	8
JBC3PSEU	2F	20
JBC3SPEC	2F	40
JBC3WLM	2F	80
JBJLELIG	61	80
JBJLLINE	61	10
JBJLNOSP	61	4
JBJLSUP	61	8
JBJLTIMD	61	20
JBJLTIMI	61	40
JBJSCAT	62	2
JBJSEXIT	62	0
JBJSJCL	62	1
JBJSOURC	62	
JBJSSRR	62	3

IAZSPLIO Programming Interface information

Programming Interface information

IAZSPLIO

End of Programming Interface information

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IAZSPLIO Heading Information

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

IAZSPLIO Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	SPLIO	
0	(0)	CHARACTER	4	SPIOSSID	I.Eyecatcher
4	(4)	ADDRESS	2	SPIOLEN	I.Length of SPLIO parameter list
6	(6)	SIGNED	2	SPLIOVRN	I.Parm list version number
6	(6)	X'1'	0	SPLIOVR1	"1" Service version number of IAZSPLIO
6	(6)	X'1'	0	SPLIOVR#	"1" Service version--the latest value
8	(8)	SIGNED	2	SPIOVERO	O.Subsystem version number
10	(A)	SIGNED	2		Reserved
12	(C)	SIGNED	2	SPIOUSER (0)	

Comment

SPIOSTRP is an anchor for use by the subsystem that responds to this request. It is expected that the caller will set this to zero the FIRST time an SSOB extension is used and from that point on it will be managed by the subsystem.

End of Comment

12	(C)	ADDRESS	4	SPIOSTRP	Storage management anchor
16	(10)	SIGNED	4		Reserved
20	(14)	SIGNED	4		Reserved

Comment

Spool Input/Output info section
Field SPIOSPAD is the only required field.
It should have the requested spool control block address. The subsequent input fields are optional and are used for verification purposes.
The supported control block types for JES2 are:
CHK HDB IOT
JCT NHSB OCT
SIG SWBI

End of Comment

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
24	(18)	BITSTRING	8	SPIOSPAD	I.Spool address to be found This field is required

Comment

The following input fields are optional.
If they have a null value, they will be considered as not present for verification purposes. Especially, if the control block ID type is null, the other fields are not considered.

End of Comment

32	(20)	CHARACTER	4	SPIOCTYP	I.Control block ID type
36	(24)	CHARACTER	8	SPIOJNAM	I.Job name
44	(2C)	CHARACTER	8	SPIOJID	I.Job ID (J9999999, etc.)
52	(34)	BITSTRING	4	SPIOJKEY	I.Job key
56	(38)	SIGNED	4	SPIODSKY	I.Dataset key

Comment

If instorage buffers are needed, then SPIOJKEY and SPIODSKY must be specified as well as SPIOASID. If instorage buffers are requested, then no SPOOL read is attempted. SPIOSSNM is the MVS system name the job is running on. If SPIOASID is not specified, then SPIOSSNM is not examined.
For JES2, instorage buffers are only obtained when SPIOCTYP is set to 'HDB '. Otherwise the data is read from SPOOL. SPIOSSNM must be blank or the name of the system where the SPOOL read request originated.

End of Comment

60	(3C)	CHARACTER	8	SPIOSSNM	I.If instorage data buffers are needed, the system where the job is running
68	(44)	SIGNED	2	SPIOASID	I.If instorage data buffers are needed, the ASID where the job is running
70	(46)	BITSTRING	2		Reserved
72	(48)	SIGNED	4	(5)	Reserved for future use and must be zero
92	(5C)	ADDRESS	4	SPIOOUTA	O.Address of control block
96	(60)	SIGNED	4	SPIOOLEN	O.Number of bytes in buffer
100	(64)	SIGNED	4		Reserved
104	(68)	SIGNED	4		Reserved
108	(6C)	BITSTRING	1	SPIOIND1	O.Indicator field
		1...		SPIONSTG	"B'10000000'" The control block was retrieved from an instorage buffer
109	(6D)	BITSTRING	3		Reserved
109	(6D)	X'70'	0	SPIOSZE1	"*-SPLIO" Parameter end-version 1 size
109	(6D)	X'70'	0	SPIOSZE	"*-SPLIO" Size of SPLIO

Comment

Reason codes
On exit, the reason code is placed in SSJIRETN.

End of Comment

109	(6D)	X'0'	0	SPIOOK	"0" Success
109	(6D)	X'4'	0	SPIONTVF	"4" The VERIFY was not successful
109	(6D)	X'8'	0	SPIOCBIO	"8" Spool control block I/O error
109	(6D)	X'C'	0	SPIOCBTK	"12" Spool control block invalid track
109	(6D)	X'10'	0	SPIOCBNG	"16" General control block problem
109	(6D)	X'14'	0	SPIOSTRG	"20" Error obtaining storage

IAZSPLIO Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
109	(6D)	X'18'	0	SPIOSJER	"24" Error obtaining below the line storage
109	(6D)	X'1C'	0	SPIOILOG	"28" A logic error has occurred
109	(6D)	X'20'	0	SPIONSPL	"32" SPIOSTRP not initialized correctly
109	(6D)	X'24'	0	SPIONBUF	"36" Could not locate instorage buffer

IAZSPLIO Cross Reference

Name	Hex Offset	Hex Value
SPIOASID	44	
SPIOCBIO	6D	8
SPIOCBNG	6D	10
SPIOCBTK	6D	C
SPIOCTYP	20	
SPIODSKY	38	
SPIOILOG	6D	1C
SPIOIND1	6C	
SPIOJID	2C	
SPIOJKEY	34	
SPIOJNAM	24	
SPIOLEN	4	
SPIONBUF	6D	24
SPIONSPL	6D	20
SPIONSTG	6C	80
SPIONTVF	6D	4
SPIOOK	6D	0
SPIOOLEN	60	
SPIOOUTA	5C	
SPIOSJER	6D	18
SPIOSPAD	18	
SPIOSSID	0	
SPIOSSNM	3C	
SPIOSTRG	6D	14
SPIOSTRP	C	
SPIOSZE	6D	70
SPIOSZE1	6D	70
SPIOUSER	C	
SPIOVERO	8	
SPLIO	0	
SPLIOVR#	6	1
SPLIOVRN	6	
SPLIOVR1	6	1

ICHPT Heading Information

Common Name: Installation Channel Path Table
Macro ID: IHAICHPT
DSECT Name: ICHPT
Owning Component: I/O Supervisor (SC1C3)
Eye-Catcher ID: None
Subpool and Key: Subpool 245 and key 0 (Residence - above 16M line)
Size: 256 bytes
Created by: IEAVNP02
Pointed to by: CVTICHPT field of the CVT data area
Serialization: None
Function: Maps the 256 possible channel paths between the channel and the control units.

ICHPT Map

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

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ICHS Heading Information

Common Name: IOS Channel Subsystem Information
Macro ID: IOSDICHS
DSECT Name: ICHS
Owning Component: I/O Supervisor (SC1C3)
Eye-Catcher ID: ICHS
Offset: 0
Length: 4
Storage Attributes: Subpool: 245
Key: 0
Residency: Above or below 16M line
Size: 24 bytes
Created by: IOSNCHSF
Pointed to by: SCVTCHSI in SCVT
Serialization: None
Function: This macro maps a header for the channel subsystem information (CHSI). The header is followed by the CHSI. The CHSI portion is mapped by the IEEMCHSI control block.

ICHS Map

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

ICHS Constants

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

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ICHS Cross Reference

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

ICSC Heading Information

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

ICSC Map

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

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ICSC Cross Reference

Name	Hex Offset	Hex Value
ICSC	0	
ICSCEND	28	
ICSCFLAG	3	
ICSCGRS	3	08
ICSCHPGN	14	
ICSCHRPG	1A	
ICSCLNG	4	
ICSCLRPG	18	
ICSCMSKC	2	
ICSCMS6	3	04
ICSCNAME	0	
ICSCNICS	24	
ICSCREPT	3	20
ICSCRPVT	20	
ICSCRSV2	3	01
ICSCRSV3	1E	
ICSCRTSO	3	10
ICSCSET	10	
ICSCSTC	3	40
ICSCTOC	8	
ICSCTSO	3	80
ICSCUPGN	16	
ICSCURPG	1C	
ICSC851E	3	02

ICT Heading Information

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

ICT Map

Offsets Dec	Offsets Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	72	ICT	I/O CONTROL TABLE
0	(0)	CHARACTER	4	ICTICT	ACRONYM IN EBCDIC -ICT-
Comment					
I/O CONTROL CONSTANTS					
End of Comment					
4	(4)	SIGNED	2	ICCNDCTI	AVG CONNECT TIME/EXCP
6	(6)	SIGNED	2	ICCTPILO	LOW THRESHOLD FOR PERCENT TPI INTERRUPTS TIMES 100
8	(8)	SIGNED	2	ICCTPIHI	HIGH THRESHOLD FOR PERCENT TPI INTERRUPTS TIMES 100
10	(A)	SIGNED	2	ICCRSV1	4@L1C
12	(C)	SIGNED	4	ICCRSV2	
16	(10)	SIGNED	2	ICCRSV3	
18	(12)	SIGNED	2	ICCEDMDL	EST DD DMB DLAY IMPACT (PERCENT TIMES 100)
20	(14)	CHARACTER	0	ICCEND	END OF ICT CONSTANTS
Comment					
VARIABLES FOR SELECTIVE I/O ENABLEMENT					
End of Comment					
20	(14)	SIGNED	4	ICVTPIB	BASE COUNT OF I/O INTERRUPTS VIA TPI
24	(18)	SIGNED	4	ICVSLIHB	BASE COUNT OF I/O INTERRUPTS VIA SLIH
28	(1C)	SIGNED	2	ICVTPIP	PERCENT OF I/O INTERRUPTS HANDLED VIA TPI (PERCENT * 100)
30	(1E)	SIGNED	2	ICVRSVA	RESERVED
32	(20)	SIGNED	4	ICVRSV1	
Comment					
I/O RELATED MESSAGE POINTERS					
End of Comment					
36	(24)	ADDRESS	4	ICCMS600	SRM CHANNEL DATA NOW AVAILABLE - IRA600I

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ICT Cross Reference

Offsets Dec	Offsets Hex	Type	Len	Name (Dim)	Description
40	(28)	ADDRESS	4	ICCMS601	SRM CHANNEL DATA NO LONGER AVAILABLE - IRA601I
44	(2C)	ADDRESS	4	ICCMS602	XX,SRM CHANNEL MEASUREMENTS TERMINATED - IRA602I
48	(30)	ADDRESS	4	ICCMS603	XX,SYSTEM ACTIVITY DISPLAY COUNTS NO LONGER BEING USED FOR CHANNEL UTILIZATIONS - 1RA603I
52	(34)	ADDRESS	4	ICCMS604	CHANNEL PATH MEASURMENT FACILITY DATA NO LONGER AVAILABLE
56	(38)	ADDRESS	4	ICCMS605	CHANNEL PATH MEASURMENT FACILITY RESTART IN PROGRESS

Comment

I/O CONTROL FLAGS

End of Comment

60	(3C)	BITSTRING	1	ICTFLAGS	I/O CONTROL FLAGS
		1111		ICTDRSV4	RESERVED 3@L1D
		.... 1...		ICTDISAB	DISABLE REQUEST TO IL5
		.... .111		*	RESERVED
61	(3D)	BITSTRING	3	ICTRSVA	RESERVED
64	(40)	SIGNED	4	ICTRSVB	RESERVED
68	(44)	SIGNED	4	ICTRSVC	RESERVED
72	(48)	CHARACTER	0	ICTEND	END OF ICT END OF THIS BLOCK

ICT Cross Reference

Name	Hex Offset	Hex Value
ICCEDMDL	12	
ICCEND	14	
ICCMS600	24	
ICCMS601	28	
ICCMS602	2C	
ICCMS603	30	
ICCMS604	34	
ICCMS605	38	
ICCNDCTI	4	
ICCRSV1	A	
ICCRSV2	C	
ICCRSV3	10	
ICCTPIHI	8	
ICCTPILO	6	
ICT	0	
ICTDISAB	3C	08
ICTDRSV4	3C	F0
ICTEND	48	
ICTFLAGS	3C	
ICTICT	0	
ICTRSVA	3D	
ICTRSVB	40	
ICTRSVC	44	
ICVRSVA	1E	
ICVRSV1	20	
ICVSLIHB	18	
ICVTPIB	14	
ICVTPIP	1C	

IDAL Heading Information

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

IDAL Map

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

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IDX Programming Interface information

Programming Interface information

IDX

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IDX Heading Information

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

IDX Map

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	IAZIDX	
0	(0)	X'0'	0	IDX	"IAZIDX" ALTERNATE DSECT NAME
0	(0)	CHARACTER	4	IDXID	INDEX TABLE ID
4	(4)	SIGNED	2	IDXNUM	NUMBER OF ENTRIES IN TABLE
6	(6)	SIGNED	2	IDXTOK	JES SUPPLIED TOKEN
8	(8)	SIGNED	4		RESERVED
8	(8)	X'C'	0	IDXSIZ	"*-IDX" FIXED INDEX HEADER SIZE
Comment					
INDEX ENTRY					
End of Comment					
12	(C)	SIGNED	4	IDXENTRY (0)	INDEX ENTRY
12	(C)	SIGNED	2	IDXENTRL	LENGTH OF THE INDEX ENTRY
14	(E)	SIGNED	2	IDXRECL	LENGTH OF THE DATA PORTION
16	(10)	ADDRESS	1	IDXFLAG1	FLAG BYTE
		1...		IDXDSR	"B'10000000'" INDICATES DATA STREAM RECORD
		.1..		IDXLMR	"B'01000000'" INDICATES LINE MODE RECORD
		..1.		IDXANSI	"B'00100000'" REC CONTAINS ANSI CNTRL CHARS
		...1		IDXMACH	"B'00010000'" REC CONTAINS MACH CNTRL CHARS
		.... 1...		IDXSRS	"B'00001000'" RECORD SPLIT - START OF REC
		.... .1..		IDXSRM	"B'00000100'" RECORD SPLIT - MIDDLE OF REC
		.... ..1.		IDXSRE	"B'00000010'" RECORD SPLIT - END OF REC
		1		IDXOPJ	"B'00000001'" OPTCODE=J USED FOR REC
17	(11)	ADDRESS	1		RESERVED
18	(12)	ADDRESS	2	IDXORECL	Original LRECL of record (only passed if start or only IDX for record)
20	(14)	ADDRESS	4	IDXRADR	ADDR OF THE DATA PORTION OF REC
24	(18)	CHARACTER	8	IDXRECID	RECORD INDENTIFIER
32	(20)	SIGNED	4	(0)	BOUNDARY ALIGNMENT
32	(20)	X'14'	0	IDXESIZ	"*-IDXENTRY" INDEX ENTRY SIZE

IDX Cross Reference

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

IEAASM Programming Interface information

Programming Interface information

IEAASM

End of Programming Interface information

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IEAASM Heading Information

Common Name: Supervisor Callable Services Asm Declarations
Macro ID: IEAASM
DSECT Name: N/A
Owning Component: Supervisor Control (SC1C5)
Eye-Catcher ID: N/A
Offset: N/A
Length: N/A
Storage Attributes: Subpool: N/A
Key: N/A
Residency: N/A
Size: N/A
Created by: N/A
Pointed to by: N/A
Serialization: N/A
Function: IEAASM defines Supervisor constants for programs written in the Assembler language

IEAASM Map

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

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

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

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

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

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

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	IEAVTPEPARMLIST	
0	(0)	ADDRESS	4	IEAVTPERETURNCODEPTR	Return Code Address
4	(4)	ADDRESS	4	IEAVTPEPAUSEELEMENTTOKENPTR	Pause Element Token Address
8	(8)	ADDRESS	4	IEAVTPESTATEPTR	

IEAASM Cross Reference

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					Address of PE's state
12	(C)	ADDRESS	4	IEAVTPERELEASECODEPTR	Address of PE's release code if state is Released or Prereleased

IEAASM Cross Reference

Name	Hex Offset	Hex Value
IEAVAPEAUTHLEVELPTR	0	
IEAVAPEPARMLIST	4	
IEAVAPEPAUSEELEMENTTOKENPTR	0	
IEAVAPERETURNCODEPTR	8	
IEAVDPEAUTHLEVELPTR	0	
IEAVDPEPARMLIST	4	
IEAVDPEPAUSEELEMENTTOKENPTR	0	
IEAVDPERETURNCODEPTR	8	
IEAVPSEAUTHLEVELPTR	0	
IEAVPSECURRENTDUPAUSEELEMENTTOKENPTR	4	
IEAVPSEPARMLIST	8	
IEAVPSERELEASECODE	0	
IEAVPSERETURNCODEPTR	10	
IEAVPSEUPDATEDPAUSEELEMENTTOKENPTR	0	
IEAVRLSAUTHLEVELPTR	C	
IEAVRLSPARMLIST	4	
IEAVRLSRETURNCODEPTR	0	
IEAVRLSTARGETDUPAUSEELEMENTTOKENPTR	0	
IEAVRLSTARGETDURELEASECODE	8	
IEAVRPIAUTHLEVELPTR	C	
IEAVRPIAUTHORIZATIONPTR	4	
IEAVRPIOWNERPTR	C	
IEAVRPIPARMLIST	10	
IEAVRPIPAUSEELEMENTTOKENPTR	0	
IEAVRPIRELEASECODEPTR	8	
IEAVRPIRETURNCODEPTR	18	
IEAVRPISTATEPTR	0	
IEAVTPEPARMLIST	14	
IEAVTPEPAUSEELEMENTTOKENPTR	0	
IEAVTPERELEASECODEPTR	4	
IEAVTPERETURNCODEPTR	C	
IEAVTPESTATEPTR	0	
IEAVXFRAUTHLEVELPTR	8	
IEAVXFRCURRENTDUPAUSEELEMENTTOKENPTR	4	
IEAVXFRCURRENTDURELEASECODE	8	
IEAVXFRPARMLIST	10	
IEAVXFRRETURNCODEPTR	0	
IEAVXFRTARGETDUPAUSEELEMENTTOKENPTR	0	
IEAVXFRTARGETDURELEASECODE	14	
IEAVXFRUPDATEDPAUSEELEMENTTOKENPTR	18	
	C	

IEAMSYMP Programming Interface information

Programming Interface information

IEAMSYMP

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IEAMSYMP Heading Information

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

IEAMSYMP Map

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

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0		, IPCS name service parameter list
0	(0)	CHARACTER	1	000 (0)	Begin IEAMSYMP
0	(0)	CHARACTER	6	ID (0)	Static Symbol service parameter identifier
0	(0)	CHARACTER	4	IDC	SYMP acronym
4	(4)	CHARACTER	1	IDL	SYMP level indicator
5	(5)	CHARACTER	1		Reserved
6	(6)	CHARACTER	2		Reserved
8	(8)	CHARACTER	8	MODN	The name of the module requesting the service
16	(10)	CHARACTER	8	SYMBOL	The input SYMBOL to be translated.
24	(18)	CHARACTER	12		Reserved
36	(24)	BITSTRING	2	PFLG (0)	Processing flags
36	(24)	BITSTRING	1	PFL1	First byte of flags (input)
		1...		FNOT	"BIT0" No output requested Set by caller, not housekept
37	(25)	BITSTRING	1	PFL2	Second byte of flags (output)
		1...		SYMBOLNOTFOUND	"BIT0" Requested Symbol not found
		.1..		SYSTEMDEFINED	"BIT1" System defined symbol
		..1.		MISSINGSTORAGE	"BIT2" Missing storage
		...1		LOGICALERROR	"BIT3" Logical Error In Data
38	(26)	CHARACTER	10	SUBTEXT	The output Subtext
48	(30)	CHARACTER	12		Reserved
60	(3C)	SIGNED	4	SUBTEXTLENGTH	Length of Subtext

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
64	(40)	SIGNED	4	SYMBOLNUMBER	Position of symbol in Table
68	(44)	SIGNED	4	TOTALSYMBOLS	Total number of symbols in Table
72	(48)	ADDRESS	4	RBAD	Reference Block Address
76	(4C)	BITSTRING	52		Reserved
128	(80)	CHARACTER	1	999 (0)	End IEAMSYMP

IEAMSYMP Cross Reference

Name	Hex Offset	Hex Value
BIT0	0	80
BIT1	0	40
BIT2	0	20
BIT3	0	10
BIT4	0	8
BIT5	0	4
BIT6	0	2
BIT7	0	1
FNOT	24	80
ID	0	
IDC	0	E2E8D4D7
IDL	4	F1
LOGICALERROR	25	10
MISSINGSTORAGE	25	20
MODN	8	40404040
PFLG	24	
PFL1	24	0
PFL2	25	0
RBAD	48	
SUBTEXT	26	40404040
SUBTEXTLENGTH	3C	0
SYMBOL	10	40404040
SYMBOLNOTFOUND	25	80
SYMBOLNUMBER	40	0
SYSTEMDEFINED	25	40
TOTALSYMBOLS	44	0
000	0	
999	80	

IEANTASM Programming Interface information

Programming Interface information

IEANTASM

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IEANTASM Heading Information

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

IEANTASM Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0		
0	(0)	X'1'	0	IEANT_TASK_LEVEL	"1"
0	(0)	X'2'	0	IEANT_HOME_LEVEL	"2"
0	(0)	X'3'	0	IEANT_PRIMARY_LEVEL	"3"
0	(0)	X'4'	0	IEANT_SYSTEM_LEVEL	"4"
0	(0)	X'B'	0	IEANT_TASKAUTH_LEVEL	"11"
0	(0)	X'C'	0	IEANT_HOMEAUTH_LEVEL	"12"
0	(0)	X'D'	0	IEANT_PRIMARYAUTH_LEVEL	"13"

Comment

Name/Token Persistence

End of Comment

0	(0)	X'0'	0	IEANT_NOPERSIST	"0"
0	(0)	X'1'	0	IEANT_PERSIST	"1"

Comment

Name/Token Checkpoint

End of Comment

0	(0)	X'0'	0	IEANT_NOCHECKPOINT	

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					"0"
0	(0)	X'2'	0	IEANT_CHECKPOINTOK	
					"2"

Comment

Service Return Codes

End of Comment

0	(0)	X'0'	0	IEANT_OK	"0"
0	(0)	X'4'	0	IEANT_DUP_NAME	
					"4"
0	(0)	X'4'	0	IEANT_NOT_FOUND	
					"4"
0	(0)	X'8'	0	IEANT_24BITMODE	
					"8"
0	(0)	X'10'	0	IEANT_NOT_AUTH	
					"16"
0	(0)	X'14'	0	IEANT_SRB_MODE	
					"20"
0	(0)	X'18'	0	IEANT_LOCK_HELD	
					"24"
0	(0)	X'1C'	0	IEANT_LEVEL_INVALID	
					"28"
0	(0)	X'20'	0	IEANT_NAME_INVALID	
					"32"
0	(0)	X'24'	0	IEANT_PERSIST_INVALID	
					"36"
0	(0)	X'28'	0	IEANT_AR_INVALID	
					"40"
0	(0)	X'2C'	0	IEANT_NOT_AMODE64	
					"44"
0	(0)	X'40'	0	IEANT_UNEXPECTED_ERR	
					"64"

Comment

End of Name/Token Services Include

End of Comment

IEANTASM Cross Reference

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

IEANTASM Cross Reference

Name	Hex Offset	Hex Value
IEANT_TASK_LEVEL	0	4
IEANT_TASKAUTH_LEVEL	0	1
IEANT_UNEXPECTED_ERR	0	B
IEANT_24BITMODE	0	40
	0	8

IECDPIRL Programming Interface Information

Programming Interface Information

IECDPIRL

End of Programming Interface Information

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IECDPIRL Heading Information

Common Name: Purge I/O Restore List
Macro ID: IECDPIRL
DSECT Name: PIRL
Owning Component: IOS (SC1C3)
Eye-Catcher ID: None
Storage Attributes: Subpool: 254
Key: Key 8
Residency: Below 16M
Size: 12 bytes
FREQUENCY = 1 per address space (when purge is active)
Created by: IOS Purge Function
Pointed to by: IPIBPIRL of the field of the IPIB.
DEBUSRPG field of the IEZDEB data area.
Serialization: Local Lock
Function: Describes the purged I/O restore list used by the I/O purge services. For use with EXCP.

IECDPIRL Map

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PIRL	
0	(0)	SIGNED	4	(0)	
0	(0)	BITSTRING	1	PIROPT	Restore option byte Bit definitions for PIROPT
		1...		PIROTCB	"X'80'" . Restore requests to the TCB that originated the request instead of the TCB used to restore them.
		.1..		PIRSUPCK	"X'40'" . Do TCB validity check regardless of the state of the caller.

Comment

EQU X'7F' Reserved - must be zero

End of Comment

1	(1)	BITSTRING	1	PIRCNT	Number of PIRRSTR entries

Comment

DS H Reserved - must be zero

End of Comment

4	(4)	ADDRESS	4	PIRRSTR	Pointer to I/O request list for each driver.
8	(8)	ADDRESS	4	PIRDVRU	Pointer to additional information that the driver maintains to the proper restoration of its queue of I/O requests (E.G. protect keys, TCB, address, etc).
8	(8)	X'8'	0	PIRENTL	"*-PIRRSTR" Entry length

IECDPIRL Cross Reference

Name	Hex Offset	Hex Value
PIRCNT	1	
PIRDVRU	8	
PIRENTL	8	8
PIRL	0	
PIROPT	0	
PIROTCB	0	80
PIRRSTR	4	
PIRSUPCK	0	40

IECDPPL Programming Interface information

Programming Interface information

IECDPPL

End of Programming Interface information

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IECDPPL Heading Information

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

IECDPPL Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PPL	
0	(0)	SIGNED	4	PPLDSID (0)	SAME COMMENTS AS PPLDSIDA
0	(0)	BITSTRING	1	PPLOPT1	OPTION BYTE ONE
		1...		PPLDS	"X'80'" IF DSID PURGE REQUESTED (BIT 6), PURGE A SINGLE DSID (SEE PPLDSID). IF ZERO, DSID LIST PURGE.
		.1..		PPLPOST	"X'40'" ECBS ASSOCIATED WITH THE I/O REQUESTS PURGED SHOULD BE POSTED WITH X'48'
		..1.		PPLHIO	"X'20'" HALT THE I/O REQUESTS AND DO NOT BUILD A PIRL.
		...1		PPLREL	"X'10'" PURGE ONLY THE I/O REQUESTS MARKED RELATED AND ASSOC WITH THE ARGUMENT
		.... 1...		PPLNPPL	"X'08'" INDICATOR THAT NEW PPL IS BEING USED AND THUS SHOULD BE ZERO
		.... .1..		PPLRB	"X'04'" DO NOT PURGE THE RB CHAIN FOR ASYNCHRONOUSLY SCHEDULED ROUTINES
		.... ..1.		PPLTASK	"X'02'" IF ASID PURGE IS NOT SPECIFIED PURGE A SINGLE TCB
		1		PPLEXR	"X'01'" OPTION BYTE 2 IS PRESENT AND CONTAINS VALID INFORMATION
1	(1)	ADDRESS	3	PPLDSIDA	3 BYTE POINTER TO DSID ARG. IT MUST POINT TO A CONTROL BLOCK THAT HAS THE FOLLOWING FIELDS: MINUS 2 - TWO BYTE DSID VALID- ITY INDEX PLUS 5 - THREE BYTE ADDRESS OF NEXT DSID OR ZERO
4	(4)	SIGNED	4	PPLTCB (0)	ADDRESS OF TCB TO BE USED TO FIND THE I/O REQUESTS IF NO SUPPLIED, THE CURRENT TCB ADDRESS WILL BE USED.
4	(4)	BITSTRING	1	PPLCC	PURGE COMPLETION CODE '7F' SUCCESSFUL COMPLETION '40' UNSUCCESSFUL COMPLETION SEE REG 15 FOR DETAILS NOTE: ALWAYS '7F' IF PPLEXR=0.
5	(5)	ADDRESS	3	PPLTCBA	SEE DESCRIPTION FOR PPLTCB USED TO FIND THE I/O REQUESTS IF NOT SUPPLIED, THE CURRENT TCB ADDRESS WILL BE USED.
8	(8)	SIGNED	4	PPLPIRL (0)	3 BYTE ADDRESS OF THE ANCHOR FROM WHICH THE PURGED I/O RE- QUEST LIST WILL BE CHAINED.
8	(8)	BITSTRING	1	PPLDVRID	DRIVER ID -- REQUIRED DCRR 21082 FOR DSID PURGE REQUESTS DCRR 21082 DEFAULT VALUE OF X'00' DCRR 21082 IMPLIES EXCP IS OWNER DCRR 21082
9	(9)	ADDRESS	3	PPLPIRLA	SEE DESCRIPTION FOR PPLPIRL

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
12	(C)	BITSTRING	1	PPLOPT2	OPTION BYTE 2. OPTIONALLY PRESENT DEPENDING ON BIT 7 OF OPTION BYTE 1.
		1...		PPLCAN	"X'80'" CANCEL COMMAND REQUEST BYPASS SMGR CALL
		..1.		PPLMEM	"X'20'" ASID PURGE SPECIFIED. THIS OPTION MAY BE SPECIFIED ONLY BY A REQUESTOR THAT IS IN SUPERVISOR STATE.
		...1		PPLVC	"X'10'" BYPASS VALIDITY CHECK 0 - BYPASS VALIDITY CHECK - SUPERVISOR STATE ONLY 1 - VALIDITY CHECK
		.... 1...		PPLOTCB	"X'08'" PURGE ALL REQUESTS SO THAT WHEN RESTORED THEY CAN BE ASSOCIATED WITH THE TCB THAT ORIGINATED THEM.
		.... .1..		PPLTSKM	"X'04'" PURGE CALLED BY TASK TERMIN- ATION. IF QUIESCE OPTION AND ANY I/O REQUESTS ENCOUNTERED, PURGE WILL NOT ISSUE WAIT.
		.... ..1.		PPLBSS	"X'02'" BYPASS STATUS START SRB - VALID ONLY FOR RCT CALL FOR MEMORY SWAP
		1		PPLUCB	"X'01'" PURGE DSID BY UCB ONLY WHEN THIS BIT IS ON ONLY REQUESTS FOR SPECIFIED UCB WILL BE PURGED.
13	(D)	BITSTRING	1		RESERVED AND SHOULD BE ZERO
14	(E)	SIGNED	2	PPLASID (0)	ASID OF ADDRESS SPACE TO WHICH I/O REQUESTS ARE ASSOCIATED.
14	(E)	SIGNED	2	PPLOFSET	OFFSET OF UCB WITHIN THE DEB FOR PURGE BY UCB ONLY.

IECDPPL Cross Reference

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

IECDRQEX Heading Information

Common Name: RQEX - EXCP Request Queue Element Extension
Macro ID: IECDRQEX
DSECT Name: RQEX
Owning Component: Execute Channel Program Processor (SC1C6)
Eye-Catcher ID: RQEX
Offset: 0
Length: 4
Storage Attributes: Key: 0 FREQUENCY:
Size: 28 bytes
Created by: IECVEXCP
Pointed to by: User defined
Serialization: None
Function: This DSECT describes the control block used as an extension to the request queue element (RQE). With the RQE, this control block contains all the information necessary to initiate and terminate I/O requests within the EXCP processor.

IECDRQEX Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	28	RQEX	EXCP Request Queue Element Extension.
0	(0)	CHARACTER	4	RQEXID	Eye catcher RQEX.
4	(4)	UNSIGNED	1	RQEXVERN	Version number.
5	(5)	CHARACTER	3	*	Reserved.
8	(8)	ADDRESS	4	RQEXCPSE	Address of the channel program scan exit.
12	(C)	ADDRESS	4	RQEXXCPS	Address of the channel program scan exit data area (XCPS).
16	(10)	CHARACTER	12	*	Reserved.

IECDRQEX Constants

Len	Type	Value	Name	Description
4	CHARACTER	RQEX	RQEXIDC	Eye catcher constant.
1	DECIMAL	1	RQEXVERC	Version number constant.
1	DECIMAL	28	RQEXLNTH	Length constant.

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IEDB Programming Interface information

Programming Interface information

IEDB

End of Programming Interface information

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IEDB Heading Information

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

IEDB Map

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

Comment

```
EQU X'40' Reserved
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

6	(6)	CHARACTER	1	IEDBCOD	I/O completion code field. This is the original completion code prior to EXCP changing it.
7	(7)	CHARACTER	1		Reserved.
8	(8)	CHARACTER	32	IEDBSNS (0)	Sense data.
8	(8)	CHARACTER	1	IEDBSN00	Sense byte 0.
9	(9)	CHARACTER	1	IEDBSN01	Sense byte 1.
10	(A)	CHARACTER	1	IEDBSN02	Sense byte 2.
11	(B)	CHARACTER	1	IEDBSN03	Sense byte 3.
12	(C)	CHARACTER	1	IEDBSN04	Sense byte 4.

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
13	(D)	CHARACTER	1	IEDBSN05	Sense byte 5.
14	(E)	CHARACTER	1	IEDBSN06	Sense byte 6.
15	(F)	CHARACTER	1	IEDBSN07	Sense byte 7.
16	(10)	CHARACTER	1	IEDBSN08	Sense byte 8.
17	(11)	CHARACTER	1	IEDBSN09	Sense byte 9.
18	(12)	CHARACTER	1	IEDBSN10	Sense byte 10.
19	(13)	CHARACTER	1	IEDBSN11	Sense byte 11.
20	(14)	CHARACTER	1	IEDBSN12	Sense byte 12.
21	(15)	CHARACTER	1	IEDBSN13	Sense byte 13.
22	(16)	CHARACTER	1	IEDBSN14	Sense byte 14.
23	(17)	CHARACTER	1	IEDBSN15	Sense byte 15.
24	(18)	CHARACTER	1	IEDBSN16	Sense byte 16.
25	(19)	CHARACTER	1	IEDBSN17	Sense byte 17.
26	(1A)	CHARACTER	1	IEDBSN18	Sense byte 18.
27	(1B)	CHARACTER	1	IEDBSN19	Sense byte 19.
28	(1C)	CHARACTER	1	IEDBSN20	Sense byte 20.
29	(1D)	CHARACTER	1	IEDBSN21	Sense byte 21.
30	(1E)	CHARACTER	1	IEDBSN22	Sense byte 22.
31	(1F)	CHARACTER	1	IEDBSN23	Sense byte 23.
32	(20)	CHARACTER	1	IEDBSN24	Sense byte 24.
33	(21)	CHARACTER	1	IEDBSN25	Sense byte 25.
34	(22)	CHARACTER	1	IEDBSN26	Sense byte 26.
35	(23)	CHARACTER	1	IEDBSN27	Sense byte 27.
36	(24)	CHARACTER	1	IEDBSN28	Sense byte 28.
37	(25)	CHARACTER	1	IEDBSN29	Sense byte 29.
38	(26)	CHARACTER	1	IEDBSN30	Sense byte 30.
39	(27)	CHARACTER	1	IEDBSN31	Sense byte 31.
40	(28)	CHARACTER	4		Reserved for future CSW expansion
44	(2C)	SIGNED	4	IEDB2CSW	If the I/O requestor allowed prefetching of CCWs and data (IOBEP/IOSP) and specified that it wants to see both the channel and CU ending CCW address for errors that occur when the CU executes ahead of the channel and the 2nd CCW address is valid, this field contains the virtual CCW address of the last CCW executed by the control unit
44	(2C)	X'30'	0	IEDBEND	"*" End of IEDB.
44	(2C)	X'30'	0	IEDBLNTH	"IEDBEND-IEDB" Length of IEDB.
44	(2C)	X'1'	0	IEDBVRSC	"1" Version number.

IEDB Cross Reference

Name	Hex Offset	Hex Value
IEDB	0	
IEDBBDSN	5	80
IEDBCOD	6	
IEDBEND	2C	30
IEDBFLG1	5	
IEDBID	0	
IEDBLNTH	2C	30
IEDBSNS	8	
IEDBSN00	8	
IEDBSN01	9	
IEDBSN02	A	
IEDBSN03	B	
IEDBSN04	C	
IEDBSN05	D	
IEDBSN06	E	
IEDBSN07	F	
IEDBSN08	10	
IEDBSN09	11	
IEDBSN10	12	
IEDBSN11	13	
IEDBSN12	14	
IEDBSN13	15	
IEDBSN14	16	
IEDBSN15	17	
IEDBSN16	18	
IEDBSN17	19	
IEDBSN18	1A	
IEDBSN19	1B	
IEDBSN20	1C	
IEDBSN21	1D	
IEDBSN22	1E	
IEDBSN23	1F	
IEDBSN24	20	
IEDBSN25	21	
IEDBSN26	22	
IEDBSN27	23	
IEDBSN28	24	
IEDBSN29	25	
IEDBSN30	26	
IEDBSN31	27	
IEDBVERS	4	
IEDBVRSC	2C	1
IEDB2CSW	2C	

IEESMCX Heading Information

Common Name: SMF CONTROL TABLE EXTENSION
Macro ID: IEESMCX
DSECT Name: SMCX
Owning Component: SYSTEM MANAGEMENT FACILITIES (SC100)
Eye-Catcher ID: "SMCX"
Offset: 0 ('0' in hex)
Length: 4 bytes
Storage Attributes: Subpool: 245
Key: 0
Residency: Above
Size: 64 bytes ('40' in hex)
FREQUENCY = 1 per MVS system
Created by: IFASTART
Pointed to by: SMCASMCX
Serialization: None
Function: Extended communications area used to hold data by SMF or other MVS components

IEESMCX Map

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	78	SMCX	
0	(0)	CHARACTER	4	SMCXID	SMCX CONTROL BLOCK ID - "SMCX"
4	(4)	SIGNED	2	SMCXLVL	SMCX CONTROL BLOCK LEVEL INDICATOR
6	(6)	SIGNED	2	SMCXLEN	SMCX CONTROL BLOCK LENGTH
8	(8)	CHARACTER	8	SMCXINTV	GLOBAL INTERVAL VALUE (TOD FORMAT)
16	(10)	CHARACTER	8	SMCXSYNV	GLOBAL INTERVAL SYNC VALUE (TOD FORMAT)
24	(18)	CHARACTER	2	SMCXINTP	INTVAL PARM VALUE (CHARACTER FORMAT)
26	(1A)	CHARACTER	2	SMCXSYNP	SYNCVAL PARM VALUE (CHARACTER FORMAT)
28	(1C)	CHARACTER	8	SMCXINTE	TOD FORMAT OF THE NEXT SCHEDULED GLOBAL SYNCHED INTERVAL EXPIRATION
36	(24)	ADDRESS	4	SMCXINTT	POINTER TO THE GLOBAL INTERVAL TQE
40	(28)	ADDRESS	4	SMCXENFP	POINTER TO ENF PARAMETER LIST AREA
44	(2C)	ADDRESS	4	SMCXDFRQ	ADDRESS OF THE DEFERRED INTERVAL STQE CHAIN
48	(30)	ADDRESS	4	SMCXDFSA	ADDRESS OF REGISTER SAVE AREA FOR SYSEVENT IN IEEMB839
52	(34)	CHARACTER	4	SMCXBIT1	BIT INDICATOR MASK (WORD 1)
		1...		SMCXSPDB	SYNC PROCESSING DISABLED INDICATOR
56	(38)	ADDRESS	4	SMCXEXPT	ADDRESS OF INTEXPT RTN IN IEEMB839
60	(3C)	ADDRESS	4	SMCX839A	POINTER TO IEEMB839 WORK AREA

Comment

Variables Used to Process MEMLIMIT Keyword in IEEMB821

End of Comment

64	(40)	CHARACTER	8	SMCXMEML	MEMLIMIT converted to M-BYTES in HEX
72	(48)	CHARACTER	6	SMCXMEM	MEMLIMIT in EBCDIC
72	(48)	CHARACTER	5	SMCXMEMD	First 5 characters of MEMLIMIT as entered in SMFPRMxx - digits 0-9
77	(4D)	CHARACTER	1	SMCXMEMU	Last character of MEMLIMIT - units M, G, T or P as entered in SMFPRMxx
78	(4E)	CHARACTER	0	SMCXEND	END OF SMCX MAPPING

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IEESMCX Constants

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

IEESMCX Cross Reference

Name	Hex Offset	Hex Value
SMCX	0	
SMCXBIT1	34	
SMCXDFRQ	2C	
SMCXDFSA	30	
SMCXEND	4E	
SMCXENFP	28	
SMCXEXPT	38	
SMCXID	0	
SMCXINTE	1C	
SMCXINTP	18	
SMCXINTT	24	
SMCXINTV	8	
SMCXLEN	6	
SMCXLVL	4	
SMCXMEM	48	
SMCXMEMD	48	
SMCXMEML	40	
SMCXMEMU	4D	
SMCXSPDB	34	80
SMCXSYNP	1A	
SMCXSYNV	10	
SMCX839A	3C	

IEEZB833 Programming Interface information

Programming Interface information

IEEZB833

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

- VDEV_DDR_CALLER
- VDEV_DO_NOT_CHECK_VOLSER
- VDEV_ENQS_HELD
- VDEV_ERROR_MESSAGES
- VDEV_ERROR_SUPPRESS_PATH_MSGS
- VDEV_SMS_LIBRARY

End of Programming Interface information

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IEEZB833 Heading Information

Common Name: VARY Device Service Input
Macro ID: IEEZB833
DSECT Name: VDEV VDEVARR
Owning Component: Master Scheduler (SC1B8)
Eye-Catcher ID: 'VDEV'
Offset: 0
Length: 4
Storage Attributes: Key: Caller
Size: 16 bytes plus an array (4 bytes per device)
Created by: Caller of IEEVARYD service
Pointed to by: N/A
Serialization: None
Function: Maps the input parameters for invokers of the IEEVARYD service.

IEEZB833 Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	VDEV	VARY Device Service Input
0	(0)	DBL WORD	8	(0)	Align on doubleword boundary
0	(0)	CHARACTER	4	VDEV_ID	VDEV identifier ('VDEV')
4	(4)	BITSTRING	1	VDEV_VERSION	VDEV version number
5	(5)	BITSTRING	3		Reserved
8	(8)	BITSTRING	2	VDEV_KEYWORDS (0)	VARY device command keywords
8	(8)	BITSTRING	1	VDEV_KEYWORDS1	First byte of keywords
		1...		VDEV_ONLINE	"X'80'" ONLINE keyword
		.1..		VDEV_OFFLINE	"X'40'" OFFLINE keyword
		..1.		VDEV_AUTOSWITCH	"X'20'" AUTOSWITCH keyword
9	(9)	BITSTRING	1	VDEV_KEYWORDS2	Second byte of keywords
		1...		VDEV_UNCOND	"X'80'" UNCOND keyword
		.1..		VDEV_SHR	"X'40'" SHR keyword
		..1.		VDEV_RESET	"X'20'" RESET keyword
		...1		VDEV_FORCE	"X'10'" FORCE keyword
		.... 1...		VDEV_ON	"X'08'" ON keyword
		.... .1..		VDEV_OFF	"X'04'" OFF keyword
10	(A)	BITSTRING	2	VDEV_OPTIONS (0)	Additional options
10	(A)	BITSTRING	1	VDEV_OPTIONS1	First byte of additional options
		1...		VDEV_KEEP_OFFLINE_CM	"X'80'" Keep device(s) offline due to a configuration manager
		.1..		VDEV_ENQS_HELD	"X'40'" VARY device ENQs already held
		..1.		VDEV_ERROR_SUPPRESS_PATH_MSGS	"X'20'" Issue error messages but suppress pathing messages
		...1		VDEV_SMS_LIBRARY	"X'10'" SMS library is being varied
		.... 1...		VDEV_ERROR_MESSAGES	"X'08'" Issue error messages
		.... .1..		VDEV_DO_NOT_CHECK_VOLSER	"X'04'" Bring the device online without checking its volume serial number
		.... ..1.		VDEV_DDR_CALLER	

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
11	(B)	BITSTRING	1	VDEV_OPTIONS2	"X'02'" Indicate that DDR issued the internal vary Second byte of additional options
12	(C)	BITSTRING	4		Reserved
12	(C)	X'10'	0	VDEV_LENGTH	"*-VDEV" Length of VARY Device Service Input

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

Comment

Constants

End of Comment

		1		VDEV_VERN	"X'01'" VDEV version number
2	(2)	X'C4C5E5'	0	VDEV_CBID	"C'VDEV'" VDEV identifier

IEEZB833 Cross Reference

Name	Hex Offset	Hex Value
VDEV	0	
VDEV_AUTOSWITCH	8	20
VDEV_CBID	2	C4C5E5
VDEV_DDR_CALLER	A	2
VDEV_DO_NOT_CHECK_VOLSER	A	4
VDEV_ENQS_HELD	A	40
VDEV_ERROR_MESSAGES	A	8
VDEV_ERROR_SUPPRESS_PATH_MSGS	A	20
VDEV_FORCE	9	10
VDEV_ID	0	
VDEV_KEEP_OFFLINE_CM	A	80
VDEV_KEYWORDS	8	
VDEV_KEYWORDS1	8	
VDEV_KEYWORDS2	9	
VDEV_LENGTH	C	10
VDEV_OFF	9	4
VDEV_OFFLINE	8	40
VDEV_ON	9	8
VDEV_ONLINE	8	80
VDEV_OPTIONS	A	
VDEV_OPTIONS1	A	
VDEV_OPTIONS2	B	
VDEV_RESET	9	20
VDEV_SHR	9	40
VDEV_SMS_LIBRARY	A	10
VDEV_UNCOND	9	80
VDEV_VERN	2	1
VDEV_VERSION	4	
VDEVARR	0	
VDEVARR_DEVN	0	
VDEVARR_LENGTH	2	4

IEEZB834 Programming Interface information

Programming Interface information

IEEZB834

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

- VDRSARR_OFFLINE_OPERATOR

End of Programming Interface information

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IEEZB834 Heading Information

Common Name: VARY Device Service Results
Macro ID: IEEZB834
DSECT Name: VDRSARR
Owning Component: Master Scheduler (SC1B8)
Eye-Catcher ID: None
Storage Attributes: Key: Caller
Size: An array (104 bytes per device)
Created by: Caller of IEEVARYD service
Pointed to by: N/A
Serialization: None
Function: Maps the output from the IEEVARYD service.

IEEZB834 Map

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	VDRSARR	VARY Device Service Results Array Entry
0	(0)	DBL WORD	8	(0)	Align on doubleword boundary
0	(0)	BITSTRING	2	VDRSARR_OUTPUT_FLAGS (0)	Output flags
0	(0)	BITSTRING	1	VDRSARR_OUTPUT_FLAGS1	First byte of output flags
		1...		VDRSARR_OUTPUT_VALID	"X'80'" Device output is valid
		.1..		VDRSARR_MSG_RETURNED	"X'40'" Message area contains a message
1	(1)	BITSTRING	1	VDRSARR_OUTPUT_FLAGS2	Second byte of output flags
2	(2)	BITSTRING	2		Reserved
4	(4)	BITSTRING	4	VDRSARR_RETCODE	Device return code
8	(8)	BITSTRING	4	VDRSARR_RSNCODE	Device reason code
12	(C)	BITSTRING	12		Reserved
24	(18)	CHARACTER	71	VDRSARR_MSGAREA	Message area
95	(5F)	BITSTRING	9		Reserved
95	(5F)	X'68'	0	VDRSARR_LENGTH	"*-VDRSARR" Length of VARY Device Service Results Array Entry

Comment

Device Return Codes (values for VDRSARR_RETCODE)

End of Comment

95	(5F)	X'0'	0	VDRSARR_OK	"0" Successfully varied online/offline or the AUTOSWITCH attribute for the device was succesfully changed
95	(5F)	X'4'	0	VDRSARR_ALREADY_OK	"4" Already online/offline or in requested AUTOSWITCH mode
95	(5F)	X'8'	0	VDRSARR_PENDING	"8" Pending offline
95	(5F)	X'C'	0	VDRSARR_ONLINE_WITH_REST	"12" Online with restrictions
95	(5F)	X'10'	0	VDRSARR_FAIL	"16" Did not come online/offline or the AUTOSWITCH attribute was not changed for the device
95	(5F)	X'14'	0	VDRSARR_OFF_PENDBOX	"20" Offline and pending boxed
95	(5F)	X'18'	0	VDRSARR_PENDOFF_PENDBOX	

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
					"24" Pending offline and pending boxed
95	(5F)	X'20'	0	VDRSARR_UNEXP_ERR	
					"32" Unexpected error

Comment

Device Reason Codes (values for VDRSARR_RSNCODE)

End of Comment

95	(5F)	X'0'	0	VDRSARR_NO_INFO	
					"0" No additional information
95	(5F)	X'1'	0	VDRSARR_SEE_MSGAREA	
					"1" See message area
95	(5F)	X'2'	0	VDRSARR_NOUCB	
					"2" No UCB for device
95	(5F)	X'3'	0	VDRSARR_UNIT_MUST_BE_OFFLINE	
					"3" Unit must be OFFLINE before its AUTOSWITCH attribute can be changed
95	(5F)	X'4'	0	VDRSARR_DEVICE_NOT_VALID	
					"4" Unit is not a valid device type for the AUTOSWITCH attribute
95	(5F)	X'6'	0	VDRSARR_NO_LOG_PATHS	
					"6" Device has no logical paths
95	(5F)	X'7'	0	VDRSARR_NO_PHY_PATHS	
					"7" Device has no physical paths
95	(5F)	X'8'	0	VDRSARR_IN_USE	
					"8" Device in use by system function
95	(5F)	X'9'	0	VDRSARR_ABORT	
					"9" VARY processing aborted
95	(5F)	X'A'	0	VDRSARR_DYN_PATH	
					"10" Dynamic pathing failed
95	(5F)	X'B'	0	VDRSARR_ASSIGN	
					"11" Device assigned to another system
95	(5F)	X'C'	0	VDRSARR_INCOMP_ASSIGN	
					"12" Incompatible assign requested
95	(5F)	X'D'	0	VDRSARR_ASSIGN_FAILED	
					"13" Assign failed
95	(5F)	X'E'	0	VDRSARR_PENDOFF_BOXED	
					"14" Pending offline and boxed
95	(5F)	X'F'	0	VDRSARR_KEPT_OFFLINE_CM	
					"15" Device being kept offline by a configuration manager
95	(5F)	X'10'	0	VDRSARR_OFFLINE_OPERATOR	
					"16" Device is offline due to operator and cannot be brought online as part of an SMS library operation
95	(5F)	X'11'	0	VDRSARR_IN_TAPE_LIB	
					"17" Device is in a system-managed tape library
95	(5F)	X'12'	0	VDRSARR_IN_USE_BY_CUIR	
					"18" Device is in use by C.U.I.R.
95	(5F)	X'13'	0	VDRSARR_NOT_ELIGIBLE	
					"19" Device is not eligible for a vary operation (e.g., device is SYSRES or non-base multiple exposure)
95	(5F)	X'14'	0	VDRSARR_VOLUME_NOT_READ	
					"20" Volume could not be read
95	(5F)	X'15'	0	VDRSARR_MANAGED_BY_JES3	
					"21" Device is managed by JES3
95	(5F)	X'16'	0	VDRSARR_CONSOLE_CHANGING	
					"22" Device is the console device for a console which is currently changing console status
95	(5F)	X'17'	0	VDRSARR_CONSOLE_IO	
					"23" Device is the console device for a console which has invalid input/output capabilities
95	(5F)	X'18'	0	VDRSARR_MASTER_OFF_FORCE	
					"24" Device is the console device for the master console and the OFFLINE and FORCE keywords were not specified

IEEZB834 Cross Reference

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
95	(5F)	X'19'	0	VDRSARR_MASTER_OTHER_ACT	"25" Device is the console device for the master console and there is at least one other active full capability console
95	(5F)	X'1A'	0	VDRSARR_MASTER_MSTCONS	"26" Device is the console device for the master console and the VARY MSTCONS command can be accepted from any console
95	(5F)	X'1B'	0	VDRSARR_MASTER_CANDIDATE	"27" Device is the console device for the master console candidate or the local candidate
95	(5F)	X'1C'	0	VDRSARR_HARDCOPY_CONSOLE	"28" Device is the console device for the hardcopy console
95	(5F)	X'1D'	0	VDRSARR_DEVICE_RESERVED	"29" Device is not allowed to be OFFLINEd when it is reserved

IEEZB834 Cross Reference

Name	Hex Offset	Hex Value
VDRSARR	0	
VDRSARR_ABORT	5F	9
VDRSARR_ALREADY_OK	5F	4
VDRSARR_ASSIGN	5F	B
VDRSARR_ASSIGN_FAILED	5F	D
VDRSARR_CONSOLE_CHANGING	5F	16
VDRSARR_CONSOLE_IO	5F	17
VDRSARR_DEVICE_NOT_VALID	5F	4
VDRSARR_DEVICE_RESERVED	5F	1D
VDRSARR_DYN_PATH	5F	A
VDRSARR_FAIL	5F	10
VDRSARR_HARDCOPY_CONSOLE	5F	1C
VDRSARR_IN_TAPE_LIB	5F	11
VDRSARR_IN_USE	5F	8
VDRSARR_IN_USE_BY_CUIR	5F	12
VDRSARR_INCOMP_ASSIGN	5F	C
VDRSARR_KEPT_OFFLINE_CM	5F	F
VDRSARR_LENGTH	5F	68
VDRSARR_MANAGED_BY_JES3	5F	15
VDRSARR_MASTER_CANDIDATE	5F	1B
VDRSARR_MASTER_MSTCONS	5F	1A
VDRSARR_MASTER_OFF_FORCE	5F	18
VDRSARR_MASTER_OTHER_ACT	5F	19
VDRSARR_MSG_RETURNED	0	40
VDRSARR_MSGAREA	18	
VDRSARR_NO_INFO	5F	0
VDRSARR_NO_LOG_PATHS	5F	6
VDRSARR_NO_PHY_PATHS	5F	7
VDRSARR_NOT_ELIGIBLE	5F	13
VDRSARR_NOUCB	5F	2
VDRSARR_OFF_PENDBOX	5F	14
VDRSARR_OFFLINE_OPERATOR	5F	10
VDRSARR_OK	5F	0
VDRSARR_ONLINE_WITH_REST	5F	C
VDRSARR_OUTPUT_FLAGS	0	
VDRSARR_OUTPUT_FLAGS1	0	
VDRSARR_OUTPUT_FLAGS2	1	
VDRSARR_OUTPUT_VALID	0	80
VDRSARR_PENDING	5F	8
VDRSARR_PENDOFF_BOXED	5F	E
VDRSARR_PENDOFF_PENDBOX	5F	18
VDRSARR_RETCODE	4	
VDRSARR_RSNCODE	8	
VDRSARR_SEE_MSGAREA	5F	1
VDRSARR_UNEXP_ERR	5F	20
VDRSARR_UNIT_MUST_BE_OFFLINE	5F	3
VDRSARR_VOLUME_NOT_READ		

Name	Hex Offset	Hex Value
	5F	14

IEEZB887 Programming Interface information

Programming Interface information

IEEZB887

End of Programming Interface information

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IEEZB887 Heading Information

Common Name: EMCS Console Display Mapping
Macro ID: IEEZB887
DSECT Name: ECDM
Owning Component: Master Scheduler (SC1B8)
Eye-Catcher ID: ECDM
Offset: 4
Length: 4
Storage Attributes: Main Storage: Yes
Virtual Storage: No
Auxiliary Storage: No
Subpool: Caller's
Key: Caller's
Data Space: No
Residency: Any
Size: Variable
ECDM_HDR -- X'0014' bytes
ECDM_SUMM -- X'0018' bytes
ECDM_INFO -- X'0068' bytes
ECDM_DSP -- X'0014' bytes
ECDM_MSCP -- Variable
ECDM_CNSW -- Variable
Created by: IEEQEMCS
Pointed to by: Set up by caller, pointed to by Register 1
during IEEQEMCS processing
Serialization: None
Function: Mapping of EMCS Console Data returned by Query
EMCS Console Service (IEEQEMCS)

IEEZB887 Map

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

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	ECDM_SUMM	EMCS console SUMM block
0	(0)	SIGNED	2	ECDM_SUMM_TYPE	Type of block. Should be ECDM_TYPE_SUMM
2	(2)	CHARACTER	2		Reserved
4	(4)	SIGNED	4	ECDM_SUMM_SIZE	Size of the ECDM_SUMM block
8	(8)	SIGNED	4	ECDM_SUMM_CONS_SIZE	Size of the entire EMCS console entry
12	(C)	BITSTRING	2	ECDM_SUMM_FLGS (0)	

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					Flag bytes
12	(C)	BITSTRING	1	ECDM_SUMM_FLG1 (0)	
					Flag byte 1
		1...		ECDM_SUMM_INFO	
					"X'80'" Data block was returned for this entry
		.1..		ECDM_SUMM_MSCP	
					"X'40'" MSCOPE list was returned for this entry
		..1.		ECDM_SUMM_CNSW	
					"X'20'" CN_SWITCH list was returned for this entry
		...1		ECDM_SUMM_DSP	
					"X'10'" Dataspace block was returned for this entry
13	(D)	BITSTRING	1	ECDM_SUMM_FLG2 (0)	
					Flag byte 2
13	(D)	BITSTRING	1		Reserved
14	(E)	CHARACTER	2		Reserved
16	(10)	CHARACTER	8	ECDM_SUMM_NAME	
					Console name
16	(10)	X'18'	0	ECDM_SUMM_LEN	
					"*-ECDM_SUMM"

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	ECDM_INFO	EMCS console INFO block
0	(0)	SIGNED	2	ECDM_INFO_TYPE	
					Type of block. Should be ECDM_TYPE_INFO
2	(2)	CHARACTER	2		Reserved
4	(4)	SIGNED	4	ECDM_INFO_SIZE	
					Size of this console INFO block
8	(8)	SIGNED	4	ECDM_INFO_CNID	
					4-byte console ID
12	(C)	SIGNED	1	ECDM_INFO_MIGID	
					1-byte migration ID
13	(D)	BITSTRING	1	ECDM_INFO_FLG1 (0)	
					Miscellaneous flag byte
		1...		ECDM_INFO_SWTO_VALID	
					"X'80'" This console has been switched (SWITCHTO is valid)
		.1..		ECDM_INFO_ALTGRP_VALID	
					"X'40'" There is an alternate group for this console
		..1.		ECDM_INFO_MIGID_VALID	
					"X'20'" There is an migration ID for this console
		...1		ECDM_INFO_JOBINFO_VALID	
					"X'10'" There is a JOBNAME and JOBID available for this console
14	(E)	SIGNED	2	ECDM_INFO_ASID	
					ASID (only valid if this is an active console on this system, otherwise it is zero)
16	(10)	BITSTRING	1	ECDM_INFO_STFLG (0)	
					Console status flag byte
		1...		ECDM_INFO_ACTIVE	
					"X'80'" Console is active
		.1..		ECDM_INFO_PD	"X'40'" Console is in PD mode
17	(11)	BITSTRING	1	ECDM_INFO_RTFLG (0)	
					Routing Flags
		1...		ECDM_INFO_UD	"X'80'" UD bit
		.1..		ECDM_INFO_HC	"X'40'" HC bit
		..1.		ECDM_INFO_AUTO	
					"X'20'" AUTO bit

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		...1		ECDM_INFO_MNJB	"X'10'" Monitor jobnames
		.... 1...		ECDM_INFO_MNST	"X'08'" Monitor status
		.... .1..		ECDM_INFO_MNSS	"X'04'" Monitor sessions
		.... ..1.		ECDM_INFO_MSCP_ALL	"X'02'" MSCOPE=*ALL
		1		ECDM_INFO_NO_MSCP	"X'01'" No MSCOPE data available - this is not a sysplex
18	(12)	BITSTRING	1	ECDM_INFO_DOM (0)	DOM attribute bits
		1...		ECDM_INFO_DOMALL	"X'80'" DOM=ALL
		.1..		ECDM_INFO_DOMNORM	"X'40'" DOM=NORMAL
		..1.		ECDM_INFO_DOMNONE	"X'20'" DOM=NONE
19	(13)	BITSTRING	1	ECDM_INFO_MLVL (0)	Level Byte
		1...		ECDM_INFO_LVW	"X'80'" Display WTOR's
		.1..		ECDM_INFO_LVIA	"X'40'" Display Immediate Action messages
		..1.		ECDM_INFO_LVCE	"X'20'" Display Critical Eventual Action messages
		...1		ECDM_INFO_LVE	"X'10'" Display Eventual Action messages
		.... 1...		ECDM_INFO_LVI	"X'08'" Display Informational messages
		.... .1..		ECDM_INFO_LVBC	"X'04'" Display Broadcast messages
20	(14)	BITSTRING	1	ECDM_INFO_AUTH (0)	Console authority byte
		1...		ECDM_INFO_SYS	"X'80'" Console has SYS authority
		.1..		ECDM_INFO_IO	"X'40'" Console has IO authority
		..1.		ECDM_INFO_CONS	"X'20'" Console has CONS authority
		...1		ECDM_INFO_MASTER	"X'10'" Console has MASTER authority
21	(15)	CHARACTER	3		Reserved
24	(18)	CHARACTER	8	ECDM_INFO_KEY	User assigned key
32	(20)	CHARACTER	8	ECDM_INFO_SYSNM	System name
40	(28)	CHARACTER	8	ECDM_INFO_TERM	Terminal name
48	(30)	CHARACTER	8	ECDM_INFO_JOBNM	JOBNAME
56	(38)	CHARACTER	8	ECDM_INFO_JOBID	JOBID
64	(40)	CHARACTER	8	ECDM_INFO_CSYS	CMDSYS
72	(48)	CHARACTER	8	ECDM_INFO_ALTGRP	ALTGRP
80	(50)	CHARACTER	8	ECDM_INFO_SWTO	SWITCHTO
88	(58)	CHARACTER	16	ECDM_INFO_ROUT	Routing codes
88	(58)	X'68'	0	ECDM_INFO_LEN	

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
					"*-ECDM_INFO"

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	ECDM_DSP	Dataspace status mapping
0	(0)	SIGNED	2	ECDM_DSP_TYPE	Type of block. Should be ECDM_TYPE_DSP
2	(2)	CHARACTER	2		Reserved
4	(4)	SIGNED	4	ECDM_DSP_SIZE	Size of the dataspace status mapping
8	(8)	SIGNED	4	ECDM_DSP_QD	Queue depth in use
12	(C)	SIGNED	4	ECDM_DSP_QLIM	Queue depth limit
16	(10)	SIGNED	1	ECDM_DSP_ALERTPCT	Alert percentage
17	(11)	BITSTRING	1	ECDM_DSP_ERR (0)	Error condition byte
		1...		ECDM_DSP_CLIM	"X'80'" Queueing stopped by Memory Limit
		.1..		ECDM_DSP_DLIM	"X'40'" Queueing stopped by Queue Depth Limit
		..1.		ECDM_DSP_INTR	"X'20'" Queueing stopped by Internal Error
		...1		ECDM_DSP_ALRT	"X'10'" Queueing reached Alert Percentage
18	(12)	CHARACTER	2		Reserved
18	(12)	X'14'	0	ECDM_DSP_LEN	"*-ECDM_DSP"

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	ECDM_MSCP	EMCS console MSCOPE block
0	(0)	CHARACTER	12	ECDM_MSCP_HDR (0)	MSCOPE fixed-size header. Should be ECDM_TYPE_MSCP
0	(0)	SIGNED	2	ECDM_MSCP_TYPE	Type of block
2	(2)	CHARACTER	2		Reserved
4	(4)	SIGNED	4	ECDM_MSCP_SIZE	Size of this console MSCOPE block
8	(8)	SIGNED	4	ECDM_MSCP_MNUM	Number of entries in MSCOPE block
12	(C)	CHARACTER	8	ECDM_MSCP_LIST	MSCOPE list
12	(C)	X'14'	0	ECDM_MSCP_LEN	"*-ECDM_MSCP"

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	ECDM_CNSW	EMCS console CNSWITCH block
0	(0)	CHARACTER	12	ECDM_CNSW_HDR (0)	CNSWITCH fixed-size header. Should be ECDM_TYPE_CNSW
0	(0)	SIGNED	2	ECDM_CNSW_TYPE	Type of block
2	(2)	CHARACTER	2		Reserved
4	(4)	SIGNED	4	ECDM_CNSW_SIZE	Size of this console CNSWITCH block
8	(8)	SIGNED	4	ECDM_CNSW_MNUM	Number of entries in CNSWITCH block

IEEZB887 Cross Reference

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
12	(C)	CHARACTER	8	ECDM_CNSW_LIST	CNSWITCH list
12	(C)	X'C3C4D4'	0	ECDM_ACR	"C'ECDM'" Eyecatcher
				Comment	
				Version numbers	
				End of Comment	
		1		ECDM_VERS1	"X'00000001'" Version number
		1		ECDM_VERID	"X'00000001'" Current version number
				Comment	
				Sub-block identifiers	
				End of Comment	
12	(C)	X'8'	0	ECDM_TYPE_SUMM	"8" Console SUMM block type
12	(C)	X'10'	0	ECDM_TYPE_INFO	"16" Console INFO block type
12	(C)	X'20'	0	ECDM_TYPE_MSCP	"32" Console MSCOPE block type
12	(C)	X'40'	0	ECDM_TYPE_CNSW	"64" Console CNSWITCH block type
12	(C)	X'80'	0	ECDM_TYPE_DSP	"128" Console dataspace block type
12	(C)	X'14'	0	ECDM_CNSW_LEN	"*-ECDM_CNSW"

IEEZB887 Cross Reference

Name	Hex Offset	Hex Value
ECDM_ACR	C	C3C4D4
ECDM_ACRN	0	
ECDM_CNSW	0	
ECDM_CNSW_HDR	0	
ECDM_CNSW_LEN	C	14
ECDM_CNSW_LIST	C	
ECDM_CNSW_MNUM	8	
ECDM_CNSW_SIZE	4	
ECDM_CNSW_TYPE	0	
ECDM_DSP	0	
ECDM_DSP_ALERTPCT	10	
ECDM_DSP_ALRT	11	10
ECDM_DSP_CLIM	11	80
ECDM_DSP_DLIM	11	40
ECDM_DSP_ERR	11	
ECDM_DSP_INTR	11	20
ECDM_DSP_LEN	12	14
ECDM_DSP_QD	8	
ECDM_DSP_QLIM	C	
ECDM_DSP_SIZE	4	
ECDM_DSP_TYPE	0	
ECDM_HDR	0	
ECDM_HDR_LEN	12	14
ECDM_HDR_SIZE	8	
ECDM_INFO	0	
ECDM_INFO_ACTIVE	10	80
ECDM_INFO_ALTGRP	48	
ECDM_INFO_ALTGRP_VALID	D	40
ECDM_INFO_ASID	E	
ECDM_INFO_AUTH	14	
ECDM_INFO_AUTO	11	20
ECDM_INFO_CNID	8	
ECDM_INFO_CONS	14	20
ECDM_INFO_CSYS	40	
ECDM_INFO_DOM	12	

Name	Hex Offset	Hex Value
ECDM_INFO_DOMALL	12	80
ECDM_INFO_DOMNONE	12	20
ECDM_INFO_DOMNORM	12	40
ECDM_INFO_FLG1	D	
ECDM_INFO_HC	11	40
ECDM_INFO_IO	14	40
ECDM_INFO_JOBID	38	
ECDM_INFO_JOBINFO_VALID	D	10
ECDM_INFO_JOBNM	30	
ECDM_INFO_KEY	18	
ECDM_INFO_LEN	58	68
ECDM_INFO_LVBC	13	4
ECDM_INFO_LVCE	13	20
ECDM_INFO_LVE	13	10
ECDM_INFO_LVI	13	8
ECDM_INFO_LVIA	13	40
ECDM_INFO_LVW	13	80
ECDM_INFO_MASTER	14	10
ECDM_INFO_MIGID	C	
ECDM_INFO_MIGID_VALID	D	20
ECDM_INFO_MLVL	13	
ECDM_INFO_MNJB	11	10
ECDM_INFO_MNSS	11	4
ECDM_INFO_MNST	11	8
ECDM_INFO_MSCP_ALL	11	2
ECDM_INFO_NO_MSCP	11	1
ECDM_INFO_PD	10	40
ECDM_INFO_ROUT	58	
ECDM_INFO_RTFLG	11	
ECDM_INFO_SIZE	4	
ECDM_INFO_STFLG	10	
ECDM_INFO_SWTO	50	
ECDM_INFO_SWTO_VALID	D	80
ECDM_INFO_SYS	14	80
ECDM_INFO_SYSNM	20	
ECDM_INFO_TERM	28	
ECDM_INFO_TYPE	0	
ECDM_INFO_UD	11	80
ECDM_MSCP	0	
ECDM_MSCP_HDR	0	
ECDM_MSCP_LEN	C	14
ECDM_MSCP_LIST	C	
ECDM_MSCP_MNUM	8	
ECDM_MSCP_SIZE	4	
ECDM_MSCP_TYPE	0	
ECDM_NENT	10	
ECDM_SIZE	C	
ECDM_SUMM	0	
ECDM_SUMM_CNSW	C	20
ECDM_SUMM_CONS_SIZE	8	
ECDM_SUMM_DSP	C	10
ECDM_SUMM_FLGS	C	
ECDM_SUMM_FLG1	C	
ECDM_SUMM_FLG2	D	
ECDM_SUMM_INFO	C	80
ECDM_SUMM_LEN	10	18
ECDM_SUMM_MSCP	C	40
ECDM_SUMM_NAME	10	
ECDM_SUMM_SIZE	4	
ECDM_SUMM_TYPE	0	
ECDM_TYPE_CNSW	C	40
ECDM_TYPE_DSP	C	80
ECDM_TYPE_INFO	C	10
ECDM_TYPE_MSCP	C	20
ECDM_TYPE_SUMM	C	8
ECDM_VERID	C	1
ECDM_VERS	4	
ECDM_VERS1	C	1

IEEZB888 Programming Interface information

Programming Interface information

IEEZB888

End of Programming Interface information

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IEEZB888 Heading Information

Common Name: IEEQEMCS Return and Reason Codes
Macro ID: IEEZB888
DSECT Name: N/A
Owning Component: Master Scheduler (SC1B8)
Eye-Catcher ID:
Offset: N/A
Length: N/A
Storage Attributes: Main Storage: Yes
Virtual Storage: No
Auxiliary Storage: No
Subpool: Caller's
Key: Caller's
Data Space: No
Residency: Any
Size: N/A
Created by: IEEQEMCS
Pointed to by: N/A
Serialization: None
Function: Mapping of IEEQEMCS Return and Reason Codes

IEEZB888 Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0		
		....		IEEQE_RC_OK	"X'00000000'" Meaning: EMCS consoles have been found. In the case of a REQUEST type of SUMMARY, INFO, or FULL, the output buffer was sufficient to hold all of the information for the consoles meeting the search criteria. Action: None required.
		.... .1..		IEEQE_RC_NOCONS	"X'00000004'" Meaning: No EMCS consoles meet the specified filters. Action: None required.
		.... 1...		IEEQE_RC_NOSTOR	"X'00000008'" Meaning: Insufficient return buffer storage to complete the query operation. Action: Refer to the action provided with the specific reason code.
		.... .1..		IEEQE_RS_TOKSZCONS	"X'00000004'" Meaning: A token and recommended buffer size have been returned in TOKEN and RECSIZE. Also, some console information has been returned in the output buffer. Action: After processing the information returned in the console buffer, issue IEEQEMCS again with the token that was returned by this call to IEEQEMCS so that more console information may be returned.
		.... 1...		IEEQE_RS_TOKSZNOCONS	"X'00000008'" Meaning: A token and recommended buffer size have been returned in TOKEN and RECSIZE. The output buffer is too small to return any EMCS consoles. Action: Allocate a new buffer that is at least the size returned in RECSIZE, and issue IEEQEMCS again with the new buffer and the token returned on the previous IEEQEMCS call. The recommended buffer size returned in RECSIZE is sufficient to hold only one console. It may be necessary to obtain a buffer larger than that to hold all of the consoles returned by IEEQEMCS.
		...1 ..1.		IEEQE_RS_NOTOKSZRET	

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					"X'00000012'" Meaning: TOKEN and RECSIZE parameters were not coded on the macro invocation, so IEEQEMCS could not return a recommended buffer size to the caller. The buffer size specified by BUFSIZE was not sufficient to hold all of the consoles returned by IEEQEMCS. Action: Issue IEEQEMCS again with the TOKEN and RECSIZE parameters.
		...1 ..1.		IEEQE_RC_INVTOK	"X'00000012'" Meaning: Invalid token in parameter list. Action: Issue IEEQEMCS again with a correct token or a token of zeros.
		...1 .11.		IEEQE_RC_INVPL	"X'00000016'" Meaning: Invalid parameter list. Action: Refer to the action provided with the specific reason code.
		.... .1..		IEEQE_RS_INVACRN	"X'00000004'" Meaning: The acronym in the parameter list was invalid. Action: Correct the acronym in the parameter list and issue IEEQEMCS again.
		.... 1...		IEEQE_RS_INVADDR	"X'00000008'" Meaning: An output address is invalid. An ABEND occured while trying to access storage at an address specified in the parameter list, possibly because that storage is not accessible by the caller, or the storage does not exist. Action: Correct the invalid address in the parameter list and issue IEEQEMCS again.
		...1 ..1.		IEEQE_RS_INVBUFSIZEADDR	"X'00000012'" Meaning: The length of the buffer in the parameter list was invalid. Action: Correct the buffer length in the parameter list and issue IEEQEMCS again.
		...1 .11.		IEEQE_RS_INVLGTH	"X'00000016'" Meaning: The length of the parameter list is invalid. Action: Correct the length in the parameter list and issue IEEQEMCS again.
		..1.		IEEQE_RS_INVVERS	"X'00000020'" Meaning: The version specified in the parameter list is invalid. Action: Correct the version in the parameter list and issue IEEQEMCS again.
		..1. .1..		IEEQE_RS_INVFUNC	"X'00000024'" Meaning: The REQUEST type specified in the parameter list is not a valid REQUEST type. Action: Correct the REQUEST type in the parameter list and issue IEEQEMCS again.
		..1. 1...		IEEQE_RS_INVSTAT	"X'00000028'" Meaning: The STATUS specified in the parameter list is not a valid STATUS type. Action: Correct the STATUS in the parameter list and issue IEEQEMCS again.
		..11 ..1.		IEEQE_RS_INVAUTH	"X'00000032'" Meaning: The command authority specified in the parameter list is not a valid command authority type. Action: Correct the AUTH in the parameter list and issue IEEQEMCS again.
		..11 .11.		IEEQE_RS_INVDOM	"X'00000036'" Meaning: The DOM attribute specified in the parameter list is not a valid DOM attribute type. Action: Correct the DOM in the parameter list and issue IEEQEMCS again.
		.1..		IEEQE_RS_INCONSIST	"X'00000040'" Meaning: A set of parameters specified in the parameter list conflict with each other. Action: Correct the parameter list to not have conflicting parameters and issue IEEQEMCS again.
		.1.. .1..		IEEQE_RS_INVATTR	"X'00000044'" Meaning: The routing attributes specified in the parameter list are not valid routing attribute types. Action: Correct the ATTR field in the parameter list and issue IEEQEMCS again.

IEEZB888 Cross Reference

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		.11. .1..		IEEQE_RC_SYSERR	"X'00000064'" Meaning: System Error. This return code is for IBM diagnostic purposes only. Action: Record the return and reason codes and supply it to the appropriate IBM support personnel.
		.... .1..		IEEQE_RS_SYSABEND	"X'00000004'" Meaning: An ABEND occurred during processing. This reason code is for IBM diagnostic purposes only. Action: Record the return and reason codes and supply it to the appropriate IBM support personnel.
		.... 1...		IEEQE_RS_SYSERR	"X'00000008'" Meaning: An error occurred during processing. This reason code is for IBM diagnostic purposes only. Action: Record the return and reason codes and supply it to the appropriate IBM support personnel.

IEEZB888 Cross Reference

Name	Hex Offset	Hex Value
IEEQE_RC_INVPL	0	16
IEEQE_RC_INVTOK	0	12
IEEQE_RC_NOCONS	0	4
IEEQE_RC_NOSTOR	0	8
IEEQE_RC_OK	0	0
IEEQE_RC_SYSERR	0	64
IEEQE_RS_INCONSIST	0	40
IEEQE_RS_INVACRN	0	4
IEEQE_RS_INVADDR	0	8
IEEQE_RS_INVATTR	0	44
IEEQE_RS_INVAUTH	0	32
IEEQE_RS_INVBUFSIZEADDR	0	12
IEEQE_RS_INVDOM	0	36
IEEQE_RS_INVFUNC	0	24
IEEQE_RS_INVLGTH	0	16
IEEQE_RS_INVSTAT	0	28
IEEQE_RS_INVVERS	0	20
IEEQE_RS_NOTOKSZRET	0	12
IEEQE_RS_SYSABEND	0	4
IEEQE_RS_SYSERR	0	8
IEEQE_RS_TOKSZCONS	0	4
IEEQE_RS_TOKSZNOCONS	0	8

IEEZB889 Programming Interface information

Programming Interface information

IEEZB889

End of Programming Interface information

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IEEZB889 Heading Information

Common Name: IEECMDS Buffer Mapping
Macro ID: IEEZB889
DSECT Name: CMDS
Owning Component: Master Scheduler (SC1B8)
Eye-Catcher ID: CMDS
Offset: 4
Length: 4
Storage Attributes: Main Storage: Yes
Virtual Storage: No
Auxiliary Storage: No
Subpool: Caller's
Key: Caller's
Data Space: No
Residency: Any
Size: Variable
CMDS_HDR -- X'0030' bytes
CMDS_ENTRY -- X'00B0' bytes
Created by: IEECMDS
Pointed to by: Set up by caller, pointed to by Register 1 during IEECMDS processing
Serialization: None
Function: Mapping of Command Data returned by Query/Remove Command Service (IEECMDS)

IEEZB889 Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	CMDS_HDR	Command Data Header Mapping
0	(0)	CHARACTER	4	CMDS_ACRN	Eyecatcher
4	(4)	BITSTRING	4	CMDS_VERS	Version
8	(8)	SIGNED	4	CMDS_HDR_SIZE	Size of Header
12	(C)	SIGNED	4	CMDS_SIZE	Size of entire data buffer
16	(10)	SIGNED	4	CMDS_NUMENT	Number of command entries in the output buffer
20	(14)	SIGNED	4	CMDS_NUM_MTCH	Number of commands which match input filters
24	(18)	SIGNED	4	CMDS_NUM_MTCHE	Number of executing commands which match input filters
28	(1C)	SIGNED	4	CMDS_NUM_MTCHW	Number of waiting commands which match input filters
32	(20)	SIGNED	4	CMDS_NUM_TOTAL	Total number of attached commands in the system
36	(24)	SIGNED	4	CMDS_NUM_TOTE	Total number of attached commands executing
40	(28)	SIGNED	4	CMDS_NUM_TOTW	Total number of attached commands waiting
44	(2C)	CHARACTER	4		Reserved
44	(2C)	X'30'	0	CMDS_HDR_LEN	"*-CMDS_HDR"

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	CMDS_ENTRY	Command ENTRY block
0	(0)	SIGNED	4	CMDS_ENTRY_SIZE	Size of the CMDS_ENTRY block

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
4	(4)	BITSTRING	2	CMDS_ENTRY_FLGS (0)	Flag bytes
4	(4)	BITSTRING	1	CMDS_ENTRY_FLG1 (0)	Flag byte 1
		1...		CMDS_ENTRY_EXECUTING	"X'80'" Command is executing
		.1..		CMDS_ENTRY_WAITING	"X'40'" Command is/was waiting for execution
		..1.		CMDS_ENTRY_REMOVED	"X'20'" REQUEST was REMOVE, command is removed
5	(5)	BITSTRING	1	CMDS_ENTRY_FLG2 (0)	Flag byte 2
5	(5)	BITSTRING	1		Reserved
6	(6)	CHARACTER	2	CMDS_ENTRY_RSVD1	Reserved
8	(8)	CHARACTER	8	CMDS_ENTRY_TIME	Time stamp (STCK) when command was issued (if waiting) or was attached (if executing)
16	(10)	CHARACTER	4	CMDS_ENTRY_CLASS	Command Class
20	(14)	CHARACTER	4	CMDS_ENTRY_ID	Command ID
24	(18)	CHARACTER	8	CMDS_ENTRY_JOB	Jobname of issuer
32	(20)	CHARACTER	4	CMDS_ENTRY_ASID	ASID of issuer
36	(24)	CHARACTER	8	CMDS_ENTRY_NAME	Command name
44	(2C)	ADDRESS	4	CMDS_ENTRY_TCB	TCB address of executing cmd
48	(30)	CHARACTER	126	CMDS_ENTRY_TEXT	Command text
174	(AE)	CHARACTER	2	CMDS_ENTRY_RSVD2	Reserved
174	(AE)	X'D4C4E2'	0	CMDS_ACR	"C'CMDS'" Eyecatcher
174	(AE)	X'30'	0	CMDS_HEADER_LENGTH	"48" Length of header section
174	(AE)	X'B0'	0	CMDS_ENTRY_LENGTH	"176" Length of each entry

Comment

Version numbers

End of Comment

		1		CMDS_VERS1	"X'00000001'" Version number
		1		CMDS_VERID	"X'00000001'" Current version number

Comment

Return and Reason Codes

End of Comment

		....		CMDS_RC_OK	"X'00000000'" Meaning: Matching commands have been found. In the case of a REQUEST type of INFO or REMOVE, the output buffer was sufficient to hold all of the information for the commands meeting the search criteria. Action: None required.
		.... .1..		CMDS_RC_NOCMDS	"X'00000004'" Meaning: No commands meet the specified filters. Action: None required.
		.... 1...		CMDS_RC_NOSTOR	

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					"X'00000008'" Meaning: Insufficient return buffer storage to complete the query operation. Action: Refer to the action provided with the specific reason code.
		.... .1..		CMDS_RS_SOMECMDS	"X'00000004'" Meaning: The output buffer is too small to contain all requested information, but does contain the information for one or more commands. Action: The count of matching commands has been returned. Adjust the buffer size so that it is at least as large as the count multiplied by the the length of an entry, plus the length of the header. Constants CMDS_HEADER_LENGTH and CMDS_ENTRY_LENGTH represent these amounts.
		.... 1...		CMDS_RS_NOCMDS	"X'00000008'" Meaning: The output buffer is too small to contain the information for even one command. Action: The count of matching commands has been returned. Adjust the buffer size so that it is at least as large as the count multiplied by the the length of an entry, plus the length of the header. Constants CMDS_HEADER_LENGTH and CMDS_ENTRY_LENGTH represent these amounts.
		...1		CMDS_RC_INVPL	"X'00000010'" Meaning: Invalid parameter list. Action: Refer to the action provided with the specific reason code.
		.... .1..		CMDS_RS_INVACRN	"X'00000004'" Meaning: The acronym in the parameter list was invalid. Action: Correct the acronym in the parameter list and issue IEECMDS again.
		.... 1...		CMDS_RS_INVADDR	"X'00000008'" Meaning: An output address is invalid. An ABEND occured while trying to access storage at an address specified in the parameter list, possibly because that storage is not accessible by the caller, or the storage does not exist. Action: Correct the invalid address in the parameter list and issue IEECMDS again.
		.... 11..		CMDS_RS_INVBUFFER	"X'0000000C'" Meaning: The address or length of the buffer in the parameter list was invalid. Action: Correct the buffer length in the parameter list and issue IEECMDS again.
		...1		CMDS_RS_INVLGTH	"X'00000010'" Meaning: The length of the parameter list is invalid. Action: Correct the length in the parameter list and issue IEECMDS again.
		...1 .1..		CMDS_RS_INVVERS	"X'00000014'" Meaning: The version specified in the parameter list is invalid. Action: Correct the version in the parameter list and issue IEECMDS again.
		...1 1...		CMDS_RS_INVFUNC	"X'00000018'" Meaning: The REQUEST type specified in the parameter list is not a valid REQUEST type. Action: Correct the REQUEST type in the parameter list and issue IEECMDS again.
		...1 11..		CMDS_RS_INVCLASS	"X'0000001C'" Meaning: The CLASS specified in the parameter list is not a valid CLASS name. Action: Correct the CLASS in the parameter list and issue IEECMDS again.
		..1.		CMDS_RS_INVID	"X'00000020'" Meaning: The ID specified in the parameter list is not a valid ID value. The ID value must be a decimal number in EBCDIC (printable) characters. Action: Correct the ID in the parameter list and issue IEECMDS again.
		.1..		CMDS_RC_SYSERR	"X'00000040'" Meaning: System Error. This return code is for IBM diagnostic purposes only. Action: Record the return and reason codes and supply it to the appropriate IBM support personnel.

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		.... .1..		CMDS_RS_SYSABEND	"X'00000004'" Meaning: An ABEND occurred during processing. This reason code is for IBM diagnostic purposes only.
		.... 1...		CMDS_RS_SYSERR	"X'00000008'" Meaning: An error occurred during processing. This reason code is for IBM diagnostic purposes only.
174	(AE)	X'B0'	0	CMDS_ENTRY_LEN	"*-CMDS_ENTRY"

IEEZB889 Cross Reference

Name	Hex Offset	Hex Value
CMDS_ACR	AE	D4C4E2
CMDS_ACRN	0	
CMDS_ENTRY	0	
CMDS_ENTRY_ASID	20	
CMDS_ENTRY_CLASS	10	
CMDS_ENTRY_EXECUTING	4	80
CMDS_ENTRY_FLGS	4	
CMDS_ENTRY_FLG1	4	
CMDS_ENTRY_FLG2	5	
CMDS_ENTRY_ID	14	
CMDS_ENTRY_JOB	18	
CMDS_ENTRY_LEN	AE	B0
CMDS_ENTRY_LENGTH	AE	B0
CMDS_ENTRY_NAME	24	
CMDS_ENTRY_REMOVED	4	20
CMDS_ENTRY_RSVD1	6	
CMDS_ENTRY_RSVD2	AE	
CMDS_ENTRY_SIZE	0	
CMDS_ENTRY_TCB	2C	
CMDS_ENTRY_TEXT	30	
CMDS_ENTRY_TIME	8	
CMDS_ENTRY_WAITING	4	40
CMDS_HDR	0	
CMDS_HDR_LEN	2C	30
CMDS_HDR_SIZE	8	
CMDS_HEADER_LENGTH	AE	30
CMDS_NUM_MTCH	14	
CMDS_NUM_MTCHE	18	
CMDS_NUM_MTCHW	1C	
CMDS_NUM_TOTAL	20	
CMDS_NUM_TOTE	24	
CMDS_NUM_TOTW	28	
CMDS_NUMENT	10	
CMDS_RC_INVPL	AE	10
CMDS_RC_NOCMDS	AE	4
CMDS_RC_NOSTOR	AE	8
CMDS_RC_OK	AE	0
CMDS_RC_SYSERR	AE	40
CMDS_RS_INVACRN	AE	4
CMDS_RS_INVADDR	AE	8
CMDS_RS_INVBUFFER	AE	C
CMDS_RS_INVCLASS	AE	1C
CMDS_RS_INVFUNC	AE	18
CMDS_RS_INVID	AE	20
CMDS_RS_INVLGTH	AE	10
CMDS_RS_INVVERS	AE	14
CMDS_RS_NOCMDS	AE	8
CMDS_RS_SOMECMDS	AE	4
CMDS_RS_SYSABEND	AE	4
CMDS_RS_SYSERR	AE	8
CMDS_SIZE	C	
CMDS_VERID	AE	1
CMDS_VERS	4	
CMDS_VERS1	AE	1

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	TUXSMFP	SMF common exit parameter list
78	(4E)	CHARACTER	80	TUXJCLIM	80-byte JCL image
158	(9E)	CHARACTER	1	TUXFUNCD	Function code
159	(9F)	CHARACTER	1	TUXJESOP	JES options to converter

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IEFCNPRM Heading Information

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

IEFCNPRM Map

Offsets Dec	Offsets 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					
End of Comment					
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

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Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
36	(24)	ADDRESS	4	CNPRJCL	Address of open ACB for spooled JCL data set
40	(28)	ADDRESS	4	CNPRSTMT	Address of open ACB for statement image data set
44	(2C)	ADDRESS	4	CNPRJMR	Address of job management record
48	(30)	ADDRESS	4	CNPRPROC	Address of open DCB for procedure library
52	(34)	ADDRESS	4	CNPRXLST	Address of list of special converter exits mapped by CNPREXIT
56	(38)	ADDRESS	4	CNPRSSYM	Address of a string of data in SET statement format defining system symbolics and associated values
60	(3C)	SIGNED	2	CNPRSYML	Length of string of system symbolics
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)	CHARACTER	1	*	Reserved
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)	CHARACTER	12	*	Reserved

Offsets Dec	Offsets 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
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

IEFCNPRM Constants

Len	Type	Value	Name	Description
4	DECIMAL	2	CNPRCVER	Current version number
4	DECIMAL	2	CNPR$01	Version number for $01 cleanup
1	HEX	80	CNPRXNAM	Entry point specified by name
1	HEX	20	CNPRXADD	Entry point specified as an address
1	HEX	00	CNPRXNOP	Ignore this exit entry
1	HEX	80	CNPRTXTX	ID for Post Scan Text Exit
1	HEX	09	CNPRUJVX	IEFUJV with environment information

IEFCNPRM Cross Reference

Name	Hex Offset	Hex Value
CNPRACBS	1C	
CNPRACCT	3E	02
CNPRACRO	0	
CNPRASID	66	
CNPRAUTH	50	
CNPRCMDS	4E	
CNPRCONS	14	
CNPRDIF	64	20
CNPRDINC	64	10
CNPRDJLI	64	40
CNPRENV	8	
CNPREXAD	C	
CNPREXEP	A	
CNPREXID	9	
CNPREXIT	0	
CNPREXTP	60	
CNPRHDR	0	
CNPRJBFL	19	
CNPRJCL	24	
CNPRJCLI	19	08
CNPRJDVT	58	
CNPRJMR	2C	
CNPRJPTY	3F	
CNPRLABL	4F	
CNPRLKID	8	
CNPRLNTH	6	
CNPRM	0	
CNPRMCLS	56	
CNPRMERG	64	04
CNPRMIN	41	
CNPRMLV1	54	
CNPRMLV2	55	
CNPRMSG	20	
CNPRMSGL	54	
CNPRNEW	18	08
CNPRNOWT	18	20
CNPROPTS	18	
CNPROPT1	64	
CNPRPARM	3E	
CNPRPGMN	3E	01
CNPRPROC	30	
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	
CNPRTERM	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

IEFDELT Programming Interface information

Programming Interface information

IEFDELT

End of Programming Interface information

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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: 32 byte header + (number of entries * 32 bytes/entry)
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)	DBL WORD	8	(0)	Align on double word
0	(0)	BITSTRING	32	ELT_HEADER (0)	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)	BITSTRING	1	ELT_FLAGS	Flags
		1...		ELT_EDTVAL	"X'80'" EDT for this ELT exists
Comment					
EQU X'7F' Reserved					
End of Comment					
7	(7)	BITSTRING	1		Reserved
8	(8)	BITSTRING	4	ELT_LENGTH	Total length of ELT (ELT header + ELT entries)
12	(C)	BITSTRING	4	ELT_COUNT	Count of valid latch entries
16	(10)	BITSTRING	4	ELT_BINDS	Total number of binds on EDT
20	(14)	BITSTRING	12		Reserved
32	(20)	BITSTRING	32	ELT_ENTRY (0)	ELT entry
32	(20)	BITSTRING	2	ELT_ASID	Asid where latch exists
34	(22)	BITSTRING	2		Reserved
36	(24)	CHARACTER	8	ELT_JOBNAME	Jobname holding latch
44	(2C)	CHARACTER	20		Reserved
Comment					
Constants					
End of Comment					
44	(2C)	X'D3E340'	0	ELT_ELT	"C'ELT '" ELT control block ID
44	(2C)	X'1'	0	ELT_VER	"1" ELT control block version number
44	(2C)	X'1'	0	ELT_CUR_VER	"1" Current ELT version number
44	(2C)	X'E6'	0	ELT_SPN	"230" ELT subpool number

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
44	(2C)	X'F'	0	ELT_MAX_ENT	"15" Maximum of 15 latch entries

IEFDELT Cross Reference

Name	Hex Offset	Hex Value
ELT	0	
ELT_ASID	20	
ELT_BINDS	10	
ELT_COUNT	C	
ELT_CUR_VER	2C	1
ELT_EDTVAL	6	80
ELT_ELT	2C	D3E340
ELT_ENTRY	20	
ELT_FLAGS	6	
ELT_HEADER	0	
ELT_ID	0	
ELT_JOBNAME	24	
ELT_LENGTH	8	
ELT_MAX_ENT	2C	F
ELT_SPN	2C	E6
ELT_SUBPOOL	5	
ELT_VER	2C	1
ELT_VERSION	4	

IEFDISMP Programming Interface information

Programming Interface information

IEFDISMP

End of Programming Interface information

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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: DVAR_HDR_LEN +
(number concatenated DDs * DVAR_DEVLST_ADDRENT_LEN) +
(number concatenated DDs * DVAR_DEVLST_HDR_LEN) +
(total number of devices * DVAR_DEVENT_LEN)
Created by: IEFDIS01
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 an IEFDDSRV RETRIEVE DEVENTRY request

IEFDISMP Map

Offsets Dec	Offsets 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	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	DVAR_DEVICE_LIST	Device list
0	(0)	X'0'	0	DVAR_LIST_HEADER	

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

Comment

Constants

End of Comment

4	(4)	X'8'	0	DVAR_HDR_LEN	"DVAR_HEADER_END-DVAR_HEADER" Length of the device area header
4	(4)	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

IEFDISMP Cross Reference

Name	Hex Offset	Hex Value
DVAR	0	
DVAR_DEV_ADDR	4	
DVAR_DEVENT_LEN	0	4
DVAR_DEVICE_LIST	0	
DVAR_DEVLST_ADDR	8	
DVAR_DEVLST_ADDR_ENTRY	4	8
DVAR_DEVLST_ADDR_ENTRY_END	8	C
DVAR_DEVLST_ADDRENT_LEN	4	4
DVAR_DEVLST_HDR_LEN	0	4
DVAR_ENTRY_END	4	8
DVAR_HDR_LEN	4	8
DVAR_HEADER	0	0
DVAR_HEADER_END	4	8
DVAR_LENGTH	1	
DVAR_LIST_ENTRY	0	4
DVAR_LIST_HEADER	0	0
DVAR_LIST_HEADER_END	0	4
DVAR_NUM_DVENT	0	
DVAR_NUM_DVLIST	4	
DVAR_SUBPOOL	0	

IEFDISRC Programming Interface information

Programming Interface information

IEFDISRC

End of Programming Interface information

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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	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0		
0	(0)	X'0'	0	DDSRV_SUCCESS	"0" X'000' IEFDDSRV completed successfully
0	(0)	X'0'	0	DDSRV_FUNCTION_COMPLETE	"0" X'000' Function completed
0	(0)	X'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

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

Comment

RETURN CODE DDSRV_REQUEST_FAIL (decimal)

End of Comment

0	(0)	X'4'	0	DDSRV_INVALID_DDNAME	

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

IEFDISRC Cross Reference

Name	Hex Offset	Hex Value
DDSRV_BAD_PARM		
	0	18
DDSRV_BLANK_DDNAME		
	0	4
DDSRV_FUNCTION_COMPLETE		
	0	0
DDSRV_INVALID_DDNAME		
	0	4
DDSRV_INVALID_DSAB		
	0	8
DDSRV_INVALID_PARAMETERS		
	0	8
DDSRV_INVALID_SUBPOOL		
	0	10
DDSRV_INVALID_TCB		
	0	14
DDSRV_LOCK_FAIL		
	0	10
DDSRV_RCVENT	0	10
DDSRV_REQUEST_FAIL		
	0	C
DDSRV_RSN_OK	0	0
DDSRV_SUCCESS		
	0	0
DDSRV_TIOTENQ_FAIL		
	0	C
DDSRV_ZERO_ACB		
	0	14
DDSRV_ZERO_DCB		
	0	C
DDSRV_ZERO_DSAB		
	0	8

IEFDOKEY Programming Interface information

Programming Interface information

IEFDOKEY

End of Programming Interface information

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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. .111		DOADDRES	"X'0027'" ADDRESS
		.1.. 1...		DOAFPST	"X'0048'" AFPSTATS
		..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)
0	(0)	BITSTRING	0	DODATACK	"X'2022'" DATACK
		.... 1.11		DODEFAUL	"X'000B'" DEFAULT
		..1. 1..1		DODEPT	"X'0029'" DEPT
		.... 11..		DODEST	"X'000C'" DEST
		..1. ..11		DODPAGEL	"X'0023'" DPAGELBL
		..11 11.1		DODUPLEX	"X'003D'" DUPLEX
		.... 11.1		DOFCB	"X'000D'" FCB
		.... 111.		DOFLASE	"X'000E'" FLASH (overlay name)
		 1111		DOFLASF	"X'000F'" FLASH (count)
		...1 11.1		DOFORMD	"X'001D'" FORMDEF
		..11 1.11		DOFORMLN	"X'003B'" FORMLEN
		...1		DOFORMS	"X'0010'" FORMS
		.1.. .111		DOFSSDAT	"X'0047'" FSSDATA
		...1 ...1		DOGROUPI	"X'0011'" GROUPID
		...1 ..1.		DOINDEX	"X'0012'" INDEX
		..11 111.		DOINTRAY	"X'003E'" INTRAY
		...1 .1..		DOLINDEX	"X'0014'" LINDEX
		...1 .1.1		DOLINECT	"X'0015'" LINECT

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		...1 .11.		DOMODIF6	"X'0016'" MODIFY (module name)
		...1 .111		DOMODIF7	"X'0017'" MODIFY (TRC)
		..1. 11.1		DONAME	"X'002D'" NAME
		..1. 1111		DONOTIFY	"X'002F'" NOTIFY
		.1.. ..11		DOXOFSTB	"X'0043'" OFFSETXB
		.1.. ...1		DOXOFSTF	"X'0041'" OFFSETXF
		.1.. .1..		DOYOFSTB	"X'0044'" OFFSETYB
		.1.. ..1.		DOYOFSTF	"X'0042'" OFFSETYF
0	(0)	BITSTRING	0	DOOUTBIN	"X'2023'" OUTBIN
		..1. 1.11		DOOUTDB	"X'002B'" OUTDISP - NORMAL
		..1. 11..		DOOUTDC	"X'002C'" OUTDISP - ABNORMAL
		..11 ..11		DOOVFL	"X'0033'" OVERFLOW
		.1..		DOOVRLYB	"X'0040'" OVERLAYB
		..11 1111		DOOVRLYF	"X'003F'" OVERLAYF
		...1 1111		DOPAGEDE	"X'001F'" PAGEDEF
		..1. ...1		DOPIMSG	"X'0021'" PIMSG
		.1.. .1.1		DOPORTNO	"X'0045'" PORTNO
		...1 1...		DOPRMODE	"X'0018'" PRMODE
		..11 1..1		DOPROPTN	"X'0039'" PRTOPTNS
		..11 11..		DOPRTERR	"X'003C'" PRTERROR
		..11 1...		DOPRTQUE	"X'0038'" PRTQUEUE
		...1 1..1		DOPRTY	"X'0019'" PRTY
		.1.. .11.		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 1.11		DOUCS	"X'001B'" UCS
		..11 ...1		DOUSERDA	"X'0031'" USERDATA
		..1. 111.		DOUSERLI	"X'002E'" USERLIB
		...1 11..		DOWRITER	"X'001C'" WRITER

IEFDOKEY Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
DOADDRES	0	27	DOFLASF	0	F
DOAFPST	0	48	DOFORMD	0	1D
DOBUILD	0	28	DOFORMLN	0	3B
DOBURST	0	1	DOFORMS	0	10
DOCHARS	0	2	DOFSSDAT	0	47
DOCKPTLI	0	3	DOGROUPI	0	11
DOCKPTPA	0	4	DOINDEX	0	12
DOCKPTSE	0	5	DOINTRAY	0	3E
DOCLASS	0	6	DOLINDEX	0	14
DOCOLORM	0	3A	DOLINECT	0	15
DOCOMPAC	0	7	DOMODIF6	0	16
DOCOMSET	0	32	DOMODIF7	0	17
DOCONTRO	0	8	DONAME	0	2D
DOCOPIEA	0	A	DONOTIFY	0	2F
DOCOPIE9	0	9	DOOUTBIN	0	2023
DODATACK	0	2022	DOOUTDB	0	2B
DODEFAUL	0	B	DOOUTDC	0	2C
DODEPT	0	29	DOOVFL	0	33
DODEST	0	C	DOOVRLYB	0	40
DODPAGEL	0	23	DOOVRLYF	0	3F
DODUPLEX	0	3D	DOPAGEDE	0	1F
DOFCB	0	D	DOPIMSG	0	21
DOFLASE	0	E	DOPORTNO	0	45

IEFDOKEY Cross Reference

Name	Hex Offset	Hex Value
DOPRMODE	0	18
DOPROPTN	0	39
DOPRTERR	0	3C
DOPRTQUE	0	38
DOPRTY	0	19
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
DOWRITER	0	1C
DOXOFSTB	0	43
DOXOFSTF	0	41
DOYOFSTB	0	44
DOYOFSTF	0	42

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

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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	Offsets 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

End of Comment

0	(0)	X'0'	0	DORCNOER	"0" X'000' Processing successful

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

End of Comment

0	(0)	X'300'	0	DORCIVCH	"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	DORCNFCH	"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

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					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.
					End of Comment
0	(0)	X'380'	0	DORCLNIV	"896" X'380' Invalid parameter length in DOCNLEN
0	(0)	X'381'	0	DORCNZF1	"897" X'381' Unused DOCNFNC1 bits not zero
0	(0)	X'382'	0	DORCNZF2	"898" X'382' Unused DOCNFNC2 bits not zero
0	(0)	X'383'	0	DORCNZR1	"899" X'383' Reserved field DOCNRSV1 not zero
0	(0)	X'384'	0	DORCNZR2	"900" X'384' Reserved field DOCNRSV2 not zero
0	(0)	X'385'	0	DORCIVID	"901" X'385' Invalid parameter list identifier in DOCNID
0	(0)	X'386'	0	DORCIVVR	"902" X'386' Invalid parameter list version in DOCNVERS
0	(0)	X'387'	0	DORCNOFN	"903" X'387' No function (i.e. add or delete) requested
0	(0)	X'388'	0	DORCIVFN	"904" X'388' More than one function (i.e. add and delete) requested
0	(0)	X'389'	0	DORCIVTP	"905" X'389' Text unit pointer (DOCNTXTP) specified for a delete request
0	(0)	X'38A'	0	DORCIVEQ	"906" X'38A' Conditional enqueue (DOCNCENQ) specified for a delete request
0	(0)	X'38B'	0	DORCIVNM	"907" X'38B' Invalid descriptor name (DOCNNAME)
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 DOCNREUS 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 environ- ment
0	(0)	X'405'	0	DORCNENQ	"1029" X'405' ENQueue resource unavailable at this time
0	(0)	X'406'	0	DORCNONM	"1030" X'406' No more system generated names can be created, the maximum number allowed are in use
0	(0)	X'407'	0	DORCGET2	"1031" X'407' GETMAIN unsuccessful in SJF
0	(0)	X'408'	0	DORCALTT	"1032" X'408' Caller's text units were altered by another task during dynamic output processing
0	(0)	X'409'	0	DORCALTP	"1033" X'409' Caller's text unit pointers were altered by another task during dynamic output processing

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

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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
DOENVERR	0	4
DOINVPRM	0	C
DONOERRS	0	0
DORCABNA	0	A
DORCABNB	0	B
DORCABNC	0	C
DORCABND	0	700
DORCABN1	0	1
DORCABN2	0	2
DORCABN3	0	3
DORCABN4	0	4
DORCABN5	0	5
DORCABN6	0	6
DORCABN7	0	7
DORCABN8	0	8
DORCABN9	0	9
DORCAB12	0	12
DORCAB13	0	13
DORCAB14	0	14
DORCAB15	0	15
DORCALTP	0	409
DORCALTT	0	408
DORCBTCH	0	403
DORCDUPK	0	30E
DORCESTA	0	404
DORCEXST	0	401
DORCGET1	0	400
DORCGET2	0	407
DORCGMAX	0	301
DORCIBIT	0	314
DORCINKE	0	503
DORCINRC	0	501
DORCINRT	0	502
DORCINST	0	500
DORCISEQ	0	313
DORCIVCH	0	300
DORCIVDZ	0	38D
DORCIVEQ	0	38A
DORCIVFN	0	388
DORCIVHB	0	38E
DORCIVID	0	385
DORCIVKY	0	30F
DORCIVLN	0	30C
DORCIVNM	0	38B
DORCIVNP	0	30B
DORCIVRZ	0	38C
DORCIVTP	0	389
DORCIVTU	0	38F
DORCIVTX	0	312
DORCIVVR	0	386
DORCLMIN	0	302
DORCLNIV	0	380
DORCMTUP	0	311
DORCNDES	0	402
DORCNENQ	0	405
DORCNFCH	0	308
DORCNKEY	0	30D
DORCNLIV	0	30A
DORCNLLN	0	306
DORCNLNM	0	307
DORCNNUM	0	303
DORCNOCH	0	309
DORCNOER	0	0
DORCNOFN	0	387
DORCNONM	0	406
DORCNSLE	0	310
DORCNZF1	0	381
DORCNZF2	0	382
DORCNZR0	0	391
DORCNZR1	0	383
DORCNZR2	0	384
DORCONEU	0	392
DORCP0C4	0	390
DORCREON	0	394
DORCREUS	0	393
DORCSJAB	0	701
DORCXABD	0	702
DORCZKEY	0	504
DOREQDNY	0	8
DOSYSERR	0	10

IEFDOTUM Programming Interface Information

Programming Interface Information

IEFDOTUM

End of Programming Interface Information

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IEFDOTUM Heading Information

Common Name: Dynamic Output Text Unit Mappings
Macro ID: IEFDOTUM
DSECT Name: DOCNTLST, DOCNUNIT, DOCNTFLD
Owning Component: Dynamic Output (BB131)
Eye-Catcher ID: None
Storage Attributes: Subpool: Any
Key: Caller's key
Residency: Any
Size: 1st section: 4 bytes
2nd section: 31 bytes
3rd section: 6 bytes plus a variable-length field at offset 6
4th section: 2 bytes plus a variable-length field at offset 2
Created by: User of dynamic output services
Pointed to by: The OUTADD macro, DOCNP
Serialization: None
Function: Maps the text units and text unit pointer structures for Dynamic OUTPUT.

IEFDOTUM 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	DOCNUNIT	Text unit mapping
0	(0)	BITSTRING	2	DOCNTKEY	Key
2	(2)	BITSTRING	2	DOCNTNUM	Number of length/parameter pairs
4	(4)	CHARACTER	1	DOCNTENT (0)	
4	(4)	BITSTRING	2	DOCNTLTH	Length of first or only parameter
6	(6)	CHARACTER	1	DOCNTPAR	First or only parameter

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	
DOCNUNIT	0	

IEFENF40 Programming Interface information

Programming Interface information

IEFENF40

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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_SSNM	Actual name of subsystem
20	(14)	CHARACTER	8	ENF40_CNAM	Common name of subsystem
28	(1C)	CHARACTER	8		Reserved
28	(1C)	X'24'	0	ENF40_SIZE	"*-ENF40" Length of ENF40 parameter area
28	(1C)	X'1'	0	ENF40_CVER	"1" Current version
		....		ENF40_INIT	"X'80000000'" Job entry subsystem has initialized qualifier
		....		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_SSNM	10	
ENF40_TERM	1C	0
ENF40_VERSION	6	

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 listen 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	
6	(6)	UNSIGNED	2	ENFSC_LEN	
8	(8)	UNSIGNED	1	ENFSC_VERS	
9	(9)	BITSTRING	1	ENFSC_FLAGS	
		1...		ENFSC_FREEPRM_CODED	
		.111 1111		ENFSC_RSV1	
10	(A)	UNSIGNED	1	ENFSC_SUBPOOL	
11	(B)	UNSIGNED	1	ENFSC_KEY	
12	(C)	CHARACTER	4	ENFSC_EVENT_CODE	
16	(10)	SIGNED	4	ENFSC_USE_COUNT	
20	(14)	ADDRESS	4	ENFSC_SIGP_ADDR	
24	(18)	SIGNED	4	ENFSC_SIGP_LENGTH	
28	(1C)	UNSIGNED	1	ENFSC_SIGP_SUBPOOL	
29	(1D)	UNSIGNED	1	ENFSC_SIGP_KEY	
30	(1E)	CHARACTER	2	*	
32	(20)	ADDRESS	4	ENFSC_ENSG_ADDR	
36	(24)	CHARACTER	4	*	

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IEFENFSC Constants

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

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	

IEFENFSG Programming Interface information

Programming Interface information

IEFENFSG

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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: ENSG
Offset: 0
Length: 4 bytes
Storage Attributes: Main Storage: No
Virtual Storage: Yes
Auxiliary Storage: Yes
Subpool: 0, 229, 241, or 255
Key: 0
Data Space: No
Residency: ANY
Size: 76 bytes (decimal)
Created by: IEFENFNM
Pointed to by: Fifth word of the address list pointed to by register 1 on entry to an ENF listen exit
Serialization: None
Function: Maps signal information provided to ENF listeners by ENF

IEFENFSG 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)

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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 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)
FREQUENCY = One per SRB scheduled from IEFENFNM
Created by: IEFENFNM
Pointed to by: SRBPARM in IEFENFNM and IEFENFSR
Serialization: None
Function: Parameter list passed from IEFENFNM to the ENF SRB Routine (IEFEFNSR).

IEFENFSP 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

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IEFEVARY Programming Interface information

Programming Interface information

IEFEVARY

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

- EVACSCB

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IEFEVARY Heading Information

Common Name: VARY PARAMETER LIST
Macro ID: IEFEVARY
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	EVAVOLID	VOLUME SERIAL
22	(16)	CHARACTER	2	EVARSV11	RESERVED
24	(18)	CHARACTER	4	EVACONSO	CONSOLE ID
28	(1C)	CHARACTER	8	EVACART	CART
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
EVACART	1C	
EVACONSO	18	
EVACSCB	C	
EVADEVC	9	20
EVAFLGS	9	
EVAFORCE	9	2
EVAFRSV3	9	1
EVAFUNC	8	
EVALEN	A	
EVALLEN	24	38
EVAOFLI	9	40
EVAONLI	9	80
EVAPND	9	4
EVARSV1	7	
EVARSV10	8	4
EVARSV11	16	
EVARSV12	24	
EVARSV4	4	
EVARSV5	6	
EVARSV8	8	1
EVARSV9	8	3
EVARY	0	
EVASCHG	9	8
EVAUCBA	0	
EVAVALID	9	10
EVAVARY	8	2
EVAVOLID	10	

IEFJFRQP Programming Interface information

Programming Interface information

IEFJFRQP

End of Programming Interface information

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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	

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

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

IEFJFRQP Cross Reference

Name	Hex Offset	Hex Value
FRQP	0	
FRQP_BCST_RQST	10	80
FRQP_CORRELATION_TOKEN	18	
FRQP_CURRENT_SSI_RETCODE	14	
FRQP_DYNAREA_LAST	4	80
FRQP_DYNAREA@	4	
FRQP_DYNSIZE	4	200
FRQP_END	24	28
FRQP_HEADER	0	
FRQP_INPUT	C	
FRQP_INPUT_FLAGS	10	
FRQP_INPUT_FLAG1	10	
FRQP_INPUT_FLAG2	11	
FRQP_INTERRUPT	4	8
FRQP_LEN	4	28
FRQP_LOJ_SSIB	10	20
FRQP_PLIST_AREA	0	
FRQP_PLIST@	0	
FRQP_PRE_RQST	10	40
FRQP_PROCEED	4	0
FRQP_SSOB@	C	
FRQP_STOP_EXIT_ROUTINE_CALLS	4	18
FRQP_SUPPRESS	4	4
FRQP_SYSPLEX_ID	20	
FRQP_SYSTEM_TOKEN	18	
FRQPCID	4	D9D8D7
FRQPCVER	4	1
FRQPID	0	
FRQPLEN	6	
FRQPVERS	4	
FRQPVER1	4	1

IEFJSBVT Heading Information

Common Name: Function Routine Input Table Mapping
Macro ID: IEFJSBVT
DSECT Name: JSBVT (fixed header), JSBTBL (function routine area), JSBFCODG (function code area)
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	JSBFCODG	ONE FOR EACH FUNCTION CODE
0	(0)	SIGNED	2	JSBFCOD	THE FUNCTION CODE
0	(0)	X'2'	0	JSBCDLGT	"*-JSBFCODG" SIZE OF FUNCTION CODE
0	(0)	X'1'	0	JSBCVERS	"1" CURRENT VERSION OF MAPPING

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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 Programming Interface information

Programming Interface information

IEFJSQRY

End of Programming Interface information

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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)	CHARACTER	8		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 (0)	Subsystem flags
12	(C)	BITSTRING	0	JQRY_PRIMARY	"X'8000'" Subsystem is the primary subsystem

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
12	(C)	BITSTRING	0	JQRY_DYNAMIC	"X'4000'" Subsystem is dynamic
12	(C)	BITSTRING	0	JQRY_DYNSSI_COMMANDS	"X'2000'" Subsystem responds to the SETSSI command. Valid only if JQRY_DYNAMIC set.
12	(C)	BITSTRING	0	JQRY_ACTIVE	"X'1000'" Subsystem is active
		1		JQRY_INCOMPLETE	"X'0001'" Data for this subsystem may be incomplete
12	(C)	CHARACTER	1	JQRY_STATUS1	Subsystem flags - byte 1
		1...		JQRY_PRIMARY1	"X'80'" Subsystem is the primary subsystem
		.1..		JQRY_DYNAMIC1	"X'40'" Subsystem is dynamic
		..1.		JQRY_DYNSSI_COMMANDS1	"X'20'" Subsystem responds to the SETSSI command. Valid only if JQRY_DYNAMIC1 set.
		...1		JQRY_ACTIVE1	"X'10'" Subsystem is active
13	(D)	CHARACTER	1	JQRY_STATUS2	Subsystem flags - byte 2
		1		JQRY_INCOMPLETE2	"X'01'" Data for this subsystem may be incomplete
14	(E)	SIGNED	2	JQRY_NUM_VT	Number of vector tables associated with this subsystem
14	(E)	X'10'	0	JQRY_VT_LIST	"*" List of associated vector tables (space for description of two vector tables)

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

End of Comment

44	(2C)	X'D8D9E8'	0	JQRYCID	"C'JQRY'" Control block ID value
44	(2C)	X'1'	0	JQRYVER1	"1" First version of IEFJSQRY
44	(2C)	X'1'	0	JQRYCVER	"JQRYVER1" Current version of IEFJSQRY
44	(2C)	X'34'	0	JQRY_VT_LEN	"JQRY_VT_END-JQRY_VT_ENTRY" Length of data for one vector table
44	(2C)	X'78'	0	JQRY_SUBSYS_LEN	"JQRY_VT_LIST-JQRY_SUBSYS_ENTRY+(2*JQRY_VT_LEN)" Length of data for one subsystem
44	(2C)	X'10'	0	JQRY_HEADER_LEN	

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					"JQRY_SUBSYS_DATA-JQRY_HEADER" Length of JQRY_HEADER section

IEFJSQRY Cross Reference

Name	Hex Offset	Hex Value
JQRY_ACTIVE	C	1000
JQRY_ACTIVE1	C	10
JQRY_DYNAMIC	C	4000
JQRY_DYNAMIC1	C	40
JQRY_DYNSSI_COMMANDS	C	2000
JQRY_DYNSSI_COMMANDS1	C	20
JQRY_HEADER	0	
JQRY_HEADER_LEN	2C	10
JQRY_INCOMPLETE	C	1
JQRY_INCOMPLETE2	D	1
JQRY_NUM_SUBSYS	C	
JQRY_NUM_VT	E	
JQRY_PRIMARY	C	8000
JQRY_PRIMARY1	C	80
JQRY_STATUS	C	
JQRY_STATUS1	C	
JQRY_STATUS2	D	
JQRY_SUBSYS_DATA	C	10
JQRY_SUBSYS_ENTRY	0	
JQRY_SUBSYS_LEN	2C	78
JQRY_SUBSYS_NAME	0	
JQRY_VT_ACTIVE	4	80
JQRY_VT_END	2C	34
JQRY_VT_ENTRY	0	
JQRY_VT_FLAGS	4	
JQRY_VT_FUNC_CODES	C	
JQRY_VT_FUNC_LIST	C	
JQRY_VT_LEN	2C	34
JQRY_VT_LIST	E	10
JQRY_VT_LOC	0	
JQRY_VT_SSI_MANAGED	4	40
JQRYCID	2C	D8D9E8
JQRYCVER	2C	1
JQRYID	0	
JQRYLEN	8	
JQRYVERS	4	
JQRYVER1	2C	1

IEFJSRC Programming Interface information

Programming Interface information

IEFJSRC

End of Programming Interface information

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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
```

End of Comment

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

Comment

```
RETURN CODE IEFSSI_WARNING
   ADD REQUEST WARNINGS (100 - 199)
   ACTIVATE REQUEST WARNINGS (200 - 299)
   DEACTIVATE REQUEST WARNINGS (300 - 399)
```

End of Comment

0	(0)	X'12C'	0	IEFSSI_DEACT_INACTIVE	
					"300" X'12C' Subsystem already inactive

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

End of Comment

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.

Comment

OPTIONS REQUEST WARNINGS (600 - 699)
PUT REQUEST WARNINGS (700 - 799)
GET REQUEST WARNINGS (800 - 899)
QUERY REQUEST WARNINGS (900 - 999)

End of Comment

0	(0)	X'384'	0	IEFSSI_QUERY_INCOMPLETE	"900" X'384' Data returned by query may be incomplete. Check the JQRY_INCOMPLETE flag for each subsystem queried.

Comment

RETURN CODE IEFSSI_INVALID_PARAMETERS

End of Comment

0	(0)	X'0'	0	IEFSSI_SUBSYSTEM_UNKNOWN	"0" X'000' Subsystem not defined to SSI
0	(0)	X'4'	0	IEFSSI_NON_DYNAMIC	"4" X'004' Subsystem not dynamic
0	(0)	X'8'	0	IEFSSI_BAD_VT_TOKEN	"8" X'008' Vector table token does not correspond to a valid vector table
0	(0)	X'C'	0	IEFSSI_INVALID_NAME	"12" X'00C' Subsystem or routine name contains invalid characters
0	(0)	X'10'	0	IEFSSI_INIT_PARMS	"16" X'010' Initialization routine parameter string too long

Comment

RETURN CODE IEFSSI_REQUEST_FAIL
ADD REQUEST ERRORS (100 - 199)

End of Comment

0	(0)	X'64'	0	IEFSSI_DUPLICATE_SUBSYSTEM	"100" X'064' Subsystem already exists
0	(0)	X'65'	0	IEFSSI_INITRTN_NOT_FOUND	"101" X'065' Initialization routine could not be found
0	(0)	X'66'	0	IEFSSI_INITRTN_ABEND	"102" X'066' Initialization routine ABENDed
0	(0)	X'67'	0	IEFSSI_ADD_STORAGE	"103" X'067' Unable to obtain storage for subsystem definition

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
				Comment	
				ACTIVATE REQUEST ERRORS (200 - 299)	
				End of Comment	
0	(0)	X'C8'	0	IEFSSI_SUBSYSTEM_ACTIVE	"200" X'0C8' Subsystem already active
0	(0)	X'C9'	0	IEFSSI_ACT_NO_ELIGIBLE_VT	"201" X'0C9' Subsystem vector table not specified and no valid defaults available
				Comment	
				DEACTIVATE REQUEST ERRORS (300 - 399) SWAP REQUEST ERRORS (500 - 599)	
				End of Comment	
0	(0)	X'1F4'	0	IEFSSI_SWAP_NO_ELIGIBLE_VT	"500" X'1F4' Subsystem vector table not specified and no valid defaults available
0	(0)	X'1F6'	0	IEFSSI_SWAP_ALREADY_ACTIVE	"502" X'1F6' Vector table to be made active (specified by INTOKEN) is already active
				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	

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
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	"101" X'065' Unable to obtain storage for vector table
0	(0)	X'66'	0	IEFSSVT_MAXENTRIES_TOO_SMALL	"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)

End of Comment

0	(0)	X'C8'	0	IEFSSVT_ENABLE_NO_ELIGIBLE_VT	"200" X'0C8' Subsystem vector table not specified and no valid defaults available
0	(0)	X'C9'	0	IEFSSVT_ENABLE_MAX_ROUTINES	"201" X'0C9' No room for new function routines in vector table
0	(0)	X'CA'	0	IEFSSVT_FUNCTION_ALREADY_ENABLED	"202" X'0CA' The subsystem already responds to one of the codes for which the enable request was submitted

IEFJSRC Cross Reference

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
				Comment	
		DISABLE REQUEST ERRORS (300 - 399)			
				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)			
				End of Comment	
0	(0)	X'1F4'	0	IEFSSVT_EXCHANGE_NO_ELIGIBLE_VT	"500" X'1F4' Subsystem vector table not specified and no valid defaults available
0	(0)	X'1F5'	0	IEFSSVT_EXCHANGE_MAX_ROUTINES	"501" X'1F5' No room for new function routines in vector table

IEFJSRC Cross Reference

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

Name	Hex Offset	Hex Value
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 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
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	Beginnig indicator
0	(0)	CHARACTER	176	SIOTX_SIOT	SIOT related information
0	(0)	ADDRESS	4	*	Reserved for pointer to a new

Comment

Extension (if ever needed)

End of Comment

4	(4)	ADDRESS	4	*	Reserved for SVA of a new

Comment

Extension (if ever needed)

End of Comment

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

Comment

affed-to DD (UNIT=AFF=DDx) Used by: IEFAB457, IEFSJACC

End of Comment

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IEFSIOTX Cross Reference

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

Comment

Set by: IEFVDA

End of Comment

12	(C)	ADDRESS	4	*	Always zero
16	(10)	ADDRESS	4	SIOTX_UNAFF_PTR	Address of affed-to DD

Comment

Used by: IEFAB457

End of Comment

20	(14)	CHARACTER	156	*	Reserved for future use
176	(B0)	CHARACTER	176	SIOTX_JFCB	JFCB related information
176	(B0)	CHARACTER	8	SIOTX_BLOCKSIZE	Blocksize
184	(B8)	CHARACTER	8	SIOTX_BLKSZLIM	Blocksize Limit
192	(C0)	CHARACTER	4	SIOTX_MASK_WORD1	Mask Word #1
192	(C0)	BITSTRING	1	SIOTX_MASK_BYTE1	Mask Byte #1
		1...		SIOTX_MSKBSLM	Mask bit for BLKSZLIM
		.111 1111		*	Reserved
193	(C1)	BITSTRING	1	SIOTX_MASK_BYTE2	Mask Byte #2
194	(C2)	BITSTRING	1	SIOTX_MASK_BYTE3	Mask Byte #3
195	(C3)	BITSTRING	1	SIOTX_MASK_BYTE4	Mask Byte #4
196	(C4)	CHARACTER	156	*	Reserved for future use

IEFSIOTX Cross Reference

Name	Hex Offset	Hex Value
INXMSIOX	0	
SIOTX	0	
SIOTX_BLKSZLIM	B8	
SIOTX_BLOCKSIZE	B0	
SIOTX_JFCB	B0	
SIOTX_MASK_BYTE1	C0	
SIOTX_MASK_BYTE2	C1	
SIOTX_MASK_BYTE3	C2	
SIOTX_MASK_BYTE4	C3	
SIOTX_MASK_WORD1	C0	
SIOTX_MSKBSLM	C0	80
SIOTX_SIOT	0	
SIOTX_UNAFF_PTR	10	
SIOTX_UNAFF_SVA	9	
SIOTX_UNAFF_SVA_WORD	8	
SIOTX_UNAFF_TOKEN	8	

IEFSJDKY Programming Interface information

Programming Interface information

IEFSJDKY

INCLUDE ONLY

End of Programming Interface information

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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	Offsets 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...		SJVLROKS	"X'80'" KS - Key sequence
		.1..		SJVLROES	"X'40'" ES - Entry sequence
		..1.		SJVLRORR	"X'20'" RR - Relative record
		...1		SJVLROLS	"X'10'" LS - Linear space
0	(0)	BITSTRING	0	SJKYKEYO	"X'800C'" KEYOFF
0	(0)	BITSTRING	0	SJKYREFD	"X'800D'" REFDD
0	(0)	BITSTRING	0	SJKYSECM	"X'800E'" SECMODEL

Comment

Value for GENERIC option of SECMODEL (parameter #2)

End of Comment

		1...		SJVLGENR	"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...		SJVLARUN	"X'80'" U - units (ie times 1)
		.1..		SJVLARKI	"X'40'" K - kilo (ie times 1000)
		..1.		SJVLARME	"X'20'" M - Mega (ie times 1 million)
0	(0)	BITSTRING	0	SJKYDSNT	"X'8012'" DSNTYPE

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
				Comment	
Values for DSNTYPE keyword					
				End of Comment	
		1...		SJVLDTLI	"X'80'" LIBRARY
		.1..		SJVLDTPD	"X'40'" PDS
		..1.		SJVLPIPE	"X'20'" PIPE
		...1		SJVLHFSI	"X'10'" HFS
0	(0)	BITSTRING	0	SJKYSPIN	"X'8013'" SPIN
				Comment	
Values for SPIN keyword					
				End of Comment	
		1...		SJVLSPUN	"X'80'" UNALLOC
		.1..		SJVLSPNO	"X'40'" NO
0	(0)	BITSTRING	0	SJKYSEGM	"X'8014'" SEGMENT
0	(0)	BITSTRING	0	SJKYPATH	"X'8017'" PATH
0	(0)	BITSTRING	0	SJKYPOPT	"X'8018'" PATHOPTS
				Comment	
Values for PATHOPTS keyword					
				End of Comment	
0	(0)	BITSTRING	0	SJVLSYNC	"X'00000100'" OSYNC
		11..		SJVLCEXL	"X'000000C0'" OCREXCL
		1...		SJVLCREA	"X'00000080'" OCREAT
		.1..		SJVLEXCL	"X'00000040'" OEXCL
		..1.		SJVLNOCT	"X'00000020'" ONOCTTY
		...1		SJVLTRUN	"X'00000010'" OTRUNC
		.... 1...		SJVLAPPE	"X'00000008'" OAPPEND
		.... .1..		SJVLNBLK	"X'00000004'" ONONBLOCK
		11		SJVLRDWR	"X'00000003'" ORDWR
		.... ..1.		SJVLRDON	"X'00000002'" ORDONLY
		1		SJVLWDON	"X'00000001'" OWRONLY
0	(0)	BITSTRING	0	SJKYPMDE	"X'8019'" PATHMODE
				Comment	
Values for PATHMODE keyword					
				End of Comment	
0	(0)	BITSTRING	0	SJVLSUID	"X'00000800'" SISUID
0	(0)	BITSTRING	0	SJVLSGID	"X'00000400'" SISGID
0	(0)	BITSTRING	0	SJVLRUSR	"X'00000100'" SIRUSR
		1...		SJVLWUSR	"X'00000080'" SIWUSR
		.1..		SJVLXUSR	"X'00000040'" SIXUSR
0	(0)	BITSTRING	0	SJVLRWXU	"X'000001C0'" SIRWXU
		..1.		SJVLRGRP	"X'00000020'" SIRGRP
		...1		SJVLWGRP	"X'00000010'" SIWGRP
		.... 1...		SJVLXGRP	"X'00000008'" SIXGRP
		..11 1...		SJVLRWXG	"X'00000038'" SIRWXG
		.... .1..		SJVLROTH	"X'00000004'" SIROTH
		.... ..1.		SJVLWOTH	"X'00000002'" SIWOTH
		1		SJVLXOTH	"X'00000001'" SIXOTH
		.... .111		SJVLRWXO	"X'00000007'" SIRWXO
0	(0)	BITSTRING	0	SJKYPNDS	"X'801A'" PATHDISP - Normal Disposition
0	(0)	BITSTRING	0	SJKYPCDS	"X'801B'" PATHDISP - Conditional Disposition

IEFSJDKY Cross Reference

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
				Comment	
Values for PATHDISP keyword					
				End of Comment	
		.... 1...		SJVLKEEP	"X'08'" KEEP
		.... .1..		SJVLDELE	"X'04'" DELETE
0	(0)	BITSTRING	0	SJKYRLS	"X'801C'" RLS - Record Level Sharing
				Comment	
Values for RLS keyword					
				End of Comment	
		1...		SJVLNRI	"X'80'" NRI
		.1..		SJVLCR	"X'40'" CR
		..1.		SJVLCRE	"X'20'" CRE
0	(0)	BITSTRING	0	SJKYFDAT	"X'801D'" FILEDATA - file organization
				Comment	
Values for FILEDATA keyword					
				End of Comment	
		1...		SJVLBIN	"X'80'" BINARY
		.1..		SJVLTEXT	"X'40'" TEXT
0	(0)	BITSTRING	0	SJKYLGST	"X'801F'" LGSTREAM
0	(0)	BITSTRING	0	SJKYDCCS	"X'8020'" CCSID
0	(0)	BITSTRING	0	SJKYBSLM	"X'8022'" BLKSZLIM

IEFSJDKY Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
SJKYAVGR	0	8010	SJVLCR	0	40
SJKYBSLM	0	8022	SJVLCRE	0	20
SJKYCNTL	0	8003	SJVLCREA	0	80
SJKYDACL	0	8006	SJVLDELE	0	4
SJKYDCCS	0	8020	SJVLDTLI	0	80
SJKYDSNT	0	8012	SJVLDTPD	0	40
SJKYFDAT	0	801D	SJVLEXCL	0	40
SJKYKEYO	0	800C	SJVLGENR	0	80
SJKYLGST	0	801F	SJVLHFSI	0	10
SJKYLIKE	0	800F	SJVLKEEP	0	8
SJKYMGCL	0	8005	SJVLNBLK	0	4
SJKYPATH	0	8017	SJVLNOCT	0	20
SJKYPCDS	0	801B	SJVLNRI	0	80
SJKYPMDE	0	8019	SJVLPIPE	0	20
SJKYPNDS	0	801A	SJVLRDON	0	2
SJKYPOPT	0	8018	SJVLRDWR	0	3
SJKYRECO	0	800B	SJVLRGRP	0	20
SJKYREFD	0	800D	SJVLROES	0	40
SJKYRLS	0	801C	SJVLROKS	0	80
SJKYSECM	0	800E	SJVLROLS	0	10
SJKYSEGM	0	8014	SJVLRORR	0	20
SJKYSPIN	0	8013	SJVLROTH	0	4
SJKYSTCL	0	8004	SJVLRUSR	0	100
SJVLAPPE	0	8	SJVLRWXG	0	38
SJVLARKI	0	40	SJVLRWXO	0	7
SJVLARME	0	20	SJVLRWXU	0	1C0
SJVLARUN	0	80	SJVLSGID	0	400
SJVLBIN	0	80	SJVLSPNO	0	40
SJVLCEXL	0	C0	SJVLSPUN	0	80

Name	Hex Offset	Hex Value
SJVLSUID	0	800
SJVLSYNC	0	100
SJVLTEXT	0	40
SJVLTRUN	0	10
SJVLWDON	0	1
SJVLWGRP	0	10
SJVLWOTH	0	2
SJVLWUSR	0	80
SJVLXGRP	0	8
SJVLXOTH	0	1
SJVLXUSR	0	40

IEFSJOKY Programming Interface information

Programming Interface information

IEFSJOKY

End of Programming Interface information

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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)	BITSTRING	0	SJOKMERG	"X'8003'" MERGE
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
   THIS MACRO IS "RESTRICTED MATERIALS OF IBM"
   5694-A01 (C) COPYRIGHT IBM CORP. 1988, 2002
   STATUS= HBB7707
    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
```

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

```
          as EQUates.
01 EXTERNAL CLASSIFICATION: GUPI
01 END OF EXTERNAL CLASSIFICATION:
   NOTES =
      Bilingual Mapping Macro (PL/S and BAL)
          Key names consist of the prefix 'DO' followed by
          the name of the OUTPUT JCL statement keyword which
          they correspond to, for a maximum length of eight
          characters. If this scheme does not provide a
          unique key name, the least significant digit of
          the key number will be used as a suffix for the
          key name, i.e.
          DOMODIF6 EQU X'0016' MODIFY (module name)
          DOMODIF7 EQU X'0017' MODIFY (TRC)
                |_suffix_____|
                  of key name obtained from
                  the key number to create
                  unique key names for the
                  MODIFY keys
          Key names are in alphabetical order. New key
          labels should be added in the correct position
          by label name and not key number.
   INVOCATION
 METHOD OF ACCESS =
  BAL = IEFDOKEY
  PLS = %INCLUDE SYSLIB(IEFDOKEY)
   DSECT NAME = None
   COMPONENT = Dynamic Output (BB131)
   EYE CATCHER = None
    OFFSET = N/A
    LENGTH = N/A
   CREATED BY = N/A
   POINTED TO BY = N/A
   DELETED BY = N/A
   SERIALIZATION = N/A
   STORAGE ATTRIBUTES = None
     ALLOCATION METHOD = N/A
     SUBPOOL = N/A
     KEY = N/A
     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
 $01= OY48603 HBB4420 911209 PDDZ: OUTPUT USERDATA Support
 $P3= PKB3464 HBB4430 920901 PDDZ: SHOWHDR format complete
 $02= OW04349 HBB4420 940401 PDCL: OUTBIN Support
 $P4= PN72253 HBB5520 941221 PDH1: Computer Output Microfiche
```

```
$04 = OW13320 HBB5510 950615 PDH1: OVFL Support
$05 = OW21839 HBB4430 960807 PDAS: IP PrintWay
$06 = OW24596 HBB4430 970115 PDAS: Set Media Size Support
$07 = 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
  END OF SPECIFICATIONS
A 000000-999999
D Removed dynamic output from JBB2223
A ADDED KEYS DODPAGEL AND DOSYSARE
A Added dynamic output to HBB3310
A Added new keywords for ESI support -
  ADDRESS BUILDING DEPT NAME TITLE OUTDISP ROOM
C Fixed declarations for EMVS2 keywords.
C Fixed order so the labels are in alphabetical order
A Added NOTIFY Keyword
A Added USERLIB key
A Added USERDATA key (DOUSERDA)
A Added SHOWHDR details in prologue
A Added OUTBIN key in support of PSF/MVS 220
A Added DOCOMSET key in support of the Computer Output
  Microfiche SPE
A Added OVFL key in support of JES3 OW11080
A Added new keywords in support of IP PrintWay
 RETRYT RETRYL RETAINS RETAINF PRTQUEUE PRTOPTNS
 Modified DEST
A Added FORMLEN & PRTERROR keys in support of Set Media Size
A Added new keywords in support of Open Print & planforms
 RESFMT COLORMAP DUPLEX INTRAY OFFSETxx OVERLAYx PORTNO
A Added FSSDATA key in support of Open Print
A Added AFPSTATS key
    %GOTO DOKEY2;
KEYS FOR Dynamic OUTPUT
```

End of Comment

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		..1. .111		DOADDRES	"X'0027'" ADDRESS
		.1.. 1...		DOAFPST	"X'0048'" AFPSTATS
		..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)
0	(0)	BITSTRING	0	DODATACK	"X'2022'" DATACK
		.... 1.11		DODEFAUL	"X'000B'" DEFAULT
		..1. 1..1		DODEPT	"X'0029'" DEPT
		.... 11..		DODEST	"X'000C'" DEST
		..1. ..11		DODPAGEL	"X'0023'" DPAGELBL
		..11 11.1		DODUPLEX	"X'003D'" DUPLEX
		.... 11.1		DOFCB	"X'000D'" FCB
		.... 111.		DOFLASE	"X'000E'" FLASH (overlay name)
		 1111		DOFLASF	"X'000F'" FLASH (count)
		...1 11.1		DOFORMD	"X'001D'" FORMDEF
		..11 1.11		DOFORMLN	"X'003B'" FORMLEN
		...1		DOFORMS	"X'0010'" FORMS
		.1.. .111		DOFSSDAT	"X'0047'" FSSDATA

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		...1 ...1		DOGROUPI	"X'0011'" GROUPID
		...1 ..1.		DOINDEX	"X'0012'" INDEX
		..11 111.		DOINTRAY	"X'003E'" INTRAY
		...1 .1..		DOLINDEX	"X'0014'" LINDEX
		...1 .1.1		DOLINECT	"X'0015'" LINECT
		...1 .11.		DOMODIF6	"X'0016'" MODIFY (module name)
		...1 .111		DOMODIF7	"X'0017'" MODIFY (TRC)
		..1. 11.1		DONAME	"X'002D'" NAME
		..1. 1111		DONOTIFY	"X'002F'" NOTIFY
		.1.. ..11		DOXOFSTB	"X'0043'" OFFSETXB
		.1.. ...1		DOXOFSTF	"X'0041'" OFFSETXF
		.1.. .1..		DOYOFSTB	"X'0044'" OFFSETYB
		.1.. ..1.		DOYOFSTF	"X'0042'" OFFSETYF
0	(0)	BITSTRING	0	DOOUTBIN	"X'2023'" OUTBIN
		..1. 1.11		DOOUTDB	"X'002B'" OUTDISP - NORMAL
		..1. 11..		DOOUTDC	"X'002C'" OUTDISP - ABNORMAL
		..11 ..11		DOOVFL	"X'0033'" OVERFLOW
		.1..		DOOVRLYB	"X'0040'" OVERLAYB
		..11 1111		DOOVRLYF	"X'003F'" OVERLAYF
		...1 1111		DOPAGEDE	"X'001F'" PAGEDEF
		..1. ...1		DOPIMSG	"X'0021'" PIMSG
		.1.. .1.1		DOPORTNO	"X'0045'" PORTNO
		...1 1...		DOPRMODE	"X'0018'" PRMODE
		..11 1..1		DOPROPTN	"X'0039'" PRTOPTNS
		..11 11..		DOPRTERR	"X'003C'" PRTERROR
		..11 1...		DOPRTQUE	"X'0038'" PRTQUEUE
		...1 1..1		DOPRTY	"X'0019'" PRTY
		.1.. .11.		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 1.11		DOUCS	"X'001B'" UCS
		..11 ...1		DOUSERDA	"X'0031'" USERDATA
		..1. 111.		DOUSERLI	"X'002E'" USERLIB
		...1 11..		DOWRITER	"X'001C'" WRITER

IEFSJOKY Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
DOADDRES	0	27	DODEST	0	C
DOAFPST	0	48	DODPAGEL	0	23
DOBUILD	0	28	DODUPLEX	0	3D
DOBURST	0	1	DOFCB	0	D
DOCHARS	0	2	DOFLASE	0	E
DOCKPTLI	0	3	DOFLASF	0	F
DOCKPTPA	0	4	DOFORMD	0	1D
DOCKPTSE	0	5	DOFORMLN	0	3B
DOCLASS	0	6	DOFORMS	0	10
DOCOLORM	0	3A	DOFSSDAT	0	47
DOCOMPAC	0	7	DOGROUPI	0	11
DOCOMSET	0	32	DOINDEX	0	12
DOCONTRO	0	8	DOINTRAY	0	3E
DOCOPIEA	0	A	DOLINDEX	0	14
DOCOPIE9	0	9	DOLINECT	0	15
DODATACK	0	2022	DOMODIF6	0	16
DODEFAUL	0	B	DOMODIF7	0	17
DODEPT	0	29	DONAME	0	2D

IEFSJOKY Cross Reference

Name	Hex Offset	Hex Value
DONOTIFY	0	2F
DOOUTBIN	0	2023
DOOUTDB	0	2B
DOOUTDC	0	2C
DOOVFL	0	33
DOOVRLYB	0	40
DOOVRLYF	0	3F
DOPAGEDE	0	1F
DOPIMSG	0	21
DOPORTNO	0	45
DOPRMODE	0	18
DOPROPTN	0	39
DOPRTERR	0	3C
DOPRTQUE	0	38
DOPRTY	0	19
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
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 Programming Interface information

Programming Interface information

IEFZB4D2

End of Programming Interface information

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

Comment

KEYS FOR ALLOCATION FUNCTION

End of Comment

....	...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

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		.... 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
		...1 11.1		DALCOPYS	"X'001D'" SYSOUT COPIES
		...1 111.		DALLABEL	"X'001E'" LABEL TYPE
		...1 1111		DALDSSEQ	"X'001F'" DATA SET SEQUENCE NUMBER
		..1.		DALPASPR	"X'0020'" PASSWORD PROTECTION
		..1. ...1		DALINOUT	"X'0021'" INPUT ONLY OR OUTPUT ONLY
		..1. ..1.		DALEXPDT	"X'0022'" 2 DIGIT YEAR EXPIRATION DATE
		..1. ..11		DALRETPD	"X'0023'" RETENTION PERIOD
		..1. .1..		DALDUMMY	"X'0024'" DUMMY ALLOCATION
		..1. .1.1		DALFCBIM	"X'0025'" FCB IMAGE-ID
		..1. .11.		DALFCBAV	"X'0026'" FCB FORM ALIGNMENT,IMAGE VERIFY
		..1. .111		DALQNAME	"X'0027'" QNAME ALLOCATION
		..1. 1...		DALTERM	"X'0028'" TERMINAL ALLOCATION
		..1. 1..1		DALUCS	"X'0029'" UNIVERSAL CHARACTER SET
		..1. 1.1.		DALUFOLD	"X'002A'" UCS FOLD MODE
		..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

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		.1.. 11.1		DALSTACK	"X'004D'" STACKER BIN
		.1.. 111.		DALTHRSH	"X'004E'" MESSAGE QUEUE PERCENTAGE
		.1.. 1111		DALTRTCH	"X'004F'" TAPE RECORDING TECHNOLOGY
		.1.1		DALPASSW	"X'0050'" PASSWORD
		.1.1 ...1		DALIPLTX	"X'0051'" IPL TEXT ID
		.1.1 ..1.		DALPERMA	"X'0052'" PERMANENTLY ALLOCATED ATTRIB
		.1.1 ..11		DALCNVRT	"X'0053'" CONVERTIBLE ATTRIBUTE
		.1.1 .1..		DALDIAGN	"X'0054'" OPEN/CLOSE/EOV DIAGNOSTIC TRACE
		.1.1 .1.1		DALRTDDN	"X'0055'" RETURN DDNAME
		.1.1 .11.		DALRTDSN	"X'0056'" RETURN DSNAME
		.1.1 .111		DALRTORG	"X'0057'" RETURN D.S. ORGANIZATION
		.1.1 1...		DALSUSER	"X'0058'" SYSOUT REMOTE USER
		.1.1 1..1		DALSHOLD	"X'0059'" SYSOUT HOLD QUEUE
		.1.1 1.1.		DALFUNC	"X'005A'" D.S. TYPE FOR 3525 CARD DEVICE
		.1.1 1.11		DALFRID	"X'005B'" IMAGELIB MEMBER FOR SHARK
		.1.1 11..		DALSSREQ	"X'005C'" SUBSYSTEM REQUEST
		.1.1 11.1		DALRTVOL	"X'005D'" RETURN VOLUME SERIAL
		.1.1 111.		DALMSVGP	"X'005E'" MSVGP FOR 3330V
		.1.1 1111		DALSSNM	"X'005F'" SUBSYSTEM NAME REQUEST
		.11.		DALSSPRM	"X'0060'" SUBSYSTEM PARAMETERS
		.11. ...1		DALPROT	"X'0061'" RACF PROTECT FEATURE
		.11. ..1.		DALSSATT	"X'0062'" SUBSYSTEM ATTRIBUTE
		.11. ..11		DALUSRID	"X'0063'" SYSOUT USER ID
		.11. .1..		DALBURST	"X'0064'" BURSTER-TRIMMER-STACKER
		.11. .1.1		DALCHARS	"X'0065'" CHAR ARRANGEMENT TABLE
		.11. .11.		DALCOPYG	"X'0066'" COPY GROUP VALUES
		.11. .111		DALFFORM	"X'0067'" FLASH FORMS OVERLAY
		.11. 1...		DALFCNT	"X'0068'" FLASH FORMS OVERLAY COUNT
		.11. 1..1		DALMMOD	"X'0069'" COPY MODIFICATION MODULE
		.11. 1.1.		DALMTRC	"X'006A'" TABLE REFERENCE CHARACTER
		.11. 1.11		DALLRECK	"X'006B'" LRECL IN MULT OF 1K FORMAT
		.11. 11..		DALDEFER	"X'006C'" DEFER MOUNT UNTIL OPEN
		.11. 11.1		DALEXPDL	"X'006D'" 4 DIGIT YEAR EXP. DATE
		.11. 111.		DALBRTKN	"X'006E'" Browse token supplied
		.11. 1111		DALINCHG	"X'006F'" Volume Interchange Attributes
		.111		DALOVAFF	"X'0070'" Tell JES to override system affinity for INTRDR
		.111 ...1		DALRTCTK	"X'0071'" Return Allocation Sysout Client Token
		.111 ..1.		DALKILO	"X'0072'" BLKSIZE OF KILOBYTE
		.111 ..11		DALMEG	"X'0073'" BLKSIZE OF MEGABYTE
		.111 .1..		DALGIG	"X'0074'" BLKSIZE OF GIGABYTE
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	DALDACL	"X'8006'" DATACLAS
0	(0)	BITSTRING	0	DALRECO	"X'800B'" RECORG
0	(0)	BITSTRING	0	DALKEYO	"X'800C'" KEYOFF
0	(0)	BITSTRING	0	DALREFD	"X'800D'" REFDD
0	(0)	BITSTRING	0	DALSECM	"X'800E'" SECMODEL
0	(0)	BITSTRING	0	DALLIKE	"X'800F'" LIKE
0	(0)	BITSTRING	0	DALAVGR	"X'8010'" AVGREC
0	(0)	BITSTRING	0	DALDSNT	"X'8012'" DSNTYPE
0	(0)	BITSTRING	0	DALSPIN	"X'8013'" SPIN
0	(0)	BITSTRING	0	DALSEGM	"X'8014'" SEGMENT
0	(0)	BITSTRING	0	DALPATH	"X'8017'" PATH
0	(0)	BITSTRING	0	DALPOPT	"X'8018'" PATHOPTS

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

Comment

KEYS FOR CONCATENATION FUNCTION

End of Comment

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

Comment

KEYS FOR DECONCATENATION FUNCTION

End of Comment

		1		DDCDDNAM	"X'0001'" DDNAME

Comment

KEYS FOR INFORMATION RETRIEVAL FUNCTION

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
		.... 111.		DINRTTYP	"X'000E'" RETURN S.D. TYPE INDICATION
		 1111		DINRELNO	"X'000F'" RELATIVE REQUEST NUMBER
		...1		DINRTVOL	"X'0010'" Return First Volser

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

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

Comment

JDT defined Information Retrieval input keys
SJF DD INFORMATION RETRIEVAL INPUT KEYS

End of Comment

0	(0)	BITSTRING	0	DINPATH	"X'8017'" PATH

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

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...	DUNOVSUS	"X'0058'" OVERRIDING SYSOUT NODE
.1.1	1..1	DUNOVSHQ	"X'0059'" OVERRIDING SYSOUT HOLD QUEUE
.11.	..11	DUNOVUID	"X'0063'" Overriding SYSOUT User ID

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	DUNOVPDS	"X'801A'" PATHDISP - Override Disposition

IEFZB4D2 Cross Reference

Name	Hex Offset	Hex Value
DALACODE	0	8001
DALAVGR	0	8010
DALBFALN	0	2E
DALBFTEK	0	2F
DALBLKLN	0	9
DALBLKSZ	0	30
DALBRTKN	0	6E
DALBSLM	0	8022
DALBUFIN	0	31
DALBUFL	0	32
DALBUFMX	0	33
DALBUFNO	0	34
DALBUFOF	0	35
DALBUFOU	0	36
DALBUFRQ	0	37
DALBUFSZ	0	38
DALBURST	0	64
DALCDISP	0	6
DALCHARS	0	65
DALCLOSE	0	1C
DALCNTL	0	8003
DALCNVRT	0	53
DALCODE	0	39
DALCOPYG	0	66
DALCOPYS	0	1D
DALCPRI	0	3A
DALCYL	0	8
DALDACL	0	8006
DALDCBDD	0	2D
DALDCBDS	0	2C
DALDCCS	0	8020
DALDDNAM	0	1
DALDEFER	0	6C
DALDEN	0	3B
DALDIAGN	0	54
DALDIR	0	C
DALDSNAM	0	2
DALDSNT	0	8012
DALDSORG	0	3C
DALDSSEQ	0	1F
DALDUMMY	0	24
DALEROPT	0	3D
DALEXPDL	0	6D
DALEXPDT	0	22
DALFCBAV	0	26
DALFCBIM	0	25
DALFCNT	0	68
DALFDAT	0	801D
DALFFORM	0	67
DALFRID	0	5B
DALFUNC	0	5A
DALGIG	0	74
DALGNCP	0	3E
DALINCHG	0	6F
DALINOUT	0	21
DALINTVL	0	3F
DALIPLTX	0	51
DALKEYO	0	800C
DALKILO	0	72
DALKYLEN	0	40
DALLABEL	0	1E
DALLGST	0	801F
DALLIKE	0	800F
DALLIMCT	0	41
DALLRECK	0	6B
DALLRECL	0	42
DALMEG	0	73
DALMEMBR	0	3
DALMGCL	0	8005
DALMMOD	0	69
DALMODE	0	43
DALMSVGP	0	5E
DALMTRC	0	6A
DALNCP	0	44
DALNDISP	0	5
DALOPTCD	0	45
DALOUTLM	0	1B
DALOUTPT	0	8002
DALOVAFF	0	70
DALPARAL	0	17
DALPASPR	0	20
DALPASSW	0	50
DALPATH	0	8017
DALPCDS	0	801B
DALPCIR	0	46
DALPCIS	0	47
DALPERMA	0	52
DALPMDE	0	8019
DALPNDS	0	801A
DALPOPT	0	8018
DALPRIME	0	A
DALPRIVT	0	11
DALPROT	0	61
DALPRTSP	0	48
DALQNAME	0	27
DALRECFM	0	49
DALRECO	0	800B
DALREFD	0	800D
DALRETPD	0	23
DALRLS	0	801C
DALRLSE	0	D
DALROUND	0	F
DALRSRVF	0	4A
DALRSRVS	0	4B
DALRTCTK	0	71
DALRTDDN	0	55
DALRTDSN	0	56
DALRTORG	0	57
DALRTVOL	0	5D
DALSECM	0	800E
DALSECND	0	B
DALSEGM	0	8014
DALSFMNO	0	1A
DALSHOLD	0	59
DALSOWA	0	4C
DALSPFRM	0	E
DALSPGNM	0	19
DALSPIN	0	8013
DALSSATT	0	62
DALSSNM	0	5F
DALSSPRM	0	60
DALSSREQ	0	5C
DALSTACK	0	4D
DALSTATS	0	4
DALSTCL	0	8004
DALSUSER	0	58

IEFZB4D2 Cross Reference

Name	Hex Offset	Hex Value
DALSYSOU	0	18
DALTERM	0	28
DALTHRSH	0	4E
DALTRK	0	7
DALTRTCH	0	4F
DALUCS	0	29
DALUFOLD	0	2A
DALUNCNT	0	16
DALUNIT	0	15
DALUSRID	0	63
DALUVRFY	0	2B
DALVLCNT	0	13
DALVLRDS	0	14
DALVLSEQ	0	12
DALVLSER	0	10
DCCDDNAM	0	1
DCCPERMC	0	4
DDCDDNAM	0	1
DDNDDNAM	0	1
DDNRTDUM	0	2
DINDDNAM	0	1
DINDSNAM	0	2
DINPATH	0	8017
DINRAVGR	0	C010
DINRCNDS	0	C01B
DINRCNTL	0	C003
DINRDACL	0	C006
DINRDSNT	0	C012
DINRELNO	0	F
DINRFDAT	0	C01D
DINRKEYO	0	C00C
DINRLIKE	0	C00F
DINRMGCL	0	C005
DINRPATH	0	C017
DINRPCDS	0	C01B
DINRPMDE	0	C019
DINRPNDS	0	C01A
DINRPOPT	0	C018
DINRRECO	0	C00B
DINRREFD	0	C00D
DINRSECM	0	C00E
DINRSEGM	0	C014
DINRSPIN	0	C013
DINRSTCL	0	C004
DINRTATT	0	C
DINRTCDP	0	9
DINRTDDN	0	4
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
DUNDDNAM	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
DUNUNALC	0	7
SVC99KYS	0	

IEFZB4FJ Programming Interface information

Programming Interface information

IEFZB4FJ

End of Programming Interface information

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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	JSWTDSN	"16" WAIT FOR DATASET NAMES
0	(0)	X'8'	0	JSWTVOL	"8" WAIT FOR VOLUMES
0	(0)	X'4'	0	JSPCATIN	"4" PRIVATE CATALOG FOR INITIATOR
0	(0)	X'2'	0	JSDYNDI	"2" NO JES3 DATASET NAME INTEGRITY PROCESSING
0	(0)	X'1'	0	JSNOTRSB	"1" SWA BLOCKS BEING PASSED ARE DUMMIES AND DO NOT REPRESENT A REAL DD
1	(1)	CHARACTER	1	DYNCALL2	SECOND BYTE OF FLAGS
1	(1)	X'80'	0	JSBATCH	"128" THIS JES3 CALL IS DONE FROM BATCH ALLOCATION

IEFZB4FJ 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
JSWTDSN	0	10
JSWTVOL	0	8

IEFZB4F7 Heading Information

Common Name: IEFAB4FX Recovery Block
Macro ID: IEFZB4F7
DSECT Name: CFRSVBLK
Owning Component: Allocation (SC1B4)
Eye-Catcher ID: CFRCVBLK
Offset: 0
Length: 8
Storage Attributes: Main Storage: No
Virtual Storage: Yes
Auxiliary Storage: Yes
Subpool: 230
Key: 1
Data Space: No
Residency: Any
Size: 32 decimal bytes
Created by: Callers of IEFAB4FX service
(internal to Allocation component)
Pointed to by: - CFPRMP in the PRMESTAE (Common Allocation ESTAE Parms)
Serialization: No serialization is needed to access CFSRVBLK.
Function: This parameter list is used to communicate to IEFAB4FX callers' recovery routine.

This list is created by the callers of IEFAB4FX and updated by IEFAB4FX. It serves as input to IEFAB4FX callers' recovery routine if an abend occurs during this service or during the caller's processing. This list contains a pointer to the CFIP (IEFAB4FX's parameter list) and footprints indicating what resources are held at the time of abend and what cleanup functions are to be performed.
These blocks are anchored in IEFAB4FX's callers recovery routine. The head of the chain points to the newest block.

IEFZB4F7 Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	32	CFRCVBLK	
0	(0)	CHARACTER	8	CFRCV_ID	Acronym - CFRCVBLK
8	(8)	CHARACTER	8	CFRCV_CSECT	CSECT which creates this block
16	(10)	ADDRESS	4	CFRCV_CHNPTR	Pointer to previous block
20	(14)	ADDRESS	4	CFRCV_CFIPPTR	Pointer to CFIP
24	(18)	BITSTRING	2	CFRCV_FOOTPRNT1	Footprints - 1
		1...		CFRCV_LOCKS_HELD	Held CF lock(s)
		.1..		CFRCV_LOCKS_RLSE	CF lock(s) released
		..1.		CFRCV_DEVS_ASGNED	AS device(s) assigned
		...1		CFRCV_DEVS_UNASED	

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Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					AS device(s) unassigned
		.... 1...		CFRCV_CF_UPDATED	
					Coupling Facility updated
		.... .1..		CFRCV_CF_CLEANED	
					Coupling Facility cleaned up
		11		*	Reserved
25	(19)	1...		CFRCV_ASREAD	AS devices read - used during unallocation
		.1..		CFRCV_UNALAS	Need to unallocate AS devices - used during unallocation
		..11 1111		*	Reserved
26	(1A)	BITSTRING	2	CFRCV_FOOTPRNT2	
					Footprints - 2
		1...		CFRCV_CFIPG	CFIP gotten
		.1..		CFRCV_CFIPF	CFIP freed
		..1.		CFRCV_CFIPDTAG	
					CFIP device type array gotten
		...1		CFRCV_CFIPDTAF	
					CFIP device type array freed
		.... 1...		CFRCV_CFIPDVAG	
					CFIP device array gotten
		.... .1..		CFRCV_CFIPDVAF	
					CFIP device array freed
		.... ..1.		CFRCV_IGDEG	IGDEs gotten
		1		CFRCV_IGDEF	IGDEs freed
27	(1B)	1...		CFRCV_IEFSALOC	
					Invoked from ?IEFSALOC service (CASE code) in ALLOCAS address space.@01A
		.111 1111		*	Reserved
28	(1C)	CHARACTER	4	*	Reserved

IEFZB4F7 Constants

Len	Type	Value	Name	Description
Comment				
Constants				
End of Comment				
8	CHARACTER	CFRCVBLK	CFRCV_EYE_CATCHER	
				Eye catcher

IEFZB4F7 Cross Reference

Name	Hex Offset	Hex Value
CFRCV_ASREAD	19	80
CFRCV_CF_CLEANED	18	04
CFRCV_CF_UPDATED	18	08
CFRCV_CFIPDTAF	1A	10
CFRCV_CFIPDTAG	1A	20
CFRCV_CFIPDVAF	1A	04
CFRCV_CFIPDVAG	1A	08
CFRCV_CFIPF	1A	40
CFRCV_CFIPG	1A	80
CFRCV_CFIPPTR	14	
CFRCV_CHNPTR	10	
CFRCV_CSECT	8	
CFRCV_DEVS_ASGNED	18	20
CFRCV_DEVS_UNASED	18	10
CFRCV_FOOTPRNT1	18	
CFRCV_FOOTPRNT2	1A	
CFRCV_ID	0	
CFRCV_IEFSALOC	1B	80
CFRCV_IGDEF	1A	01
CFRCV_IGDEG	1A	02
CFRCV_LOCKS_HELD	18	80
CFRCV_LOCKS_RLSE	18	40

Name	Hex Offset	Hex Value
CFRCV_UNALAS	19	40
CFRCVBLK	0	

IEFZB468 Heading Information

Common Name: Mapping macro for STARTIO/EXCP ESTAE Parms
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		EXCAPUCB	UCB was captured and needs to be uncaptured
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	EXUCBPTR	Pointer to captured UCB - used by uncapture service

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IEFZB468 Cross Reference

Name	Hex Offset	Hex Value
EXADDR	64	
EXAUTO	0	
EXCAPUCB	60	01
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
EXUCBPTR	74	

IEFZDDWA Heading Information

Common Name: DD Work Area
Macro ID: IEFZDDWA
DSECT Name: DDWA
Owning Component: Allocation (SC1B4)
Eye-Catcher ID: DDWA
Offset: 0
Length: 4
Storage Attributes: Subpool: 230
Key: Key 1
Residency: Above
Size: 74 Bytes
Created by: IEFBB401, IEFDB413, IEFAB466
Pointed to by: SIOTDDWA (contained within IEFASIOT)
Serialization: None
Function: This macro maps the DD Work Area.
The DD Work Area is used to hold information pertaining to a DD statement (or SIOT) and is created for one instance of Allocation.
It is important to note that the information pointed to by this block is not checkpointed.
This block is acquired early in the allocation process, so it will be available throughout most of Allocation's processing

IEFZDDWA Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	74	DDWA	DD work area
0	(0)	CHARACTER	4	DDWAID	Identifier C'DDWA'
4	(4)	UNSIGNED	1	DDWAVER	Version number
5	(5)	CHARACTER	1	DDWAFLG1	Flags
		1...		DDWAMDMD	A demand library MOUNT cmd
		.1..		DDWAMUMG	SIOT is a MU/MG request
		..1.		DDWAMUML	SIOT is a MU/ML request
		...1		DDWASIUA	System has detected a Strong Implicit Unit Affinity to the unit allocated to another DD, due to volser in conflict or other reason. While a specific unit is not required, the same unit as another DD is using IS required, making this a duplicate unit request. MUG groups will be restricted to generic of the device to which there is strong affinity by segment GMENDMND in IEFAB472. This affinity must be honored or the request must be failed (similar to a DEMANDed unit)
		.... 1...		DDWAGAFF	SCTUNAFF is on due to implicit unit affinity for GDGALL and not due to UNIT=AFF= on the JCL
		.... .1..		DDWAODPL	The device pool list passed back from SMS Device Pool Select SSI is ordered. Set by IEFAB42B (was IEFAB423 prior to ATLIB in HBB4430). Used by IEFAB482.
		.... ..1.		DDWAUNAF	Allocation invoked the SMS UNITAFF SSI Exit for this DD. Set by IEFAB457. Checked by IEFAB422.
		1		DDWACNST	SMS Constructs have been obtained via a call to the SMS TVRU SSI. Set by IEFAB435. Checked by IEFAB490.
6	(6)	CHARACTER	2	DDWAMDEV	Library MOUNT device number
8	(8)	ADDRESS	4	DDWAVRB	Ptr. to VOLUNIT Request Block
12	(C)	CHARACTER	4	DDWARGEN	Generic device type for a request requiring allocated/ offline devices. Set by IEFAB486 and used by IEFAB48A

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IEFZDDWA Constants

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
16	(10)	CHARACTER	4	DDWAMGEN	Generic device type for a MU/ML library request
20	(14)	CHARACTER	5	DDWAMLIB	Library identifier for a MU/MG library request
25	(19)	UNSIGNED	1	DDWAPSCT	the number of public/storage units needed by allocation
26	(1A)	UNSIGNED	1	DDWARCNT	Number of times Recovery Allocation was entered
27	(1B)	UNSIGNED	1	DDWAFLG2	Flags
		1...		DDWAMSS	All unit eligible to this request are MSS devices
		.1..		DDWAMXD	Units eligible to this request are a mix of MSS and non-MSS devices
		..1.		DDWAFUDA	Mixed device spec. AFF or DEFER
		...1		DDWAPVTM	PVT assumed message reqd
		.... 1...		DDWAGIGN	Ignore process DDWA for this generic
		.... .1..		DDWARTRY	This request requires retry in allocation
		.... ..1.		DDWANODQ	Set in Common Allocation Control (IEFAB421) when a volume ENQ for one of the volume(s) associated with this request failed. - It is later checked in Common Unallocation Control (IEFAB4A0) before creating the Volume Release List (VRL) of volumes to be DEQ'd. - This eliminates the chance of a volume being DEQ'd from under the 'mother' task by a failing 'daughter' task. - When set, DDWAFNQV will contain the Volume Serial (VOLSER) number associated with the failed ENQ.
		1		*	Unused and available.
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	DDWAFLG3	Flags
		1...		DDWABADU	Coded unit parameter was not valid, but ignored (i.e. SMS managed dataset) and NOT replaced by a unit retrieved from the catalog or prior DD. Set by IEFAB464. Used by IEFAB453.
		.111 1111		*	Reserved
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	10	*	Reserved

IEFZDDWA Constants

Len	Type	Value	Name	Description
1	DECIMAL	2	DDWACVER	Current Version Number
4	CHARACTER	DDWA	DDWACID	Identifier
4	DECIMAL	50	DDWAPCTD	Primary Cell Pool count for Dynamic Allocations
4	DECIMAL	200	DDWASCTD	Secondary Cell Pool count for Dynamic Allocations
4	DECIMAL	50	DDWAPCTB	Primary Cell Pool count for Batch Allocations
4	DECIMAL	200	DDWASCTB	Secondary Cell Pool count for Batch Allocations
18	CHARACTER	IEFZDDWA CELL PO OL	DDWACPHD	Header for Cell Pool

IEFZDDWA Cross Reference

Name	Hex Offset	Hex Value
DDWA	0	
DDWABADU	3A	80
DDWACNST	5	01
DDWAFLG1	5	
DDWAFLG2	1B	
DDWAFLG3	3A	
DDWAFNQV	34	
DDWAFUDA	1B	20
DDWAGAFF	5	08
DDWAGIGN	1B	08
DDWAGIID	26	
DDWAID	0	
DDWAMDEV	6	
DDWAMDMD	5	80
DDWAMGEN	10	
DDWAMLIB	14	
DDWAMSS	1B	80
DDWAMUMG	5	40
DDWAMUML	5	20
DDWAMXD	1B	40
DDWANODQ	1B	02
DDWAODPL	5	04
DDWAPSCT	19	
DDWAPVTM	1B	10
DDWARCNT	1A	
DDWARGEN	C	
DDWARLIB	2F	
DDWARTRY	1B	04
DDWASIOT	3C	
DDWASIUA	5	10
DDWASSIC	28	
DDWATLIB	2A	
DDWAUNAF	5	02
DDWAUNIT	1C	
DDWAVER	4	
DDWAVRB	8	
DDWAVUAD	20	
DDWAVUNO	24	

IEFZPMAP Programming Interface information

Programming Interface information

IEFZPMAP

End of Programming Interface information

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IEFZPMAP Heading Information

Common Name: Mapping Macros for use with the "Logical Parmlib" Service (IEFPRMLB)
Macro ID: IEFZPMAP
DSECT Name: PRM_List_Buffer - Provides a mapping for the REQUEST=LIST output PRM_Read_Buffer - Provides a mapping for the REQUEST=ALLOCATE with READ function and the REQUEST=READMEMBER function output PRM_Message_Buffer - Provides a mapping for the message buffer for the REQUEST=ALLOCATE and REQUEST=READMEMBER functions
Owning Component: Allocation (SC1B4)
Eye-Catcher ID: None
Storage Attributes: Main Storage: NO
Virtual Storage: YES
Auxiliary Storage: YES
Subpool: Determined by users of IEFPRMLB
Key: Determined by users of IEFPRMLB
Data Space: NO
Residency: Any
Size: PRM_LIST_BUFFER -- X'0048' bytes
if room for one 56-byte entries is provided. Otherwise, X'38' larger for each entry for which room is provided. Room should be provided for at least 11 entries.
PRM_READ_BUFFER -- X'0068' bytes
if room for one 80-byte record is provided. Otherwise, X'50' larger for each record for which room is provided.
PRM_MESSAGE_BUFFER -- X'0110' bytes
if room for one message is provided. Otherwise, X'100' larger for each message for which room is provided.
Created by: Callers of IEFPRMLB
Pointed to by: Addresses are stored into the caller's parameter list
Serialization: None.
Function: PRM_List_Buffer - Provides a mapping for the REQUEST=LIST output

PRM_Read_Buffer - Provides a mapping for the REQUEST= ALLOCATE with READ function and the REQUEST= READMEMBER FUNCTION output

PRM_Message_Buffer - Provides a mapping for the message buffer for the REQUEST=ALLOCATE and REQUEST= READMEMBER functions

IEFZPMAP 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 IEFPRMLB macro
0	(0)	CHARACTER	16	PRM_LIST_HEADER	

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

		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	Offsets 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

IEFZPMAP Cross Reference

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
96	(60)	X'68'	0	PRM_READ_BUFFER_LEN	"*-PRM_READ_BUFFER"

Offsets Dec	Offsets 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	
		1...		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

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	

Name	Hex Offset	Hex Value
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 Programming Interface information

Programming Interface information

IEFZPRC

End of Programming Interface information

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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	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0		
0	(0)	X'0'	0	PRMLB_SUCCESS	"0" X'000' IEFPRMLB completed successfully
0	(0)	X'0'	0	PRMLB_FUNCTION_COMPLETE	"0" X'000' Function completed
0	(0)	X'4'	0	PRMLB_WARNING	"4" X'004' IEFPRMLB completed successfully with a warning
0	(0)	X'8'	0	PRMLB_LOCKS_HELD	"8" X'008' Caller holds locks
0	(0)	X'C'	0	PRMLB_REQUEST_FAILED	"12" X'00C' IEFPRMLB request failed
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

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

IEFZPRC Cross Reference

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	X'5'	0	PRMLB_PLIST_S99TXTPP_NOT0	"5" X'005' S99TXTPP must be zero
0	(0)	X'6'	0	PRMLB_MSGBUFF_FORMAT_ERROR	"6" X'006' Error in message buffer format
0	(0)	X'7'	0	PRMLB_READBUFF_FORMAT_ERROR	"7" X'007' Error in read buffer format
0	(0)	X'8'	0	PRMLB_LISTBUFF_FORMAT_ERROR	"8" X'008' Error in list buffer format
0	(0)	X'9'	0	PRMLB_S99RB_UNACCESSIBLE	"9" X'009' Unable to access the input S99RB

IEFZPRC Cross Reference

Name	Hex Offset	Hex Value
PRMLB_ALLOC_FAILED	0	4
PRMLB_BAD_PARAMETER	0	1
PRMLB_CONCAT_FAILED	0	5
PRMLB_CROSS_MEMORY	0	20
PRMLB_DD_ALREADY_ALLOC	0	1
PRMLB_ESTAE_SETUP_FAILED	0	24
PRMLB_FUNCTION_COMPLETE	0	0
PRMLB_INTERNAL_ERROR	0	10
PRMLB_INVALID_PARAMETER_LIST	0	1C
PRMLB_LISTBUFF_FORMAT_ERROR	0	8
PRMLB_LISTBUFF_UNACCESSIBLE	0	2
PRMLB_LOCKS_HELD	0	8
PRMLB_MEMBER_NOT_FOUND	0	1
PRMLB_MSGBUFF_FORMAT_ERROR	0	6
PRMLB_MSGBUFF_UNACCESSIBLE	0	3
PRMLB_NOT_TASK_MODE	0	14
PRMLB_NOTAUTH_TO_SUBPOOL	0	28
PRMLB_OPEN_ERROR	0	3
PRMLB_PARMLIB_STILL_OPEN	0	8
PRMLB_PLIST_S99TXTPP_NOT0	0	5
PRMLB_PLIST_UNACCESSIBLE	0	1
PRMLB_PUTLINE_ERROR	0	B
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 Programming Interface information

Programming Interface information

IEWLCNV

End of Programming Interface information

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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 IEWLCNVT passes the IEWLCNV parameter area to module IEWLCNVX.

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_LEV	Control block level
		1		LCNV_LEV_IV	"X'01'"
13	(D)	CHARACTER	3		Reserved Start of function parms
16	(10)	SIGNED	4	(0)	
16	(10)	ADDRESS	4	LCNV_OUTLEN	Output length
20	(14)	ADDRESS	4	LCNV_PMAR_PTR	PMAR address
24	(18)	ADDRESS	4	LCNV_FLAGS_PTR	FLAGS address
28	(1C)	ADDRESS	4	LCNV_PDS2INDC_PTR	PDS Directory Entry indicator byte address
32	(20)	ADDRESS	4	LCNV_PMARA_PTR	PMARA address
36	(24)	ADDRESS	4	LCNV_PNAME_PTR	Primary name address
40	(28)	SIGNED	4	LCNV_FUNC	FUNCTION CODE
44	(2C)	ADDRESS	4		Reserved
44	(2C)	X'30'	0	LCNV_LEN_IV	"*-LCNV" Parm List Length
44	(2C)	X'20'	0	LCNV_LEN_LIST	"*-LCNV_OUTLEN" parm list length w/o header

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

Offsets Dec	Offsets 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 IEWLCNVT FUNCTION CODES. THEY ARE ALSO DEFINED
IN IEWLDR FOR PLS.

End of Comment

```
.... .1.1          LDR_FUNC_PMAR_TO_PDSDE
                                   "X'05'" PMAR to PDSDE conversion
.... .11.          LDR_FUNC_PDSDE_TO_PMAR
                                   "X'06'" PDSDE to PMAR conversion
```

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	
LCNV_LEV_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 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_MPGS
- 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

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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 mappping 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..		PMAR_LVL_VAL	"X'04'" level constant
3	(3)	ADDRESS	1	PMAR_PLVL	Bind processor creating object
		1		PMAR_PLVL_E_VAL	"X'01'" E-level constant
		.... ..1.		PMAR_PLVL_F_VAL	"X'02'" F-level constant
		11		PMAR_PLVL_AOS_VAL	"X'03'" AOS-level constant
		.... .1..		PMAR_PLVL_XA_VAL	"X'04'" XA-level constant
		.... .1.1		PMAR_PLVL_B1_VAL	"X'05'" Binder version 1
		.... .11.		PMAR_PLVL_B2_VAL	"X'06'" Binder version 2
		.... .111		PMAR_PLVL_B3_VAL	"X'07'" Binder version 3
		.... 1...		PMAR_PLVL_B4_VAL	

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					"X'08'" Binder version 4 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
4	(4)	CHARACTER	4	PMAR_ATR (0)	Attribute bytes.
4	(4)	BITSTRING	1	PMAR_ATR1	First attribute byte. These flags must be at the same offsets as the corresponding flags in PDS2ATR1 declared by macro IHAPDS.
		1...		PMAR_RENT	"X'80'" Reenterable
		.1..		PMAR_REUS	"X'40'" Reusable
		..1.		PMAR_OVLY	"X'20'" Overlay structure
		...1		PMAR_TEST	"X'10'" Module to be tested - TESTRAN
		.... 1...		PMAR_LOAD	"X'08'" Only loadable
		.... .1..		PMAR_SCTR	"X'04'" Scatter format
		.... ..1.		PMAR_EXEC	"X'02'" Executable
		1		PMAR_1BLK	"X'01'" Load module contains only one block of text data and has no rld data.
5	(5)	BITSTRING	1	PMAR_ATR2	Second attribute byte. These flags must be at the same offsets as the corresponding flags in PDS2ATR2 declared by macro IHAPDS.
		1...		PMAR_FLVL	"X'80'" If on, the program cannot be processed by the e level linkage editor. If off, the program can be processed by any level of the linkage editor or the Binder.
		.1..		PMAR_ORG0	"X'40'" Linkage editor assigned origin of first block of text is zero. EQU X'20' RESERVED
		...1		PMAR_NRLD	"X'10'" Program contains no RLD items
		.... 1...		PMAR_NREP	"X'08'" Module cannot be reprocessed by the linkage editor
		.... .1..		PMAR_TSTN	"X'04'" Module contains TESTRAN symbol cards EQU X'02' RESERVED
		1		PMAR_REFR	"X'01'" Refreshable program
6	(6)	BITSTRING	1	PMAR_ATR3 (0)	Third attribute byte.
6	(6)	BITSTRING	1	PMAR_FTB1	Alternative name for flags byte These flags must be at the same offsets as the corresponding flags in PDS2FTB1 declared by macro IHAPDS. EQU X'80' RESERVED
		.1..		PMAR_BIG	"X'40'" This program requires 16M bytes or more of virtual storage
		..1.		PMAR_PAGA	"X'20'" Page alignment is required
		...1		PMAR_XSSI	"X'10'" SSI information present
		.... 1...		PMAR_XAPF	"X'08'" APF information present
		.... .1..		PMAR_LFMT	"X'04'" PMARL follows PMAR. EQU X'02' RESERVED 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		RESERVED
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

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
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		Extended Attributes
30	(1E)	CHARACTER	1	PMAR_END (0)	END OF BASIC SECTION

Offsets Dec	Offsets 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	Fifth 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_HPL	"X'10'" Module requires HPLINK suppo
3	(3)	BITSTRING	1	PMARL_ATR2	Sixth attribute byte
		1...		PMARL_CMPR	"X'80'" Compressed format module
		.1..		PMARL_1RMOD	"X'40'" 1st segment is RMODE 31, set for PM2-level PO only
		..1.		PMARL_2RMOD	"X'20'" 2nd segment is RMODE 31, set for PM2-level PO if there are at least two segments.
		.... 1...		PMARL_1ALIN	"X'08'" 1st segment is page-aligned, set for PM2-level PO only
		.... .1..		PMARL_2ALIN	"X'04'" 2nd segment is page-aligned, set for PM2-level PO if there are at least 2 segments.
		.... ..1.		PMARL_FILL	"X'02'" FILL option specified set for PM2-level PO only
4	(4)	CHARACTER	1	PMARL_FILLVAL	FILL character value set for PM2-level PO only
5	(5)	BITSTRING	1	PMARL_PO_SUBLVL	Program object sublevel
5	(5)	X'1'	0	PMARL_PO_SUBLVL_ZOSV1R3	"1" Value for z/OS V1 R3
6	(6)	BITSTRING	4	PMARL_MPGS	Total length of program on DASD in pages (excluding gas).
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.

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
66	(42)	CHARACTER	16	PMARL_TRACE (0)	Audit trace data
66	(42)	BITSTRING	4	PMARL_DATE	Date saved
70	(46)	BITSTRING	4	PMARL_TIME	Time saved
74	(4A)	CHARACTER	8	PMARL_USER	User or job identification
82	(52)	CHARACTER	16	PMARL_PM3 (0)	New fields for PM3-Level object
82	(52)	BITSTRING	1	PMARL_PM3FL1	Flag byte
		1...		PMARL_HIDE	"X'80'" Name is an alias that can be hidden
		.1..		PMARL_DLLENA	"X'40'" PO is DLL-enabled
		..1.		PMARL_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	"X'02'" XC-mode invalid
84	(54)	BITSTRING	2	PMARL_NDEFER	Number of deferred classes
86	(56)	BITSTRING	4	PMARL_DTEMPL	Total length of deferred text classes on DASD (excludes gas).
90	(5A)	BITSTRING	4	PMARL_1DTXTO	Offset of 1st deferred class on DASD (includes gas).
94	(5E)	BITSTRING	4	PMARL_IEWBLITO	Byte offset of IEWBLIT structure from module load point
98	(62)	CHARACTER	8	PMARL_PM4 (0)	New fields for PM4-Level
98	(62)	CHARACTER	8		Reserved
106	(6A)	CHARACTER	1	PMARL_END (0)	END OF LSLOADER SECTION

Offsets Dec	Offsets 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

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
23	(17)	CHARACTER	1	PMARR_END (0)	END OF LOAD MODULE ATTRIBUTES

Offsets Dec	Offsets 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	"X'10'" Alias is a mangled name
		.... 11..		PMARA_AMD	"X'0C'" Alias entry addressing mode If B'00', AMODE is 24. If B'10', AMODE is 31. If B'11', AMODE is ANY. If B'01', AMODE is 64.
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"

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

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

Comment

Largest PMARL length for PO1 format program objects
PO1 format Program object section length

End of Comment

7	(7)	X'32'	0	PMARL_LVL1LEN	"PMARL_PM2-PMARL"

Comment

Largest PMARL length for PO2 format program objects
PO2 format Program object section length

End of Comment

7	(7)	X'52'	0	PMARL_LVL2LEN	"PMARL_PM3-PMARL"
7	(7)	X'62'	0	PMARL_LVL3LEN	"PMARL_PM4-PMARL"

IEWPMAR Cross Reference

Name	Hex Offset	Hex Value
PMAR	0	
PMAR_AAMD	7	C
PMAR_AAMD_MASKOFF	7	F3
PMAR_AC	9	
PMAR_ALTP	7	80
PMAR_ATR	4	
PMAR_ATR1	4	
PMAR_ATR2	5	
PMAR_ATR3	6	
PMAR_ATR4	7	
PMAR_BIG	6	40
PMAR_CHLV	16	
PMAR_END	1E	
PMAR_ENTRY	0	
PMAR_EPA	12	
PMAR_EPM	E	
PMAR_EXEC	4	2
PMAR_FLVL	5	80
PMAR_FTB1	6	
PMAR_FTB2	7	
PMAR_LFMT	6	4
PMAR_LIGHTWEIGHT_LE	1A	40
PMAR_LOAD	4	8
PMAR_LVL	2	
PMAR_LVL_VAL	2	4
PMAR_MAMD	7	3
PMAR_MAXLEN	7	88
PMAR_MAXLEN_LOADMOD	7	35
PMAR_MAXLEN_PO1	7	50
PMAR_MAXLEN_PO2	7	70
PMAR_MAXLEN_PO3	7	80
PMAR_MAXLEN_PO4	7	88
PMAR_MAXLEN_PROGOBJ	7	88
PMAR_MSER	18	
PMAR_NREP	5	8
PMAR_NRLD	5	10
PMAR_ORG0	5	40
PMAR_OVLY	4	20
PMAR_PAGA	6	20
PMAR_PLVL	3	
PMAR_PLVL_AOS_VAL	3	3
PMAR_PLVL_B1_VAL	3	5
PMAR_PLVL_B2_VAL	3	6
PMAR_PLVL_B3_VAL	3	7
PMAR_PLVL_B4_VAL	3	8
PMAR_PLVL_E_VAL	3	1
PMAR_PLVL_F_VAL	3	2
PMAR_PLVL_XA_VAL	3	4
PMAR_PM1_VAL	2	1
PMAR_PM2_VAL	2	2
PMAR_PM3_VAL	2	3
PMAR_PM4_VAL	2	4
PMAR_REFR	5	1
PMAR_RENT	4	80
PMAR_REUS	4	40
PMAR_RMOD	7	10
PMAR_SCTR	4	4
PMAR_SLEN	0	
PMAR_SSFB	17	
PMAR_SSI	16	
PMAR_STOR	A	
PMAR_SYSTEM_LE	1A	80
PMAR_TEST	4	10
PMAR_TSTN	5	4
PMAR_XAPF	6	8
PMAR_XATTR1	1A	
PMAR_XSSI	6	10
PMAR_1BLK	4	1
PMARA	0	
PMARA_ALTP	6	80
PMARA_AMD	6	C
PMARA_ATR	6	
PMARA_ATR1	6	
PMARA_DATA	2	
PMARA_END	7	
PMARA_EPA	2	
PMARA_FTB2	6	
PMARA_HIDE	6	40
PMARA_LEN	0	
PMARA_MANGLED	6	10
PMARA_NEXEC	6	20
PMARL	0	
PMARL_ATR	2	
PMARL_ATR1	2	
PMARL_ATR2	3	
PMARL_BDRL	12	
PMARL_BDRO	16	
PMARL_CMPR	3	80
PMARL_CMS	53	
PMARL_CMS_INVALXA	53	4
PMARL_CMS_INVALXC	53	2
PMARL_CMS_MODALL	53	8
PMARL_CMS_MODDOS	53	10
PMARL_CMS_NOCLEAN	53	40
PMARL_CMS_STRINIT	53	20
PMARL_CMS_SYSTEM	53	80
PMARL_DATA	2	
PMARL_DATE	42	
PMARL_DLLENA	52	40
PMARL_DTEMPL	56	
PMARL_END	6A	

Name	Hex Offset	Hex Value
PMARL_FILL	3	2
PMARL_FILLVAL	4	
PMARL_HIDE	52	80
PMARL_HPL	2	10
PMARL_IEWBLITO	5E	
PMARL_IEWBLITP	52	10
PMARL_LMDL	2A	
PMARL_LMDO	2E	
PMARL_LVL1LEN	7	32
PMARL_LVL2LEN	7	52
PMARL_LVL3LEN	7	62
PMARL_MANGLED	52	8
PMARL_MDAT	A	
PMARL_MPGS	6	
PMARL_MUSTDELET	52	20
PMARL_NDEFER	54	
PMARL_NGAS	34	
PMARL_NMIG	2	80
PMARL_NSEG	32	
PMARL_NVSPGS	2A	
PMARL_PACK	2	20
PMARL_PM2	32	
PMARL_PM3	52	
PMARL_PM3FL1	52	
PMARL_PM4	62	
PMARL_PO_SUBLVL	5	
PMARL_PO_SUBLVL_ZOSV1R3	5	1
PMARL_PRIM	2	40
PMARL_RATL	22	
PMARL_RATO	26	
PMARL_RDTL	1A	
PMARL_RDTO	1E	
PMARL_SLEN	0	
PMARL_TIME	46	
PMARL_TRACE	42	
PMARL_TXTL	A	
PMARL_TXTO	E	
PMARL_USER	4A	
PMARL_1ALIN	3	8
PMARL_1DTXTO	5A	
PMARL_1RMOD	3	40
PMARL_1STOR	36	
PMARL_2ALIN	3	4
PMARL_2RMOD	3	20
PMARL_2STOR	3A	
PMARL_2TXTO	3E	
PMARR	0	
PMARR_DATA	2	
PMARR_END	17	
PMARR_ESDC	15	
PMARR_ESDT	13	
PMARR_FTBL	A	
PMARR_NL	9	
PMARR_ORG	C	
PMARR_RLDS	E	

Name	Hex Offset	Hex Value
PMARR_SCAT	F	
PMARR_SLEN	0	
PMARR_SLSZ	F	
PMARR_TTRN	6	
PMARR_TTRS	2	
PMARR_TTRT	2	
PMARR_TTSZ	11	
PMARR_ZERO	5	

IEZEUNLD Programming Interface information

Programming Interface information

IEZEUNLD

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

- EUNLSPAC
- EUNLSPCP

End of Programming Interface information

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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	Offsets 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 Programming Interface information

Programming Interface information

IEZVG100

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

- SCSACRO
- SCSBRDOF
- SCSBRDON
- SCSPLEN
- SCSVER
- SCSVERSN

End of Programming Interface information

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IEZVG100 Heading Information

Common Name: Subsystem Console Service Routine Parameter List
Macro ID: IEZVG100
DSECT Name: SCSRPLST, SCSRTCD
Owning Component: Communications Task (SC1CK)
Eye-Catcher ID: SCSR
Offset: 0
Length: 4
Storage Attributes: Subpool: ANY
Key: ANY
Residency: ANY
Size: 80 bytes (SCSRPLST) + 16 bytes (SCSRTCD)
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
4	(4)	X'1'	0	SCSSP211	"1" LEVEL OS/VS2 JBB2110
4	(4)	X'2'	0	SCSSP220	"2" LEVEL OS/VS2 JBB2220
4	(4)	X'3'	0	SCSSP440	"3" LEVEL MVS/SP510
4	(4)	X'3'	0	SCSVERSN	"SCSSP440" CURRENT VERSION LEVEL
5	(5)	BITSTRING	1	SCSFUNC1	FIRST FUNCTION BYTE
		1...		SCSOBTAN	"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 SCSCNID
		..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
		.... ..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
		1...		SCSRLGRP	"X'80'" RELEASE ONE OR MORE CONSOLES BY ASID
		.1..		SCSPMSTR	"X'40'" MAKE THE CONSOLE BE CONSIDERED A PSEUDO MASTER CONSOLE
		..1.		SCSNMSTR	"X'20'" MAKE THE CONSOLE TO NO LONGER BE CONSIDERED A PSEUDO MASTER CONSOLE
		...1		SCSAUTH	"X'10'" INDICATE AUTHORITY OF CONSOLE
		.... 1...		SCSRLCSY	"X'08'" RELEASE ONE OR MORE CONSOLES BY SYSTEM NAME

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					Comment
		EQU X'04'-X'01' RESERVED			
					End of Comment
7	(7)	BITSTRING	1	SCSFUNC3	THIRD FUNCTION BYTE - RESERVED
8	(8)	BITSTRING	1	SCSFUNC4	FOURTH FUNCTION BYTE - RESERVED
9	(9)	BITSTRING	1	SCSCOMP (0)	FUNCTION COMPLETION BYTES
9	(9)	BITSTRING	1	SCSCOMP1	FIRST FUNCTION COMPLETION BYTE
		1...		SCSOBTNC	"X'80'" OBTAIN A CONSOLE REQUEST COMPLETED
		.1..		SCSDEMSC	"X'40'" DEMAND SELECT REQUEST COMPLETED
		..1.		SCSRELSC	"X'20'" RELEASE A CONSOLE REQUEST COMPLETED
		...1		SCSBRDNC	"X'10'" REQUEST TO BROADCAST WTOS COMPLETED
		.... 1...		SCSBRDFC	"X'08'" REQUEST TO TURN OFF BROADCAST OF WTOS COMPLETED
		.... .1..		SCSRTCDC	"X'04'" CHANGE THE ROUTING CODES REQUEST COMPLETED
		.... ..1.		SCSSTATC	"X'02'" STATUS REQUEST COMPLETE
		1		SCSPROTC	"X'01'" DETERMINE THE TYPE OF PROTOCOL REQUEST COMPLETED
10	(A)	BITSTRING	1	SCSCOMP2	SECOND FUNCTION COMPLETION BYTE
		1...		SCSRGRPC	"X'80'" REQUEST TO RELEASE ONE OR MORE CONSOLES BY ASID COMPLETED
		.1..		SCSPMSTC	"X'40'" PSEUDO MASTER CONSOLE REQUEST COMPLETED
		..1.		SCSNMSTC	"X'20'" WITHDRAW PSEUDO MASTER ATTRIBUTE REQUEST COMPLETED
		...1		SCSAUTHC	"X'10'" OBTAIN AUTHORITY OF CONSOLE REQUEST COMPLETED
		.... 1...		SCSRLSYC	"X'08'" REQUEST TO RELEASE ONE OR MORE BY SYSTEM NAME COMPLETED
					Comment
		EQU X'04'-X'01' RESERVED			
					End of Comment
11	(B)	BITSTRING	1	SCSCOMP3	THIRD FUNCTION COMPLETION BYTE - RESERVED
12	(C)	BITSTRING	1	SCSCOMP4	FOURTH FUNCTION COMPLETION BYTE - RESERVED
13	(D)	CHARACTER	3	SCSRSV1	RESERVED
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
34	(22)	BITSTRING	1	SCSATI	SUBSYSTEM CONSOLE ATTENTION INDEX
35	(23)	BITSTRING	1	SCSCNSTF	CONSOLE STATUS FLAGS
		1...		SCSNTDEF	"X'80'" CONSOLE NOT DEFINED TO MCS
		.1..		SCSCNDEF	"X'40'" CONSOLE IS DEFINED TO MCS BUT IS NOT CURRENTLY IN USE
		..1.		SCSINUSE	"X'20'" CONSOLE IS IN USE BY MCS OR ALLOCATED TO ANOTHER JOB
36	(24)	BITSTRING	1	SCSFLGS (0)	FLAGS BYTES
36	(24)	BITSTRING	1	SCSFLGS1	FLAGS
		1...		SCSNTKWN	"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

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		.1..		SCSTYPE1	"X'40'" TYPE 1 PROTOCOL: USE SVC 34 TO ISSUE COMMANDS - LISTEN TO THE SUBSYSTEM INTERFACE CALLS OF 10(SVC 34) FOR COMMANDS AND 9(SVC 35) FOR MESSAGES

Comment

EQU X'20' RESERVED

End of Comment

		...1		SCSPNTKN	"X'10'" PRIMARY SUBSYSTEM NOT KNOWN AT THIS TIME
		.... 1...		SCSMVSC	"X'08'" MVS CONSOLE ALTERING COMMANDS MAY BE USED
		.... .1..		SCSJES3C	"X'04'" JES3 CONSOLE ALTERING COMMANDS MAY BE USED

Comment

EQU X'02'-X'01' RESERVED

End of Comment

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
		1...		SCSAUTHM	"X'80'" MASTER CONSOLE AUTHORITY
		.1..		SCSAUTHP	"X'40'" PSEUDO 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

Comment

EQU X'04'-X'01 RESERVED FOR CONSOLE
AUTHORITY INFORMATION

End of Comment

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
52	(34)	BITSTRING	4	SCSUNIT4 (0)	4-DIGIT UNIT NAME
52	(34)	BITSTRING	1		RESERVED
53	(35)	BITSTRING	3	SCSUNIT	EBCDIC UNIT NAME OF REQUESTED CONSOLE (3-DIGIT)
56	(38)	ADDRESS	4	SCSXMCSP	POINTER TO STORAGE FOR XSUL
60	(3C)	SIGNED	4	SCSRSV6 (5)	RESERVED
60	(3C)	X'50'	0	SCSPLEN	"*-SCSRPLST" LENGTH OF PARAMETER LIST DSECT

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SCSRTCD	THE ROUTING CODES
0	(0)	BITSTRING	1	SCSRTD01	FIRST BYTE OF ROUTING CODES
		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		SCSRD008	"X'01'" TELEPROCESSING CONTROL
1	(1)	BITSTRING	1	SCSRTD02	SECOND BYTE OF ROUTING CODES
		1...		SCSRD009	"X'80'" SYSTEM SECURITY

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		.1..		SCSRD010	"X'40'" SYSTEM/ERROR MAINTENANCE
		..1.		SCSRD011	"X'20'" PROGRAMMER INFORMATION
		...1		SCSRD012	"X'10'" EMULATOR INFORMATION
		.... 1...		SCSRD013	"X'08'" USER ROUTING CODE
		.... .1..		SCSRD014	"X'04'" USER ROUTING CODE
		.... ..1.		SCSRD015	"X'02'" USER ROUTING CODE
		1		SCSRD016	"X'01'" USER ROUTING CODE
2	(2)	BITSTRING	1	SCSRTD03	THIRD BYTE OF ROUTING CODES
		1...		SCSRD017	"X'80'" USER ROUTING CODE
		.1..		SCSRD018	"X'40'" USER ROUTING CODE
		..1.		SCSRD019	"X'20'" USER ROUTING CODE
		...1		SCSRD020	"X'10'" USER ROUTING CODE
		.... 1...		SCSRD021	"X'08'" USER ROUTING CODE
		.... .1..		SCSRD022	"X'04'" USER ROUTING CODE
		.... ..1.		SCSRD023	"X'02'" USER ROUTING CODE
		1		SCSRD024	"X'01'" USER ROUTING CODE
3	(3)	BITSTRING	1	SCSRTD04	FOURTH BYTE OF ROUTING CODES
		1...		SCSRD025	"X'80'" USER ROUTING CODE
		.1..		SCSRD026	"X'40'" USER ROUTING CODE
		..1.		SCSRD027	"X'20'" USER ROUTING CODE
		...1		SCSRD028	"X'10'" USER ROUTING CODE
		.... 1...		SCSRD029	"X'08'" RESERVED
		.... .1..		SCSRD030	"X'04'" RESERVED
		.... ..1.		SCSRD031	"X'02'" RESERVED
		1		SCSRD032	"X'01'" RESERVED
4	(4)	BITSTRING	1	SCSRTD05	FIFTH BYTE OF ROUTING CODES
		1...		SCSRD033	"X'80'" RESERVED
		.1..		SCSRD034	"X'40'" RESERVED
		..1.		SCSRD035	"X'20'" RESERVED
		...1		SCSRD036	"X'10'" RESERVED
		.... 1...		SCSRD037	"X'08'" RESERVED
		.... .1..		SCSRD038	"X'04'" RESERVED
		.... ..1.		SCSRD039	"X'02'" RESERVED
		1		SCSRD040	"X'01'" RESERVED
5	(5)	BITSTRING	1	SCSRTD06	SIXTH BYTE OF ROUTING CODES
		1...		SCSRD041	"X'80'" JOB STATUS MESSAGE
		.1..		SCSRD042	"X'40'" GENERAL INFO. ABOUT JES2 OR JES3
		..1.		SCSRD043	"X'20'" RESERVED FOR JES USAGE
		...1		SCSRD044	"X'10'" RESERVED FOR JES USAGE
		.... 1...		SCSRD045	"X'08'" RESERVED FOR JES USAGE
		.... .1..		SCSRD046	"X'04'" RESERVED FOR JES USAGE
		.... ..1.		SCSRD047	"X'02'" RESERVED FOR JES USAGE
		1		SCSRD048	"X'01'" RESERVED FOR JES USAGE
6	(6)	BITSTRING	1	SCSRTD07	SEVENTH BYTE OF ROUTING CODES
		1...		SCSRD049	"X'80'" RESERVED FOR JES USAGE
		.1..		SCSRD050	"X'40'" RESERVED FOR JES USAGE
		..1.		SCSRD051	"X'20'" RESERVED FOR JES USAGE
		...1		SCSRD052	"X'10'" RESERVED FOR JES USAGE
		.... 1...		SCSRD053	"X'08'" RESERVED FOR JES USAGE
		.... .1..		SCSRD054	"X'04'" RESERVED FOR JES USAGE
		.... ..1.		SCSRD055	"X'02'" RESERVED FOR JES USAGE
		1		SCSRD056	"X'01'" RESERVED FOR JES USAGE
7	(7)	BITSTRING	1	SCSRTD08	EIGHTH BYTE OF ROUTING CODES
		1...		SCSRD057	"X'80'" RESERVED FOR JES USAGE
		.1..		SCSRD058	"X'40'" RESERVED FOR JES USAGE
		..1.		SCSRD059	"X'20'" RESERVED FOR JES USAGE
		...1		SCSRD060	"X'10'" RESERVED FOR JES USAGE
		.... 1...		SCSRD061	"X'08'" RESERVED FOR JES USAGE
		.... .1..		SCSRD062	"X'04'" RESERVED FOR JES USAGE
		.... ..1.		SCSRD063	"X'02'" RESERVED FOR JES USAGE
		1		SCSRD064	"X'01'" RESERVED FOR JES USAGE
8	(8)	BITSTRING	1	SCSRTD09	NINTH BYTE OF ROUTING CODES
		1...		SCSRD065	"X'80'" PROCESSOR RELATED MESSAGE
		.1..		SCSRD066	"X'40'" PROCESSOR RELATED MESSAGE

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		..1.		SCSRD067	"X'20'" PROCESSOR RELATED MESSAGE
		...1		SCSRD068	"X'10'" PROCESSOR RELATED MESSAGE
		.... 1...		SCSRD069	"X'08'" PROCESSOR RELATED MESSAGE
		.... .1..		SCSRD070	"X'04'" PROCESSOR RELATED MESSAGE
		.... ..1.		SCSRD071	"X'02'" PROCESSOR RELATED MESSAGE
		1		SCSRD072	"X'01'" PROCESSOR RELATED MESSAGE
9	(9)	BITSTRING	1	SCSRTD10	TENTH BYTE OF ROUTING CODES
		1...		SCSRD073	"X'80'" PROCESSOR RELATED MESSAGE
		.1..		SCSRD074	"X'40'" PROCESSOR RELATED MESSAGE
		..1.		SCSRD075	"X'20'" PROCESSOR RELATED MESSAGE
		...1		SCSRD076	"X'10'" PROCESSOR RELATED MESSAGE
		.... 1...		SCSRD077	"X'08'" PROCESSOR RELATED MESSAGE
		.... .1..		SCSRD078	"X'04'" PROCESSOR RELATED MESSAGE
		.... ..1.		SCSRD079	"X'02'" PROCESSOR RELATED MESSAGE
		1		SCSRD080	"X'01'" PROCESSOR RELATED MESSAGE
10	(A)	BITSTRING	1	SCSRTD11	ELEVENTH BYTE OF ROUTING CODES
		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
		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
		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
		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
		1...		SCSRD113	"X'80'" DEVICE RELATED MESSAGE
		.1..		SCSRD114	"X'40'" DEVICE RELATED MESSAGE
		..1.		SCSRD115	"X'20'" DEVICE RELATED MESSAGE
		...1		SCSRD116	"X'10'" DEVICE RELATED MESSAGE
		.... 1...		SCSRD117	"X'08'" DEVICE RELATED MESSAGE
		.... .1..		SCSRD118	"X'04'" DEVICE RELATED MESSAGE
		.... ..1.		SCSRD119	"X'02'" DEVICE RELATED MESSAGE
		1		SCSRD120	"X'01'" DEVICE RELATED MESSAGE
15	(F)	BITSTRING	1	SCSRTD16	SIXTEENTH BYTE OF ROUTING CODES
		1...		SCSRD121	"X'80'" DEVICE RELATED MESSAGE
		.1..		SCSRD122	"X'40'" DEVICE RELATED MESSAGE
		..1.		SCSRD123	"X'20'" DEVICE RELATED MESSAGE

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		...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
15	(F)	X'10'	0	SCSRLEN	"*-SCSRTCD" LENGTH OF ROUTING CODES DSECT
15	(F)	X'60'	0	SCSLEN	"SCSPLEN+SCSRLEN" LENGTH OF ALL IEZVG100 DSECTS

Comment

SUBSYSTEM CONSOLE SERVICE ROUTINE RETURN CODES
RETURNED IN REGISTER 15

End of Comment

15	(F)	X'0'	0	SCSROK	"0" THE REQUESTED FUNCTIONS HAVE BEEN PERFORMED
15	(F)	X'4'	0	SCSRNTFD	"4" A CONSOLE COULD NOT BE ASSIGNED TO THE SYSTEM COMPONENT BECAUSE AN AVAILABLE CONSOLE COULD NOT BE FOUND
15	(F)	X'8'	0	SCSRNAVL	"8" THE REQUESTED CONSOLE WAS NOT AVAILABLE TO BE DEDICATED TO A SYSTEM COMPONENT.
15	(F)	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.

IEZVG100 Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
SCSACRO	0		SCSJES3C	24	4
SCSASID	26		SCSLEN	F	60
SCSATI	22		SCSMVSC	24	8
SCSAUTH	6	10	SCSNAME	10	
SCSAUTHC	A	10	SCSNMSTC	A	20
SCSAUTHF	28		SCSNMSTR	6	20
SCSAUTHM	28	80	SCSNTDEF	23	80
SCSAUTHP	28	40	SCSNTKWN	24	80
SCSAUTH1	28	20	SCSOBTAN	5	80
SCSAUTH2	28	10	SCSOBTNC	9	80
SCSAUTH3	28	8	SCSPJESN	2C	
SCSBRDFC	9	8	SCSPLEN	3C	50
SCSBRDNC	9	10	SCSPMSTC	A	40
SCSBRDOF	5	8	SCSPMSTR	6	40
SCSBRDON	5	10	SCSPNTKN	24	10
SCSCNDEF	23	40	SCSPROTC	9	1
SCSCNID	20		SCSPROTO	5	1
SCSCNSTF	23		SCSRD001	0	80
SCSCOMP	9		SCSRD002	0	40
SCSCOMP1	9		SCSRD003	0	20
SCSCOMP2	A		SCSRD004	0	10
SCSCOMP3	B		SCSRD005	0	8
SCSCOMP4	C		SCSRD006	0	4
SCSDEMSC	9	40	SCSRD007	0	2
SCSDEMSL	5	40	SCSRD008	0	1
SCSDSTAT	5	2	SCSRD009	1	80
SCSFLGS	24		SCSRD010	1	40
SCSFLGS1	24		SCSRD011	1	20
SCSFLGS2	25		SCSRD012	1	10
SCSFUNC1	5		SCSRD013	1	8
SCSFUNC2	6		SCSRD014	1	4
SCSFUNC3	7		SCSRD015	1	2
SCSFUNC4	8		SCSRD016	1	1
SCSINUSE	23	20	SCSRD017	2	80

Name	Hex Offset	Hex Value
SCSRD018	2	40
SCSRD019	2	20
SCSRD020	2	10
SCSRD021	2	8
SCSRD022	2	4
SCSRD023	2	2
SCSRD024	2	1
SCSRD025	3	80
SCSRD026	3	40
SCSRD027	3	20
SCSRD028	3	10
SCSRD029	3	8
SCSRD030	3	4
SCSRD031	3	2
SCSRD032	3	1
SCSRD033	4	80
SCSRD034	4	40
SCSRD035	4	20
SCSRD036	4	10
SCSRD037	4	8
SCSRD038	4	4
SCSRD039	4	2
SCSRD040	4	1
SCSRD041	5	80
SCSRD042	5	40
SCSRD043	5	20
SCSRD044	5	10
SCSRD045	5	8
SCSRD046	5	4
SCSRD047	5	2
SCSRD048	5	1
SCSRD049	6	80
SCSRD050	6	40
SCSRD051	6	20
SCSRD052	6	10
SCSRD053	6	8
SCSRD054	6	4
SCSRD055	6	2
SCSRD056	6	1
SCSRD057	7	80
SCSRD058	7	40
SCSRD059	7	20
SCSRD060	7	10
SCSRD061	7	8
SCSRD062	7	4
SCSRD063	7	2
SCSRD064	7	1
SCSRD065	8	80
SCSRD066	8	40
SCSRD067	8	20
SCSRD068	8	10
SCSRD069	8	8
SCSRD070	8	4
SCSRD071	8	2
SCSRD072	8	1
SCSRD073	9	80
SCSRD074	9	40
SCSRD075	9	20
SCSRD076	9	10
SCSRD077	9	8
SCSRD078	9	4
SCSRD079	9	2
SCSRD080	9	1
SCSRD081	A	80
SCSRD082	A	40
SCSRD083	A	20
SCSRD084	A	10
SCSRD085	A	8
SCSRD086	A	4
SCSRD087	A	2
SCSRD088	A	1
SCSRD089	B	80
SCSRD090	B	40
SCSRD091	B	20
SCSRD092	B	10
SCSRD093	B	8
SCSRD094	B	4
SCSRD095	B	2
SCSRD096	B	1
SCSRD097	C	80
SCSRD098	C	40
SCSRD099	C	20
SCSRD100	C	10
SCSRD101	C	8
SCSRD102	C	4
SCSRD103	C	2
SCSRD104	C	1
SCSRD105	D	80
SCSRD106	D	40
SCSRD107	D	20
SCSRD108	D	10
SCSRD109	D	8
SCSRD110	D	4
SCSRD111	D	2
SCSRD112	D	1
SCSRD113	E	80
SCSRD114	E	40
SCSRD115	E	20
SCSRD116	E	10
SCSRD117	E	8
SCSRD118	E	4
SCSRD119	E	2
SCSRD120	E	1
SCSRD121	F	80
SCSRD122	F	40
SCSRD123	F	20
SCSRD124	F	10
SCSRD125	F	8
SCSRD126	F	4
SCSRD127	F	2
SCSRD128	F	1
SCSRELSC	9	20
SCSRELSE	5	20
SCSRGRPC	A	80
SCSRLCSY	6	8
SCSRLEN	F	10
SCSRLGRP	6	80
SCSRLSYC	A	8
SCSRNAVL	F	8
SCSRNCMP	F	C
SCSRNTFD	F	4
SCSROK	F	0
SCSRPLST	0	
SCSRSV1	D	
SCSRSV5	29	
SCSRSV6	3C	
SCSRSYNM	18	
SCSRTCD	0	
SCSRTCDC	9	4
SCSRTCDF	5	4

Name	Hex Offset	Hex Value
SCSRTCDP	30	
SCSRTD01	0	
SCSRTD02	1	
SCSRTD03	2	
SCSRTD04	3	
SCSRTD05	4	
SCSRTD06	5	
SCSRTD07	6	
SCSRTD08	7	
SCSRTD09	8	
SCSRTD10	9	
SCSRTD11	A	
SCSRTD12	B	
SCSRTD13	C	
SCSRTD14	D	
SCSRTD15	E	
SCSRTD16	F	
SCSSP211	4	1
SCSSP220	4	2
SCSSP440	4	3
SCSSTATC	9	2
SCSTYPE1	24	40
SCSUNIT	35	
SCSUNIT4	34	
SCSVER	4	
SCSVERSN	4	3
SCSXMCSP	38	

IFAEDIDF Programming Interface information

Programming Interface information

IFAEDIDF

End of Programming Interface information

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IFAEDIDF Heading Information

Common Name: IFAEDxxx IDF (return codes and output areas)
Macro ID: IFAEDIDF
DSECT Name: EDOI EDAAHDR EDAAE
Owning Component: SMF (SC100)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: Caller-supplied
Key: Caller-supplied
Residency: Caller-supplied
Size: Variable
EDOI -- X'0010' bytes
EDAAE -- X'0048' bytes
EDAAHDR -- X'0020' bytes
Created by: Caller and passed as parameter on ANSAREA parameter on call to IFAEDLIS
Caller and passed as parameter on OUTPUTINFO parameter on call to IFAEDSTA
Pointed to by: IFAEDLIS parameter list
IFAEDSTA parameter list
Serialization: None required
Function: Provides return code equates for the IFAEDxxx services.

Maps the ansarea data returned by the IFAEDLIS service.

Maps the outputinfo data returned by the IFAEDSTA service.

For IFAEDSTA, the EDOI DSECT maps the outputinfo area.

For IFAEDLIS, the returned information consists of a header (EDAAHDR) which indicates how many Registered entries (EdaahNumR, first address in EdaahFirstRAddr) and State entries (EdaahNumS, first address in EdaahFirstSAddr) follow. There is also 0 or 1 Status entry (address in EdaahStatusAddr, or 0) to indicate the policy entry that would be used to determine the state of the given product.

Registered, state, and status entries are all mapped by Edaae. Certain fields apply only to one or the other, and are commented appropriately.

IFAEDIDF 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	EDOI	
0	(0)	BITSTRING	1	EDOIFLAGS	
		1...		EDOIREGISTERED	
					"X'80'" The product is registered
		.1..		EDOISTATUSNOTDEFINED	
					"X'40'" The product is not known to be enabled or disabled.
		..1.		EDOISTATUSENABLED	
					"X'20'" The product is enabled.

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
		...1		EDOINOTALLFEATURESRETURNED	"X'10'" The featureslen area was too small to hold the features provided at registration time. Field EdoiNeededFeaturesLen contains the size provided at registration time.
1	(1)	CHARACTER	3		
4	(4)	SIGNED	4	EDOINEEDEDFEATURESLEN	The featureslen size provided at registration time.
8	(8)	CHARACTER	6	EDOIPRODVERSRELMOD	
8	(8)	CHARACTER	2	EDOIPRODVERS	The version information provided at registration time.
10	(A)	CHARACTER	2	EDOIPRODREL	The release information provided at registration time.
12	(C)	CHARACTER	2	EDOIPRODMOD	The mod level information provided at registration time.
14	(E)	CHARACTER	2		

Comment

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

End of Comment

14	(E)	X'0'	0	IFAEDREG_TYPE_STANDARD	"0"
14	(E)	X'2'	0	IFAEDREG_TYPE_REQUIRED	"2" The register request should complete even if the policy indicates that the product is disabled. This would be used when registering solely so your status can be queried.
14	(E)	X'4'	0	IFAEDREG_TYPE_NOREPORT	"4" The register request should not be reported upon by display command and SMF report. This might be used when registering solely so the status can be queried.
14	(E)	X'8'	0	IFAEDREG_TYPE_LICENSEDUNDERPROD	"8" The registering feature is not separately licensed. Rather, the license is associated with the product specified by the prodname parameter.
14	(E)	X'10'	0	IFAEDREG_TYPE_DISABLEDMESSAGE	"16" If the product is found to be disabled, have the system issue the appropriate message, rather than the caller having to do it.
14	(E)	X'20'	0	IFAEDREG_TYPE_NOTFOUNDDISABLED	"32" If no enable/disable policy entry matches this product, treat the product as disabled, rather than treating it as enabled.

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	

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

14	(E)	X'0'	0	IFAEDSTA_SUCCESS	"0" Status service completed successfully
14	(E)	X'4'	0	IFAEDSTA_NOTDEFINED	"4" The status service found no entry corresponding to the input product.
14	(E)	X'8'	0	IFAEDSTA_NOTAVAILABLE	"8" Status service is not available on this system.
14	(E)	X'10'	0	IFAEDSTA_NOTTASKMODE	"16" Status service was not called in task mode.
14	(E)	X'14'	0	IFAEDSTA_XM	"20" Status service was not called with P=H=S
14	(E)	X'24'	0	IFAEDSTA_LOCKED	"36" Status service was called holding a system lock
14	(E)	X'28'	0	IFAEDSTA_FRR	"40" Status service was called having an FRR

Comment

Product Enable/Disable List Constants

End of Comment

14	(E)	X'1'	0	IFAEDLIS_TYPE_REGISTERED	"1" Return the registration entry/entries corresponding to the input product.
14	(E)	X'2'	0	IFAEDLIS_TYPE_STATE	

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					"2" Return the state entry/entries corresponding to the input product.
14	(E)	X'4'	0	IFAEDLIS_TYPE_STATUS	"4" Return the status entry corresponding to the input product.
14	(E)	X'8'	0	IFAEDLIS_TYPE_NOREPORT	"8" When returning registration entries, include those for which the IFAEDREG call specified Ifaedreg_Type_NoReport. If not requested, those entries are not returned.

Comment

Product Enable/Disable List Return Codes
Note: 0C4 abend if bad address provided in parmlist or user data

End of Comment

14	(E)	X'0'	0	IFAEDLIS_SUCCESS	"0" List service completed successfully
14	(E)	X'4'	0	IFAEDLIS_NOTALLDATARETURNED	"4" List service had more data to return that would fit in the provided answer area. All the complete entries that would fit were returned.
14	(E)	X'8'	0	IFAEDLIS_NOTAVAILABLE	"8" List service is not available on this system.
14	(E)	X'C'	0	IFAEDLIS_ANSAREATOOSMALL	"12" The answer area, indicated by the answer len parameter is not large enough to hold the answer area header (DSECT EdaahDR).
14	(E)	X'10'	0	IFAEDLIS_NOTTASKMODE	"16" List service was not called in task mode.
14	(E)	X'14'	0	IFAEDLIS_XM	"20" List service was not called with P=H=S
14	(E)	X'20'	0	IFAEDLIS_BADTYPE	"32" The type parameter did not specify a word with a value formed from adding any combination of IFAEDLIS_TYPE_REGISTERED, IFAEDLIS_TYPE_STATE, IFAEDLIS_TYPE_STATUS, and IFAEDLIS_TYPE_NOREPORT.
14	(E)	X'24'	0	IFAEDLIS_LOCKED	"36" List service was called holding a system lock
14	(E)	X'28'	0	IFAEDLIS_FRR	"40" List service was called having an FRR
14	(E)	X'10'	0	EDOI_LEN	"*-EDOI"

Offsets Dec	Offsets 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 EdaahFirstRAddr.
4	(4)	SIGNED	4	EDAAHNUMS	Number of Edaae entries which follow indicating state entries. The first one is pointed to by EdaahFirstSAddr.
8	(8)	SIGNED	4	EDAAHTLEN	Total length of answer area needed to contain all the requested information. This includes the area for the records that were returned on this call.
12	(C)	ADDRESS	4	EDAAHFIRSTRADDR	Address of first registered entry Edaae
16	(10)	ADDRESS	4	EDAAHFIRSTSADDR	Address of first state entry Edaae
20	(14)	ADDRESS	4	EDAAHSTATUSADDR	Address of the entry that represents the policy entry that would be used to determine if the input product was enabled. 0 if no such policy entry exists.
24	(18)	CHARACTER	8		Unused
24	(18)	X'20'	0	EDAAHDR_LEN	"*-EDAAHDR"

IFAEDIDF Cross Reference

Offsets Dec	Offsets 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. EdaahNumR (for the registered queue) or EdaahNumS (for the state queue) must be used to determine how far along this chain to go. Not relevant for EdaahStatusAddr.
4	(4)	CHARACTER	62	EDAAEINFO	
4	(4)	CHARACTER	16	EDAAEPRODOWNER	Product owner
20	(14)	CHARACTER	16	EDAAEPRODNAME	Product name
36	(24)	CHARACTER	16	EDAAEFEATURENAME	Feature name
52	(34)	CHARACTER	2	EDAAEPRODVERS	Product version
54	(36)	CHARACTER	2	EDAAEPRODREL	Product release
56	(38)	CHARACTER	2	EDAAEPRODMOD	Product mod level
58	(3A)	CHARACTER	8	EDAAEPRODID	Product ID
66	(42)	BITSTRING	1	EDAAEFLAGS	Flags
		1...		EDAAESTATUSNOTDEFINED	"X'80'" This will never be on for entries on the state queue. If on, indicates that the state information does not have an entry that matches this product.
		.1..		EDAAESTATUSENABLED	"X'40'" If on, indicates that the product is considered to be enabled
		..1.		EDAAENOREPORT	"X'20'" If on, indicates that the product registered with 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		Unused
68	(44)	SIGNED	4	EDAAENUMINSTANCES	Number of concurrent instances of this registration
68	(44)	X'48'	0	EDAAE_LEN	"*-EDAAE"

IFAEDIDF Cross Reference

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

Name	Hex Offset	Hex Value
	4	
EDOINOTALLFEATURESRETURNED		
	0	10
EDOIPRODMOD	C	
EDOIPRODREL	A	
EDOIPRODVERS	8	
EDOIPRODVERSRELMOD		
	8	
EDOIREGISTERED		
	0	80
EDOISTATUSENABLED		
	0	20
EDOISTATUSNOTDEFINED		
	0	40
IFAEDDRG_FRR	E	28
IFAEDDRG_LOCKED		
	E	24
IFAEDDRG_NOTAUTH		
	E	18
IFAEDDRG_NOTAVAILABLE		
	E	8
IFAEDDRG_NOTREGISTERED		
	E	C
IFAEDDRG_NOTTASKMODE		
	E	10
IFAEDDRG_SUCCESS		
	E	0
IFAEDDRG_XM	E	14
IFAEDLIS_ANSAREATOOSMALL		
	E	C
IFAEDLIS_BADTYPE		
	E	20
IFAEDLIS_FRR	E	28
IFAEDLIS_LOCKED		
	E	24
IFAEDLIS_NOTALLDATARETURNED		
	E	4
IFAEDLIS_NOTAVAILABLE		
	E	8
IFAEDLIS_NOTTASKMODE		
	E	10
IFAEDLIS_SUCCESS		
	E	0
IFAEDLIS_TYPE_NOREPORT		
	E	8
IFAEDLIS_TYPE_REGISTERED		
	E	1
IFAEDLIS_TYPE_STATE		
	E	2
IFAEDLIS_TYPE_STATUS		
	E	4
IFAEDLIS_XM	E	14
IFAEDREG_BADFEATURESLEN		
	E	18
IFAEDREG_BADTYPE		
	E	20
IFAEDREG_DISABLED		
	E	4
IFAEDREG_FRR	E	28
IFAEDREG_LIMITEXCEEDED		
	E	C
IFAEDREG_LOCKED		
	E	24
IFAEDREG_NOSTORAGE		
	E	1C
IFAEDREG_NOTAVAILABLE		
	E	8
IFAEDREG_NOTTASKMODE		
	E	10
IFAEDREG_SUCCESS		
	E	0
IFAEDREG_TYPE_DISABLEDMESSAGE		
	E	10
IFAEDREG_TYPE_LICENSEDUNDERPROD		
	E	8
IFAEDREG_TYPE_NOREPORT		
	E	4
IFAEDREG_TYPE_NOTFOUNDDISABLED		
	E	20
IFAEDREG_TYPE_REQUIRED		
	E	2
IFAEDREG_TYPE_STANDARD		
	E	0
IFAEDREG_XM	E	14
IFAEDSTA_FRR	E	28
IFAEDSTA_LOCKED		
	E	24
IFAEDSTA_NOTAVAILABLE		
	E	8
IFAEDSTA_NOTDEFINED		
	E	4
IFAEDSTA_NOTTASKMODE		
	E	10
IFAEDSTA_SUCCESS		
	E	0
IFAEDSTA_XM	E	14

IFAENF37 Programming Interface information

Programming Interface information

IFAENF37

End of Programming Interface information

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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)
FREQUENCY = 1 per ENF (Event Code #37) Signal
Created by: SMF
Pointed to by: N/A
Serialization: None
Function: SMF Mapping Macro for ENF (Event Code #37) users

IFAENF37 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)	CHARACTER	6	ENF37CID	'ENF37 ' EBCDIC
30	(1E)	CHARACTER	2	ENF37V1	Version 1 Indicator

IFAENF37 Cross Reference

Name	Hex Offset	Hex Value
ENF37	0	
ENF37CHR	18	
ENF37CID	18	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
ENF37RSV	A	
ENF37TOD	10	
ENF37VER	6	
ENF37V1	1E	F0F1

IFAUCCC Programming Interface information

Programming Interface information

IFAUCCC

End of Programming Interface information

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IFAUCCC Heading Information

Common Name: Usage Report Program Customer Data
Macro ID: IFAUCCC
DSECT Name: UCCC
Owning Component: Usage Report Program (SCURP)
Eye-Catcher ID: UCCC
Offset: '00'X
Length: 4
Storage Attributes: Main Storage: No
Virtual Storage: Yes
Auxiliary Storage: Yes
Subpool: 2
Key: 8
Data Space: No
Residency: 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	UCCCPHON	Customer contact's phone
328	(148)	CHARACTER	1	UCCCDATA	Customer data origination
329	(149)	CHARACTER	15	UCCCRSV1	Reserved
329	(149)	X'158'	0	UCCCEND	"*" End of UCCC
329	(149)	X'158'	0	UCCCSIZE	"UCCCEND-UCCC" Size of UCCC
329	(149)	X'C3C3C3'	0	UCCCCID	"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
UCCC	0	
UCCCADD1	30	
UCCCADD2	58	
UCCCADD3	80	
UCCCADD4	A8	
UCCCADD5	D0	
UCCCADD6	F8	
UCCCCID	149	C3C3C3
UCCCDATA	148	
UCCCEND	149	158
UCCCID	0	
UCCCLEN	4	
UCCCNAME	8	
UCCCONTA	120	
UCCCPHON	134	
UCCCRESD	7	
UCCCRSV1	149	
UCCCSIZE	149	158
UCCCS29	149	2
UCCCVERC	149	2
UCCCVERS	6	
UCCC313	149	1

IFAUMCC Programming Interface information

Programming Interface information

IFAUMCC

End of Programming Interface information

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IFAUMCC Heading Information

Common Name: Usage Report Program Processor Table
Macro ID: IFAUMCC
DSECT Name: UMCC UMCPROCT
Owning Component: Usage Report Program (SCURP)
Eye-Catcher ID: UMCC
Offset: '00'X
Length: 4
Storage Attributes: Main Storage: No
Virtual Storage: Yes
Auxiliary Storage: Yes
Subpool: 2
Key: 8
Data Space: No
Residency: 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	UMCPTYPE	Processor Type - e.g. '9021'x
2	(2)	CHARACTER	4	UMCPTYPC	Processor Type - e.g. '9021'
6	(6)	CHARACTER	8	UMCPMOD	Processor Model - e.g. '982 '
14	(E)	BITSTRING	1	UMCPVER	Version Number
15	(F)	SIGNED	1	UMCPCPCT	CP Count
16	(10)	BITSTRING	2	UMCPFLAG (0)	Flags
16	(10)	BITSTRING	1	UMCPFLG1	Flag byte 1
		1...		UMCPDCCP	"X'80'" On= Processor is coupling capable
		.1..		UMCPNVAL	"X'40'" On= version in this entry not valid
		..1.		UMCPNVPS	"X'20'" On= this entry cannot be used in the PROCESSOR statement
		...1		UMCPRMOD	"X'10'" On= additional processing needed to determine processor model

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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	UMCPRSV2	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
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
UMCPNVPS	10	20
UMCPRMOD	10	10
UMCPROCT	0	
UMCPRSV2	30	
UMCPTEND	30	32
UMCPTLEN	30	32
UMCPTYPC	2	
UMCPTYPE	0	
UMCPVER	E	

IFAUOCC Programming Interface information

Programming Interface information

IFAUOCC

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IFAUOCC Heading Information

Common Name: Usage Report Program Product Owner Data
Macro ID: IFAUOCC
DSECT Name: UOCC
Owning Component: Usage Report Program (SCURP)
Eye-Catcher ID: UOCC
Offset: '00'X
Length: 4
Storage Attributes: Main Storage: No
Virtual Storage: Yes
Auxiliary Storage: Yes
Subpool: 2
Key: 8
Data Space: No
Residency: 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	"C'UOCC'" 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 Programming Interface information

Programming Interface information

IFAUPCC

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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 YYYMMDD format
44	(2C)	CHARACTER	30	UPCCSTAA	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 UPCCSTAA array Product status array - one entry for each of last three measurement periods
0	(0)	BITSTRING	1	UPCCDAT	1st day of measurement period in which START or STOP takes effect Blank if UPCCSET=0. Date in YYYMMDD 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

IFAUPCC 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 Programming Interface information

Programming Interface information

IFAUPRM

End of Programming Interface information

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IFAUPRM Heading Information

Common Name: Usage Report Program Vendor Exit Parm List
Macro ID: IFAUPRM
DSECT Name: UPRM
Owning Component: Usage Report Program (SCURP)
Eye-Catcher ID: UPRM
Offset: '00'X
Length: 4
Storage Attributes: Main Storage: No
Virtual Storage: Yes
Auxiliary Storage: Yes
Subpool: 2
Key: 8
Data Space: No
Residency: 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	Offsets 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	UPRMCD	Pointer to Customer Data
20	(14)	ADDRESS	4	UPRMMCCT	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 subtyes
37	(25)	BITSTRING	3	UPRMIVRM (0)	IFAURP version, release and modification level
37	(25)	SIGNED	1	UPRMIVER	IFAURP version
37	(25)	X'3'	0	UPRMIVCU	"3" Current IFAURP version

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

84	(54)	X'0'	0	UPRMRCPR	"0" Process record
84	(54)	X'4'	0	UPRMRCIG	"4" Ignore record
84	(54)	X'8'	0	UPRMRCDI	"8" Process record, then disable exit
84	(54)	X'C'	0	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		UPRMHI	24	80
UPRM#OW11350	6	2	UPRMID	0	
UPRM#OW27078	6	3	UPRMIFAV	30	
UPRMCD	10		UPRMIMCU	27	2
UPRMCID	0	D7D9D4	UPRMIMOD	27	
UPRMCT	44		UPRMIRCU	26	1
UPRMDFCD	4E		UPRMIREL	26	
UPRMDFRD	4E	4	UPRMIVCU	25	3
UPRMDFSR	4E	2	UPRMIVER	25	
UPRMDFTC	4E	1	UPRMIVRM	25	
UPRMDSCD	4F		UPRMLEN	4	
UPRMEND	54	58	UPRMMCCT	14	
UPRMFC	7		UPRMMETR	54	
UPRMFCIN	7	1	UPRMMSGS	1C	
UPRMFCPR	7	2	UPRMPRNT	20	
UPRMFCTE	7	3	UPRMRCAG	54	C
UPRMFLAG	24		UPRMRCDI	54	8
UPRMFLG1	24		UPRMRCIG	54	4
UPRMFNOT	50		UPRMRCPR	54	0
UPRMHCD	2C		UPRMRDAT	40	

IFAUPRM Cross Reference

Name	Hex Offset	Hex Value
UPRMREC	8	
UPRMRSV2	48	
UPRMSIZE	54	58
UPRMUD	28	
UPRMUSID	18	
UPRMVD	C	
UPRMVERC	6	3
UPRMVERS	6	
UPRM313	6	1
UPRM89SU	24	40

IFAUSID Programming Interface information

Programming Interface information

IFAUSID

End of Programming Interface information

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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 yyyymmdd format.
44	(2C)	ADDRESS	4	USIDUOCC	Address of 1st UOCC
48	(30)	CHARACTER	16	USIDRSV2	Reserved
48	(30)	X'40'	0	USIDEND	"*" End of USID
48	(30)	X'40'	0	USIDSIZE	"USIDEND-USID" Size of USID

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	USIDTYPC	Type Number - e.g. '9021'
6	(6)	CHARACTER	8	USIDMOD	Model Number - e.g. '982 '
14	(E)	BITSTRING	3	USIDSERN	Serial Number
17	(11)	CHARACTER	7	USIDSERC	Serial Number as specified on PROCESSOR statement or keyword

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
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	USIDPRSV	Reserved
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
21	(15)	CHARACTER	12	USIDCLSC	Printable Cluster Number
33	(21)	BITSTRING	1	USIDCFLG	Flags
		1...		USIDCFND	"X'80'" On= Matched one cluster keyword for this USID to this processor (reset each run)
34	(22)	CHARACTER	16	USIDCRSV	Reserved
34	(22)	X'32'	0	USIDCEND	"*"
34	(22)	X'32'	0	USIDCSZE	"USIDCEND-USIDC"
34	(22)	X'E2C9C4'	0	USIDCID	"C'USID'" USID Eye Catcher
34	(22)	X'1'	0	USID313	"1" USID Version
34	(22)	X'1'	0	USIDVERC	"USID313" Current version

IFAUSID Cross Reference

Name	Hex Offset	Hex Value
USID	0	
USIDC	0	
USIDCCCN	20	
USIDCEND	22	32
USIDCFLG	21	
USIDCFND	21	80
USIDCID	22	E2C9C4
USIDCLSC	15	
USIDCLST	9	
USIDCMCN	22	
USIDCMOD	6	
USIDCNID	C	
USIDCPTR	1C	
USIDCRSV	22	
USIDCSZE	22	32
USIDCTYP	0	
USIDEND	30	40
USIDFLAG	7	
USIDFNDH	7	40
USIDHIST	7	80
USIDID	0	
USIDLEN	4	
USIDMOD	6	
USIDNEXT	8	
USIDNVAL	19	40
USIDP	0	
USIDPCCN	18	
USIDPDAT	24	
USIDPEND	1A	2A
USIDPFLG	19	
USIDPFND	19	80
USIDPMCN	1A	
USIDPPTR	14	
USIDPRSV	1A	
USIDPSZE	1A	2A
USIDRSV2	30	
USIDSERC	11	
USIDSERN	E	
USIDSIZE	30	40
USIDTYPC	2	
USIDTYPE	0	
USIDUOCC	2C	
USIDVER	18	
USIDVERC	22	1
USIDVERS	6	
USID313	22	1

IFAUVCC Programming Interface information

Programming Interface information

IFAUVCC

End of Programming Interface information

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IFAUVCC Heading Information

Common Name: Usage Report Program Vendor Data
Macro ID: IFAUVCC
DSECT Name: UVCC
Owning Component: Usage Report Program (SCURP)
Eye-Catcher ID: UVCC
Offset: '00'X
Length: 4
Storage Attributes: Main Storage: No
Virtual Storage: Yes
Auxiliary Storage: Yes
Subpool: 2
Key: 8
Data Space: No
Residency: 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	UVCCEP	Vendor Exit Entry Point
316	(13C)	CHARACTER	8	UVCCEN	Vendor Exit name
324	(144)	CHARACTER	8	UVCCDD	Vendor PRINTDD name
332	(14C)	CHARACTER	8	UVCCNUM	Customer number
340	(154)	CHARACTER	8	UVCCEXTL	Exit level designator
348	(15C)	CHARACTER	16	UVCCRSV1	Reserved
348	(15C)	X'16C'	0	UVCCEND	"*" End of UVCC
348	(15C)	X'16C'	0	UVCCSIZE	"UVCCEND-UVCC" Size of UVCC
348	(15C)	X'E5C3C3'	0	UVCCCID	"C'UVCC'" UVCC Eye Catcher
348	(15C)	X'1'	0	UVCC313	"1" UVCC Version
348	(15C)	X'1'	0	UVCCVERC	"UVCC313" Current version

IFAUVCC Cross Reference

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

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	Offsets 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 (DEMF) - MVS Version 3.7

End of Comment

356	(164)	SIGNED	4	IFBBUFP	DEMF BUFFER POINTER
360	(168)	SIGNED	4	IFBASCBP	DEMF BNGLOGR ASCB POINTER (MVS)
364	(16C)	SIGNED	4	(4)	DEMF RESERVED
380	(17C)	BITSTRING	1	IFBFLGS1	DEMF FLAGS1
381	(17D)	BITSTRING	1	IFBFLGS2	DEMF FLAGS2
		..1.		IFBNPDAA	"X'20'" NPDA MODULE AVAILABLE
382	(17E)	BITSTRING	1	IFBFLGS3	DEMF FLAGS3
383	(17F)	BITSTRING	1	IFBFLGS4	DEMF FLAGS4
384	(180)	SIGNED	4	IFBNPDA	ADDR OF NPDA SVC76 PROCESS PROCESSING MODULE
388	(184)	SIGNED	4	IFBNPDAC	ADDR OF NPDA CLEANUP RTN
392	(188)	SIGNED	4	IFBNWORK	ADDR OF NPDA LOCAL WORKAREA
396	(18C)	SIGNED	2	IFDNLNG	SIZE OF NPDA LOCAL WORKAREA
398	(18E)	SIGNED	2		RESERVED

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IFBDCBDC Cross Reference

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
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	IFBD080E	IFB080E WTO DOM id - set and cleared in IFBSVC76
404	(194)	X'198'	0	IFBDCB_END	"*" End of the data CSECT

IFBDCBDC Cross Reference

Name	Hex Offset	Hex Value
IFBASCBP	168	0
IFBBUFP	164	0
IFBDCB	10	
IFBDCB_END	194	198
IFBDCB_LOGCA_PTR	0	
IFBDCBDC	0	
IFBDEB	C	0
IFBD080E	194	0
IFBFLGS1	17C	0
IFBFLGS2	17D	0
IFBFLGS3	17E	0
IFBFLGS4	17F	0
IFBNPDA	180	0
IFBNPDAA	17D	20
IFBNPDAC	184	0
IFBNWORK	188	0
IFDNLNG	18C	0

IFBENF36 Programming Interface information

Programming Interface information

IFBENF36

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

- IFBENF36_RECORD_START

End of Programming Interface information

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

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
Comment					
Versions of data area					
End of Comment					
		....	...1	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 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

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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

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 Programming Interface information

Programming Interface information

IFBNTASM

End of Programming Interface information

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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	

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

Comment

The following values are used in the following fields:
IFBNT_LOGREC_CURRENT
IFBNT_LOGREC_PREVIOUS

End of Comment

	1	IFBNT_USE_DATASET	"X'01'" Logrec data set being used
	.... ..1.	IFBNT_USE_LOGSTREAM	"X'02'" Logrec log stream being used
	11	IFBNT_IGNORE_RECORDS	"X'03'" Logrec recording is ignored

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 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'0048' bytes
Created by: IGVGCAS (VSM address space creation module).

IEAIPL04 (VSM IPL Resource Initialization Module).

IGVSJOBI (VSM Job start resource manager).
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.

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Serialization: When writing to the CAUB, VSM uses the VSMFIX lock. When monitor programs read the CAUB, it would be best to do so with no serialization. (This is because holding the lock could impact system performance.) Note that this means that the CAUB could be freemained while being read. The CAUB may also be put on the queue of free CAUBs while being read. Monitors will need to handle this (e.g., a recovery routine could catch the reference to a freemained CAUB, and encountering a CAUB on the free queue could be taken as the end of the queue being run.) A CAUB on the free queue has a CAUB_ID field that is not 'CAUB'.

Function: Lists the number of bytes of common storage that are 'in use'. (Bytes that have been given to a caller of GETMAIN or STORAGE OBTAIN are 'in use'.)

The CAUB_Level field will change if the CAUB changes. Users should interrogate the CAUB_Level field, and ignore CAUBs with an unrecognized level.

There are 5 types of CAUBs:

-*- The job CAUB is a CAUB that describes storage owned by a job. In general, a job owns all the common storage that is GETMAINed when the address space in which the job runs is the home address space. (See the "Owner" keyword on the Getmain, Storage and Cpool macros for information about when the home address space is not the owner.)

-*- The address space CAUB describes storage obtained by an initiator address space when it is between jobs. For example, storage that is GETMAINed between the end of a batch job and the beginning of the next batch job is collected in the address space CAUB.

-*- The system CAUB describes storage owned by the system. The system owns common storage that was GETMAINed during times when it would be impossible or misleading to assign ownership to the job running in the home address space. For example, storage obtained during IPL, before any address spaces exist, is owned by the system. In addition, some operating system components explicitly indicate that the storage they obtain should be owned by the system.

-*- The "No Detail" CAUB describes common storage that was in use at the instant CSA tracking was stopped or started.

-*- An "Owner Gone" CAUB describes storage owned by a job that has terminated. These CAUBs are linked together on the "unowned" queue.

IGVCAUB Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	72	CAUB	Common area user block.
0	(0)	CHARACTER	52	CAUB_HEADER	Header for CAUB_Proper. (CAUB_Proper has the counts, CAUB_Header has owner information.)

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					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.
					End of Comment
0	(0)	ADDRESS	4	CAUB_UNOWNED_NEXT	Address of the next CAUB on the 'unowned' queue.
4	(4)	ADDRESS	4	CAUB_UNOWNED_PREV	Address of the previous CAUB on the 'unowned' queue. This is double threaded to make it easy to remove elements from the middle.
					Comment
					Fields that identify this control block as a CAUB.
					End of Comment
8	(8)	CHARACTER	4	CAUB_ID	Char string 'CAUB' - eyecatcher.
12	(C)	UNSIGNED	2	CAUB_LEVEL	Indicates the level of the CAUB. The value can be used to determine how the CAUB is mapped. CAUB_LEVEL_K1 indicates the HBB4430 level of this macro. Equate value CAUB_LEVEL_KCURRENT can be used to determine the most recent update level.
14	(E)	CHARACTER	2	*	Reserved
					Comment
					Fields that identify the job that owns some common storage.
					End of Comment
					Comment
					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.
					End of Comment
16	(10)	CHARACTER	36	CAUB_CALLERID	
16	(10)	CHARACTER	4	CAUB_ASN_WORD	Whole register is stored here, but only bits 16-31 are meaningful.
16	(10)	CHARACTER	2	*	Reserved, set to 0 when CAUB_ASN is stored.
18	(12)	BITSTRING	2	CAUB_ASN	Address Space Number (ASN) identifying the address space that is associated with the job that owns some common storage. Note: '00'X here means that this CAUB tracks 'system' storage, which is not associated with any address space. This field comes from ASCBASID.
20	(14)	CHARACTER	8	CAUB_JOBNAME	Name of the job that was active when the storage was obtained. This is taken from ASCBJBNI or ASCBJBNS.
28	(1C)	CHARACTER	8	CAUB_JOBID	Items from the JSAB that identify the owning job. These are obtained via the IAZXJSAB macro.

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
28	(1C)	CHARACTER	8	CAUB_WORKID	Work Unit ID, aka Job ID. This comes from the JSAB. (There is 1 'valid' JSAB per address space) This ID is NOT unique within an instance of MVS when running in a 'Poly-JES' environment. Also, this ID is null for entities started under the master scheduler subsystem (e.g., some system address spaces, some started tasks).

Comment

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.

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

Various flags.

End of Comment

44	(2C)	CHARACTER	4	CAUB_FLAGS	
44	(2C)	CHARACTER	1	CAUB_TYPE	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.
		1...		CAUB_UNOWNED	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.

Comment

No more than one of the following bits should be on. Any other combination indicates a VSM bug.

End of Comment

		.1..		CAUB_SYSTEM	If on, this CAUB is the 'system' CAUB. Common storage obtained by system functions should be charged to the system. Thus, the job CAUB is sometimes really the system CAUB. CAUB_System exists to make it easy to tell when this is the case.
		..1.		CAUB_JOB	If on, this CAUB is a 'job CAUB'. (See "Function" section for more information on 'job CAUB').
		...1		CAUB_ADDRESSSPACE	If on, this CAUB is an 'address space CAUB'. See "Function" section for more information on 'address space CAUB'
45	(2D)	CHARACTER	1	CAUB_DATAINCOMPLETE	Bits indicating that tracking was not enabled at some point during the life of this CAUB
		1...		CAUB_CSADATAINCOMPLETE	

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					If on, tracking for CSA data was not enabled at some point during the life of this CAUB
		.1..		CAUB_SQADATAINCOMPLETE	
					If on, tracking for SQA data was not enabled at some point during the life of this CAUB
48	(30)	CHARACTER	4	*	Reserved

Comment

The fields below contain a count of how much common storage is being used by the entity described in CAUB_Header.

End of Comment

52	(34)	CHARACTER	16	CAUB_COUNTS	
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	0	*	

IGVCAUB Constants

Len	Type	Value	Name	Description
4	CHARACTER	CAUB	CAUB_ID_K	Eyecatcher.
2	DECIMAL	0	CAUB_ASN_KSYSTEM	
				When CAUB_ASN contains this value, there is no owning address space - the storage is owned by the 'system'.
1	DECIMAL	1	CAUB_LEVEL_KCURRENT	
				Most recent level of the CAUB.

Comment

Constants are declared for every existing level of the CAUB.

End of Comment

1	DECIMAL	1	CAUB_LEVEL_K1	
				HBB4430 level

IGVCAUB Cross Reference

Name	Hex Offset	Hex Value
CAUB	0	
CAUB_ADDRESSSPACE	2C	10
CAUB_ASN	12	
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_FLAGS	2C	
CAUB_HEADER	0	
CAUB_ID	8	
CAUB_JOB	2C	20
CAUB_JOBID	1C	
CAUB_JOBNAME	14	
CAUB_LEVEL	C	
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 Heading Information

Common Name: Diagnostic traps indicators
Macro ID: IGVDGNB
DSECT Name: DGNB
Owning Component: VSM (SC1CH)
Eye-Catcher ID: DGNB
Offset: 0
Length: 4
Storage Attributes: Key: 0
Residency: EXTENDED NUCLEUS,Above 16M line
Size: 388 bytes
DGNB -- X'0184' 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 (0)	Flags
6	(6)	BITSTRING	1	DGNBFLAG1 (0)	First flag byte
		1...		DGNBDBNIP	"X'80'" Diagnostic branch needs to be enabled later in NIP
		.1..		DGNBSUBPOOLFILT	"X'40'" Subpool filtering is active
		..1.		DGNBKEYFILT	"X'20'" Key filtering is active

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Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
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	372	DGNBZERO (0)	Initialize to zeros
16	(10)	SIGNED	2	DGNBSYNCCNT	Update synchronization count
18	(12)	CHARACTER	2		Reserved
20	(14)	CHARACTER	24	DGNBBITS (0)	
20	(14)	CHARACTER	4	DGNBWORD1 (0)	
20	(14)	BITSTRING	1	DGNBBYTE1 (0)	
		1...		DGNB_TEMPMC1	"X'80'" For temporary use
		.1..		DGNB_TEMPMC2	"X'40'" For temporary use
		..1.		DGNB_TEMPMC3	"X'20'" For temporary use
		...1		DGNB_TEMPMC4	"X'10'" For temporary use
		.... 1...		DGNB_TEMPMC5	"X'08'" For temporary use
		.... .1..		DGNB_TEMPMC6	"X'04'" For temporary use
		.... ..1.		DGNB_TEMPMC7	"X'02'" For temporary use
		1		DGNB_TEMPMC8	"X'01'" For temporary use
21	(15)	BITSTRING	1	DGNBBYTE2 (0)	
		1...		DGNB_TEMPMC9	"X'80'" For temporary use
		.1..		DGNB_TEMPMC10	
					"X'40'" For temporary use
		..1.		DGNB_TEMPMC11	
					"X'20'" For temporary use
		...1		DGNB_TEMPMC12	
					"X'10'" For temporary use
		.... 1...		DGNB_TEMPMC13	
					"X'08'" For temporary use
		.... .1..		DGNB_TEMPMC14	
					"X'04'" For temporary use
		.... ..1.		DGNB_TEMPMC15	
					"X'02'" For temporary use
		1		DGNB_TEMPMC16	
					"X'01'" For temporary use
22	(16)	BITSTRING	1	DGNBBYTE3 (0)	
		1...		DGNB_TEMP1	"X'80'" For temporary use
		.1..		DGNB_TEMP2	"X'40'" For temporary use
		..1.		DGNB_TEMP3	"X'20'" For temporary use
		...1		DGNB_TEMP4	"X'10'" For temporary use
		.... 1...		DGNB_TEMP5	"X'08'" For temporary use
		.... .1..		DGNB_TEMP6	"X'04'" For temporary use
		.... ..1.		DGNB_TEMP7	"X'02'" For temporary use
		1		DGNB_TEMP8	"X'01'" For temporary use
23	(17)	BITSTRING	1	DGNBBYTE4 (0)	
		1...		DGNB_TEMP9	"X'80'" For temporary use
		.1..		DGNB_TEMP10	"X'40'" For temporary use
		..1.		DGNB_TEMP11	"X'20'" For temporary use
		...1		DGNB_TEMP12	"X'10'" For temporary use
		.... 1...		DGNB_TEMP13	"X'08'" For temporary use
		.... .1..		DGNB_TEMP14	"X'04'" For temporary use
		.... ..1.		DGNB_TEMP15	"X'02'" For temporary use
		1		DGNB_TEMP16	"X'01'" For temporary use
24	(18)	CHARACTER	4	DGNBWORD2 (0)	
24	(18)	BITSTRING	1	DGNBBYTE5 (0)	
		1...		DGNB_IGVINITCPOOL	
					"X'80'" Initialize Cpool storage
		.1..		DGNB_IGVUNCOND	
					"X'40'" Make all Freemains and STORAGE RELEASEs unconditional
		..1.		DGNB_IGVINITGETMAIN	
					"X'20'" Initialize GETMAINed storage
		...1		DGNB_IGVNEWPAGE24	
					"X'10'" Use new page for 24 bit Getmains
		.... 1...		DGNB_IGVNEWPAGE31	

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					"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 (0)	
		1...		DGNB_IEANOSUSPSYSTRC	
					"X'80'" Do not suspend system trace when WAIT task is dispatched
		.1..		DGNB_IEASCHEDULEV	
					"X'40'" SCHEDULE validity checking
		..1.		DGNB_IEASPINLOCKV	
					"X'20'" Spin lock validity checking
		...1		DGNB_IEAINITARSRB	
					"X'10'" Initialize access registers for SRB dispatch. Also does G64H
		.... 1...		DGNB_IEACMSETV	
					"X'08'" CMSET validity checking
		.... .1..		DGNB_IEASCHEDULETRACE	
					"X'04'" SCHEDULE tracing
		.... ..1.		DGNB_IEARISGNLTRACE	
					"X'02'" RISGNL tracing
		1		DGNB_IEARPSGNLTRACE	
					"X'01'" RPSGNL tracing
26	(1A)	BITSTRING	1	DGNBBYTE7 (0)	Reserved
		1...		DGNB_IEANOSDWA	
					"X'80'" (E)STAE(X) and ARR routines get no SDWA
		.1..		DGNB_IXCRECSTRALLOC	
					"X'40'" Do symrec recording for structure allocation
		..1.		DGNB_IEAINITREGSTASK	
					"X'20'" Initialize ARs and G64H for task dispatch
		...1		DGNB_IGVINITFREEMAIN	
					"X'10'" Initialize FREEMAINed storage
27	(1B)	BITSTRING	1	DGNBBYTE8	Reserved
28	(1C)	CHARACTER	16		Reserved
44	(2C)	CHARACTER	68	DGNBJOBS (0)	
44	(2C)	SIGNED	2	DGNB#JOBS	Count of how many Jobnames are in list. Maximum is 8.
46	(2E)	BITSTRING	1	DGNBJOBSFLAGS (0)	
					Flags
		1...		DGNBJOBNAMEWILD	
					"X'80'" At least one of the jobnames in the list contains a wildcard
47	(2F)	CHARACTER	1		Reserved
48	(30)	CHARACTER	8	DGNBJOBNAME	List of Jobnames
112	(70)	CHARACTER	68	DGNBASIDS (0)	
112	(70)	SIGNED	2	DGNB#ASIDS	Count of how many Asids are in list. Maximum is 16.
114	(72)	CHARACTER	2		Reserved
116	(74)	CHARACTER	4	DGNBASIDLIST (0)	List of Asids.
116	(74)	SIGNED	2	DGNBASIDSTART	
					Start Asid for range.
118	(76)	SIGNED	2	DGNBASIDSTOP	Stop Asid for range.
180	(B4)	CHARACTER	68	DGNBLENS (0)	
180	(B4)	SIGNED	2	DGNB#LENS	Count of how many lengths are in list. Maximum is 8.
182	(B6)	CHARACTER	2		Reserved
184	(B8)	CHARACTER	8	DGNBLENLIST (0)	List of lengths.
184	(B8)	SIGNED	4	DGNBLENSTART	Start length for range.
188	(BC)	SIGNED	4	DGNBLENSTOP	Stop length for range.
248	(F8)	BITSTRING	32	DGNBSUBPOOLBITS	
					Subpool N is being traced when TRSP_Bits(N+1) is on.
280	(118)	BITSTRING	2	DGNBKEYBITS	Key N is being traced when TRKEY_Bits(N+1) is on.

IGVDGNB Cross Reference

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
282	(11A)	CHARACTER	2	DGNBSTGINIT (0)	Data for storage initialization
282	(11A)	CHARACTER	1	DGNBSTGINITFLAGS (0)	
					Flags
		1...		DGNBSTGINITSPEC	
					"X'80'" Storage initialization value was specified
283	(11B)	CHARACTER	1	DGNBSTGINITVAL	
					Value for initializing CPOOL GET and Getmain/Storage Obtains
284	(11C)	CHARACTER	68	DGNBCHARDATALIST (0)	
284	(11C)	SIGNED	2	DGNB#CHARDATAS	
					Count of how many CharData fields are in the list. Maximum is 8.
286	(11E)	CHARACTER	2		Reserved
288	(120)	CHARACTER	8	DGNBCHARDATA	CharData value
352	(160)	CHARACTER	36	DGNBHEXDATALIST (0)	
352	(160)	SIGNED	2	DGNB#HEXDATAS	
					Count of how many HexData fields are in the list. Maximum is 8.
354	(162)	CHARACTER	2		Reserved
356	(164)	CHARACTER	4	DGNBHEXDATA	HexData value
356	(164)	X'C7D5C2'	0	DGNBIDC	"C'DGNB'" Dgnb control block id string
356	(164)	X'F0F1'	0	DGNBVERC	"C'01'" Current version
356	(164)	X'F0F1'	0	DGNBVER1	"C'01'" Dgnb version HBB6606
356	(164)	X'8'	0	DGNBCHARDATAMAX	
					"8" Maximum number of CharData fields.
356	(164)	X'8'	0	DGNBHEXDATAMAX	
					"8" Maximum number of HexData fields.
356	(164)	X'8'	0	DGNBJOBMAX	"8" Maximum number of jobname ranges.
356	(164)	X'10'	0	DGNBASIDMAX	"16" Maximum number of asid ranges.
356	(164)	X'8'	0	DGNBLENMAX	"8" Maximum number of length ranges.
356	(164)	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
356	(164)	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
388	(184)	X'184'	0	DGNB_LEN	"*-DGNB"

IGVDGNB Cross Reference

Name	Hex Offset	Hex Value
DGNB	0	
DGNB_IEACMSETV		
	19	8
DGNB_IEAINITARSRB		
	19	10
DGNB_IEAINITREGSTASK		
	1A	20
DGNB_IEANOSDWA		
	1A	80
DGNB_IEANOSUSPSYSTRC		
	19	80
DGNB_IEARISGNLTRACE		
	19	2
DGNB_IEARPSGNLTRACE		
	19	1
DGNB_IEASCHEDULETRACE		
	19	4
DGNB_IEASCHEDULEV		
	19	40
DGNB_IEASPINLOCKV		
	19	20
DGNB_IGVCPOOLGETV		
	18	1
DGNB_IGVDIAGXXABEND		
	18	4
DGNB_IGVINITCPOOL		
	18	80
DGNB_IGVINITFREEMAIN		
	1A	10
DGNB_IGVINITGETMAIN		
	18	20
DGNB_IGVNEWPAGE24		
	18	10
DGNB_IGVNEWPAGE31		
	18	8
DGNB_IGVNOUSERKEYCSA		
	18	2
DGNB_IGVUNCOND		
	18	40
DGNB_IXCRECSTRALLOC		

Name	Hex Offset	Hex Value
	1A	40
DGNB_LEN	184	184
DGNB_TEMPMC1	14	80
DGNB_TEMPMC10		
	15	40
DGNB_TEMPMC11		
	15	20
DGNB_TEMPMC12		
	15	10
DGNB_TEMPMC13		
	15	8
DGNB_TEMPMC14		
	15	4
DGNB_TEMPMC15		
	15	2
DGNB_TEMPMC16		
	15	1
DGNB_TEMPMC2	14	40
DGNB_TEMPMC3	14	20
DGNB_TEMPMC4	14	10
DGNB_TEMPMC5	14	8
DGNB_TEMPMC6	14	4
DGNB_TEMPMC7	14	2
DGNB_TEMPMC8	14	1
DGNB_TEMPMC9	15	80
DGNB_TEMP1	16	80
DGNB_TEMP10	17	40
DGNB_TEMP11	17	20
DGNB_TEMP12	17	10
DGNB_TEMP13	17	8
DGNB_TEMP14	17	4
DGNB_TEMP15	17	2
DGNB_TEMP16	17	1
DGNB_TEMP2	16	40
DGNB_TEMP3	16	20
DGNB_TEMP4	16	10
DGNB_TEMP5	16	8
DGNB_TEMP6	16	4
DGNB_TEMP7	16	2
DGNB_TEMP8	16	1
DGNB_TEMP9	17	80
DGNB#ASIDS	70	
DGNB#CHARDATAS		
	11C	
DGNB#HEXDATAS		
	160	
DGNB#JOBS	2C	
DGNB#LENS	B4	
DGNBASIDLIST	74	
DGNBASIDMAX	164	10
DGNBASIDS	70	
DGNBASIDSTART		
	74	
DGNBASIDSTOP	76	
DGNBBITS	14	
DGNBBYTE1	14	
DGNBBYTE2	15	
DGNBBYTE3	16	
DGNBBYTE4	17	
DGNBBYTE5	18	
DGNBBYTE6	19	
DGNBBYTE7	1A	
DGNBBYTE8	1B	
DGNBCHARDATA	120	
DGNBCHARDATALIST		
	11C	
DGNBCHARDATAMAX		
	164	8
DGNBDBNIP	6	80
DGNBFILTERROUTINEADDR		
	C	
DGNBFLAGS	6	
DGNBFLAG1	6	
DGNBHEXDATA	164	
DGNBHEXDATALIST		
	160	
DGNBHEXDATAMAX		
	164	8
DGNBID	0	
DGNBIDC	164	C7D5C2
DGNBJOBMAX	164	8
DGNBJOBNAME	30	
DGNBJOBNAMEWILD		
	2E	80
DGNBJOBS	2C	
DGNBJOBSFLAGS		
	2E	
DGNBKEYBITS	118	
DGNBKEYFILT	6	20
DGNBLENLIST	B8	
DGNBLENMAX	164	8
DGNBLENS	B4	
DGNBLENSTART	B8	
DGNBLENSTOP	BC	
DGNBRESV1	7	
DGNBRESV2	8	
DGNBSETEVENTNAME_0TO3		
	164	C7E5C4
DGNBSETEVENTNAME_4TO7		
	164	C1C7C2
DGNBSTGINIT	11A	
DGNBSTGINITFLAGS		
	11A	
DGNBSTGINITSPEC		
	11A	80
DGNBSTGINITVAL		
	11B	
DGNBSUBPOOLBITS		
	F8	
DGNBSUBPOOLFILT		
	6	40
DGNBSYNCCNT	10	
DGNBVER	4	
DGNBVERC	164	F0F1
DGNBVER1	164	F0F1
DGNBWORD1	14	
DGNBWORD2	18	
DGNBZERO	10	

IGVDGNX Heading Information

Common Name: Diagnostic traps extraction area
Macro ID: IGVDGNX
DSECT Name: DGNX
Owning Component: VSM (SC1CH)
Eye-Catcher ID: DGNX
Offset: 0
Length: 4
Storage Attributes: Residency: Above 16MB
Size: X'3C64' bytes
Created by: IGVDGNXT
Pointed to by: When IGVDGNXT returns to its caller, the third parameter of the standard parameter list is a fullword containing the address of the DGNX created by IGVDGNXT.
Serialization: None.
Function: The DGNX indicates in text format the contents of DIAGxx.

IGVDGNX 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 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

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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

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 Heading Information

Common Name: GQE Queue Anchor Table
Macro ID: IGVGQAT
DSECT Name: GQATITBL GQAT GQATENT
Owning Component: Virtual Storage Manager (SC1CH)
Eye-Catcher ID: GQAT
Offset: 0
Length: 4
Storage Attributes: Subpool: 245
Key: 0
Residency: Above 16M line
Size: GQATITBL -- X'0400' bytes
GQAT -- X'0204' bytes
GQATENT -- X'0004' bytes
Created by: IEAIPL04 & IEAVNP08 build GQAT index tables and GQATs. When the system is fully initialized, a GQAT index table exists that describes 2G, and there exists GQAT table entries for all of SQA and CSA.
Pointed to by: GQAT Index Table is pointed to by GDAGQAT_Index.
GQATs are pointed to by entries in the GQAT index table.
Serialization: When writing to the GQAT, VSM uses the VSMFIX lock. The only time the GQAT index table is updated is during initialization, so no serialization is needed.
When monitor programs read the GQAT, it would be best to do so with no serialization. (This is because holding the lock could impact system performance.) Note that this means that the GQE pointed to by a GQAT entry could be freemained while being read. The GQE may also be put on the queue of free GQEs while being read. Monitors will need to handle this (e.g., a recovery routine could catch the reference to a freemained GQE, and encountering a GQE on the free queue could be taken as the end of the queue being run.)
Function: This macro contains a map of the GQAT and the GQAT Index Table. These two mappings provide the basis for the two-table lookup scheme that VSM uses to keep track of GQEs. (There is 1 GQE for every GETMAINed piece of common storage.) These tables enable VSM to take a virtual address (e.g., the virtual address passed by a FREEMAIN invocation) and find the GQE that represents the storage at that address.

Each entry in the GQAT index table points to a GQAT. There are no null entries in the GQAT index table. However, a GQAT index table entry may point to the "dummy GQAT", which is a GQAT all of whose entries point to the GQE that describes 0 bytes at address 0. (This GQE is called the dummy GQE.)

Each entry in a GQAT points to a queue of GQEs. (An entry of 0 indicates an empty queue.) Each 64K portion of virtual storage has its own entry in a GQAT. Storage that is in use within a 64K chunk is described by a queue of GQEs pointed to by the GQAT entry for that 64K chunk. The GQEs on this queue are in LIFO order. The GQE queues end with a GQE_NEXT field of 0.

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There are 256 entries in the GQAT index table, and the table can map all of storage (2G). Thus, each entry in the GQAT represents 8M of storage (because 2G/256 = 8M). Each GQAT index table entry points to a GQAT, so GQATs must also represent 8M of storage. GQATs have 128 entries, so each entry represents 64K of virtual storage. The smallest possible GETMAIN is 8 bytes, so the maximum number of GQEs per GQAT entry is 8K, or 8,192 (because 64K/8=8K).

IGVGQAT 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 GQEs.
516	(204)	X'204'	0	GQAT_LEN	"*-GQAT"

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 Offset	Hex 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 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
Created by: IGVGCSA, IGVGSQA
Pointed to by: GqeNext
GqatGQE
Serialization: When writing to the GQE, VSM uses the VSMFIX lock. When monitor programs read the GQE, it would be best to do so with no serialization. (This is because holding the lock could impact system performance.) Note that this means that the GQE could be freemained while being read. The GQE may also be put on the queue of free GQEs while being read, and a GQE may appear to be "out of range" (i.e., it describes storage outside the range of storage described by the anchoring GQAT entry). Monitors will need to handle this (e.g., a recovery routine could catch the reference to a freemained GQE, and encountering a GQE that is "out of range" or on the free queue could be taken as the end of the queue being run.) A GQE on the free queue has a size of 0.
Function: Describes a range of virtual storage that was allocated by a single GETMAIN or STORAGE OBTAIN. These blocks, in concert with the CAUB, are used to identify who owns every chunk of GETMAINed common storage.

IGVGQE 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	High order 4 bytes of the TOD clock when the storage was obtained. Last bit incremented every second (approx), 00000000 = Jan 1, 1900.
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.
12	(C)	SIGNED	2	GQE_AREA_BITS0TO15	64K boundary index
16	(10)	SIGNED	4	GQE_SIZE	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.
20	(14)	ADDRESS	4	GQE_RETADDR (0)	The GETMAIN that obtained the storage described by this GQE returned to this address. This is here because we think that it will help identify the module and thus the component that did the GETMAIN. 'FFFFFFFF'X here means that this GQE describes storage that was allocated before GETMAIN was available.
20	(14)	BITSTRING	1	GQE_RETADDR_BYTE0	

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IGVGQE Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
21	(15)	BITSTRING	2	GQE_RETADDR_BYTES1AND2	
23	(17)	BITSTRING	1	GQE_RETADDR_BYTE3 (0)	X'01'" If on, indicates that this is a GQE for CSA storage. If off, SQA storage. Instructions are on halfword boundaries, so the last bit of the return address is always zero, so we can use it without really destroying the return address.
		1		GQE_CSA	
24	(18)	X'18'	0	GQE_LEN	"*-GQE"

IGVGQE Cross Reference

Name	Hex Offset	Hex Value
GQE	0	
GQE_AREA	C	
GQE_AREA_BITS0TO15	C	
GQE_CAUB	8	
GQE_CSA	17	1
GQE_GMTIME	4	
GQE_LEN	18	18
GQE_NEXT	0	
GQE_RETADDR	14	
GQE_RETADDR_BYTES1AND2	15	
GQE_RETADDR_BYTE0	14	
GQE_RETADDR_BYTE3	17	
GQE_SIZE	10	

IGVVAB Heading Information

Common Name: VSM Address space Block
Macro ID: IGVVAB
DSECT Name: VAB
Owning Component: Virtual Storage Manager (SC1CH)
Eye-Catcher ID: VAB
Offset: 0
Length: 3
Storage Attributes: Subpool: 245
Key: 0
Residency: Above 16M line
Size:
Created by: IGVGCAS, IEAIPL04
Pointed to by: ASSBVAB
GDASYVAB
Serialization: VSM uses the VSMFIX lock to serialize the VAB. When monitor programs read the VAB, it would be best to do so with no serialization. (This is because holding the lock could impact system performance.) Note that this means that the VAB could be freemained while being read. The VAB may also be put on the queue of free VABs while being read. Monitors will need to handle this (e.g., via a recovery routine).
Function: Provides access to VSM control blocks that are both address space related and in common storage.

IGVVAB 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"

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IGVVSMWK Heading Information

Common Name: VSM Work Area
Macro ID: IGVVSMWK
DSECT Name: VSWK
Owning Component: Virtual Storage Manager (SC1CH)
Eye-Catcher ID: VSWK
Offset: 0
Length: 4
Storage Attributes: Subpool: 245, 255
Key: 0
Residency: Above 16M line
Size: VSWK -- X'4976' bytes
Created by: IGVGCAS (VSM address space creation module),
IEAIPL04 (VSM IPL Resource Initialization Module).
Pointed to by: GDAWRKA, GDAWRKAP, LDAWRKA
Serialization: VSMFIX LOCK FOR FIXED GLOBAL WORK AREA
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	5120	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	280	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		VSWKRPAG	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.		*	

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Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		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 1111		*	Reserved
100	(64)	ADDRESS	4	VSWKTOP	TOP OF VSM STACK
104	(68)	ADDRESS	4	VSWKLLST	LENGTH LIST ADDRESS
108	(6C)	ADDRESS	4	VSWKELST	END OF LENGTH LIST
112	(70)	ADDRESS	4	VSWKALST	ADDRESS LIST ADDRESS
116	(74)	ADDRESS	4	VSWKLIST	ADDRESS OF LIST ENTRY BEING PROCESSED
120	(78)	ADDRESS	4	VSWKRCWK	ADDRESS OF RECOVERY WORK AREA
124	(7C)	ADDRESS	4	VSWKSAVE	ADDRESS OF CALLERS REGISTERS
128	(80)	CHARACTER	160	VSWKCOMA	COMMUNICATION AREA
288	(120)	CHARACTER	4832	VSWKSTCK	VSM modules use this space for their dynamic areas.
5120	(1400)	CHARACTER	0	*	IEAIPL04 wants this to be on an 8-byte boundary

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	160	VSWKCOMM	COMMUNICATION AREA

Comment

See 'Notes' in the prolog for a discussion of the effects of changing the size of the VSWKCOMM or VSWKSTCK. This section of the VSWK is cleared at the start of every Getmain, Freemain and Storage request.

End of Comment

0	(0)	ADDRESS	4	VSWKCOMS	ADDRESS OF SAVED COMMUNICATION AREA OR ZERO
4	(4)	CHARACTER	32	VSWKRQST	REQUEST INFORMATION
4	(4)	UNSIGNED	4	VSWKMAXS	GETMAIN MAXIMUM REQUEST SIZE
		1...		VSWKMAXS_BIT0	
8	(8)	UNSIGNED	4	VSWKMINS	GETMAIN MINIMUM REQUEST SIZE
		1...		VSWKMINS_BIT0	
12	(C)	UNSIGNED	4	VSWKFSIZ	FREEMAIN REQUEST SIZE
		1...		VSWKFSIZ_BIT0	
16	(10)	ADDRESS	4	VSWKFADR	FREEMAIN REQUEST ADDRESS
16	(10)	UNSIGNED	2	VSWKFA01	High bytes
16	(10)	UNSIGNED	1	VSWKFAD0	High Byte
17	(11)	UNSIGNED	1	VSWKFAD1	Byte 1
20	(14)	CHARACTER	10	VSWKSPTT	SUBPOOL TRANSLATION TABLE ENTRY
30	(1E)	CHARACTER	1	VSWKRFLG2	MORE REQUEST FLAGS

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

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		.... .1..		VSWKTCBS	TCBADDR was specified on STORAGE OBTAIN or RELEASE
		11		VSWKOWNER	Owner information. See VswkOwner_xxxx constants
31	(1F)	CHARACTER	1	VSWKMFLG	MISCELLANEOUS FLAGS
		1...		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.		VSWKNOBK	IGVGLSQA should ('0'B) or should not ('1'B) call RSM to back the the LSQA storage it is being called to obtain.
		...1		VSWK2FRR	Flag: TRUE if IGVVSTOR has put two FRRs onto the stack, FALSE otherwise
		.... 1...		VSWKREQT	0 => NOT AN ELEMENT OR VARIABLE REQUEST 1 => ELEMENT OR VARIABLE REQUEST
		.... .111		VSWKWEXP	3 bits indicating where IGVGPTA obtained storage by by address from. Used by recovery to back out the request
		.... .1..		VSWKFFQE	First part of storage requested allocated from an FQE
		.... ..1.		VSWKMFBQ	Middle part of storage requested allocated from an FBQE
		1		VSWKLFQE	Last part of storage requested allocated from an FQE
32	(20)	CHARACTER	3	VSWKSPKY	SUBPOOL / KEY COMBINATION
32	(20)	SIGNED	2	VSWKEXSP	EXTERNAL SUBPOOL ID
32	(20)	UNSIGNED	1	*	
33	(21)	UNSIGNED	1	VSWKESPL	LOW ORDER BYTE OF SUBPOOL
34	(22)	UNSIGNED	1	VSWKSKEY	KEY OF STORAGE TO BE OBTAINED IS IN BITS 0-3 OF THIS FIELD. SEE IGVVSM31 PROLOG FOR MORE INFORMATION ON HOW THIS KEY IS PROCESSED
34	(22)	BITSTRING	1	*	
		1...		VSWKSKEYUSER	User key storage
		.111 1111		*	

Comment

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.

End of Comment

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

Start of area cleared in recovery by IGVRRTR

End of Comment

36	(24)	CHARACTER	64	VSWKCNTL	CONTROL INFORMATION
36	(24)	ADDRESS	4	VSWKGADR	ADDRESS OF ALLOCATED AREA
36	(24)	UNSIGNED	2	VSWKGA01	High bytes
36	(24)	UNSIGNED	1	VSWKGAD0	High Byte
37	(25)	UNSIGNED	1	VSWKGAD1	Byte 1
40	(28)	CHARACTER	60	VSWKWOGA	control information without VSWKGADR

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
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	3	*	RESERVED
52	(34)	ADDRESS	4	VSWKCELA	ADDRESS OF CELL POOL FIELDS IN GDA OR LDA
56	(38)	ADDRESS	4	VSWKQA	ADDRESS OF QUEUE ANCHOR FIELDS IN GDA OR LDA
60	(3C)	ADDRESS	4	VSWKRD	ADDRESS OF RD IN USE
64	(40)	ADDRESS	4	VSWKFBQE	ADDRESS OF FBQE BEING PROCESSED
68	(44)	ADDRESS	4	VSWKSPQE	ADDRESS OF SPQE BEING PROCESSED
72	(48)	ADDRESS	4	VSWKDQE	ADDRESS OF DQE BEING PROCESSED
76	(4C)	ADDRESS	4	VSWKAQTF	ADDRESS OF AQAT TABLE ENTRY FOR AREA BEING PROCESSED
80	(50)	ADDRESS	4	VSWKAQTI	ADDRESS OF AQATINDX ENTRY FOR AREA BEING PROCESSED
84	(54)	ADDRESS	4	VSWKDFE	ADDRESS OF DFE BEING PROCESSED
88	(58)	UNSIGNED	4	VSWKMAXA	GETMAIN MAX SIZE AVAILABLE
92	(5C)	ADDRESS	4	VSWKFRRP	USED TO COMMUNICATE BETWEEN MAINLINE GET AND FREE SERVICE ROUTINES AND FRR ROUTINES
96	(60)	CHARACTER	1	VSWKCFLG	CONTROL FLAGS
		1...		VSWKPG	0 => A PAGE HAS NOT FREED UP 1 => A PAGE HAS FREED UP
		.1..		VSWKEXPL	Address of area to get was explicitly specified
		..1.		VSWKEALL	For recovery - indicates that allocation for an explicit request has commenced
		...1		VSWKALLZERO	Every byte of obtained storage contains X'00'.
		.... 1...		VSWKOWNINFO	1 => VswkOwnAsid and VswkOwnJobname contain valid data
		.... .1..		VSWKNEWPG24	1 => Use a new page if obtaining 24 bit storage
		.... ..1.		VSWKNEWPG31	1 => Use a new page if obtaining 31 bit storage
		1		VSWKDGET	Initialize the obtained storage to a nonzero pattern
97	(61)	UNSIGNED	1	VSWKLOC	LOCATION INDICATOR (See VSWKRLOC, VSWKVLOC)
97	(61)	UNSIGNED	1	VSWKVLOC	VIRTUAL LOCATION INDICATOR 1 => ALLOCATE BELOW 16M 2 => ALLOCATE ABOVE 16M
97	(61)	UNSIGNED	1	VSWKRLOC	REAL LOCATION INDICATOR 1 => Below,Below 2 => Below,Any31 3 => Below,Any64 4 => Above,Any31 5 => Above,Any64
98	(62)	BITSTRING	1	VSWKFRR	Used to communicate between mainline Getmain/Freemain routines and VSM's recovery routines.
		1...		VSWK_CSARE_SET	For Recovery. '1'B => GDACSARE has been set. (GDACSARE contains the number of bytes of common storage that remain unallocated.)
		.1..		VSWK_CSACV_SET	For Recovery. '1'B => GDACSACV, GDA_CSA_Conv and GDA_ECSA_Conc has been set. (GDACSACV contains the number of bytes of CSA that have been converted to SQA.)
		..1.		VSWK_ALLOCSET	For Recovery. '1'B => VSM has already set GDA_xxxx_Alloc. (xxxx = CSA or ECSA or SQA or ESQA.)
		...1		VSWKEXTRACKERCODE	For Recovery. '1'B => VSM is "Executing CSA Tracker Code". Recovery takes special actions when a failure occurs in this code.
		.... 11..		*	Reserved.
		.... ..1.		VSWKDEFERRELA	For Recovery. '1'B => VSM has detected a deferred release condition that involves an "Associated" page.
		1		VSWKDEFERREL	For Recovery. '1'B => VSM has detected a defered release condition that involves an fixed page.

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
				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	1	VSWKTRACKING	Indicates if on or off. Must be mapped same as GDAFLGS
		1111		*	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	VSWKPKMSASN	PKM and SASN
108	(6C)	BITSTRING	2	VSWKPKM	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	VSWKMFLG2	
		1...		VSWKA31	Caller is Amode(31)
		.1..		VSWKA64	Caller is Amode(64)
		..11 1111		*	Reserved
139	(8B)	CHARACTER	1	*	Reserved
140	(8C)	UNSIGNED	4	VSWKAR15VALUE	AR15 on entry to GM/ST
140	(8C)	BITSTRING	1	*	No info in interface
141	(8D)	UNSIGNED	1	VSWKCBDY	Containing Boundary
142	(8E)	UNSIGNED	1	VSWKSBDY	Start Boundary
143	(8F)	BITSTRING	1	VSWKAR15FLAGS	Flags
		1111 1...		*	Reserved
		.... .1..		VSWKBACKNONESPECIFIED	
		.... ..1.		VSWKCBDYSPECIFIED	
		1		VSWKSBDYSPECIFIED	
144	(90)	ADDRESS	4	VSWKRETADDRHIGH	High order half of the return address in VSWKRETA
148	(94)	CHARACTER	12	*	Reserved
160	(A0)	CHARACTER	0	*	END OF VSWKCOMM

IGVVSMWK Constants

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	VSWKDFEQ	DFE QUEUE HEADER IN USE
8	(8)	ADDRESS	4	VSWKADF	HEAD OF DFE ADDR QUEUE IN USE
12	(C)	ADDRESS	4	VSWKADL	TAIL OF DFE ADDR QUEUE IN USE
16	(10)	ADDRESS	4	VSWKSZF	HEAD OF DFE SIZE QUEUE IN USE
20	(14)	ADDRESS	4	VSWKSZL	TAIL OF DFE SIZE QUEUE IN USE

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
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-GQEs and global cells are consumed when the global cellpool is replenished, and when the SQA-GQE cellpool is replenished. The minimum numbers reflect the cost of this replenishment.	
			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.

Len	Type	Value	Name	Description
4	DECIMAL	60	VSWKCMIN	Min cells in global pool. Worst case is when all pools need to be replenished. Replenishment of any pool does an "internal" getmain, which needs global cells Getmain proper needs cells
4	DECIMAL	6	VSWKGMIN	Min cells in SQA-GQE pool. Worst case is when all pools need to be replenished. Replenishment of any pool does an "internal" getmain, which needs GQEs. Getmain proper needs cells
4	DECIMAL	1	VSWKCMCA	MINIMUM NUMBER OF CELLS for CAUB
4	DECIMAL	1	VSWKCMVA	MINIMUM NUMBER OF CELLS for VAB

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	@NM00019	"General use" global cellpool subpool constant GETMAIN TYPE(P)
4	DECIMAL	5	VSWKNUMGLOBALPOOLS	Number of global internal VSM cellpools. If you add a new cellpool or delete an old one you must update this constant.
0	BIT	0	VSWKRBLW	VSWKREAL IS BELOW 16M
0	BIT	1	VSWKRANY	VSWKREAL IS ANYWHERE
0	BIT	00	VSWKRES	VSWKVIRT IS RESIDENCE
0	BIT	01	VSWKBLW	VSWKVIRT IS BELOW 16M
0	BIT	10	VSWKABV	VSWKVIRT IS ABOVE 16M
0	BIT	10	VSWKEXP	EXPLICIT GETMAIN REQUEST
0	BIT	11	VSWKANY	VSWKVIRT IS ANYWHERE
0	BIT	1	VSWKL16M	VSWKVBLW IS BELOW 16M
0	BIT	1	VSWKG16M	VSWKVABV IS ABOVE 16M
0	BIT	1	VSWKVBL	VSWKVAR IS VARIABLE
0	BIT	0	VSWKELEM	VSWKVAR IS ELEMENT
0	BIT	0	VSWKDWRD	VSWKBNDY IS DOUBLE WORD
0	BIT	1	VSWKPAGE	VSWKBNDY IS PAGE
0	BIT	1	VSWKCOND	VSWKUNCD IS CONDITIONAL
0	BIT	1	VSWKNOCD	VSWKUNCD IS UNCONDITIONAL
0	BIT	0	VSWKGET	VSWKTYPE IS GETMAIN
0	BIT	1	VSWKFREE	VSWKTYPE IS FREEMAIN
0	BIT	00	VSWKOWNER_HOME	
0	BIT	01	VSWKOWNER_PRIMARY	
0	BIT	10	VSWKOWNER_SECONDARY	
0	BIT	11	VSWKOWNER_SYSTEM	

IGVVSMWK Cross Reference

Name	Hex Offset	Hex Value
VSMCPADR	0	
VSMCPANC	0	
VSMCPCNT	4	
VSMFCADR	8	
VSWK	0	
VSWK_ALLOCSET		
	62	20
VSWK_CSACV_SET		
	62	40
VSWK_CSARE_SET		
	62	80
VSWK@PTR	64	
VSWKACDE	5C	
VSWKACTS	28	
VSWKADF	8	
VSWKADL	C	
VSWKALET	23	80
VSWKALLZERO	60	10
VSWKALST	70	
VSWKAQAT	4	
VSWKAQTF	4C	
VSWKAQTI	50	
VSWKARSN	5E	
VSWKAR15FLAGS		
	8F	
VSWKAR15USED	1E	20
VSWKAR15VALUE		
	8C	
VSWKA31	8A	80
VSWKA64	8A	40
VSWKBACKNONESPECIFIED		
	8F	04
VSWKBNDY	23	04
VSWKCBDY	8D	
VSWKCBDYSPECIFIED		
	8F	02
VSWKCELA	34	
VSWKCELL	0	
VSWKCFLG	60	
VSWKCHECKZERO		
	1E	08
VSWKCKEY	62	
VSWKCNTL	24	
VSWKCNXT	0	
VSWKCOMA	80	
VSWKCOMM	0	
VSWKCOMS	0	
VSWKCSATRACKING		
	63	08
VSWKCSIZ	70	
VSWKDEFERREL	62	01
VSWKDEFERRELA		
	62	02
VSWKDFE	54	
VSWKDFEQ	8	
VSWKDGET	60	01
VSWKDQE	48	
VSWKEALL	60	20
VSWKELST	6C	
VSWKENT	61	40
VSWKESPL	21	
VSWKEXPL	60	40
VSWKEXSP	20	
VSWKEXTRACKERCODE		
	62	10
VSWKEXTS	8	
VSWKFADR	10	
VSWKFAD0	10	
VSWKFAD1	11	
VSWKFA01	10	
VSWKFBQE	40	
VSWKFFQE	1F	04
VSWKFLGS	63	
VSWKFRR	62	
VSWKFRRP	5C	
VSWKFSIZ	C	
VSWKFSIZ_BIT0		
	C	80
VSWKFSP	61	01
VSWKGADR	24	
VSWKGAD0	24	
VSWKGAD1	25	
VSWKGA01	24	
VSWKGDA	50	
VSWKGLBL	61	20
VSWKGLSR	1F	40
VSWKHDR	0	
VSWKID	0	
VSWKKEY	62	F0
VSWKKEY8	62	80
VSWKLDA	54	
VSWKLFQE	1F	01
VSWKLIST	74	
VSWKLLST	68	
VSWKLOC	61	
VSWKLST	61	04
VSWKMAIN	8	
VSWKMAXA	58	
VSWKMAXS	4	
VSWKMAXS_BIT0		
	4	80
VSWKMFBQ	1F	02
VSWKMFLG	1F	
VSWKMFLG2	8A	
VSWKMINS	8	
VSWKMINS_BIT0		
	8	80
VSWKMKEY	5F	
VSWKMSPEC	1E	40
VSWKNEWPG24	60	04
VSWKNEWPG31	60	02
VSWKNOBK	1F	20
VSWKOWNASID	88	
VSWKOWNER	1E	03
VSWKOWNINFO	60	08
VSWKOWNJOBNAME		
	80	
VSWKPAGENUM	78	
VSWKPCEL	10	
VSWKPFLG	61	
VSWKPG	60	80
VSWKPID	0	
VSWKPKM	6C	
VSWKPKMSASN	6C	
VSWKPNUM	C	
VSWKPNXT	4	

Name	Hex Offset	Hex Value
VSWKPOOL	0	
VSWKPROC	60	
VSWKPSZ	8	
VSWKQA	38	
VSWKQANC	0	
VSWKRC	30	
VSWKRCML	61	08
VSWKRCUR	61	02
VSWKRCVR	1F	80
VSWKRCWK	78	
VSWKRD	3C	
VSWKREAL	23	40
VSWKREQT	1F	08
VSWKRETA	74	
VSWKRETADDRHIGH	90	
VSWKRETAHIGHBYTE	74	
VSWKRFIX	61	80
VSWKRFLG	23	
VSWKRFLG2	1E	
VSWKRFRR	63	20
VSWKRLOC	61	
VSWKRPAG	61	10
VSWKRQST	4	
VSWKRQS2	64	
VSWKRSET	63	40
VSWKR31	23	40
VSWKR64	1E	10
VSWKSADR	4	
VSWKSASN	6E	
VSWKSAVE	7C	
VSWKSBDY	8E	
VSWKSBDYSPECIFIED	8F	01
VSWKSIZP	2C	
VSWKSKEY	22	
VSWKSKEYUSER	22	80
VSWKSPKY	20	
VSWKSPQE	44	
VSWKSPTT	14	
VSWKSQAT	0	
VSWKSQATRACKING	63	04
VSWKSTAT	62	01
VSWKSTCK	120	
VSWKSTOR	63	80
VSWKSVC	60	
VSWKSZF	10	
VSWKSZL	14	
VSWKTCB	58	
VSWKTCBS	1E	04
VSWKTOP	64	
VSWKTRACKING	63	
VSWKTYPE	23	01
VSWKUNCD	23	02
VSWKVABV	23	20
VSWKVAR	23	08
VSWKVBLW	23	10
VSWKVIRT	23	30
VSWKVLOC	61	
VSWKVSTORVSERRPTR	7C	
VSWKWEXP	1F	07
VSWKWOGA	28	
VSWK2FRR	1F	10
VSWK45FL	68	
VSWK45SP	69	
VSWK45TR	68	

IHAARB Programming Interface information

Programming Interface information

IHAARB

End of Programming Interface information

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IHAARB Heading Information

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

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		1...		ARB_EDATAREQ	"X'80'" Entry data requested flag 0 => EDATA=NO - Indicates that entry data associated with data entries should not be dumped 1 => EDATA=SERIALIZED| UNSERIALIZED - Indicates that entry data associated with data entries should be dumped NOTE: if this bit is set on, check the ARB_EDataSer to see if the entry data was dumped serialized or unserialized
		.1..		ARB_EDATASER	"X'40'" Entry Data serialized flag 0 => EDATA=UNSERIALIZED - Indicates that the entry data is to be dumped without dump serialization being held on the structure 1 =>EDATA=SERIALIZED - Indicates that the entry data is to be dumped with dump serialization on the structure NOTE: Only valid if ARB_EDataReq is set to on
		..1.		ARB_ADJDIRECT	"X'20'" ADJUNCT=DIRECTIO bit - 0 => Indicates that the adjunct data was captured and dumped with the entry controls (ADJUNCT=CAPTURE) 1 => Indicates that the adjunct data was written directly to the dump data set from the structure ADJUNCT=DIRECTIO NOTE: Valid only if the ARB_IncludeAdj bit is on
4	(4)	CHARACTER	4		Reserved
8	(8)	SIGNED	4	ARB_RANGESTART	Start of Range
12	(C)	SIGNED	4	ARB_RANGEEND	End of Range

Comment

Constants for the Dumping Object Type

End of Comment

12	(C)	BITSTRING	0	KARB_LOCKTABLE_TYPE	"X'0301'" Lock table
12	(C)	BITSTRING	0	KARB_LISTNUM_TYPE	"X'0302'" List Number
12	(C)	BITSTRING	0	KARB_USERCNTLS_TYPE	"X'0303'" List User Controls
12	(C)	BITSTRING	0	KARB_EMCNTL_TYPE	"X'0304'" Event Monitor Control
12	(C)	BITSTRING	0	KARB_EVENTQ_TYPE	"X'0305'" Event Queue
12	(C)	BITSTRING	0	KARB_STORCLASS_TYPE	"X'0401'" Storage class
12	(C)	BITSTRING	0	KARB_CASTOUT_TYPE	"X'0402'" Castout class
12	(C)	BITSTRING	0	KARB_LCCNTLS_TYPE	"X'0403'" Local cache Controls
4096	(1000)	X'1000'	0	ARB_LEN	"*-ARB"

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_EMCNTL_TYPE	C	304
KARB_EVENTQ_TYPE		

Name	Hex Offset	Hex Value
	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

IHAASTE1 Heading Information

Common Name: Address Space Second Table Entry (ASTE)
Macro ID: IHAASTE1
DSECT Name: ASTE1
Owning Component: Supervisor Control (SC1C5)
Eye-Catcher ID: None
Storage Attributes: Subpool: 245
Key: 0
Size: 64 bytes. There is one ASTE per address space.
Created by: IEAVNP09
(SUBPOOL 245 - COMMON SQA/ESQA)
Pointed to by: ASCBASTE (Virtual Address)
Serialization: Fields are serialized by the PC/AUTH address space Local Lock and by Compare and Swap.
Function: Maps the ASTE. The ASTE contains the real address and length of the LT, the real address and length of the AT, and other address space oriented cross memory information.

IHAASTE1 Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	64	ASTE1	ADDRESS SPACE SECOND TABLE ENTRY.
0	(0)	ADDRESS	4	ASTE1ATO	AUTHORIZATION TABLE ORIGIN. CONTAINS REAL ADDRESS OF THE AT FOR THIS ADDRESS SPACE. BITS 1-29 OF ASTE1ATO, WITH TWO LOW ORDER ZEROS APPENDED, FORM THE AUTHORIZATION TABLE REAL ADDRESS. SERIALIZED BY THE PC/AUTH ADDRESS SPACE LOCAL LOCK AND CS
		1...		ASTE1ICMA	INVALID CROSS MEMORY ACCESS INDICATOR. IF 1, THE ADDRESS SPACE ASSOCIATED WITH THIS ASTE1 IS NOT AVAILABLE FOR CROSS MEMORY FUNCTIONS.
4	(4)	UNSIGNED	2	ASTE1AX	AUTHORIZATION INDEX. SERIALIZED BY THE PC/AUTH ADDRESS SPACE LOCAL LOCK.
6	(6)	UNSIGNED	2	ASTE1ATL	AUTHORIZATION TABLE LENGTH. BITS 0-11 CONTAIN THE NUMBER OF WORDS, MINUS ONE, IN THE AT. BITS 12-15 ARE ZERO. SERIALIZED BY THE PC/AUTH ADDRESS SPACE LOCAL LOCK.
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.

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IHAASTE1 Constants

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		.1..		ASTE1SSEM	SPACE SWITCH EVENT MASK. IF 1, A PROGRAM INTERRUPT WILL BE PRESENTED ON COMPLETION OF A PC OR PT THAT CAUSES A SPACE SWITCH. SERIALIZED BY COMPARE AND SWAP.
		..1.		ASTE1REAL	REAL-SPACE CONTROL
		...1		*	UNUSED
		.... 11..		ASTE1DTYPE	DESIGNATION TYPE SEE CONSTANT ASTE1DTYPE_XXX. '00' = SEGMENT TABLE '01' = REGION 3RD TABLE '10' = REGION 2ND TABLE '11' = REGION 1ST TABLE. NOT USED WHEN REAL-SPACE
		11		ASTE1TLEN	TABLE LENGTH. NOT USED WHEN REAL-SPACE
16	(10)	ADDRESS	4	ASTE1PALD	PASN ACCESS LIST DESIGNATOR. BITS 1-24 WITH SEVEN ZEROES APPENDED ON THE RIGHT FORM THE 31-BIT REAL ADDRESS OF THE PASN ACCESS LIST. BITS 25-31 REPRESENT THE NUMBER OF 128 BYTE ACCESS LISTS, MINUS ONE.
20	(14)	UNSIGNED	4	ASTE1SQN	ASTE1 SEQUENCE NUMBER. (UNSIGNED)
24	(18)	ADDRESS	4	ASTE1LTD	LINKAGE TABLE DESIGNATOR. BITS 1-24, WITH SEVEN LOW ORDER ZEROS APPENDED, FORM THE LINKAGE TABLE REAL ADDRESS. BITS 25-31 CONTAIN THE NUMBER OF 128 BYTE EXTENTS, MINUS ONE, IN THE LINKAGE TABLE. SERIALIZED BY THE PC/AUTH ADDRESS SPACE LOCAL LOCK.
		1...		ASTE1LTV	LINKAGE TABLE VALID FLAG. IF 1, LT IS VALID, IF 0, LT IS INVALID.
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	32	ASTE1R020	RESERVED
64	(40)	CHARACTER	0	ASTE1END	END OF ASTE1.

IHAASTE1 Constants

Len	Type	Value	Name	Description
			Comment	
	CONSTANTS FOR ASTE1DTYPE			
			End of Comment	
0	BIT	00	ASTE1DTYPE_ST	SEGMENT TABLE
0	BIT	01	ASTE1DTYPE_R3T	REGION 3RD TABLE
0	BIT	10	ASTE1DTYPE_R2T	REGION 2ND TABLE
0	BIT	11	ASTE1DTYPE_R1T	REGION 1ST TABLE
			Comment	
	CONSTANTS FOR ASTE1TYPE			
			End of Comment	
0	BIT	1000	ASTE1DS	DATA SPACE ASTE1
0	BIT	0100	ASTE1SS	SUBSPACE ASTE1
0	BIT	0000	ASTE1AS	ADDRESS SPACE ASTE1

IHAASTE1 Cross Reference

Name	Hex Offset	Hex Value
ASTE1	0	
ASTE1ASCE	8	
ASTE1ASCEBITS52AND53	E	0C
ASTE1ATL	6	
ASTE1ATO	0	
ASTE1AX	4	
ASTE1DTYPE	F	0C
ASTE1END	40	
ASTE1ICMA	0	80
ASTE1LTD	18	
ASTE1LTV	18	80
ASTE1PALD	10	
ASTE1PROG	1C	
ASTE1PVT	E	01
ASTE1REAL	F	20
ASTE1R020	20	
ASTE1SAEM	F	80
ASTE1SQN	14	
ASTE1SSEM	F	40
ASTE1SUBSP	E	02
ASTE1TA	8	
ASTE1TFL	E	
ASTE1TL	F	
ASTE1TLEN	F	03
ASTE1TYPE	1C	F0

IHACDR Programming Interface information

Programming Interface information

IHACDR

End of Programming Interface information

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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 -- Device dependent number of X'0020' 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
		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		

Comment

Values for CDRFLDID

End of Comment

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

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)	SIGNED	1	GNEDDTO	Device-Dependent Time Out
5	(5)	CHARACTER	1		Reserved
6	(6)	SIGNED	1	GNEMIHPT	MIH primary time out
7	(7)	SIGNED	1	GNEMIHST	MIH secondary time out
8	(8)	CHARACTER	24	GNEXINFO (0)	General node element extended information
8	(8)	SIGNED	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)	SIGNED	1	NEDTYPE	Type of node element described by this NED
2	(2)	SIGNED	1	NEDCLASS	I/O device class. Valid only for I/O device type NEDs
3	(3)	SIGNED	1	NEDFLAG2 (0)	
		1		NEDLEVEL	"X'01'" Level indicator
4	(4)	CHARACTER	28	NEDID (0)	Node element identifier
4	(4)	CHARACTER	6	NEDTYPEN	Type number

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

End of Comment

30	(1E)	X'0'	0	NEDTUNSP	"0" Unspecified
30	(1E)	X'1'	0	NEDTIODV	"1" I/O device
30	(1E)	X'2'	0	NEDTCU	"2" Control Unit

Comment

Values for NEDCLASS

End of Comment

30	(1E)	X'0'	0	NEDCUNSP	"0" Unspecified
30	(1E)	X'1'	0	NEDCDASD	"1" DASD
30	(1E)	X'2'	0	NEDCTAPE	"2" Magnetic tape
30	(1E)	X'3'	0	NEDCURIN	"3" Unit record (input)
30	(1E)	X'4'	0	NEDCUROT	"4" Unit record (output)
30	(1E)	X'5'	0	NEDCPRT	"5" Printer
30	(1E)	X'6'	0	NEDCCOMM	"6" Communications controller
30	(1E)	X'7'	0	NEDCFST	"7" Full screen terminal
30	(1E)	X'8'	0	NEDCLMT	"8" Line mode terminal
30	(1E)	X'9'	0	NEDCCTCA	"9" Channel-to-channel adapter
30	(1E)	X'A'	0	NEDCSWIT	"10" Switch

Comment

Values for GNEQFLDS

End of Comment

30	(1E)	X'1'	0	GNEQITME	"1" Device dependent time out value field offset
30	(1E)	X'20'	0	NED_LEN	"*-NED"

IHACDR Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
CDR	0		GNEXINFO	8	
CDR_LEN	1	20	NED	0	
CDRFGNEQ	1	80	NED_LEN	1E	20
CDRFIELD	0		NEDCCOMM	1E	6
CDRFINFO	0		NEDCCTCA	1E	9
CDRFLDID	0	C0	NEDCDASD	1E	1
CDRFNED	1	C0	NEDCFST	1E	7
CDRFSNEQ	1	40	NEDCLASS	2	
CDRFUNUS	1	0	NEDCLMT	1E	8
GNEDDTO	4		NEDCPRT	1E	5
GNEFLAGS	0		NEDCSWIT	1E	A
GNEFLDID	0	C0	NEDCTAPE	1E	2
GNEINTID	2		NEDCUNSP	1E	0
GNEMIHPT	6		NEDCURIN	1E	3
GNEMIHST	7		NEDCUROT	1E	4
GNEQ	0		NEDEMULA	0	2
GNEQ_LEN	20	20	NEDFLAGS	0	
GNEQFLDS	8		NEDFLAG2	3	
GNEQITME	1E	1	NEDFLDID	0	C0
GNERS	1		NEDID	4	

Name	Hex Offset	Hex Value
NEDLEVEL	3	1
NEDMANUF	D	
NEDMODN	A	
NEDPMANU	10	
NEDRECON	0	4
NEDSEQN	12	
NEDSNIND	0	10
NEDSUBSN	0	8
NEDTAG	1E	
NEDTCU	1E	2
NEDTIODV	1E	1
NEDTOKEN	0	20
NEDTUNSP	1E	0
NEDTYPE	1	
NEDTYPEN	4	
SNEFLAGS	0	
SNEFLDID	0	C0
SNEQ	0	
SNEQ_LEN	8	20
SNEXINFO	8	

IHADPL Heading Information

Common Name: SVC DUMP PACKING LIST
Macro ID: IHADPL
DSECT Name: DPL
Owning Component: SVC Dump (SCDMP)
Eye-Catcher ID: DPL
Offset: 0
Length: 4
Storage Attributes: Subpool: 245 (common) or 225 (private)
Key: 0
Residency: Above 16M, fixed common
Size: 2920 bytes
Created by: IEAVTSDI, IEAVTSDS
Pointed to by: Reg 1 on entry to IEAVTDWT
RTCTDPLF, RTCTDPLB (common DPL queue)
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	DPLHDDRP	POINTER TO DUMP HEADER AND 4K BUFFER
20	(14)	SIGNED	4	DPLSUBPOOL	Which subpool DPL is in
24	(18)	UNSIGNED	4	DPLWTECB	ECB WAITED ON BY IEAVTDWT DURING CAPTURE PHASE - POSTED AT END OF DUMP CAPTURE PHASE. It must not be copied, because copying would overlay the WAIT information.
28	(1C)	CHARACTER	1	DPLNOTCOPYFLAGS	
					Flags
		1...		DPLSYSTEM	If on, this is the single system DPL
		.1..		DPLDUMMY	If on, this is a private DPL which is waiting for the system DPL to be copied into it.
		..1.		DPLINPRIVATE	If on, this is a private DPL
		...1 1111		*	Reserved

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Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
29	(1D)	CHARACTER	3	*	
32	(20)	CHARACTER	16	*	
48	(30)	CHARACTER	0	DPLLASTNOTCOPY	
48	(30)	ADDRESS	4	DPLDDSN	DUMP DATA SET NAME
52	(34)	CHARACTER	132	DPLSUMRY	SUMMARY DUMP INFORMATION
52	(34)	CHARACTER	8	DPLSDSP	STOKEN OF SUMDUMP DATA SPACE
60	(3C)	SIGNED	4	DPLSDNUM	NUMBER OF SUMDUMP DATA SECTIONS
64	(40)	CHARACTER	8	DPLSDATT (15)	ARRAY OF THE ADDRESS AND SIZE OF EACH DATA SECTION
64	(40)	ADDRESS	4	DPLSDATP	ADDRESS OF THE CURRENT SUMDUMP DATA SECTION
68	(44)	SIGNED	4	DPLSDSIZ	SIZE OF THE VALID DATA IN THE CURRENT SDUMP DATA SECTION
184	(B8)	CHARACTER	16	DPLEXITD	EXIT DATA INFORMATION
184	(B8)	CHARACTER	8	DPLEDSP	STOKEN OF EXIT DATA SPACE
192	(C0)	SIGNED	4	DPLEDPXN	NUMBER OF DRPX DATA SECTIONS
196	(C4)	ADDRESS	4	DPLEDPXP	ADDRESS TO FIRST DRPX SET
200	(C8)	CHARACTER	24	DPLCOMN	COMMON CAPTURED RANGES
200	(C8)	CHARACTER	8	DPLCDSP	STOKEN OF COMMON DATA SPACE
208	(D0)	ADDRESS	4	DPLCROTB	ADDRESS OF THE READ ONLY COMMON RANGE TABLE COPY
212	(D4)	ADDRESS	4	DPLCDONC	ADDRESS OF THE DATOFF NUCLEUS RANGE TABLE COPY
216	(D8)	SIGNED	4	DPLCDPXN	NUMBER OF DRPX DATA SECTIONS
220	(DC)	ADDRESS	4	DPLCDPXP	ADDRESS OF FIRST DRPX SET FOR READ/WRITE STORAGE
224	(E0)	CHARACTER	16	DPLPTABL (15)	LOCAL STORAGE DATA SPACE INFORMATION
224	(E0)	CHARACTER	8	DPLPTABS	STOKEN OF LOCAL DATA SPACE
232	(E8)	SIGNED	4	DPLPDPXN	NUMBER OF DRPX DATA SECTIONS
236	(EC)	ADDRESS	4	DPLPDPXP	ADDRESS TO FIRST DRPX SET
464	(1D0)	CHARACTER	4	DPLFLGWD	Word bdy for CS of DPLFLAGS
464	(1D0)	SIGNED	2	DPLLOCNM	NUMBER OF LOCAL DATA SPACES
466	(1D2)	CHARACTER	2	DPLFLAGS	FLAGS USED FOR WRITE PROCESS
		1...		DPLENSUM	WHEN 1 INDICATES ENABLED SUMMARY DUMP WAS TAKEN
		.1..		DPLSDEP	CALLER'S ECB POSTED
		..1.		DPLECB	ON - CALLER SPECIFIED WRITE PHASE ECB TO BE POSTED IF DPLECBAD ¬= 0 OFF - CALLER SPECIFIED WRITE PHASE SRB TO BE SCHEDULED IF DPLSRBAD ¬= 0
		...1		DPLTSOXT	IF ON - TSO USER EXTENSION PRESENT
		.... 1...		DPLTPFRC	IF ON - FAILRC SPECIFIED
		.... .1..		DPLLFDSF	IF ON - LOOKING FOR A DATASET
		.... ..1.		DPLSDUNL	IF ON - DCB processing unlocked SDUMP
		1		DPLROCDN	IF ON - RO Common and DATOFF NUC tables initialized
467	(1D3)	1...		DPLDWTCL	IF ON - Indicates DWT was called for DCB case
		.1..		DPLREMOT	This is a remote dump
		..1.		DPLRMREQ	Remote dumps requested
		...1		DPLGETSDDIE	Serialization bit for
		.... 1...		*	Reserved
		.... .1..		DPLSFFIXED	SFDPL is page fixed
		11		*	Reserved
468	(1D4)	CHARACTER	4	*	Reserved
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	DPRETURN	SVC DUMP RETURN CODE INDICATING COMPLETE, PARTIAL OR NO DUMP CONDITION
488	(1E8)	CHARACTER	16	DPLSDRSN	SDUMP REASON CODES MAPPED BY IHASDRSN
504	(1F8)	CHARACTER	8	DPLTUSID	TSO USERID ASSOCIATED WITH THIS DUMP
512	(200)	CHARACTER	51	DPLCIDD	CALLER'S ID DATA

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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	DPLFDECB	ECB WAITED ON BY IEAVTSCD WHICH IS POSTED WHEN A DATASET IS DD ADDED OR CLEARED
576	(240)	CHARACTER	3	DPLDIDCO	DUMP ID USED FOR MESSAGES AND TO IDENTIFY THE DUMP TO THE OPERATOR
579	(243)	UNSIGNED	1	DPLSDNA	NUMBER OF ADDRESS SPACES TO DUMP
580	(244)	BITSTRING	2	DPLSDAS (15)	ADDRESS SPACE IDS THAT ARE BEING DUMPED
610	(262)	BITSTRING	2	DPLHAID	Copy of RtsdHaid
612	(264)	ADDRESS	4	DPLDWT	Address of TCB of DWT that is passed this DPL
616	(268)	ADDRESS	4	DPLASCB	Copy of RtsdAscb
620	(26C)	CHARACTER	4	*	
624	(270)	CHARACTER	106	DPLDSPD	Copy of DSPD pointed to by SddDSPD
730	(2DA)	CHARACTER	6	*	Reserved
736	(2E0)	CHARACTER	8	DPLCSTOK	When the caller passed a write ECB, this will be the STOKEN of the caller's space. If the caller passed a write SRB, this is the STOKEN of SRBASCB
744	(2E8)	ADDRESS	4	DPLPRIVATEDPL@	Address of private DPL with which the system DPL is associated
748	(2EC)	SIGNED	4	DPLDMP#	Which dump this is. This is used in 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	DPLBUFRO	Origin of DWS/DWC buffer data space
812	(32C)	SIGNED	4	DPLHSHNB	Number of 4K blocks in the hash data space
816	(330)	SIGNED	4	DPLBUFNB	Number of 4K blocks in the buffer data space
820	(334)	CHARACTER	32	DPLINTKN	Incident token
820	(334)	CHARACTER	8	DPLITSYSNAME	System name
828	(33C)	CHARACTER	8	DPLITTIMESTAMP	Time stamp
836	(344)	CHARACTER	8	DPLITPLEXNAME	Sysplex name
844	(34C)	CHARACTER	8	*	Reserved
852	(354)	SIGNED	4	DPLASYNCMFID	Facility of async req

IHADPL Constants

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
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	DPLDSPEXTTTOKEN	DUMPSRV task token used to create the original local capture data spaces, and that should be used on subsequent DSPSERV CREATEs for additional data spaces
900	(384)	CHARACTER	4	DPLDSPEXTCSWORD	Compare and swap word for updating the next available extension table entry index. (See prolog note above.)
900	(384)	SIGNED	4	DPLDSPEXTNEXTINDEX	Table index of the next available table entry
904	(388)	CHARACTER	20	DPLLOCALDSPEXTTABLE (100)	Local storage data spaces whose space was exhausted before the local capture for an ASID was completed
904	(388)	CHARACTER	16	DPLDSPEXTINFOA	Local data space info. THE FORMAT OF THIS SUBSTRUCTURE MUST MATCH THE FORMAT OF A DPLPTABL TABLE ENTRY
904	(388)	CHARACTER	8	DPLDSPEXTSTOKEN	Data space stoken
912	(390)	SIGNED	4	DPLDSPEXTDPRXCNT	Number of DRPX data sections in data space
916	(394)	ADDRESS	4	DPLDSPEXTDPRXFIRST	Address of first DPRX set in data space
920	(398)	CHARACTER	4	DPLDSPEXTINFOB	Related info
920	(398)	UNSIGNED	2	DPLDSPEXTASID	Asid of source address space catpured 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	*	

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
DPL	0	
DPLASCB	268	
DPLASMS	237	80
DPLASYNCMFID	354	
DPLASYNCTOKEN	358	
DPLAVOL	237	40
DPLBUFNB	330	
DPLBUFRO	328	
DPLBUFRS	320	
DPLBWDPT	8	
DPLCAPT	304	40
DPLCAPTP	304	20
DPLCASID	234	
DPLCDONC	D4	
DPLCDPXN	D8	
DPLCDPXP	DC	
DPLCDSP	C8	
DPLCID	201	
DPLCIDD	200	
DPLCIDL	200	
DPLCOMN	C8	
DPLCROTB	D0	
DPLCSTOK	2E0	
DPLDCBAD	1DC	
DPLDDSN	30	
DPLDIDCO	240	
DPLDMP#	2EC	
DPLDMPID	1E0	
DPLDMPSN	1E3	
DPLDMPTN	1E0	
DPLDSPD	270	
DPLDSPEXTASID	398	
DPLDSPEXTCSWORD	384	
DPLDSPEXTDPRXCNT	390	
DPLDSPEXTDPRXFIRST	394	
DPLDSPEXTINFOA	388	
DPLDSPEXTINFOB	398	
DPLDSPEXTNEXTINDEX	384	
DPLDSPEXTRELATED	39A	
DPLDSPEXTSTOKEN	388	
DPLDSPEXTTTOKEN	374	
DPLDSQCU	238	
DPLDUMMY	1C	40
DPLDUMPSRVALET	2F0	
DPLDWSFD	310	
DPLDWT	264	
DPLDWTCL	1D3	80
DPLECB	1D2	20
DPLECBAD	1D8	
DPLEDPXN	C0	
DPLEDPXP	C4	
DPLEDSP	B8	
DPLENSUM	1D2	80
DPLEXITD	B8	
DPLEXITT	236	
DPLFDECB	23C	
DPLFIRSTNOTCOPY	4	
DPLFLAGS	1D2	
DPLFLGS2	237	
DPLFLGWD	1D0	
DPLFWDPT	4	
DPLGETSDDIE	1D3	10
DPLHAID	262	
DPLHASHO	31C	
DPLHASHS	314	
DPLHDDRP	10	
DPLHSHNB	32C	
DPLID	0	
DPLINPRIVATE	1C	20
DPLINTKN	334	
DPLITPLEXNAME	344	
DPLITSYSNAME	334	
DPLITTIMESTAMP	33C	
DPLJOBNM	2FC	
DPLLASTNOTCOPY	30	
DPLLFDSF	1D2	04
DPLLOCALDSPEXTTABLE	388	
DPLLOCALDSPEXTTABLEINFO	374	
DPLLOCNM	1D0	
DPLNOTCOPYFLAGS	1C	
DPLPDPXN	E8	
DPLPDPXP	EC	
DPLPRIVATEDPL@	2E8	
DPLPRIVATEDPLAREA@	2F8	
DPLPTABL	E0	
DPLPTABS	E0	
DPLREMOT	1D3	40
DPLRMREQ	1D3	20
DPLROCDN	1D2	01
DPLSDAS	244	
DPLSDATP	40	
DPLSDATT	40	
DPLSDDIE	368	
DPLSDEP	1D2	40
DPLSDNA	243	
DPLSDNUM	3C	
DPLSDRSN	1E8	
DPLSDSIZ	44	
DPLSDSP	34	
DPLSDUNL	1D2	02
DPLSES	304	
DPLSESF	304	
DPLSFDPL	308	
DPLSFFIXED	1D3	04
DPLSRBAD	1D8	

IHADPL Cross Reference

Name	Hex Offset	Hex Value
DPLSTR#	30C	
DPLSUBPOOL	14	
DPLSUMRY	34	
DPLSWT	C	
DPLSYSTEM	1C	80
DPLTPFRC	1D2	08
DPLTSOXT	1D2	10
DPLTUSID	1F8	
DPLWTECB	18	
DPLWTECB@	2F4	
DPNODUMP	1E6	
DPPROGRS	233	
DPRETCOD	1E4	
DPRETURN	1E7	

IHADWHDR Programming Interface information

Programming Interface information

IHADWHDR

End of Programming Interface information

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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 th 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 (0)	Dumping status
1024	(400)	SIGNED	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	

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
					Last dump-table-entry number. Highest valued dump-table entry that contains a captured block.
1048	(418)	CHARACTER	8		Reserved
1056	(420)	CHARACTER	224		Reserved
1280	(500)	CHARACTER	8	DWHDRDUMPTLROPT (0)	
					Dumping-tailoring options
1280	(500)	SIGNED	2	DWHDRDUMPLISTLEN	
					Dumping-list length. Number of ranges in the range list of a dump request
1282	(502)	CHARACTER	1		Reserved
1283	(503)	CHARACTER	1	DWHDRDUMPCACHEID (0)	
					Identifier of an attached local-cache associated with the dump table. Zero => no local cache. Only maintained when the structure type is X'04'.
1283	(503)	CHARACTER	1		Reserved for list
1284	(504)	CHARACTER	4		Reserved
1288	(508)	CHARACTER	760		Reserved
2048	(800)	CHARACTER	512	DWHDRSCC	Structure Copy Controls
2560	(A00)	CHARACTER	60	DWHDRDUPLEXINGCONTROLS	
					Duplexing Controls
2620	(A3C)	CHARACTER	1476		Reserved
4096	(1000)	CHARACTER	4096	DWHDRASSOCREQBLK	
					Associated Request Block (ARB) Contains the dumping information and list of object-identifier ranges to be included in the dump. Also contains the dumping-object type, adjunct-inclusion indicator, and DIB-exclusion indicator for each object- identifier range. The ARB is provided in the data block of the associate-dump-table command when the dump table is created, and is copied into the dump header by the capture process. To view the contents of this area, use the ARB mapping found in IHAARB macro
4096	(1000)	X'2000'	0	DWHDR_LEN	"*-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	(80)	CHARACTER	128		Reserved
256	(100)	CHARACTER	16	DWHDRDUMPAUTH	
					Dumping authority. Zero => dumping controls available Nonzero => dumping controls in use
272	(110)	CHARACTER	16	DWHDRDUMPSER	Dumping serialization. Nonzero => Dumping serialization held on the structure
288	(120)	SIGNED	4	DWHDRDUMPTBLSIZE	
					Dump-table size. Number of 4096-byte units of CF storage assigned to the dump table.
292	(124)	CHARACTER	1	DWHDRSTRTYPE	Structure type
293	(125)	CHARACTER	1	DWHDRFLAGS (0)	
		1...		DWHDRINITCOMP	
					"X'80'" Initialization complete indicator
		.1..		DWHDRRELEASEINPROG	
					"X'40'" Release in progress indicator
294	(126)	CHARACTER	218		Reserved

IHADWHDR Cross Reference

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
				Comment	
Capture Complete Constants					
				End of Comment	
		....		DWHDRCAPCMPCIP	
					"X'00'" Capture is in progress
		1		DWHDRCAPCMPOK	
					"X'01'" Normal completion
		.... ..1.		DWHDRCAPCMPTABFULL	
					"X'02'" Dump table is full
		11		DWHDRCAPCMPSERREL	
					"X'03'" Dump serialization was released
294	(126)	X'200'	0	DWHDRDUMPCNTLSMAP_LEN	
					"*-DWHDRDUMPCNTLSMAP"

IHADWHDR Cross Reference

Name	Hex Offset	Hex Value
DWHDR	0	
DWHDR_LEN	1000	2000
DWHDRASSOCREQBLK	1000	
DWHDRCAPCMPCIP	126	0
DWHDRCAPCMPOK	126	1
DWHDRCAPCMPSERREL	126	3
DWHDRCAPCMPTABFULL	126	2
DWHDRCAPCOMPCODE	400	
DWHDRDUMPAUTH	100	
DWHDRDUMPCACHEID	503	
DWHDRDUMPCNTLSMAP	0	
DWHDRDUMPCNTLSMAP_LEN	126	200
DWHDRDUMPCONTROLS	200	
DWHDRDUMPINFO	0	
DWHDRDUMPLISTLEN	500	
DWHDRDUMPSER	110	
DWHDRDUMPSTATUS	400	
DWHDRDUMPTBLSIZE	120	
DWHDRDUMPTLROPT	500	
DWHDRDUPLEXINGCONTROLS	A00	
DWHDRFLAGS	125	
DWHDRINITCOMP	125	80
DWHDRLASTDIBCT	40C	
DWHDRLASTDTEN	414	
DWHDRLASTELEMCT	410	
DWHDRLASTOBJID	408	
DWHDRLASTOBJTYPE	402	
DWHDRLASTRANGE	404	
DWHDRRELEASEINPROG	125	40
DWHDRSCC	800	
DWHDRSTRCONTROLS	0	
DWHDRSTRTYPE	124	

IHADWOBH Programming Interface information

Programming Interface information

IHADWOBH

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

- DWOBHDIBCT
- DWOBHDIBLISTSIZE
- DWOBHDIBSIZE

End of Programming Interface information

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IHADWOBH Heading Information

Common Name: Dump Writing Object Header
Macro ID: IHADWOBH
DSECT Name: DWOBH DWOBHOBJHDRDATAMAP
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
DWOBHOBJHDRDATAMAP -- X'0006' bytes
Created by: N/A
Pointed to by: N/A
Serialization: None required
Function: Provides a map of the Object Header.

IHADWOBH Map

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	DWOBH	, Mapping for Object Header
0	(0)	CHARACTER	20	DWOBHOBJINFO (0)	Object information
0	(0)	SIGNED	2	DWOBHDUMPOBJTYPE	Dumping-object type (DOT). X'0301' => CF-list lock table X'0302' => CF-list list number X'0303' => CF-list user controls X'0304' => CF-list event-monitor controls X'0305' => CF-list event-queue X'0401' => CF-cache storage class X'0402' => CF-cache castout class X'0403' => CF-cache local- cache controls
2	(2)	CHARACTER	1	DWOBHFLAGS (0)	Flags
		1...		DWOBHCAPTCOMPIND	"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
3	(3)	CHARACTER	1		Reserved
4	(4)	SIGNED	4	DWOBHOBJID	Object identifier DOT Object identifier X'0301' => X'0000 0000' X'0302' => List-number value X'0303' => X'0000 0000' X'0304' => List-number value X'0305' => X'0000 0000' X'0401' => Storage-class value (right justified) X'0402' => Castout-class value (right justified) X'0403' => X'0000 0000'
8	(8)	SIGNED	4	DWOBHDIBCT	DIB count. Number of dumping- information blocks stored in the dump table for the object
12	(C)	SIGNED	4	DWOBHDIBSIZE	DIB size
16	(10)	SIGNED	4	DWOBHDIBLISTSIZE	DIB list size. Number of dump-table entries that contain the DIB list for the object.
20	(14)	CHARACTER	108	DWOBHOBJHDRDATA	Data relating to the object header - Use the DWOBHOBJHDRDATAMAP to view the contents of this area
128	(80)	CHARACTER	3456	DWOBHMAXPOSSIBLEOBJCONTROLS	Maximum possible object controls length. Refer to the actual mappings of the object controls to compute their associated lengths
4096	(1000)	X'1000'	0	DWOBH_LEN	"*-DWOBH"

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

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
					, Mapping for data relating to the Object Header
0	(0)	ADDRESS	4	(0)	
0	(0)	ADDRESS	4	DWOBHOBJHDRDATAENTRYCNTLPTR (0)	Pointer to the object's entry controls in the controls compdata space. This pointer name should be used for cast out class, storage class, and list number object types
0	(0)	ADDRESS	4	DWOBHOBJHDRDATALOCKPTR (0)	Pointer to the object's lock table entries in the lock table compdata space. This pointer name should be used for lock table object type only
0	(0)	ADDRESS	4	DWOBHOBJHDRDATAUSERPTR (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	DWOBHOBJHDRDATAEMCPTR (0)	Pointer to the object's event monitor control data in the event monitor control compdata space. This pointer name should be used for list event queue type only
0	(0)	ADDRESS	4	DWOBHOBJHDRDATAEVENTQPTR	Pointer to the object's event queue data in the event queue compdata space. This pointer name should be used for list event queue type only
4	(4)	CHARACTER	2	(0)	
4	(4)	CHARACTER	2	DWOBHOBJHDRDATAENTRYCNTLNUM (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	DWOBHOBJHDRDATALOCKNUM (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	DWOBHOBJHDRDATAUSERNUM (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	DWOBHOBJHDRDATAEMCNUM (0)	Number that indicates which event monitor control compdata space the pointer pertains to. This variable name should be used for list event queue type only
4	(4)	CHARACTER	2	DWOBHOBJHDRDATAEVENTQNUM	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	DWOBHOBJHDRDATAMAP_LEN	"*-DWOBHOBJHDRDATAMAP"

IHADWOBH Cross Reference

Name	Hex Offset	Hex Value
DWOBH	0	
DWOBH_LEN	1000	1000
DWOBHCAPTCOMPIND	2	80
DWOBHDIBCT	8	
DWOBHDIBLISTSIZE	10	
DWOBHDIBSIZE	C	
DWOBHDUMPOBJTYPE	0	
DWOBHFLAGS	2	
DWOBHMAXPOSSIBLEOBJCONTROLS	80	
DWOBHOBJHDRDATA	14	
DWOBHOBJHDRDATAEMCNUM	4	
DWOBHOBJHDRDATAEMCPTR	0	
DWOBHOBJHDRDATAENTRYCNTLNUM	4	
DWOBHOBJHDRDATAENTRYCNTLPTR	0	
DWOBHOBJHDRDATAEVENTQNUM	4	
DWOBHOBJHDRDATAEVENTQPTR	0	
DWOBHOBJHDRDATALOCKNUM	4	
DWOBHOBJHDRDATALOCKPTR	0	
DWOBHOBJHDRDATAMAP	0	
DWOBHOBJHDRDATAMAP_LEN	4	6
DWOBHOBJHDRDATAUSERNUM	4	
DWOBHOBJHDRDATAUSERPTR	0	
DWOBHOBJID	4	
DWOBHOBJINFO	0	

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)	CHARACTER	4	ETE1R000	RESERVED
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 4 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.4 set to 0 (basic mode) 1: PC.4 set to 1 (64-bit)
		..1.		*	RESERVED. MUST BE ZERO
		...1		ETE1PKC	PSW KEY CONTROL: 0: NO CHANGE 1: SET PSW KEY FROM ETE1EK
		.... 1...		ETE1PKMK	PSW KEY MASK CONTROL: 0: OR ETE1EKM INTO PKM. 1: COPY ETE1EKM TO PKM
		.... .1..		ETE1EAXC	EAX CONTROL: 0: NO CHANGE. 1: REPLACE FROM ETE1EAX.
		.... ..1.		ETE1ASC	ADDRESS SPACE CONTROL: 0: PRIMARY MODE. 1: AR MODE.

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IHAETE1 Cross Reference

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		1		ETE1SASNC	SASN CONTROL: 0: SET TO OLD PASN. 1: SET TO NEW PASN.
17	(11)	CHARACTER	1	ETE1EK	ENTRY KEY. (HIGH 4 BITS)
18	(12)	UNSIGNED	2	ETE1EAX	MAS EXTENDED AUTHORITY INDEX
20	(14)	ADDRESS	4	ETE1ASTE	REAL ADDRESS OF THE ASTE IF SPACE SWITCH
24	(18)	CHARACTER	8	ETE1PARM	ADDRESS OF THE LATENT PARAMETER PASSED TO THE CALLED RTN
24	(18)	ADDRESS	4	ETE1PARMH	High half of parameter
28	(1C)	ADDRESS	4	ETE1PARML	Low half of parameter
32	(20)	CHARACTER	0	ETE1END	END OF ETE1

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	
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	
ETE1R000	0	
ETE1SASNC	10	01

IHAETRI Programming Interface information

Programming Interface information

IHAETRI

End of Programming Interface information

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IHAETRI Heading Information

Common Name: ETR Status Informatiom 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	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	24	ETRIDATA	
0	(0)	BITSTRING	8	ETRITMSTMP	STCK value at time information was collected.
0	(0)	BITSTRING	4	ETRITIMEH	
4	(4)	BITSTRING	4	ETRITIMEL	
8	(8)	CHARACTER	4	ETRIIMAGE	This word contains information for the whole MVS image.
8	(8)	BITSTRING	1	*	
		1...		ETRIETR	Image is in ETR mode.
		.1..		ETRILOCAL	Image is in local mode.
		..1.		ETRISIMETR	Image is in SIMETR mode.
		...1		ETRINOTINSTALLED	ETR is not installed on this machine.
		.... 1...		ETRISIDE	Active machine side if in ETR mode.
		.... .1..		ETRITUNED	The active port is tuned.
		.... ..1.		ETRIREQSTD	The use of the ETR was requested.
		1		ETRICPLD	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	Status for CPC port 0.
12	(C)	BITSTRING	1	ETRIFP0FLAGS	
		1...		ETRIP0OPER	This port is operational.
		.1..		ETRIP0ENABLED	This port is enabled.
		..1.		ETRIP0ACTIVE	This port is the active port.
		...1		ETRIP0DATA	The ID data is valid.
		 1111		*	Reserved.
13	(D)	BITSTRING	1	ETRIP0NETID	ETR Net ID to which this port is connected.
14	(E)	BITSTRING	1	ETRIP0ETRID	9037 ID to which this port is connected.
15	(F)	BITSTRING	1	ETRIP0PORTNO	ETR port number to which this port is connected.
16	(10)	CHARACTER	4	ETRIPORT1	Status for CPC port 1.
16	(10)	BITSTRING	1	ETRIP1FLAGS	
		1...		ETRIP1OPER	This port is operational.
		.1..		ETRIP1ENABLED	This port is enabled.
		..1.		ETRIP1ACTIVE	This port is the active port.
		...1		ETRIP1DATA	The ID data is valid.
		 1111		*	Reserved.
17	(11)	BITSTRING	1	ETRIP1NETID	ETR Net ID to which this port is connected.
18	(12)	BITSTRING	1	ETRIP1ETRID	9037 ID to which this port is connected.
19	(13)	BITSTRING	1	ETRIP1PORTNO	ETR port number to which this port is connected.

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
20	(14)	CHARACTER	4	*	Reserved.

IHAETRI Cross Reference

Name	Hex Offset	Hex Value
ETRICPLD	8	01
ETRIDATA	0	
ETRIETR	8	80
ETRIFP0FLAGS	C	
ETRIIMAGE	8	
ETRILOCAL	8	40
ETRINOTINSTALLED	8	10
ETRIPORT0	C	
ETRIPORT1	10	
ETRIP0ACTIVE	C	20
ETRIP0DATA	C	10
ETRIP0ENABLED	C	40
ETRIP0ETRID	E	
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	02
ETRISIDE	8	08
ETRISIMETR	8	20
ETRISIMETRID	9	
ETRITIMEH	0	
ETRITIMEL	4	
ETRITMSTMP	0	
ETRITUNED	8	04

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 and below the 16m line since IEWFETCH keeps 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	Offsets 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 1111		*	
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.		WKSVCLIB	DCB IS FOR THE SVC LIBRARY
		1		WKLNKLIB	DCB IS FOR THE LINK LIBRARY
1439	(59F)	BITSTRING	1	WKFLG3	X'59F'
1440	(5A0)	SIGNED	4	WKREGIS (4)	X'5A0' USED TO SAVE REGS ACROSS BLDL
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

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Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
				Comment	
				BLDL ENTRY	
				End of Comment	
1464	(5B8)	CHARACTER	76	WKBLDE	X'5B8'
1464	(5B8)	SIGNED	4	WKPREFX	X'5B8' BLDL PREFIX
1468	(5BC)	CHARACTER	72	WKPDSDE	X'5BC' BLDL DIR ENTRY
				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	WKTT	X'5C4' /TRACK NUMBER
1478	(5C6)	UNSIGNED	1	WKR	X'5C6' RECORD NUMBER
1479	(5C7)	UNSIGNED	1	WKK	NO. OF CONCATENATED DATA SETS
1480	(5C8)	BITSTRING	1	WKZBYTE	X'5C8' 'Z' BYTE
1481	(5C9)	BITSTRING	1	WKCBYTE	X'5C9' 'C' BYTE
1482	(5CA)	CHARACTER	8	WKTTESD	X'5CA'
1490	(5D2)	BITSTRING	2	WKATTR	X'5D2' ATTRIBUTE FLAGS
1492	(5D4)	CHARACTER	5	WKLNTH	
1492	(5D4)	UNSIGNED	3	WKLNTHM	X'5D4' LENG OF MODULE
1495	(5D7)	SIGNED	2	WKLNTHF	X'5D7' LENGTH OF FIRST TEXT RECORD
1497	(5D9)	ADDRESS	3	WKENTPT	X'5D9' ENTRY POINT ADDRESS
1500	(5DC)	ADDRESS	3	WKTXTRG	X'5DC' TEXT ORIGIN ADDRESS
1503	(5DF)	CHARACTER	37	WKAPFSSI	X'5DF' APF AND SSI FIELDS
1540	(604)	CHARACTER	0	WKEND	X'604' END OF FETCH WORK AREA

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	WKENTSC	X'5E7'
1514	(5EA)	CHARACTER	8	WKNAMSC	X'5EA'
1522	(5F2)	CHARACTER	6	*	
1528	(5F8)	ADDRESS	4	WKMAINEP	X'5F8'
1532	(5FC)	CHARACTER	8	WKMAINAM	X'5FC'

IHAFETWK Constants

Len	Type	Value	Name	Description
			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
			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	RSNPDSE	X'50' - DATA SET IS A PDSE

IHAFETWK Cross Reference

Name	Hex Offset	Hex Value
FETCHWA	0	
FTCLEAR	0	
FTWKAREA	0	
WKALIAS	5DF	
WKAPFSSI	5DF	
WKATTR	5D2	
WKAUTH	59D	80
WKBLDE	5B8	
WKCBYTE	5C9	
WKCDADDR	594	
WKCNTNSV	590	
WKDCBSE	5B4	
WKDEBOK	59E	80
WKDEBPTR	590	
WKEND	604	
WKENTBK	5DF	
WKENTPT	5D9	
WKENTSC	5E7	
WKFLAG	59C	
WKFLG1	59D	
WKFLG2	59E	
WKFLG3	59F	
WKIOADDR	598	
WKJOBLIB	59E	04
WKK	5C7	
WKLNKLIB	59E	01
WKLNTH	5D4	
WKLNTHF	5D7	
WKLNTHM	5D4	
WKMAINAM	5FC	
WKMAINEP	5F8	
WKNAMBK	5E2	
WKNAME	5BC	
WKNAMSC	5EA	
WKPDSDE	5BC	
WKPREFX	5B8	
WKR	5C6	
WKREGIS	5A0	
WKSCATER	5DF	
WKSCATR	5DF	
WKSVCLIB	59E	02
WKSYSDCB	59D	20
WKSYSREQ	59D	40
WKTCBSE	5B0	
WKTT	5C4	
WKTTESD	5CA	
WKTTRK	5C4	
WKTXTRG	5DC	
WKUSRLIB	59E	08
WKZBYTE	5C8	

IHAFPC Programming Interface information

Programming Interface information

IHAFPC

End of Programming Interface information

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IHAFPC Heading Information

Common Name: FLOATING 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	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	FPC	FLOATING POINT CONTROL REG
0	(0)	CHARACTER	1	FPCMASK	MASK BITS
		1...		FPCMINVO	"X'80'" INVALID OPERATION MASK
		.1..		FPCMDIVZ	"X'40'" DIVISION BY ZERO MASK
		..1.		FPCMOVFL	"X'20'" OVERFLOW MASK
		...1		FPCMUNFL	"X'10'" UNDERFLOW MASK
		.... 1...		FPCMINEX	"X'08'" INEXACT MASK
1	(1)	CHARACTER	1	FPCFLAG	FLAG BITS
		1...		FPCFINVO	"X'80'" INVALID OPERATION FLAG
		.1..		FPCFDIVZ	"X'40'" DIVISION BY ZERO FLAG
		..1.		FPCFOVFL	"X'20'" OVERFLOW FLAG
		...1		FPCFUNFL	"X'10'" UNDERFLOW FLAG
		.... 1...		FPCFINEX	"X'08'" INEXACT FLAG
2	(2)	CHARACTER	1	FPCDXC	DATA EXCEPTION CODE
		1...		FPCDINVO	"X'80'" INVALID OPERATION
		.1..		FPCDDIVZ	"X'40'" DIVISION BY ZERO
		..1.		FPCDOVFL	"X'20'" OVERFLOW
		...1		FPCDUNFL	"X'10'" UNDERFLOW
		.... 1...		FPCDINEX	"X'08'" INEXACT
		.... .1..		FPCDINCR	"X'04'" INCREMENTED
		11		FPCDR	"X'03'" RESERVED
3	(3)	CHARACTER	1	FPCBYTE3	3 * BIT(6), RESERVED
		11		FPCRND	"X'03'" ROUNDING MODE
4	(4)	X'4'	0	FPC_LEN	"*-FPC"

IHAFPC Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
FPC	0		FPCFINEX	1	8
FPC_LEN	4	4	FPCFINVO	1	80
FPCBYTE3	3		FPCFLAG	1	
FPCDDIVZ	2	40	FPCFOVFL	1	20
FPCDINCR	2	4	FPCFUNFL	1	10
FPCDINEX	2	8	FPCMASK	0	
FPCDINVO	2	80	FPCMDIVZ	0	40
FPCDOVFL	2	20	FPCMINEX	0	8
FPCDR	2	3	FPCMINVO	0	80
FPCDUNFL	2	10	FPCMOVFL	0	20
FPCDXC	2		FPCMUNFL	0	10
FPCFDIVZ	1	40	FPCRND	3	3

IHAFPRET Programming Interface information

Programming Interface information

IHAFPRET

End of Programming Interface information

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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

		....		IEAFPRC_OK	"X'00000000'" Meaning: IEAFP request successful. Action: None required.
		.... 1...		IEAFPRC_INVPARM	
					"X'00000008'" Meaning: IEAFP request specifies parmeters that are not valid. Action: Refer to the action provided with the specific reason code.
0	(0)	BITSTRING	0	IEAFPRSNBADFUNCTION	
					"X'00000801'" Meaning: Incorrect value passed to target routine. Action: Check for possible storage overlay.
		.... 11..		IEAFPRC_ENV	"X'0000000C'" Meaning: Environmental error Action: Refer to the action provided with the specific reason code.
0	(0)	BITSTRING	0	IEAFPRSNFROMASYNCHEXIT	
					"X'00000C01'" Meaning: IEAFP was issued from an asynchronous exit routine. Action: Avoid issuing IEAFP from an asynchronous exit routine.

IHAFSD Programming Interface information

Programming Interface information

IHAFSD

End of Programming Interface information

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IHAFSD Heading Information

Common Name: FICON Switch Data
Macro ID: IHAFSD
DSECT Name: FSD - FICON Switch Data MHR - Monitor Header Record MPIR - Monitor Port Information Record SCR - Statistical Counter Record MCR - Monitor Control Record SCCW - Statistical Counter Control Word
Owning Component: I/O Supervisor (SC1C3)
Eye-Catcher ID: FSD
Offset: 0
Length: 4
Storage Attributes: Subpool: User defined
Key: Key of user
Residency: Above 16MB
Size: FSD -- X'0038' bytes
FSD -- X'0038' bytes
MHR -- X'0010' bytes
MPIR -- X'0010' bytes
SCR -- X'0008' bytes
MCR -- X'0100' bytes
SCCW -- X'0004' bytes
Created by: IRDVFSD on callers request
Pointed to by: User specified
Serialization: None
Function: Maps the FICON measurement data returned by the IRDFSD service.

IHAFSD Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	FSD	FICON Switch Data
0	(0)	CHARACTER	4	FSDID	FSD ID field
4	(4)	SIGNED	1	FSDVERS	Version
5	(5)	CHARACTER	2		Reserved
7	(7)	SIGNED	1	FSDSUBP	FSD Subpool
8	(8)	SIGNED	4	FSDSIZE	Total number of bytes of the FSD
12	(C)	CHARACTER	2		Reserved
14	(E)	SIGNED	2	FSDSWCNT	Total number of FICON Switch Devices contained in FSD
16	(10)	CHARACTER	40	FSDDEVICE (0)	FICON Switch Data
16	(10)	CHARACTER	2	FSDDEVN	Device number
18	(12)	CHARACTER	2	FSDFLAGS (0)	Flags
		1...		FSDSUCC	"X'80'" Data was successfully read
		.1..		FSDONLINE	"X'40'" On indicates the device was online
20	(14)	CHARACTER	32	FSDNED	Device NED
52	(34)	SIGNED	4	FSDDATAOFFSET	Offset from FSD of the monitor data for the device
52	(34)	X'38'	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)	SIGNED	1	MHRCOUNT	MHR length in 4-byte words
2	(2)	CHARACTER	1	MHRSTATUS (0)	Status
		..1.		MHRELAPSEDTIMEOVERFLOW	"X'20'" Elapsed time overflow

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
		...1		MHRCOUNTERSET	"X'10'" On indicates the complete counter set has been read, off indicates that a subset has been returned
		.... 1...		MHRRECORDTRUNCATED	"X'08'" On indicates that the byte count was not sufficient to transfer the entire record, and the record has been truncated
3	(3)	CHARACTER	3		Reserved
6	(6)	CHARACTER	2	MHRELAPSEDTIMECOUNT	Elapsed time counter
8	(8)	CHARACTER	1	MHRVERSIONSUPPORTED	Version supported
9	(9)	CHARACTER	1	MHRVERSIONPRESENTED	Version presented
10	(A)	CHARACTER	2		Reserved
12	(C)	CHARACTER	4	MHRSEQUENCENUMBER	Sequence Number
12	(C)	X'10'	0	MHR_LEN	"*-MHR"

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)	SIGNED	1	MPIRCOUNT	MPIR length in 4-byte words
2	(2)	CHARACTER	1	MPIRSTATUS (0)	Status
		1...		MPIRSTATITCALCOUNTERSPROVIDED	"X'80'" Counters provided
		.1..		MPIRLAST	"X'40'" Last MPIR
		...1		MPIRINTERNALPORT	"X'10'" On indicates an internal port, off indicates an external port
3	(3)	CHARACTER	2		Reserved
5	(5)	SIGNED	1	MPIRPORTNUMBER	Port number (always x'FF' for internal ports)
6	(6)	SIGNED	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...		SCRCOUNTERVALID	"X'80'" Counters provided
		.1..		SCRLAST	"X'40'" Last SCR
		..1.		SCROVERFLOW	"X'20'" Counter overflowed
		11		SCRSCALE	"X'03'" Counter scaling factor: '00'b = scale by 1x '01'b = scale by 16x '10'b = scale by 256x '11'b = scale by 4096x
1	(1)	SIGNED	1	SCRCOUNT	SCR length in 4-byte words
2	(2)	CHARACTER	2	SCRSTATISTICALCOUNTERID	Counter ID
4	(4)	SIGNED	4	SCRSTATISTICALCOUNTERDATA	Statistical Counter Data

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
				Comment	
Performance Counter Identifiers					
				End of Comment	
4	(4)	BITSTRING	0	SCIDNUMBEROFWORDSTRANSMITTED	"X'0901'"
4	(4)	BITSTRING	0	SCIDNUMBEROFWORDSRECEIVED	"X'0902'"
4	(4)	BITSTRING	0	SCIDNUMBEROFFRAMESTRANSMITTED	"X'0903'"
4	(4)	BITSTRING	0	SCIDNUMBEROFFRAMESRECEIVED	"X'0904'"
4	(4)	BITSTRING	0	SCIDNUMBEROFCLASS2FRAMESRECV	"X'0905'"
4	(4)	BITSTRING	0	SCIDNUMBEROFCLASS3FRAMESRECV	"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	SCIDNUMBEROFFRAMESGTFCMAX	"X'0912'"
4	(4)	BITSTRING	0	SCIDNUMBEROFFRAMESLTFCMIN	"X'0913'"
4	(4)	BITSTRING	0	SCIDNUMBEROFFRAMESWITHBADEOF	"X'0914'"
4	(4)	BITSTRING	0	SCIDNUMBEROFDISPARITYERRORSOUT	"X'0915'"
4	(4)	BITSTRING	0	SCIDNUMBEROFINVALIDORDSETS	"X'0916'"
4	(4)	BITSTRING	0	SCIDNUMBEROFCLASS3FRAMESDISC	"X'0917'"
				Comment	
Link Error Counter Identifiers					
				End of Comment	
4	(4)	BITSTRING	0	SCIDNUMBEROFLINKFAILURES	"X'0920'"
4	(4)	BITSTRING	0	SCIDNUMBEROFLOSSOFSYNC	"X'0921'"
4	(4)	BITSTRING	0	SCIDNUMBEROFLOSSOFSIGNAL	"X'0922'"
4	(4)	BITSTRING	0	SCIDNUMBEROFPROTOCOLERRORS	"X'0923'"
4	(4)	BITSTRING	0	SCIDNUMBEROFINVTRANWORDS	"X'0924'"
4	(4)	BITSTRING	0	SCIDNUMBEROFADDRESSIDERRORS	"X'0925'"

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
4	(4)	BITSTRING	0	SCIDNUMBEROFLRRISSUEDBYPORT	"X'0926'"
4	(4)	BITSTRING	0	SCIDNUMBEROFOLSRECEIVED	"X'0927'"
4	(4)	BITSTRING	0	SCIDNUMBEROFOLSISSUED	"X'0928'"
4	(4)	BITSTRING	0	SCIDERRORSUMMARYCOUNT	"X'0929'"

Comment

Statistical Counter Scaling Factors

End of Comment

		....		SCRSCALE1	"B'00'" Scale by 1
		1		SCRSCALE16	"B'01'" Scale by 16
		.... ..1.		SCRSCALE256	"B'10'" Scale by 256
		11		SCRSCALE4096	"B'11'" Scale by 4096
4	(4)	X'8'	0	SCR	"*-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

2	(2)	X'31'	0	FSDSETMONITOR	"C' '"
2	(2)	X'32'	0	FSDREADPORTSTATISTICS	"C' '"
2	(2)	X'4'	0	SCCW_LEN	"*-SCCW"

IHAFSD Cross Reference

Name	Hex Offset	Hex Value
FSD	0	
FSD_LEN	34	38
FSDDATAOFFSET	34	
FSDDEVICE	10	
FSDDEVN	10	
FSDFLAGS	12	
FSDID	0	
FSDNED	14	
FSDONLINE	12	40
FSDREADPORTSTATISTICS	2	32
FSDSETMONITOR	2	31
FSDSIZE	8	
FSDSUBP	7	
FSDSUCC	12	80
FSDSWCNT	E	
FSDVERS	4	
MCR	0	
MCR_LEN	10	100
MCRCCW	10	
MCRENDPORT	F	
MCRMC	2	
MCRSTARTPORT	B	
MCRVERSION	8	
MHR	0	
MHR_LEN	C	10
MHRCOUNT	1	
MHRCOUNTERSET	2	10
MHRELAPSEDTIMECOUNT	6	
MHRELAPSEDTIMEOVERFLOW	2	20
MHRID	0	
MHRRECORDTRUNCATED	2	8
MHRSEQUENCENUMBER	C	
MHRSTATUS	2	
MHRVERSIONPRESENTED	9	
MHRVERSIONSUPPORTED	8	
MPIR	0	
MPIR_LEN	C	10
MPIRCOUNT	1	
MPIRID	0	
MPIRINTERNALPORT	2	10
MPIRLAST	2	40
MPIRPORTADDRESS	6	
MPIRPORTDESCRIPTOR	8	
MPIRPORTNUMBER	5	
MPIRSTATITCALCOUNTERSPROVIDED	2	80
MPIRSTATUS	2	
SCCW	0	
SCCW_LEN	2	4
SCCWFLAG	0	
SCCWLAST	0	80
SCCWSTATISTICALCOUNTERID	2	
SCIDERRORSUMMARYCOUNT	4	929
SCIDFRAMEPACINGTIME	4	909
SCIDNUMBEROFADDRESSIDERRORS	4	925
SCIDNUMBEROFCLASS2FRAMESRECV	4	905
SCIDNUMBEROFCLASS3FRAMESDISC	4	917
SCIDNUMBEROFCLASS3FRAMESRECV	4	906
SCIDNUMBEROFCRCERRORS	4	911
SCIDNUMBEROFDISPARITYERRORSIN	4	910
SCIDNUMBEROFDISPARITYERRORSOUT	4	915
SCIDNUMBEROFFRAMESGTFCMAX	4	912
SCIDNUMBEROFFRAMESLTFCMIN	4	913
SCIDNUMBEROFFRAMESRECEIVED	4	904
SCIDNUMBEROFFRAMESTRANSMITTED	4	903
SCIDNUMBEROFFRAMESWITHBADEOF	4	914
SCIDNUMBEROFINVALIDORDSETS	4	916
SCIDNUMBEROFINVTRANWORDS	4	924
SCIDNUMBEROFLINKCNTLFRAMESR	4	907
SCIDNUMBEROFLINKFAILURES	4	920
SCIDNUMBEROFLOSSOFSIGNAL	4	922
SCIDNUMBEROFLOSSOFSYNC	4	921
SCIDNUMBEROFLRRISSUEDBYPORT	4	926
SCIDNUMBEROFMULTICASTFRAMESR	4	908
SCIDNUMBEROFOLSISSUED	4	928
SCIDNUMBEROFOLSRECEIVED	4	927
SCIDNUMBEROFPROTOCOLERRORS	4	923
SCIDNUMBEROFWORDSRECEIVED	4	902
SCIDNUMBEROFWORDSTRANSMITTED	4	901
SCR	0	
SCR	4	8
SCRCOUNT	1	
SCRCOUNTERVALID	0	80

Name	Hex Offset	Hex Value
SCRLAST	0	40
SCROVERFLOW	0	20
SCRSCALE	0	3
SCRSCALE1	4	0
SCRSCALE16	4	1
SCRSCALE256	4	2
SCRSCALE4096	4	3
SCRSTATISTICALCOUNTERDATA	4	
SCRSTATISTICALCOUNTERID	2	
SCRSTATUS	0	

IHAIPA Programming Interface information

Programming Interface information

IHAIPA

End of Programming Interface information

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IHAIPA Heading Information

Common Name: Initialization Parameter Area
Macro ID: IHAIPA
DSECT Name: IPA IPAPDE IPAPLI
Owning Component: Nucleus Initialization Program (SC1C8)
Eye-Catcher ID: IPA
Offset: 0
Length: 4
Storage Attributes: Main Storage: NO
Virtual Storage: YES
Auxiliary Storage: YES
Subpool: 241
Key: 0
Data Space: NO
Residency: Above 16M virtual
Size: IPA -- X'0AE8' bytes
IPAPDE -- X'0008' bytes
IPAPLI -- X'0040' bytes
Created by: IEAVNIPX
Pointed to by: ECVTIPA
Serialization: NONE
Function: The IPA contains system initialization parameters defined in:
1) the load parameter used to IPL.
2) the LOADxx member used to IPL.
3) all IEASYSxx members used to IPL.
Each set of parameter information is mapped by dsect IPAPDE.

IHAIPA 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)	SIGNED	1	IPASP	Subpool
7	(7)	SIGNED	1	IPAVER	Version number
8	(8)	CHARACTER	8	IPAICTOD	TOD at completion of system initialization
16	(10)	CHARACTER	8	IPALPARM	IPL load parameter
16	(10)	CHARACTER	4	IPAIODFU	IODF unit address
20	(14)	CHARACTER	2	IPALOADS	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	IPAIOHLQ	IODF dataset name high-level qualifier
107	(6B)	CHARACTER	1		Reserved
108	(6C)	CHARACTER	8	IPAIOCFG	Operating system configuration identifier
116	(74)	CHARACTER	1		Reserved
117	(75)	CHARACTER	2	IPAIOEDT	EDT identifier

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
119	(77)	CHARACTER	1		Reserved
120	(78)	CHARACTER	1	IPAIODDS	Load all device support modules ("Y"=" ", or "N")
160	(A0)	CHARACTER	64	IPASPARM	SYSPARM card image
160	(A0)	CHARACTER	2	IPASPSUF	IEASYSxx suffix
160	(A0)	CHARACTER	63	IPASPLST	List of IEASYSxx suffixes in parentheses
224	(E0)	CHARACTER	64	IPASCAT	SYSCAT card image
224	(E0)	CHARACTER	6	IPASCVOL	Master catalog VOLSER
230	(E6)	CHARACTER	1	IPASCTYP	Master catalog type (" "=VSAM, "1"=ICF, "2"=ICF and SYS%-SYS1 conversion)
231	(E7)	CHARACTER	1	IPASCANL	Alias name level
232	(E8)	CHARACTER	2	IPASCCAS	CAS service task lower limit ("18" to "B4")
234	(EA)	CHARACTER	44	IPASCDSN	Master catalog dataset name
278	(116)	CHARACTER	8	IPASCHLQ	HLQ of master cat
288	(120)	CHARACTER	64	IPASYM	IEASYM card image
288	(120)	CHARACTER	2	IPASYSUF	IEASYMxx suffix
288	(120)	CHARACTER	63	IPASYLST	List of IEASYMxx suffixes in parentheses
352	(160)	CHARACTER	64	IPAPLEX	SYSPLEX card image
352	(160)	CHARACTER	8	IPASXNAM	SYSPLEX name
360	(168)	CHARACTER	1		Reserved
361	(169)	CHARACTER	1	IPASXSCU	SYSCLONE uniquenes 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
		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		Reserved
1568	(620)	CHARACTER	64	IPASTMT	Reserved
2080	(820)	CHARACTER	54		Reserved
2134	(856)	SIGNED	2	IPAPLNUMX	Number of PARMLIB card images. The card images must be found by using field IPAPLIB@. This field will be 0 (as will IPAPLIB@) on older systems where IPAPLNUMX is not functional.
2136	(858)	ADDRESS	4	IPAPLIB@	Address of PARMLIB card images when IPAPLNUMX is non-zero. The card images are contiguous. Each PARMLIB card is mapped by DSECT IPAPLI
2140	(85C)	CHARACTER	2		RESERVED
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
		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	640	IPASYS	IEASYSxx section
2152	(868)	CHARACTER	8	IPAPDES	Parameter descriptor elements

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
2152	(868)	CHARACTER	632	IPAPDESC	Individual parameter descriptors
2152	(868)	CHARACTER	8	IPAALLOC	
				Comment	
		PDE for ALLOC			
				End of Comment	
2160	(870)	CHARACTER	8	IPAAPF	
				Comment	
		PDE for APF			
				End of Comment	
2168	(878)	CHARACTER	8	IPAAPG	
				Comment	
		PDE for APG			
				End of Comment	
2176	(880)	CHARACTER	8	IPABLDL	
				Comment	
		PDE for BLDL			
				End of Comment	
2184	(888)	CHARACTER	8	IPABLDLF	
				Comment	
		PDE for BLDLF			
				End of Comment	
2192	(890)	CHARACTER	8	IPACLOCK	
				Comment	
		PDE for CLOCK			
				End of Comment	
2200	(898)	CHARACTER	8	IPACLPA	
				Comment	
		PDE for CLPA			
				End of Comment	
2208	(8A0)	CHARACTER	8	IPACMB	
				Comment	
		PDE for CMB			
				End of Comment	
2216	(8A8)	CHARACTER	8	IPACMD	
				Comment	
		PDE for CMD			
				End of Comment	

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
2224	(8B0)	CHARACTER	8	IPACON	
					Comment
		PDE for CON			
					End of Comment
2232	(8B8)	CHARACTER	8	IPACONT	
					Comment
		PDE for CONT			
					End of Comment
2240	(8C0)	CHARACTER	8	IPACOUPL	
					Comment
		PDE for COUPLE			
					End of Comment
2248	(8C8)	CHARACTER	8	IPACPQE	
					Comment
		PDE for CPQE			
					End of Comment
2256	(8D0)	CHARACTER	8	IPACSA	
					Comment
		PDE for CSA			
					End of Comment
2264	(8D8)	CHARACTER	8	IPACSCBL	
					Comment
		PDE for CSCBLOC			
					End of Comment
2272	(8E0)	CHARACTER	8	IPACVIO	
					Comment
		PDE for CVIO			
					End of Comment
2280	(8E8)	CHARACTER	8	IPADEVSU	
					Comment
		PDE for DEVSUP			
					End of Comment
2288	(8F0)	CHARACTER	8	IPADIAG	
					Comment
		PDE for DIAG			
					End of Comment
2296	(8F8)	CHARACTER	8	IPADUMP	

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					Comment
		PDE for DUMP			
					End of Comment
2304	(900)	CHARACTER	8	IPADUPLE	
					Comment
		PDE for DUPLEX			
					End of Comment
2312	(908)	CHARACTER	8	IPAEXIT	
					Comment
		PDE for EXIT			
					End of Comment
2320	(910)	CHARACTER	8	IPAFIX	
					Comment
		PDE for FIX			
					End of Comment
2328	(918)	CHARACTER	8	IPAGRS	
					Comment
		PDE for GRS			
					End of Comment
2336	(920)	CHARACTER	8	IPAGRSCN	
					Comment
		PDE for GRSCNF			
					End of Comment
2344	(928)	CHARACTER	8	IPAGRSRN	
					Comment
		PDE for GRSRNL			
					End of Comment
2352	(930)	CHARACTER	8	IPAICS	
					Comment
		PDE for ICS			
					End of Comment
2360	(938)	CHARACTER	8	IPAIOS	
					Comment
		PDE for IOS			
					End of Comment
2368	(940)	CHARACTER	8	IPAIPS	

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					Comment
		PDE for IPS			
					End of Comment
2376	(948)	CHARACTER	8	IPALNK	
					Comment
		PDE for LNK			
					End of Comment
2384	(950)	CHARACTER	8	IPALNKAU	
					Comment
		PDE for LNKAUTH			
					End of Comment
2392	(958)	CHARACTER	8	IPALOGCL	
					Comment
		PDE for LOGCLS			
					End of Comment
2400	(960)	CHARACTER	8	IPALOGLM	
					Comment
		PDE for LOGLMT			
					End of Comment
2408	(968)	CHARACTER	8	IPALOGRE	
					Comment
		PDE for LOGREC			
					End of Comment
2416	(970)	CHARACTER	8	IPALPA	
					Comment
		PDE for LPA			
					End of Comment
2424	(978)	CHARACTER	8	IPAMAXCA	
					Comment
		PDE for MAXCAD			
					End of Comment
2432	(980)	CHARACTER	8	IPAMAXUS	
					Comment
		PDE for MAXUSER			
					End of Comment
2440	(988)	CHARACTER	8	IPAMLPA	

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					Comment
		PDE for MLPA			
					End of Comment
2448	(990)	CHARACTER	8	IPAMSTRJ	
					Comment
		PDE for MSTRJCL			
					End of Comment
2456	(998)	CHARACTER	8	IPANONVI	
					Comment
		PDE for NONVIO			
					End of Comment
2464	(9A0)	CHARACTER	8	IPANSYSL	
					Comment
		PDE for NSYSLX			
					End of Comment
2472	(9A8)	CHARACTER	8	IPANUCMA	
					Comment
		PDE for NUCMAP			
					End of Comment
2480	(9B0)	CHARACTER	8	IPAOMVS	
					Comment
		PDE for OMVS			
					End of Comment
2488	(9B8)	CHARACTER	8	IPAOPI	
					Comment
		PDE for OPI			
					End of Comment
2496	(9C0)	CHARACTER	8	IPAOPT	
					Comment
		PDE for OPT			
					End of Comment
2504	(9C8)	CHARACTER	8	IPAPAGEO	
					Comment
		PDE for PAGE (operator-specified			
					End of Comment
2512	(9D0)	CHARACTER	8	IPAPAGEP	

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					Comment
		PDE for PAGE (IEASYSxx-specified			
					End of Comment
2520	(9D8)	CHARACTER	8	IPAPAGNU	
					Comment
		PDE for PAGNUM			
					End of Comment
2528	(9E0)	CHARACTER	8	IPAPAGTO	
					Comment
		PDE for PAGTOTL			
					End of Comment
2536	(9E8)	CHARACTER	8	IPAPAK	
					Comment
		PDE for PAK			
					End of Comment
2544	(9F0)	CHARACTER	8	IPAPLEXC	
					Comment
		PDE for PLEXCFG			
					End of Comment
2552	(9F8)	CHARACTER	8	IPAPRODP	
					Comment
		PDE for PRODP			
					End of Comment
2560	(A00)	CHARACTER	8	IPAPROG	
					Comment
		PDE for PROG			
					End of Comment
2568	(A08)	CHARACTER	8	IPAPURGE	
					Comment
		PDE for PURGE			
					End of Comment
2576	(A10)	CHARACTER	8	IPARDE	
					Comment
		PDE for RDE			
					End of Comment
2584	(A18)	CHARACTER	8	IPAREAL	

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					Comment
		PDE for REAL			
					End of Comment
2592	(A20)	CHARACTER	8	IPARER	
					Comment
		PDE for RER			
					End of Comment
2600	(A28)	CHARACTER	8	IPARSU	
					Comment
		PDE for RSU			
					End of Comment
2608	(A30)	CHARACTER	8	IPARSVNO	
					Comment
		PDE for RSVNONR			
					End of Comment
2616	(A38)	CHARACTER	8	IPARSVST	
					Comment
		PDE for RSVSTRT			
					End of Comment
2624	(A40)	CHARACTER	8	IPASCH	
					Comment
		PDE for SCH			
					End of Comment
2632	(A48)	CHARACTER	8	IPASMF	
					Comment
		PDE for SMF			
					End of Comment
2640	(A50)	CHARACTER	8	IPASMS	
					Comment
		PDE for SMS			
					End of Comment
2648	(A58)	CHARACTER	8	IPASQA	
					Comment
		PDE for SQA			
					End of Comment
2656	(A60)	CHARACTER	8	IPASSN	

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					Comment
		PDE for SSN			
					End of Comment
2664	(A68)	CHARACTER	8	IPASVC	
					Comment
		PDE for SVC			
					End of Comment
2672	(A70)	CHARACTER	8	IPASWAP	
					Comment
		PDE for SWAP			
					End of Comment
2680	(A78)	CHARACTER	8	IPASYSNA	
					Comment
		PDE for SYSNAME			
					End of Comment
2688	(A80)	CHARACTER	8	IPASYSP	
					Comment
		PDE for SYSP			
					End of Comment
2696	(A88)	CHARACTER	8	IPAVAL	
					Comment
		PDE for VAL			
					End of Comment
2704	(A90)	CHARACTER	8	IPAVIODS	
					Comment
		PDE for VIODSN			
					End of Comment
2712	(A98)	CHARACTER	8	IPAVRREG	
					Comment
		PDE for VRREGN			
					End of Comment
2720	(AA0)	CHARACTER	8	IPARTLSP	
					Comment
		PDE for RTLS			
					End of Comment
2728	(AA8)	CHARACTER	8	IPAUNIP	

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
				Comment	
		PDE for UNI			
				End of Comment	
2736	(AB0)	CHARACTER	8	IPAILML	
				Comment	
		PDE for ILMLIB			
				End of Comment	
2744	(AB8)	CHARACTER	8	IPAILMOD	
				Comment	
		PDE for ILMMODE			
				End of Comment	
2752	(AC0)	CHARACTER	8	IPATSO	
				Comment	
		PDE for IKJTSO			
				End of Comment	
2760	(AC8)	CHARACTER	8	IPALIC	
				Comment	
		PDE for LICENSE			
				End of Comment	
2768	(AD0)	CHARACTER	8		
				Comment	
		Reserved			
				End of Comment	
2776	(AD8)	CHARACTER	8	IPAILM	
				Comment	
		PDE for ILM			
				End of Comment	
2792	(AE8)	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	
Constants for IPAHEAD					
				End of Comment	
2792	(AE8)	X'D7C140'	0	IPAIPA	"C'IPA '" Eye-catcher
2792	(AE8)	X'F1'	0	IPASPN	"241" IPA subpool
2792	(AE8)	X'1'	0	IPACVN	"1" IPA current version

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

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

2792	(AE8)	X'C1'	0	IPAPRYYY	"C'A'"
2792	(AE8)	X'D7'	0	IPAPRYYN	"C'P'"
2792	(AE8)	X'D4'	0	IPAPRNNY	"C'M'"
2792	(AE8)	X'40'	0	IPAPRNNN	"C' '"
2792	(AE8)	X'C3'	0	IPAPRYNN	"C'C'"
2792	(AE8)	X'C4'	0	IPAPRYNY	"C'D'"
2792	(AE8)	X'E2'	0	IPAPRNYN	"C'S'"
2792	(AE8)	X'E3'	0	IPAPRNYY	"C'T'"
2792	(AE8)	X'AE8'	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'FFFFFF'	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
45	(2D)	CHARACTER	6	IPAPLIVOL	PARMLIB VOLSER
51	(33)	CHARACTER	12		Reserved
63	(3F)	BITSTRING	1	IPAPLIFLG	PARMLIB usage flags
		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
IPA	0	
IPA_LEN	AE8	AE8
IPAALLOC	868	
IPAAPF	870	
IPAAPG	878	
IPAARCHL	85F	
IPABLDL	880	
IPABLDLF	888	
IPACLOCK	890	
IPACLPA	898	
IPACMB	8A0	
IPACMD	8A8	
IPACON	8B0	
IPACONT	8B8	
IPACOUPL	8C0	
IPACPQE	8C8	
IPACSA	8D0	
IPACSCBL	8D8	
IPACVIO	8E0	
IPACVN	AE8	1
IPADEVSU	8E8	
IPADIAG	8F0	
IPADUMP	8F8	
IPADUPLE	900	
IPAEND	AE8	
IPAEXIT	908	
IPAFIX	910	
IPAGRS	918	
IPAGRSCN	920	
IPAGRSRN	928	
IPAHEAD	0	
IPAHWNAM	18	
IPAICS	930	
IPAICTOD	8	
IPAID	0	
IPAILM	AD8	
IPAILML	AB0	
IPAILMOD	AB8	
IPAIOCFG	6C	
IPAIODDS	78	
IPAIODF	60	
IPAIODFU	10	
IPAIOEDT	75	
IPAIOHLQ	63	
IPAIOS	938	
IPAIOSUF	60	
IPAIPA	AE8	D7C140
IPAIPS	940	
IPAJCLP	866	80
IPALEN	4	
IPALFLAG	866	
IPALIC	AC8	
IPALNK	948	
IPALNKAU	950	
IPALOAD	60	
IPALOADS	14	
IPALOGCL	958	
IPALOGLM	960	
IPALOGRE	968	
IPALPA	970	
IPALPARM	10	
IPALPDDV	5C	
IPALPDSN	30	
IPALPNAM	20	
IPAMAXCA	978	
IPAMAXUS	980	
IPAMLPA	988	
IPAMSTRJ	990	
IPAMTLSH	85E	
IPANAMES	18	
IPANLID	860	
IPANONVI	998	
IPANSYSL	9A0	
IPANUCID	17	
IPANUCL	860	
IPANUCMA	9A8	
IPANUCW	862	
IPANUCXID	867	
IPAOMVS	9B0	
IPAOPI	9B8	
IPAOPT	9C0	
IPAPAGEO	9C8	
IPAPAGEP	9D0	
IPAPAGNU	9D8	
IPAPAGTO	9E0	
IPAPAK	9E8	
IPAPDE	0	
IPAPDE_LEN	6	8
IPAPDEDF	6	0
IPAPDEDO	6	
IPAPDEOP	6	FFFFFF
IPAPDES	868	
IPAPDESA	0	
IPAPDESC	868	
IPAPDESL	4	
IPAPDESS	6	
IPAPLCAT	1DF	20
IPAPLDEF	1DF	40
IPAPLDSN	1A0	
IPAPLEX	160	
IPAPLEXC	9F0	
IPAPLFLG	1DF	
IPAPLI	0	
IPAPLI_LEN	40	40
IPAPLIB	1A0	
IPAPLIB@	858	
IPAPLICAT	3F	20
IPAPLIDEF	3F	40
IPAPLIDSN	0	
IPAPLIFLG	3F	
IPAPLILCF	3F	8
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	
IPAPRNNN	AE8	40
IPAPRNNY	AE8	D4
IPAPRNYN	AE8	E2
IPAPRNYY	AE8	E3

Name	Hex Offset	Hex Value
IPAPRODP	9F8	
IPAPROG	A00	
IPAPROMT	16	
IPAPRYNN	AE8	C3
IPAPRYNY	AE8	C4
IPAPRYYN	AE8	D7
IPAPRYYY	AE8	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	
IPASPLST	A0	
IPASPN	AE8	F1
IPASPSUF	A0	
IPASQA	A58	
IPASSN	A60	
IPASTMT	620	
IPASVC	A68	
IPASWAP	A70	
IPASXNAM	160	
IPASXSCU	169	
IPASYLST	120	
IPASYM	120	
IPASYS	868	
IPASYSNA	A78	
IPASYSP	A80	
IPASYSUF	120	
IPATSO	AC0	
IPAUJCL	866	40
IPAUNIP	AA8	
IPAVAL	A88	
IPAVER	7	
IPAVIODS	A90	
IPAVMNAM	28	
IPAVRREG	A98	

IHALCCX Heading Information

Common Name: Extended Status Saving Work Area
Macro ID: IHALCCX
DSECT Name: LCCX
Owning Component: Supervisor Control (SC1C5)
Eye-Catcher ID: LCCX
Offset: X'6C0'
Length: 4
Storage Attributes: Subpool: 239
Key: 0
Residency: Above 16M
Size: LCCX -- X'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

IHALCCX Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	1824	LCCX	
0	(0)	CHARACTER	512	LCCXFPWA	The FPWA is mapped here
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	64	LCCXR380	Reserved
960	(3C0)	CHARACTER	128	LCCXLCCAPCR1	8-byte CRs
1088	(440)	CHARACTER	128	LCCXLCCAPCR2	8-byte CRs
1216	(4C0)	CHARACTER	128	LCCXLCCAPCR3	8-byte CRs
1344	(540)	CHARACTER	128	LCCXLCCAPCR4	8-byte CRs
1472	(5C0)	CHARACTER	128	LCCXLCCAPCR5	8-byte CRs
1600	(640)	CHARACTER	128	LCCXLCCARCRS	8-byte CRs
1728	(6C0)	CHARACTER	4	LCCXID	Acronym
1732	(6C4)	CHARACTER	4	*	Reserved
1736	(6C8)	CHARACTER	6	*	Reserved
1742	(6CE)	CHARACTER	2	LCCXLCCAPERC	PER code
1744	(6D0)	CHARACTER	8	LCCXLCCAPERA	PER address
1744	(6D0)	CHARACTER	4	LCCXLCCAPERA03	PER address 0-3
1748	(6D4)	ADDRESS	4	LCCXLCCAPERA47	PER address 4-7
1752	(6D8)	CHARACTER	8	LCCXLCCAPVAD	Translation exception address (from 168-175)
1760	(6E0)	CHARACTER	8	LCCXLCCAPTE1	Translation exception address analogous to LCCAPTE1
1768	(6E8)	CHARACTER	8	LCCXLCCAPTE3	Translation exception address analogous to LCCAPTE3
1776	(6F0)	CHARACTER	8	LCCXLCCAPTE5	Translation exception address analogous to LCCAPTE5
1784	(6F8)	CHARACTER	40	*	Reserved
1824	(720)	CHARACTER	0	*	End of mapping

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IHALCCX Constants

Len	Type	Value	Name	Description
4	CHARACTER	LCCX	LCCXIDCHARS	

IHALCCX Cross Reference

Name	Hex Offset	Hex Value
LCCX	0	
LCCXFPWA	0	
LCCXID	6C0	
LCCXLCCAPCR1	3C0	
LCCXLCCAPCR2	440	
LCCXLCCAPCR3	4C0	
LCCXLCCAPCR4	540	
LCCXLCCAPCR5	5C0	
LCCXLCCAPERA	6D0	
LCCXLCCAPERA03	6D0	
LCCXLCCAPERA47	6D4	
LCCXLCCAPERC	6CE	
LCCXLCCAPTE1	6E0	
LCCXLCCAPTE3	6E8	
LCCXLCCAPTE5	6F0	
LCCXLCCAPVAD	6D8	
LCCXLCCAP64H1	200	
LCCXLCCAP64H2	240	
LCCXLCCAP64H3	280	
LCCXLCCAP64H4	2C0	
LCCXLCCAP64H5	300	
LCCXLCCARCRS	640	
LCCXLCCARG64H	340	
LCCXR380	380	

IHALCCXT Heading Information

Common Name: LCCA Extension (LCCX) Vector Table
Macro ID: IHALCCXT
DSECT Name: LCCXVT
Owning Component: Supervisor Control (SC1C5)
Eye-Catcher ID: None
Storage Attributes: Subpool: 245
Key: 0
Size: Offset of LCCXTEND minus offset of LCCXVT
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
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)	DBL WORD	8	LCCXTEND (0)	- END OF LCCXT

IHALCCXT Cross Reference

Name	Hex Offset	Hex Value
LCCXTEND	40	
LCCXT00P	0	
LCCXT01P	4	
LCCXT02P	8	
LCCXT03P	C	
LCCXT04P	10	
LCCXT05P	14	
LCCXT06P	18	
LCCXT07P	1C	
LCCXT08P	20	
LCCXT09P	24	
LCCXT10P	28	
LCCXT11P	2C	
LCCXT12P	30	
LCCXT13P	34	
LCCXT14P	38	
LCCXT15P	3C	
LCCXVT	0	

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IHAPRD Programming Interface information

Programming Interface information

IHAPRD

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

- PRDTTCH

End of Programming Interface information

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IHAPRD Heading Information

Common Name: Dump Header mapping for SVC Dump
Macro ID: IHAPRD
DSECT Name: PRDINPUT
Owning Component: SVC Dump (SCDMP)
Eye-Catcher ID: None
Storage Attributes: Auxiliary Storage: One per dump dataset
Size: 4160 bytes
Created by: SVC Dump (IEAVTSDH, ADYPRED)
SADMP (AMDSADM2)
Pointed to by: N/A
Serialization: None
Function: IHAPRD describes the contents of dump records created by SADMP, SVC Dump, SLIP invoked SVC Dump, and SYSMDUMP. The macro defines the dump header record and symptom area, CPU status records, and general storage records.

IHAPRD 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	PRDPSERL	PROCESSOR SERIAL NUMBER IN HEX
20	(14)	CHARACTER	2	PRDPMODL	PROCESSOR MODEL NUMBER IN HEX
22	(16)	CHARACTER	2	PRDPCPU@	PHYSICAL CPU ADDRESS IN HEX
24	(18)	CHARACTER	100	PRDTITLE	TITLE FROM DUMP
124	(7C)	CHARACTER	8	PRDDSPB	TIME SYSTEM SET NON-DISPATCHABLE
132	(84)	CHARACTER	8	PRDDSPE	TIME SYSTEM RESET DISPATCHABLE
140	(8C)	CHARACTER	8	PRDSNAME	SYSTEM NAME
148	(94)	CHARACTER	12		RESERVED - Aligns 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	90		RESERVED
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/SYSMDUMP COMMON SECTION
298	(12A)	SIGNED	2	PRDSDMPL	LENGTH OF COMMON SECTION
300	(12C)	SIGNED	2	PRDSLIPO	OFFSET OF SLIP SECTION
302	(12E)	SIGNED	2	PRDSLIPL	LENGTH OF SLIP SECTION
304	(130)	SIGNED	2	PRDSYSMO	OFFSET OF SYSMDUMP SECTION
306	(132)	SIGNED	2	PRDSYSML	LENGTH OF SYSMDUMP SECTION
308	(134)	SIGNED	2	PRDSDWAO	OFFSET OF SDWA FOR THIS DUMP
310	(136)	SIGNED	2	PRDSDWAL	LENGTH OF SDWA
312	(138)	CHARACTER	50	PRDCID	CALLER'S ID

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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	PRDSDWA	, 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
		....		PRDME	"BIT0" ESAME mode
		....		PRDVGPRF	"BIT1" 64-bit SVC Dump regs on entry
		....		PRDLGPRF	"BIT2" 64-bit SLIP regs on entry
		....		PRDMGPRF	"BIT3" 64-bit SYSMDUMP regs at error
5	(5)	CHARACTER	1		RESERVED
6	(6)	CHARACTER	10	PRDERRID	ERRORID ASSOCIATED WITH DUMP
16	(10)	CHARACTER	44	PRDDSNAM	DSN TO WHICH DUMP WAS TAKEN
60	(3C)	CHARACTER	18	PRDXM (0)	CROSS MEMORY STATUS INFO WHEN SDUMP WAS INVOKED
60	(3C)	CHARACTER	4	PRDCML	ASCB ADDRESS OF CML ASID
64	(40)	CHARACTER	8	PRDXMPSW	PSW WHEN SDUMP WAS INVOKED
72	(48)	SIGNED	2	PRDPASID	PRIMARY ASID
74	(4A)	SIGNED	2	PRDSASID	SECONDARY ASID
76	(4C)	SIGNED	2	PRDHASID	HOME ASID
78	(4E)	SIGNED	2	PRDWASID	SDWA OWNERS ASID
80	(50)	SIGNED	4	PRDSADDR	ADDRESS WHERE SDWA EXISTED
84	(54)	SIGNED	4	PRDTTCH	POINTER TO TRACE TABLE CONTROL HDR
88	(58)	SIGNED	2	PRDSDPO	OFFSET OF SVC DUMP PARM LIST
90	(5A)	SIGNED	2	PRDSDPL	LENGTH OF SVC DUMP PARM LIST
92	(5C)	SIGNED	2	PRDSDOPO	OFFSET OF SDUMP OPTIONS LIST
94	(5E)	SIGNED	2	PRDSDOPL	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	CNTL REGS UPON ENTERING SDUMP
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

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

IHAPRD Cross Reference

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

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PRDSLIP	,
0	(0)	CHARACTER	8	PRDSLPSW	PSW WHEN SLIP WAS ENTERED
8	(8)	SIGNED	4	PRDSLPC3	CONTROL REG 3
12	(C)	SIGNED	4	PRDSLPC4	CONTROL REG 4
16	(10)	CHARACTER	64	PRDSLGPR	GPR'S WHEN SLIP WAS ENTERED
80	(50)	CHARACTER	64	PRDSLAR	ACCESS REGISTERS WHEN SLIP WAS ENTERED
144	(90)	CHARACTER	64	PRDSLCR	CONTROL REGISTERS WHEN SLIP WAS ENTERED
208	(D0)	CHARACTER	64	PRDSLG6H	High halves of GPRs when SLIP was entered
272	(110)	CHARACTER	128	PRDSLC64	ESAME CRs when SLIP WAS ENTERED

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	PRDSYSMD	,
0	(0)	CHARACTER	4	PRDSMABD	ABEND CODE FOR THE ERROR
4	(4)	CHARACTER	8	PRDSMPSW	PSW AT ENTRY TO ABEND
12	(C)	CHARACTER	8	PRDSMLMN	NAME OF ACTIVE LOAD MODULE AT TIME OF ERROR
20	(14)	SIGNED	4	PRDSMLMA	@ OF ACTIVE LOAD MODULE
24	(18)	SIGNED	4	PRDSMLMO	OFFSET INTO ACTIVE LOAD MODULE POINTED TO BY PSW
28	(1C)	CHARACTER	12	PRDSMPDA	DATA AT PSW @ (6+ 6-)
40	(28)	CHARACTER	64	PRDSMGPR	GPR'S AT TIME OF ERROR
104	(68)	CHARACTER	4	PRDSMRSN	REASON CODE FOR THE ERROR
108	(6C)	CHARACTER	64	PRDSMAR	AR'S AT TIME OF ERROR
172	(AC)	CHARACTER	64	PRDSMCR	CONTROL REGS AT TIME OF ERROR
236	(EC)	CHARACTER	64	PRDSMG6H	High halves of GPRs at time of error
300	(12C)	CHARACTER	128	PRDSMC64	ESAME CRs

Offsets Dec	Offsets 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
PRDAR	110		PRDG64H	1D8	
PRDCID	138		PRDHASID	4C	
PRDCML	3C		PRDHJOBN	2A0	
PRDCPU	10		PRDINPUT	0	
PRDCPUST	68		PRDINTKD	0	
PRDCR	C8		PRDINTKN	0	
PRDCSA	298		PRDINTKO	16A	
PRDCVT	0		PRDLGPRF	4	
PRDC64S	218		PRDME	4	
PRDDIDCO	64		PRDMGPRF	4	
PRDDSNAM	10		PRDMODNM	0	
PRDDSPB	7C		PRDOFSET	128	
PRDDSPE	84		PRDPASID	48	
PRDEPVT	29C		PRDPCPU@	16	
PRDERRID	6		PRDPMODL	14	
PRDFLG1	4		PRDPRODM	C8	
PRDFPCR	1D0		PRDPRODN	B4	
PRDFPR	150		PRDPRODR	C6	
PRDGPR	88		PRDPRODV	C4	

Name	Hex Offset	Hex Value
PRDPSERL	11	
PRDPSW	108	
PRDPVRSN	10	
PRDREGS	68	
PRDSADDR	50	
PRDSASID	4A	
PRDSDBLK	B0	
PRDSDFWD	124	
PRDSDMPL	12A	
PRDSDMPO	128	
PRDSDOPL	5E	
PRDSDOPO	5C	
PRDSDOPS	0	
PRDSDPL	5A	
PRDSDPM	0	
PRDSDPO	58	
PRDSDRSN	A0	
PRDSDSM	0	
PRDSDWA	0	
PRDSDWAL	136	
PRDSDWAO	134	
PRDSLAR	50	
PRDSLCR	90	
PRDSLC64	110	
PRDSLGPR	10	
PRDSLG6H	D0	
PRDSLIP	0	
PRDSLIPL	12E	
PRDSLIPO	12C	
PRDSLPC3	8	
PRDSLPC4	C	
PRDSLPSW	0	
PRDSMABD	0	
PRDSMAR	6C	
PRDSMCR	AC	
PRDSMC64	12C	
PRDSMGPR	28	
PRDSMG6H	EC	
PRDSMLMA	14	
PRDSMLMN	C	
PRDSMLMO	18	
PRDSMPDA	1C	
PRDSMPSW	4	
PRDSMRSN	68	
PRDSNAME	8C	
PRDSYSMD	0	
PRDSYSML	132	
PRDSYSMO	130	
PRDTCB	60	
PRDTITLE	18	
PRDTODVL	8	
PRDTTCH	54	
PRDVGPRF	4	
PRDWASID	4E	
PRDXM	3C	
PRDXMPSW	40	

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

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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		

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)	SIGNED	1	FLCESILC	FLCE 89x: SVC interruption length code
		.... .111		FLCESILCB	"X'07'" FLCE 89x: Significant bits in ILC. Last bit is always zero
138	(8A)	CHARACTER	2	FLCESICODE	FLCE 8Ax: SVC interruption code
140	(8C)	CHARACTER	4	FLCEPDATA	FLCE 8Cx: Additional Program interruption data
140	(8C)	CHARACTER	2	FLCEPDATABYTE0	FLCE 8Cx:
140	(8C)	CHARACTER	1		FLCE 8Cx: Reserved
141	(8D)	SIGNED	1	FLCEPILC	FLCE 8Dx: Program interruption length code
		.... .111		FLCEPILCB	"X'07'" FLCE 8Dx: Significant bits in ILC. Last bit is always zero
142	(8E)	CHARACTER	2	FLCEPICODE	FLCE 8Ex: Program interruption code
142	(8E)	SIGNED	1	FLCEPICODE0	FLCE 8Ex: Exception extension code
143	(8F)	SIGNED	1	FLCEPICODE1	FLCE 8Fx: 8-bit interruption code
		1...		FLCEPIPER	"X'80'" FLCE 8Fx: PER interruption code
		.1..		FLCEPIMC	"X'40'" FLCE 8Fx: Monitor Call interruption code
		..11 1111		FLCEPIPC	"X'3F'" FLCE 8Fx: An unsolicited program interruption has occurred if any of these bits are on

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
144	(90)	CHARACTER	4	FLCEPIINFORMATION	FLCE 90x:
144	(90)	CHARACTER	3		
147	(93)	SIGNED	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
		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
151	(97)	BITSTRING	1	FLCEPERATMID	FLCE 97x: PER addressing and translation mode ID
		1...		FLCEPERPSW4	"X'80'" FLCE 97x: PER PSW bit 4
		.1..		FLCEPERATMIDVALID	"X'40'" FLCE 97x: When 1, the ATMID bits are valid
		..1.		FLCEPERPSW32	"X'20'" FLCE 97x: PER PSW bit 32
		...1		FLCEPERPSW5	"X'10'" FLCE 97x: PER PSW bit 5
		.... 1...		FLCEPERPSW16	"X'08'" FLCE 97x: PER PSW bit 16
		.... .1..		FLCEPERPSW17	"X'04'" FLCE 97x: PER PSW bit 17
		11		FLCEPERASCEID	"X'03'" FLCE 97x: PER ASCE identification. If a storage alteration event when DAT is on, identifies the ASCE used: '00' - primary ASCE '01' - AR-specified AR. '10' - secondary ASCE '11' - home ASCE
152	(98)	CHARACTER	8	FLCEPER	FLCE 98x: PER address
152	(98)	CHARACTER	4	FLCEPERW0	FLCE 98x: PER address word 0
156	(9C)	ADDRESS	4	FLCEPERW1	FLCE 9Cx: PER address word 1
160	(A0)	SIGNED	1	FLCEEAID	FLCE A0x: Exception access ID (The AR number involved in the translation exception when bits 30-31 of the TEA='01'
161	(A1)	SIGNED	1	FLCEPERAID	FLCE A1x: PER access ID (the access register number involved in the PER storage alteration event)
162	(A2)	SIGNED	1	FLCEOPACID	FLCE A2x:
163	(A3)	CHARACTER	1	FLCEAMDID	FLCE A3x: Architecture mode ID (See FLCARCH in IHAPSA)
		1		FLCELOEME	"X'01'" Logout is Z/Architecture
164	(A4)	ADDRESS	4	FLCEMPL	FLCE A4x: MPL address
168	(A8)	CHARACTER	8	FLCETEID	FLCE A8x: Translation exception identification
168	(A8)	CHARACTER	8	FLCETEA	FLCE A8x: Translation exception address
168	(A8)	CHARACTER	7		
175	(AF)	BITSTRING	1	FLCETEA7	FLCE AFx: Byte 7 of FlceTEA
		.... 1...		FLCEPEALC	"X'08'" FLCE AFx: Protection exception due to access-list control
		.... .1..		FLCESOPI	"X'04'" FLCE AFx: Suppress on protection indication
		11		FLCETEASTD	"X'03'" FLCE AFx: Segment table designation for TEA: '00' - primary STD '01' - STD was AR-qualified '10' - secondary STD '11' - home STD
168	(A8)	CHARACTER	8	FLCETEASNINFO	FLCE A8x: ASN Info
168	(A8)	CHARACTER	6		
174	(AE)	SIGNED	2	FLCETEASN	FLCE AEx: ASN
168	(A8)	CHARACTER	8	FLCETEPCINFO	FLCE A8x: PC Info
168	(A8)	CHARACTER	4		
172	(AC)	SIGNED	4	FLCEPCNUM	FLCE ACx: PC#. Bits 0-10 are 0, bit 11 is 1, and the PC# is in bits 12-31
176	(B0)	CHARACTER	8	FLCEMONITORCODE	FLCE B0x: Monitor Code
184	(B8)	CHARACTER	4	FLCESSID	FLCE B8x: Subsystem ID word
188	(BC)	CHARACTER	4	FLCEIOINTPARM	FLCE BCx: I/O interruption parameter
192	(C0)	CHARACTER	4	FLCEIOINTID	FLCE C0x: I/O interruption ID
196	(C4)	CHARACTER	4	FLCER0C4	FLCE C4x: Reserved
200	(C8)	CHARACTER	4	FLCEFACILITIESLIST	FLCE C8x: Facilities list stored by STFL
200	(C8)	BITSTRING	1	FLCEFACILITIESLISTBYTE0	FLCE C8x

IHAPSAE Cross Reference

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		1...		FLCEZARCHN3	"X'80'" Instructions marked "N3" in the instruction summary are available on the CPU in ESA/390 mode
		1...		FLCEESAMEN3	"X'80'" Instructions marked "N3" in the instruction summary are available on the CPU in ESA/390 mode
		.1..		FLCEZARCHINSTALLED	"X'40'" The z/Architecture mode is installed on the CPU
		.1..		FLCEESAMEINSTALLED	"X'40'" The z/Architecture mode is installed on the CPU
		..1.		FLCEZARCH	"X'20'" The z/Architecture mode is active on the CPU
		..1.		FLCEESAME	"X'20'" The z/Architecture mode is active on the CPU
201	(C9)	BITSTRING	1	FLCEFACILITIESLISTBYTE1	FLCE C9x
202	(CA)	BITSTRING	1	FLCEFACILITIESLISTBYTE2	FLCE CAx
203	(CB)	BITSTRING	1	FLCEFACILITIESLISTBYTE3	FLCE CBx
204	(CC)	CHARACTER	8	FLCER0CC	FLCE CCx: Reserved
212	(D4)	CHARACTER	4	FLCER0D4	FLCE D4x: Reserved
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)	CHARACTER	32	FLCER100	FLCE 100x: Reserved
288	(120)	CHARACTER	16	FLCEROPSW	FLCE 120x: Restart old PSW
304	(130)	CHARACTER	16	FLCEEOPSW	FLCE 130x: External old PSW
320	(140)	CHARACTER	16	FLCESOPSW	FLCE 140x: SVC old PSW
336	(150)	CHARACTER	16	FLCEPOPSW	FLCE 150x: Program old PSW
352	(160)	CHARACTER	16	FLCEMOPSW	FLCE 160x: Machine check old PSW
368	(170)	CHARACTER	16	FLCEIOPSW	FLCE 170x: I/O old PSW
384	(180)	CHARACTER	32	FLCER180	FLCE 180x: reserved
416	(1A0)	CHARACTER	16	FLCERNPSW	FLCE 1A0x: Restart new PSW
432	(1B0)	CHARACTER	16	FLCEENPSW	FLCE 1B0x: External new PSW
448	(1C0)	CHARACTER	16	FLCESNPSW	FLCE 1C0x: SVC new PSW
464	(1D0)	CHARACTER	16	FLCEPNPSW	FLCE 1D0x: Program new PSW
480	(1E0)	CHARACTER	16	FLCEMNPSW	FLCE 1E0x: Machine check new PSW
496	(1F0)	CHARACTER	16	FLCEINPSW	FLCE 1F0x: I/O new PSW
496	(1F0)	X'200'	0	FLCESAME_LEN	"*-FLCESAME"

IHAPSAE Cross Reference

Name	Hex Offset	Hex Value
FLCEAMDID	A3	
FLCECPUAD	84	
FLCEDXC	93	
FLCEEAID	A0	
FLCEEDCODE	F4	
FLCEEICODE	86	
FLCEENPSW	1B0	
FLCEEOPSW	130	
FLCEEPARM	80	
FLCEESAME	C8	20
FLCEESAMEINSTALLED	C8	40
FLCEESAMEN3	C8	80
FLCEFACILITIESLIST	C8	
FLCEFACILITIESLISTBYTE0	C8	
FLCEFACILITIESLISTBYTE1	C9	
FLCEFACILITIESLISTBYTE2	CA	
FLCEFACILITIESLISTBYTE3	CB	
FLCEFSA	F8	
FLCEICCW1	8	
FLCEICCW2	10	
FLCEINPSW	1F0	
FLCEIOINTID	C0	
FLCEIOINTPARM	BC	
FLCEIOPSW	170	
FLCEIPPSW	0	
FLCELOEME	A3	1
FLCEMCIC	E8	
FLCEMCICE	F0	
FLCEMCNUM	94	
FLCEMNPSW	1E0	
FLCEMONITORCODE	B0	
FLCEMOPSW	160	
FLCEMPL	A4	
FLCEOPACID	A2	

Name	Hex Offset	Hex Value
FLCEPCNUM	AC	
FLCEPDATA	8C	
FLCEPDATABYTE0	8C	
FLCEPEALC	AF	8
FLCEPER	98	
FLCEPERAID	A1	
FLCEPERASCEID	97	3
FLCEPERATMID	97	
FLCEPERATMIDVALID	97	40
FLCEPERCODE	96	
FLCEPERCODE0	96	
FLCEPERIF	96	40
FLCEPERPSW16	97	8
FLCEPERPSW17	97	4
FLCEPERPSW32	97	20
FLCEPERPSW4	97	80
FLCEPERPSW5	97	10
FLCEPERSA	96	20
FLCEPERSAR	96	8
FLCEPERSB	96	80
FLCEPERW0	98	
FLCEPERW1	9C	
FLCEPICODE	8E	
FLCEPICODE0	8E	
FLCEPICODE1	8F	
FLCEPIINFORMATION	90	
FLCEPILC	8D	
FLCEPILCB	8D	7
FLCEPIMC	8F	40
FLCEPIPC	8F	3F
FLCEPIPER	8F	80
FLCEPNPSW	1D0	
FLCEPOPSW	150	
FLCERNPSW	1A0	
FLCEROPSW	120	
FLCER0CC	CC	
FLCER0C4	C4	
FLCER0D4	D4	
FLCER0D8	D8	
FLCER018	18	
FLCER100	100	
FLCER180	180	
FLCESAME	0	
FLCESAME_LEN	1F0	200
FLCESDATA	88	
FLCESDATABYTE0	88	
FLCESICODE	8A	
FLCESILC	89	
FLCESILCB	89	7
FLCESNPSW	1C0	
FLCESOPI	AF	4
FLCESOPSW	140	
FLCESSID	B8	
FLCETEA	A8	
FLCETEASN	AE	
FLCETEASNINFO	A8	
FLCETEASTD	AF	3
FLCETEA7	AF	
FLCETEID	A8	
FLCETEPCINFO	A8	
FLCEZARCH	C8	20
FLCEZARCHINSTALLED	C8	40
FLCEZARCHN3	C8	80

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	448	FLCXR000	FLCX 0x: reserved
448	(1C0)	CHARACTER	64	FLCXR1C0	FLCX 1C0x: reserved for programming
512	(200)	CHARACTER	512	FLCXMCSA	FLCX 200x: machine check or Store Status save area
512	(200)	CHARACTER	128	FLCXMCSAFPRS	FLCX 200x: FPRs
512	(200)	CHARACTER	8	FLCXMCSAFPR (0 15)	FLCX 200x: FPRs 0-15
640	(280)	CHARACTER	128	FLCXMCSAGPRS	FLCX 280x: GPRs
640	(280)	CHARACTER	8	FLCXMCSAGPR (0 15)	FLCX 280x: GPRs 0-15
768	(300)	CHARACTER	16	FLCXMCSAFLA	FLCX 300x: Fixed logout
768	(300)	CHARACTER	16	FLCXMCSAPSW	FLCX 300x: Store Status PSW
784	(310)	CHARACTER	8	FLCXR310	FLCX 310x: unused
792	(318)	ADDRESS	4	FLCXMCSAPREFIX	FLCX 318x: Store Status prefix
796	(31C)	CHARACTER	4	FLCXMCSAFPC	FLCX 31Cx: floating point control reg
800	(320)	CHARACTER	4	FLCXR320	FLCX 320x: unused
804	(324)	CHARACTER	4	FLCXMCSATODPR	FLCX 324x: TOD programmable reg
808	(328)	CHARACTER	8	FLCXMCSACPUTIMER	FLCX 328x: CPU timer
816	(330)	CHARACTER	1	FLCXR330	FLCX 330x: unused
817	(331)	CHARACTER	7	FLCXMCSACLOCKCOMPARATOR	FLCX 331X: Clock comparator bits 0-55
824	(338)	CHARACTER	8	FLCXR338	FLCX 338x: reserved
832	(340)	CHARACTER	64	FLCXMCSAARS	FLCX 340x: ARs
832	(340)	CHARACTER	4	FLCXMCSAAR (0 15)	FLCX 340x: ARs 0-15
896	(380)	CHARACTER	128	FLCXMCSACRS	FLCX 380x: CRs
896	(380)	CHARACTER	8	FLCXMCSACR (0 15)	FLCX 380x: CRs 0-15
1024	(400)	CHARACTER	2048	PSAX0400	PSAX 400X:
3072	(C00)	CHARACTER	512	PSAX0C00	PSAX C00X:
3584	(E00)	CHARACTER	128	PSAX0E00	PSAX E00X:
3584	(E00)	CHARACTER	64	PSAXDATLK	PSAX E00X: Area for 64-bit dat-off assist linkage code

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Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
3648	(E40)	ADDRESS	4	PSAXDATOF	PSAX E40x: Real storage address of the 64-bit dat-off linkage table which is initialized by NIP for 64-bit dat-on/dat-off linkage
3652	(E44)	SIGNED	4	PSAXDATLN	PSAX E44x: Length of the 64-bit dat-off linkage table
3656	(E48)	CHARACTER	56	PSAXRE48	PSAX E48x: reserved
3712	(E80)	CHARACTER	128	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.
3840	(F00)	CHARACTER	256	PSAXRF00	PSAX F00x: 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	
FLCXR1C0	1C0	
FLCXR310	310	
FLCXR320	320	
FLCXR330	330	
FLCXR338	338	
PSAXDATLK	E00	
PSAXDATLN	E44	
PSAXDATOF	E40	
PSAXFLCX	0	
PSAXRE48	E48	
PSAXRF00	F00	
PSAXSLSA	E80	
PSAX0C00	C00	
PSAX0E00	E00	
PSAX0400	400	
THEPSAX	0	

IHAPWVT Heading Information

Common Name: Processor Work Unit Queue Vector Table
Macro ID: IHAPWVT
DSECT Name: PWVT
Owning Component: Supervisor Control (SC1C5)
Eye-Catcher ID: PWVT
Offset: 0
Length: 4
Storage Attributes: Subpool: 239 (Fixed, ESQA)
Key: 0
Residency: Above 16M line
Size: 72 bytes
Created by: IEAVINIT
Pointed to by: ECVTPWVT field of the ECVT data area
Serialization: Enqueue on the SYSZVARY.CPU resource.
Function: Locates Processor WUQs (PWUQs)

IHAPWVT 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.

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IHARBUP Programming Interface information

Programming Interface information

IHARBUP

End of Programming Interface information

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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: Iearbup request successful.
		.... 1...		IEARBUPRC_INVPARM	"X'00000008'" Meaning: Iearbup request specifies invalid parameters. Action: Refer to the action provided with the specific reason code.
0	(0)	BITSTRING	0	IEARBUPRSNBADVERSION	"X'00000801'" Meaning: The version field in the parameter list is not valid. Action: Check for possible storage overlay.
0	(0)	BITSTRING	0	IEARBUPRSNBADAMODEFIELD	"X'00000802'" Meaning: The amode field in the parameter list is not valid. Action: Check for possible storage overlay.
0	(0)	BITSTRING	0	IEARBUPRSNBADADDRESS	"X'00000803'" Meaning: The address provided is not valid. Action: Only provide an instruction address that is less than X'80000000'.
0	(0)	BITSTRING	0	IEARBUPRSNBADFUNCTION	"X'00000804'" Meaning: The function field in the parameter list is not valid. Action: Check for possible storage overlay.
		.... 11..		IEARBUPRC_ENV	"X'0000000C'" Meaning: Environmental error Action: Refer to the action provided with the specific reason code.
0	(0)	BITSTRING	0	IEARBUPRSNPREVRBNOTFOUND	"X'00000C01'" Meaning: RB=PREV was requested, but there is only one RB for the current task. Action: Use RB=CURRENT when there is only one RB.
0	(0)	BITSTRING	0	IEARBUPRSNBADAMODE	"X'00000C02'" Meaning: AMODE=64 was specified but the architecture level is not ESAME. Action: Only request AMODE=64 when the architecture level is ESAME.

IHARBUP Cross Reference

Name	Hex Offset	Hex Value
IEARBUPRC_ENV		
	0	C
IEARBUPRC_INVPARM		
	0	8
IEARBUPRC_OK	0	0
IEARBUPRSNBADADDRESS		
	0	803
IEARBUPRSNBADAMODE		
	0	C02
IEARBUPRSNBADAMODEFIELD		
	0	802
IEARBUPRSNBADFUNCTION		
	0	804
IEARBUPRSNBADVERSION		
	0	801
IEARBUPRSNPREVRBNOTFOUND		
	0	C01

IHASAVER Programming Interface information

Programming Interface information

IHASAVER

End of Programming Interface information

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IHASAVER Heading Information

Common Name: General Purpose Registers Save Area
Macro ID: IHASAVER
DSECT Name: SAVER SAVF4SA SAVF5SA
Owning Component: Supervisor Control (SC1C5)
Eye-Catcher ID: None
Storage Attributes: Subpool: Caller-supplied
Key: Caller-supplied
Residency: Caller-supplied
Size: SAVER -- X'0048' bytes
SAVF4SA -- X'0090' bytes
SAVF5SA -- X'00D0' bytes
Created by: Caller
Pointed to by: R13 on input to a 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	

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
					REGISTER 3
56	(38)	CHARACTER	8	SAVF4SAG64RS4	
					REGISTER 4
64	(40)	CHARACTER	8	SAVF4SAG64RS5	
					REGISTER 5
72	(48)	CHARACTER	8	SAVF4SAG64RS6	
					REGISTER 6
80	(50)	CHARACTER	8	SAVF4SAG64RS7	
					REGISTER 7
88	(58)	CHARACTER	8	SAVF4SAG64RS8	
					REGISTER 8
96	(60)	CHARACTER	8	SAVF4SAG64RS9	
					REGISTER 9
104	(68)	CHARACTER	8	SAVF4SAG64RS10	
					REGISTER 10
112	(70)	CHARACTER	8	SAVF4SAG64RS11	
					REGISTER 11
120	(78)	CHARACTER	8	SAVF4SAG64RS12	
					REGISTER 12
128	(80)	CHARACTER	8	SAVF4SAPREV	ADDR OF PREVIOUS SAVEAREA
136	(88)	CHARACTER	8	SAVF4SANEXT	ADDR OF NEXT SAVE AREA
136	(88)	X'F4E2C1'	0	SAVF4SAID_VALUE	
					"C'F4SA'"
136	(88)	X'90'	0	SAVF4SA_LEN	"*-SAVF4SA"

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	'F5SA'
8	(8)	CHARACTER	8	SAVF5SAG64RS14	
					REGISTER 14
16	(10)	CHARACTER	8	SAVF5SAG64RS15	
					REGISTER 15
24	(18)	CHARACTER	8	SAVF5SAG64RS0	
					REGISTER 0
32	(20)	CHARACTER	8	SAVF5SAG64RS1	
					REGISTER 1
40	(28)	CHARACTER	8	SAVF5SAG64RS2	
					REGISTER 2
48	(30)	CHARACTER	8	SAVF5SAG64RS3	
					REGISTER 3
56	(38)	CHARACTER	8	SAVF5SAG64RS4	
					REGISTER 4
64	(40)	CHARACTER	8	SAVF5SAG64RS5	
					REGISTER 5
72	(48)	CHARACTER	8	SAVF5SAG64RS6	
					REGISTER 6
80	(50)	CHARACTER	8	SAVF5SAG64RS7	
					REGISTER 7
88	(58)	CHARACTER	8	SAVF5SAG64RS8	
					REGISTER 8
96	(60)	CHARACTER	8	SAVF5SAG64RS9	
					REGISTER 9
104	(68)	CHARACTER	8	SAVF5SAG64RS10	
					REGISTER 10
112	(70)	CHARACTER	8	SAVF5SAG64RS11	
					REGISTER 11
120	(78)	CHARACTER	8	SAVF5SAG64RS12	
					REGISTER 12
128	(80)	CHARACTER	8	SAVF5SAPREV	ADDR OF PREVIOUS SAVEAREA
136	(88)	CHARACTER	8	SAVF5SANEXT	ADDR OF NEXT SAVE AREA

IHASAVER Cross Reference

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
144	(90)	ADDRESS	4	SAVF5SAG64HS0	High half of caller's R0
148	(94)	ADDRESS	4	SAVF5SAG64HS1	High half of caller's R1
152	(98)	ADDRESS	4	SAVF5SAG64HS2	High half of caller's R2
156	(9C)	ADDRESS	4	SAVF5SAG64HS3	High half of caller's R3
160	(A0)	ADDRESS	4	SAVF5SAG64HS4	High half of caller's R4
164	(A4)	ADDRESS	4	SAVF5SAG64HS5	High half of caller's R5
168	(A8)	ADDRESS	4	SAVF5SAG64HS6	High half of caller's R6
172	(AC)	ADDRESS	4	SAVF5SAG64HS7	High half of caller's R7
176	(B0)	ADDRESS	4	SAVF5SAG64HS8	High half of caller's R8
180	(B4)	ADDRESS	4	SAVF5SAG64HS9	High half of caller's R9
184	(B8)	ADDRESS	4	SAVF5SAG64HS10	High half of caller's R10
188	(BC)	ADDRESS	4	SAVF5SAG64HS11	High half of caller's R11
192	(C0)	ADDRESS	4	SAVF5SAG64HS12	High half of caller's R12
196	(C4)	ADDRESS	4	SAVF5SAG64HS13	High half of caller's R13
200	(C8)	ADDRESS	4	SAVF5SAG64HS14	High half of caller's R14
204	(CC)	ADDRESS	4	SAVF5SAG64HS15	High half of caller's R15
204	(CC)	X'F5E2C1'	0	SAVF5SAID_VALUE	"C'F5SA'"
204	(CC)	X'D0'	0	SAVF5SA_LEN	"*-SAVF5SA"

IHASAVER Cross Reference

Name	Hex Offset	Hex Value
SAVER	0	
SAVER_LEN	44	48
SAVF4SA	0	
SAVF4SA_LEN	88	90
SAVF4SAG64RS0	18	
SAVF4SAG64RS1	20	
SAVF4SAG64RS10	68	
SAVF4SAG64RS11	70	
SAVF4SAG64RS12	78	
SAVF4SAG64RS14	8	
SAVF4SAG64RS15	10	
SAVF4SAG64RS2	28	
SAVF4SAG64RS3	30	
SAVF4SAG64RS4	38	
SAVF4SAG64RS5	40	
SAVF4SAG64RS6	48	
SAVF4SAG64RS7	50	
SAVF4SAG64RS8	58	
SAVF4SAG64RS9	60	
SAVF4SAID	4	
SAVF4SAID_VALUE	88	F4E2C1
SAVF4SALANG	0	
SAVF4SANEXT	88	
SAVF4SAPREV	80	
SAVF5SA	0	
SAVF5SA_LEN	CC	D0
SAVF5SAG64HS0	90	
SAVF5SAG64HS1	94	
SAVF5SAG64HS10	B8	

Name	Hex Offset	Hex Value
SAVF5SAG64HS11	BC	
SAVF5SAG64HS12	C0	
SAVF5SAG64HS13	C4	
SAVF5SAG64HS14	C8	
SAVF5SAG64HS15	CC	
SAVF5SAG64HS2	98	
SAVF5SAG64HS3	9C	
SAVF5SAG64HS4	A0	
SAVF5SAG64HS5	A4	
SAVF5SAG64HS6	A8	
SAVF5SAG64HS7	AC	
SAVF5SAG64HS8	B0	
SAVF5SAG64HS9	B4	
SAVF5SAG64RS0	18	
SAVF5SAG64RS1	20	
SAVF5SAG64RS10	68	
SAVF5SAG64RS11	70	
SAVF5SAG64RS12	78	
SAVF5SAG64RS14	8	
SAVF5SAG64RS15	10	
SAVF5SAG64RS2	28	
SAVF5SAG64RS3	30	
SAVF5SAG64RS4	38	
SAVF5SAG64RS5	40	
SAVF5SAG64RS6	48	
SAVF5SAG64RS7	50	
SAVF5SAG64RS8	58	
SAVF5SAG64RS9	60	
SAVF5SAID	4	
SAVF5SAID_VALUE	CC	F5E2C1
SAVF5SALANG	0	
SAVF5SANEXT	88	
SAVF5SAPREV	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	

IHASDEXI Programming Interface information

Programming Interface information

IHASDEXI

End of Programming Interface information

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IHASDEXI Heading Information

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

SDEXIALST

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

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. Any P, Any S, H=DUMPSRV. 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.

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
52	(34)	ADDRESS	4	SDEXIWKAD	Address of work area. Set by SVC Dump. For use by exit. Length is in SdexiWKLN (AT LEAST 200 BYTES)
56	(38)	SIGNED	4	SDEXIWKLN	Length of work area pointed to by SdexiWKAD
60	(3C)	ADDRESS	4	SDEXIDRPA	Address of dump record prefix to be filled in by exit
		1...		SDEXIDRPS	"X'80'" If on, then the dump record prefix was filled in by the exit. This bit is set by the exit, and checked by SVC Dump. It is initially off
64	(40)	ADDRESS	4	SDEXIALP	Pointer to the ASID list - Set by SVC Dump. For use by exit.
68	(44)	CHARACTER	8	SDEXISDAO	SDATA OPTIONS
68	(44)	CHARACTER	2	SDEXISDTA	SDATA OPTION FLAGS
68	(44)	CHARACTER	1	SDEXISDT1	1ST BYTE OF OPTIONS
		1...		SDEXIAPSA	"X'80'" DUMP ALL PSA'S
		.1..		SDEXIPSA	"X'40'" DUMP CURRENT PSA
		..1.		SDEXINUC	"X'20'" DUMP THE NUCLEUS
		...1		SDEXISQA	"X'10'" DUMP SQA
		.... 1...		SDEXILSQA	"X'08'" DUMP LSQA
		.... .1..		SDEXIRGN	"X'04'" DUMP RGN-PRIVATE AREA
		.... ..1.		SDEXILPA	"X'02'" DUMP LPA MOD. FOR RGN
		1		SDEXITRT	"X'01'" DUMP TRACE DATA
69	(45)	CHARACTER	1	SDEXISDT2	SECOND BYTE SDATA FLGS
		1...		SDEXICSA	"X'80'" DUMP CSA
		.1..		SDEXISWA	"X'40'" DUMP SWA
		..1.		SDEXISMDM	"X'20'" DUMP SUMMARY DUMP DATA
		...1		SDEXINSMD	"X'10'" DON'T DUMP SUMMARY DUMP
		.... 1...		SDEXINAPS	"X'08'" DO NOT DUMP ALL PSA
		.... .1..		SDEXINASQ	"X'04'" DO NOT DUMP SQA
		.... ..1.		SDEXIANUC	"X'02'" DUMP ALL NUCLEUS
		1		SDEXIDEFS	"X'01'" DEFAULTS
70	(46)	CHARACTER	4	SDEXISDA2	EXTENDED SDATA OPTIONS
70	(46)	BITSTRING	1	SDEXIEXIT1	SDATA OPTIONS EXIT ROUTINES
		1...		SDEXIGRSQ	"X'80'" SDATA=GRSQ
		...1		SDEXICOUPLE	"X'10'" SDATA=COUPLE
		.... 1...		SDEXIXESDATA	"X'08'" SDATA=XESDATA
		.... ..1.		SDEXIWLMDATA	"X'02'" SDATA=WLMDATA
71	(47)	BITSTRING	1	SDEXIEXIT2	SDATA OPTIONS EXIT ROUTINES
		..1.		SDEXISERVERS	"X'20'" SDATA=SERVERS
72	(48)	BITSTRING	1	SDEXISDT3	SDATA OPTIONS
		1...		SDEXINDEF	"X'80'" NODEFAULTS
		.1..		SDEXIIO	"X'40'" DO I/O AREAS
73	(49)	BITSTRING	1	SDEXISDT4	SDATA OPTIONS
74	(4A)	CHARACTER	2		Reserved
76	(4C)	BITSTRING	1	SDEXIFLAGS	
		1...		SDEXIADDRESSRANGE	"X'80'" An address range has been provided, instead of placing the data into the provided buffer. The data must be in the current primary space or be addressable by an ALET that is currently on the DU-AL or the PASN AL. This may only be used if bit SdexiDRPS is off or (if it is on) if creating an address space or data space record. When SdexiDRPS is off, the storage range must represent the primary address space, with start address in SdexiCDAD and end address in SdexiRangeEnd. When SdexiDRPS is on for address space storage, the start address is in SdexiDrpxLAD, the end address in SdexiRangeEnd, and the ALET is in SdexiRangeALET. Use an ALET of 0 for the primary address space. When SdexiDRPS is on for data space storage, the start address is in SdexiDrpxLAD, the end address in SdexiRangeEnd, and the ALET is in SdexiRangeALET. In all cases, the start address will be rounded down to the nearest page boundary. The end address will be rounded up to the last byte of the page containing the input end address.
77	(4D)	CHARACTER	3		RESERVED
80	(50)	ADDRESS	4	SDEXIRANGEEND	The entire page containing this byte will be dumped.

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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		RESERVED
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	SDEXIDRPXID	Set by SDUMP. Exit should not change.
3	(3)	SIGNED	1	SDEXIDRPXLEN	Set by SDUMP. Exit should not change.
4	(4)	CHARACTER	16	SDEXIDRPXAS	ASCB information
4	(4)	CHARACTER	2	SDEXIDRPXAST	Address space type code. See Constants SdexiDrpxAST_xxx
6	(6)	SIGNED	2	SDEXIDRPXASH	
8	(8)	SIGNED	4	SDEXIDRPXAS1	
12	(C)	CHARACTER	8	SDEXIDRPXASC	Qualifier 2
12	(C)	SIGNED	4	SDEXIDRPXAS2	
16	(10)	SIGNED	4	SDEXIDRPXAS3	
20	(14)	ADDRESS	4	SDEXIDRPXLAD	Logical address. This should be on a page boundary.
24	(18)	SIGNED	4	SDEXIDRPXSEQ	Set by SDUMP. Exit should not change.
28	(1C)	CHARACTER	8		Set by SDUMP. Exit should not change.
36	(24)	CHARACTER	28	SDEXIDRPXTYPD	
					Record type specific data.
36	(24)	X'C3E5'	0	SDEXIDRPXAST_ADDRSPAC	
					"C'CV'" Address space
36	(24)	X'C4E2'	0	SDEXIDRPXAST_DATASPAC	
					"C'DS'" Data space
36	(24)	X'E2C3'	0	SDEXIDRPXAST_COMPDATA	
					"C'SC'" Component data
36	(24)	X'40'	0	SDEXIDRPX_LEN	
					"*-SDEXIDRPX"
36	(24)	BITSTRING	1	SDEXIDRPXTYPD_CV (0)	
36	(24)	BITSTRING	1	SDEXIDRPXTYPD_CV_KEY	
					Key should be in bits 0-3 of the field, not bits 4-7
36	(24)	X'1'	0	SDEXIDRPXTYPD_CV_LEN	
					"*-SDEXIDRPXTYPD_CV"
36	(24)	BITSTRING	1	SDEXIDRPXTYPD_DS (0)	
36	(24)	BITSTRING	1	SDEXIDRPXTYPD_DS_KEY	
					Key should be in bits 0-3 of the field, not bits 4-7
37	(25)	CHARACTER	5		Reserved
42	(2A)	CHARACTER	2		Reserved
44	(2C)	ADDRESS	4	SDEXIDRPXTYPD_DS_ASTE	
					Set by SDUMP. Exit should not change.

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
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
		1...		SDEXIDRPXTYPD_SC_COMM	"X'80'" Storage is in common
		.1..		SDEXIDRPXTYPD_SC_AAFLAG	"X'40'" Absolute address supplied in SdexiDrpxTypd_SC_AAPtr
43	(2B)	CHARACTER	1		Reserved
44	(2C)	ADDRESS	4	SDEXIDRPXTYPD_SC_AAPTR	Absolute address
44	(2C)	X'C'	0	SDEXIDRPXTYPD_SC_LEN	"*-SDEXIDRPXTYPD_SC"

IHASDEXI Cross Reference

Name	Hex Offset	Hex Value
SDEXI	0	
SDEXI_LEN	60	68
SDEXIADDRESSRANGE	4C	80
SDEXIALP	40	
SDEXIALST	0	
SDEXIALST_ARRAY	2	
SDEXIALST_ENTRY	2	
SDEXIALST_LEN	2	4
SDEXIALST#	0	
SDEXIANUC	45	2
SDEXIAPSA	44	80
SDEXIASID	1A	
SDEXIBFAD	C	
SDEXIBFLN	10	
SDEXICDAD	20	
SDEXICOUPLE	46	10
SDEXICSA	45	80
SDEXIDEFS	45	1
SDEXIDRPA	3C	
SDEXIDRPS	3C	80
SDEXIDRPX	0	
SDEXIDRPX_LEN	24	40
SDEXIDRPXAS	4	
SDEXIDRPXASC	C	
SDEXIDRPXASH	6	
SDEXIDRPXAST	4	
SDEXIDRPXAST_ADDRSPAC	24	C3E5
SDEXIDRPXAST_COMPDATA	24	E2C3
SDEXIDRPXAST_DATASPAC	24	C4E2
SDEXIDRPXAS1	8	
SDEXIDRPXAS2	C	
SDEXIDRPXAS3	10	
SDEXIDRPXID	0	
SDEXIDRPXLAD	14	
SDEXIDRPXLEN	3	
SDEXIDRPXSEQ	18	
SDEXIDRPXTYPD	24	
SDEXIDRPXTYPD_CV	24	
SDEXIDRPXTYPD_CV_KEY	24	
SDEXIDRPXTYPD_CV_LEN	24	1
SDEXIDRPXTYPD_DS	24	
SDEXIDRPXTYPD_DS_ASTE	2C	
SDEXIDRPXTYPD_DS_KEY	24	
SDEXIDRPXTYPD_DS_LEN	30	14
SDEXIDRPXTYPD_DS_STOKEN	30	
SDEXIDRPXTYPD_SC	24	
SDEXIDRPXTYPD_SC_AAFLAG	2A	40
SDEXIDRPXTYPD_SC_AAPTR	2C	
SDEXIDRPXTYPD_SC_COMM	2A	80
SDEXIDRPXTYPD_SC_KEY	24	
SDEXIDRPXTYPD_SC_LEN	2C	C
SDEXIDRPXTYPD_SC_STYP	2A	
SDEXIEXIT1	46	
SDEXIEXIT2	47	

IHASDEXI Cross Reference

Name	Hex Offset	Hex Value
SDEXIFKEY	18	
SDEXIFLAGS	4C	
SDEXIGRSQ	46	80
SDEXIINTOKEN@	5C	
SDEXIIO	48	40
SDEXIKEYS	18	
SDEXILPA	44	2
SDEXILSQA	44	8
SDEXIMAXA	2	40
SDEXINAPS	45	8
SDEXINASQ	45	4
SDEXINDEF	48	80
SDEXINSMD	45	10
SDEXINUC	44	20
SDEXIORAD	14	
SDEXIPROBDESC@	58	
SDEXIPSA	44	40
SDEXIRANGEALET	54	
SDEXIRANGEEND	50	
SDEXIRGN	44	4
SDEXISDAO	44	
SDEXISDA2	46	
SDEXISDTA	44	
SDEXISDT1	44	
SDEXISDT2	45	
SDEXISDT3	48	
SDEXISDT4	49	
SDEXISERVERS	47	20
SDEXISKEY	19	
SDEXISMDM	45	20
SDEXISQA	44	10
SDEXISVAD	2C	
SDEXISWA	45	40
SDEXITRT	44	1
SDEXIWKAD	34	
SDEXIWKLN	38	
SDEXIWLMDATA	46	2
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IHASDMSE Programming Interface information

Programming Interface information

IHASDMSE

End of Programming Interface information

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IHASDMSE Heading Information

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

SDMSE_MODEL

SDMSE_ASIDLST

SDMSE_STORAGE

SDMSE_STORAGE64

SDMSE_JOBLIST

SDMSE_DSPLIST

SDMSE_SUBPLST

SDMSE_KEYLIST

Owning Component: SDUMP (SCDMP)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: 252
Key: 0
Residency: Above 16M
Size: SDMSE -- X'0060' bytes
SDMSE_MODEL -- X'0008' bytes
SDMSE_ASIDLST -- X'0006' bytes
+ X'0002' bytes for each entry
after the first
SDMSE_STORAGE -- X'0014' bytes
+ X'0010' bytes for each entry
after the first
SDMSE_STORAGE64 -- X'001C' bytes
+ X'0018' bytes for each entry
after the first
SDMSE_JOBLIST -- X'000C' bytes
+ X'0010' bytes for each entry
after the first
SDMSE_DSPLIST -- X'0014' bytes
+ X'0018' bytes for each entry
after the first
SDMSE_SUBPLST -- X'0008' bytes
+ X'0004' bytes for each entry
after the first
SDMSE_KEYLIST -- X'0005' bytes
+ X'0001' bytes for each entry
after the first
Created by: Created by SDUMP and passed via R1 to multisystem Sdump exit
Pointed to by: R1 on entry to multisystem SDUMP exit
Serialization: None required

Function: Maps the parameter information passed to the multisystem Sdump exit.

IHASDMSE 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	SDMSE	
0	(0)	SIGNED	1	SDMSE_VERSION	
					Initial version is 0. This can be used by the exit to tell just how the parameter area is mapped.
1	(1)	CHARACTER	3		Unused
4	(4)	ADDRESS	4	SDMSE_INPUT_PROBDESC_ADDR	
					Address of problem description information provided via PROBDESC keyword when the SDUMP was initiated on a remote system. If this pointer is 0, no such information was provided. Otherwise, the area is in the format described for that keyword.
8	(8)	ADDRESS	4	SDMSE_INPUT_WORKAREA_ADDR	
					Address of 4096-byte workarea that the exit can use to build information for use by SDUMP. This field is an input value for the exit.
12	(C)	ADDRESS	4	SDMSE_OUTPUT_WORKAREA_ADDR	
					Address of workarea that the exit provided via GETMAIN or STORAGE OBTAIN when the input workarea was not large enough. This field is to be set by the exit when storage is so obtained. SDUMP will FREEMAIN this storage. The length and subpool and key must also be provided.
16	(10)	ADDRESS	4	SDMSE_OUTPUT_WORKAREA_LENGTH	
					Length of workarea pointed to by the output workarea. SDUMP will FREEMAIN this area. This field is to be set by the exit when storage is so obtained.
20	(14)	SIGNED	1	SDMSE_OUTPUT_WORKAREA_SUBPOOL	
					Subpool of output workarea. This field is to be set by the exit when storage is so obtained.
21	(15)	SIGNED	1	SDMSE_OUTPUT_WORKAREA_KEY	
					Key of output workarea (must be in range 0-X'F0'). This field is to be set by the exit when storage is so obtained.
22	(16)	CHARACTER	2		Reserved
24	(18)	ADDRESS	4	SDMSE_OUTPUT_ASIDLST_ADDR	
					This field should be set if the exit has indicated ASID(s) to be incorporated in the dump. The area pointed to by this field is mapped by DSECT SDMSE_ASIDLST
28	(1C)	ADDRESS	4	SDMSE_OUTPUT_STORAGE_ADDR	
					This field should be set if the exit has indicated Storage Ranges to be incorporated in the dump. The area pointed to by this field is mapped by DSECT SDMSE_STORAGE or DSECT Sdmse_Storage64
32	(20)	ADDRESS	4	SDMSE_OUTPUT_JOBLIST_ADDR	
					This field should be set if the exit has indicated a list of jobnames to be incorporated in the dump. The area pointed to by this field is mapped by DSECT SDMSE_JOBLIST
36	(24)	ADDRESS	4	SDMSE_OUTPUT_DSPLIST_ADDR	
					This field should be set if the exit has indicated a list of data space names by which data spaces are to be incorporated in the dump. The area pointed to by this field is mapped by DSECT SDMSE_DSPLIST
40	(28)	ADDRESS	4	SDMSE_OUTPUT_SUBPLST_ADDR	

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					This field should be set if the exit has indicated a list of subpools to be incorporated in the dump. The area pointed to by this field is mapped by DSECT SDMSE_SUBPLST
44	(2C)	ADDRESS	4	SDMSE_OUTPUT_KEYLIST_ADDR	
					This field should be set if the exit has indicated a list of keys to be incorporated in the dump. This is ignored unless SDMSE_SUBPLST_ADDR is also specified. The area pointed to by this field is mapped by DSECT SDMSE_KEYLIST
48	(30)	CHARACTER	8		Reserved
56	(38)	CHARACTER	8	SDMSE_SDATA_OPTIONS	
					These are mapped in the same order as they appear in the SDUMP parameter list. The desired subfields should be set if the exit has indicated SDATA options for the dump.
56	(38)	BITSTRING	1	SDMSE_SDATA_BYTE0	
					This field should be set if the exit has indicated SDATA options for the dump.
		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_BYTE1	
					This field should be set if the exit has indicated SDATA options for the dump.
		1...		SDMSE_SDATA_CSA	
					"X'80'" Corresponds to SDUMPX SDATA option CSA
		.1..		SDMSE_SDATA_SWA	
					"X'40'" Corresponds to SDUMPX SDATA option SWA
		..1.		SDMSE_SDATA_SUM	
					"X'20'" Corresponds to SDUMPX SDATA option SUM
		.... ..1.		SDMSE_SDATA_ALLNUC	
					"X'02'" Corresponds to SDUMPX SDATA option ALLNUC
		1		SDMSE_SDATA_DEFS	
					"X'01'" Corresponds to SDUMPX SDATA option DEFS
58	(3A)	BITSTRING	1	SDMSE_SDATA_BYTE2	
					This field should be set if the exit has indicated SDATA options for the dump.
		1...		SDMSE_SDATA_GRSQ	
					"X'80'" Corresponds to SDUMPX SDATA option GRSQ
		...1		SDMSE_SDATA_COUPLE	
					"X'10'" Corresponds to SDUMPX SDATA option COUPLE
		.... 1...		SDMSE_SDATA_XESDATA	
					"X'08'" Corresponds to SDUMPX SDATA option XESDATA
		.... ..1.		SDMSE_SDATA_WLM	
					"X'02'" Corresponds to SDUMPX SDATA option XESDATA
59	(3B)	BITSTRING	1	SDMSE_SDATA_BYTE3	
					Sdata Byte 3
		..1.		SDMSE_SDATA_SERVERS	
					"X'20'" Corresponds to SDUMPX SDATA option SERVERS
60	(3C)	BITSTRING	1	SDMSE_SDATA_BYTE4	
					Sdata Byte 4
		.1..		SDMSE_SDATA_IO	
					"X'40'" Corresponds to SDUMPX SDATA option IO

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
61	(3D)	BITSTRING	1	SDMSE_SDATA_BYTE5	Sdata Byte 5 - Reserved, must be 0
62	(3E)	CHARACTER	2	SDMSE_SDATA_RSVD	Reserved, must be 0
64	(40)	ADDRESS	4	SDMSE_INPUT_ASIDLST_ADDR	This field indicates the ASID(s) incorporated in the dump. The area pointed to by this field is mapped by DSECT SDMSE_ASIDLST
68	(44)	ADDRESS	4	SDMSE_INPUT_STORAGE_ADDR	This field indicates the Storage Ranges incorporated in the dump. The area pointed to by this field is mapped by DSECT SDMSE_STORAGE. (Note: when SDUMP LIST64 parameter options are in effect then this field is set to zero and the SDMSE_INPUT_STORAGE64_ADDR field is set instead. @L2A-
72	(48)	ADDRESS	4	SDMSE_INPUT_SUBPLST_ADDR	This field indicates the list of subpools incorporated in the dump. The area pointed to by this field is mapped by DSECT SDMSE_SUBPLST
76	(4C)	ADDRESS	4	SDMSE_INPUT_KEYLIST_ADDR	This field indicates the list of keys incorporated in the dump. This will only be specified if SDMSE_SUBPLST_ADDR is also specified. The area pointed to by this field is mapped by DSECT SDMSE_KEYLIST
80	(50)	ADDRESS	4	SDMSE_INPUT_STORAGE64_ADDR	This field indicates the Storage Ranges incorporated in the dump when SDUMP LIST64 parameter options are in effect. The area pointed to by this field is mapped by DSECT SDMSE_STORAGE64
84	(54)	CHARACTER	4	SDMSE_FLAGS	Exit parm list flags
84	(54)	BITSTRING	1	SDMSE_FLAGS1	Flags byte 1
		1...		SDMSE_OUTPUT_STORAGE_TYPE64	"X'80'" Indicates that a non-zero value in SDMSE_OUTPUT_STORAGE_ADDR addresses a range list with format SDMSE_STORAGE64 rather than an SDMSE_STORAGE format
85	(55)	CHARACTER	3	SDMSE_FLAGS_RSVD	Reserved - must be zero
88	(58)	CHARACTER	8		Unused @L2A-
88	(58)	X'0'	0	SDMSE_VERSION_CURRENT	"0"
88	(58)	X'0'	0	SDMSE_VERSION_0	"0"
88	(58)	X'60'	0	SDMSE_LEN	"*-SDMSE"

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 this length field
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	

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	CHARACTER	4	SDMSE_ASIDLST_HEADER	Header area
0	(0)	SIGNED	2	SDMSE_ASIDLST_LENGTH	Total length of area including this length field
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 this length field
2	(2)	CHARACTER	2		Reserved
4	(4)	CHARACTER	16	SDMSE_STORAGE_ENTRY	This represents an array of start/end address pairs
4	(4)	CHARACTER	8	SDMSE_STORAGE_STOKEN	STOKEN of storage
12	(C)	ADDRESS	4	SDMSE_STORAGE_START	Start of range
16	(10)	ADDRESS	4	SDMSE_STORAGE_END	End of range
16	(10)	X'14'	0	SDMSE_STORAGE_LEN	"*-SDMSE_STORAGE"

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 this length field
2	(2)	CHARACTER	2		Reserved
4	(4)	CHARACTER	24	SDMSE_STORAGE64_ENTRY	This represents an array of start/end 64-bit address pairs
4	(4)	CHARACTER	8	SDMSE_STORAGE64_STOKEN	STOKEN of storage
12	(C)	CHARACTER	8	SDMSE_STORAGE64_START	Start of range
20	(14)	CHARACTER	8	SDMSE_STORAGE64_END	End of range
20	(14)	X'1C'	0	SDMSE_STORAGE64_LEN	"*-SDMSE_STORAGE64"

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 this length field
2	(2)	CHARACTER	2		Reserved
4	(4)	CHARACTER	8	SDMSE_JOBLIST_ENTRY	

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
					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 this length field
2	(2)	CHARACTER	2		Reserved
4	(4)	CHARACTER	16	SDMSE_DSPLIST_ENTRY	
					This represents an array of data space owners and names
4	(4)	CHARACTER	8	SDMSE_DSPLIST_OWNER	
					The owner of the data space: this can be by jobname or by ASID
4	(4)	CHARACTER	8	SDMSE_DSPLIST_OWNER_JOBNAME	
					Fill this in, left-justified, padded with blanks, if specifying a jobname as the owner.
4	(4)	CHARACTER	6	SDMSE_DSPLIST_OWNER_ZEROES	
					Make sure this is zeroes if specifying an ASID as the owner.
10	(A)	SIGNED	2	SDMSE_DSPLIST_OWNER_ASID	
					Fill this in, zeroing the previous field too, if specifying an ASID as the owner.
12	(C)	CHARACTER	8	SDMSE_DSPLIST_NAME	
					The data space name
12	(C)	X'14'	0	SDMSE_DSPLIST_LEN	
					"*-SDMSE_DSPLIST"

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	SDMSE_SUBPLST	
0	(0)	CHARACTER	4	SDMSE_SUBPLST_HEADER	
					Header area
0	(0)	SIGNED	2	SDMSE_SUBPLST_LENGTH	
					Total length of area including this length field
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 this length field
2	(2)	CHARACTER	2		Reserved
4	(4)	CHARACTER	1	SDMSE_KEYLIST_ENTRY	

IHASDMSE Cross Reference

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					This represents an array of KEYs which are applied to the provided subpools
4	(4)	SIGNED	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
SDMSE	0	
SDMSE_ASIDLST	0	
SDMSE_ASIDLST_ASID	4	
SDMSE_ASIDLST_ENTRY	4	
SDMSE_ASIDLST_HEADER	0	
SDMSE_ASIDLST_LEN	4	6
SDMSE_ASIDLST_LENGTH	0	
SDMSE_DSPLIST	0	
SDMSE_DSPLIST_ENTRY	4	
SDMSE_DSPLIST_HEADER	0	
SDMSE_DSPLIST_LEN	C	14
SDMSE_DSPLIST_LENGTH	0	
SDMSE_DSPLIST_NAME	C	
SDMSE_DSPLIST_OWNER	4	
SDMSE_DSPLIST_OWNER_ASID	A	
SDMSE_DSPLIST_OWNER_JOBNAME	4	
SDMSE_DSPLIST_OWNER_ZEROES	4	
SDMSE_FLAGS	54	
SDMSE_FLAGS_RSVD	55	
SDMSE_FLAGS1	54	
SDMSE_INPUT_ASIDLST_ADDR	40	
SDMSE_INPUT_KEYLIST_ADDR	4C	
SDMSE_INPUT_PROBDESC_ADDR	4	
SDMSE_INPUT_STORAGE_ADDR	44	
SDMSE_INPUT_STORAGE64_ADDR	50	
SDMSE_INPUT_SUBPLST_ADDR	48	
SDMSE_INPUT_WORKAREA_ADDR	8	
SDMSE_JOBLIST	0	
SDMSE_JOBLIST_ENTRY	4	
SDMSE_JOBLIST_HEADER	0	
SDMSE_JOBLIST_LEN	4	C
SDMSE_JOBLIST_LENGTH	0	
SDMSE_JOBLIST_NAME	4	
SDMSE_KEYLIST	0	
SDMSE_KEYLIST_ENTRY	4	
SDMSE_KEYLIST_HEADER	0	
SDMSE_KEYLIST_KEY	4	
SDMSE_KEYLIST_LEN	4	5
SDMSE_KEYLIST_LENGTH	0	
SDMSE_LEN	58	60
SDMSE_MODEL	0	
SDMSE_MODEL_ENTRY	4	
SDMSE_MODEL_HEADER	0	
SDMSE_MODEL_LEN	4	8
SDMSE_MODEL_LENGTH	0	
SDMSE_OUTPUT_ASIDLST_ADDR	18	
SDMSE_OUTPUT_DSPLIST_ADDR	24	
SDMSE_OUTPUT_JOBLIST_ADDR	20	
SDMSE_OUTPUT_KEYLIST_ADDR	2C	
SDMSE_OUTPUT_STORAGE_ADDR	1C	
SDMSE_OUTPUT_STORAGE_TYPE64	54	80
SDMSE_OUTPUT_SUBPLST_ADDR	28	
SDMSE_OUTPUT_WORKAREA_ADDR	C	
SDMSE_OUTPUT_WORKAREA_KEY	15	
SDMSE_OUTPUT_WORKAREA_LENGTH	10	
SDMSE_OUTPUT_WORKAREA_SUBPOOL		

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

IHASDPD Programming Interface information

Programming Interface information

IHASDPD

End of Programming Interface information

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IHASDPD Heading Information

Common Name: SDUMPX ProbDesc area mapping
Macro ID: IHASDPD
DSECT Name: SDPD
Owning Component: SDUMP (SCDMP)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: caller-supplied
Key: caller-supplied
Residency: caller-supplied
Size: SDPD -- X'0004' bytes
+ variable data
SDPD_KLD -- X'000A' bytes
+ variable data
Created by: Created by SDUMP issuer, passed via 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		

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	, Key-length-data entry
0	(0)	CHARACTER	10	SDPD_KLD_HEADER	Header
0	(0)	CHARACTER	8	SDPD_KLD_KEY	The 8-byte key. Keys beginning with "A" through "I" or with "SYS" are reserved for IBM use.
0	(0)	CHARACTER	3	SDPD_KLD_KEY_COMPPREFIX	Component identifier. IBM products should use their 3-character module prefix.
3	(3)	CHARACTER	5	SDPD_KLD_KEY_COMPINFO	Component information identifier. This is up to the component to decide how to use. It can be used to differentiate between different problem description information entries for the given component. A possible use is: 2 bytes to indicate the subcomponent followed by a 3-byte number to indicate what kind of information this is.
8	(8)	SIGNED	2	SDPD_KLD_LENGTH	Length of data that follows. It does not include the length of this field itself or of the key field.
10	(A)	CHARACTER	1	SDPD_KLD_DATA (0)	

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
10	(A)	X'A'	0	SDPD_KLD_LEN	Data, in whatever format the component chooses. "*-SDPD_KLD"

IHASDPD Cross Reference

Name	Hex Offset	Hex Value
SDPD	0	
SDPD_DATA	4	
SDPD_HEADER	0	
SDPD_KLD	0	
SDPD_KLD_DATA	A	
SDPD_KLD_HEADER	0	
SDPD_KLD_KEY	0	
SDPD_KLD_KEY_COMPINFO	3	
SDPD_KLD_KEY_COMPPREFIX	0	
SDPD_KLD_LEN	A	A
SDPD_KLD_LENGTH	8	
SDPD_LEN	4	4
SDPD_LENGTH	0	

IHASDRMT Programming Interface information

Programming Interface information

IHASDRMT

End of Programming Interface information

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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		

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

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

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
4	(4)	CHARACTER	1	SDRMT_MODEL_ENTRY (0)	Start of data for the entry
4	(4)	X'4'	0	SDRMT_MODEL_LEN	"*-SDRMT_MODEL"

Offsets Dec	Offsets 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"

Offsets Dec	Offsets 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	Offsets 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	

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
					Total length of area including this length field and the ID field
4	(4)	CHARACTER	8	SDRMT_SDATA_OPTIONS	
					These are mapped in the same order as they appear in the SDUMP parameter list
4	(4)	BITSTRING	1	SDRMT_SDATA_BYTE0	
					This field should be set if the caller has indicated SDATA options for the dump.
		1...		SDRMT_SDATA_ALLPSA	
					"X'80'" Corresponds to SDUMPX SDATA option ALLPSA
		.1..		SDRMT_SDATA_PSA	
					"X'40'" Corresponds to SDUMPX SDATA option PSA
		..1.		SDRMT_SDATA_NUC	
					"X'20'" Corresponds to SDUMPX SDATA option NUC
		...1		SDRMT_SDATA_SQA	
					"X'10'" Corresponds to SDUMPX SDATA option SQA
		.... 1...		SDRMT_SDATA_LSQA	
					"X'08'" Corresponds to SDUMPX SDATA option LSQA
		.... .1..		SDRMT_SDATA_RGN	
					"X'04'" Corresponds to SDUMPX SDATA option RGN
		.... ..1.		SDRMT_SDATA_LPA	
					"X'02'" Corresponds to SDUMPX SDATA option LPA
		1		SDRMT_SDATA_TRT	
					"X'01'" Corresponds to SDUMPX SDATA option TRT
5	(5)	BITSTRING	1	SDRMT_SDATA_BYTE1	
					This field should be set if the caller has indicated SDATA options for the dump.
		1...		SDRMT_SDATA_CSA	
					"X'80'" Corresponds to SDUMPX SDATA option CSA
		.1..		SDRMT_SDATA_SWA	
					"X'40'" Corresponds to SDUMPX SDATA option SWA
		..1.		SDRMT_SDATA_SUM	
					"X'20'" Corresponds to SDUMPX SDATA option SUM
		.... 1...		SDRMT_SDATA_NOALLPSA	
					"X'08'" Corresponds to SDUMPX SDATA option NOALLPSA
		.... .1..		SDRMT_SDATA_NOSQA	
					"X'04'" Corresponds to SDUMPX SDATA option NOSQA
		.... ..1.		SDRMT_SDATA_ALLNUC	
					"X'02'" Corresponds to SDUMPX SDATA option ALLNUC
		1		SDRMT_SDATA_DEFS	
					"X'01'" Corresponds to SDUMPX SDATA option DEFS
6	(6)	BITSTRING	1	SDRMT_SDATA_BYTE2	
					This field should be set if the caller has indicated SDATA options for the dump.
		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_BYTE3	
					Sdata Byte 3
		..1.		SDRMT_SDATA_SERVERS	
					"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	

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

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	
					Use SDRMT_IDCON_JOBLIST to initialize
2	(2)	SIGNED	2	SDRMT_JOBLIST_LENGTH	
					Total length of area including this length field and the ID field
4	(4)	CHARACTER	8	SDRMT_JOBLIST_ENTRY	
					This represents an array of job names
4	(4)	CHARACTER	8	SDRMT_JOBLIST_NAME	
					The jobname. Left-justified, padded with blanks as needed.
4	(4)	X'C'	0	SDRMT_JOBLIST_LEN	
					"*-SDRMT_JOBLIST"

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	
					Use SDRMT_IDCON_DSPLIST to initialize
2	(2)	SIGNED	2	SDRMT_DSPLIST_LENGTH	
					Total length of area including this length field and the ID field
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	
					Use SDRMT_IDCON_SUBPLST to initialize
2	(2)	SIGNED	2	SDRMT_SUBPLST_LENGTH	
					Total length of area including this length field and the ID field
4	(4)	CHARACTER	4	SDRMT_SUBPLST_ENTRY	
					This represents an array of ASID/Subpool pairs
4	(4)	SIGNED	2	SDRMT_SUBPLST_ASID	
					The ASID to which the subpool applies
6	(6)	SIGNED	2	SDRMT_SUBPLST_SUBPOOL	
					The subpool
6	(6)	X'8'	0	SDRMT_SUBPLST_LEN	
					"*-SDRMT_SUBPLST"

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

IHASDRMT Cross Reference

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	CHARACTER	4	SDRMT_KEYLIST_HEADER	
0	(0)	SIGNED	2	SDRMT_KEYLIST_ID	
					Use SDRMT_IDCON_KEYLIST to initialize
2	(2)	SIGNED	2	SDRMT_KEYLIST_LENGTH	
					Total length of area including this length field and the ID field
4	(4)	CHARACTER	4	SDRMT_KEYLIST_ENTRY	
					This represents an array of KEYs which are applied to the provided subpools
4	(4)	SIGNED	4	SDRMT_KEYLIST_KEY	
					The key (must be X'00'-X'F0', not 0-15)
4	(4)	X'8'	0	SDRMT_KEYLIST_LEN	
					"*-SDRMT_KEYLIST"

Offsets Dec	Offsets 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
SDRMT	0	
SDRMT_ASIDLST		
	0	
SDRMT_ASIDLST_ASID		
	4	
SDRMT_ASIDLST_ENTRY		
	4	
SDRMT_ASIDLST_HEADER		
	0	
SDRMT_ASIDLST_ID		
	0	
SDRMT_ASIDLST_LEN		
	4	8
SDRMT_ASIDLST_LENGTH		
	2	
SDRMT_COPY	0	
SDRMT_COPY_HEADER		
	0	
SDRMT_COPY_ID		
	0	
SDRMT_COPY_LEN		
	2	4
SDRMT_COPY_LENGTH		
	2	
SDRMT_DATA	4	
SDRMT_DSPLIST		
	0	
SDRMT_DSPLIST_ENTRY		
	4	
SDRMT_DSPLIST_HEADER		
	0	
SDRMT_DSPLIST_ID		
	0	
SDRMT_DSPLIST_LEN		
	C	14
SDRMT_DSPLIST_LENGTH		
	2	
SDRMT_DSPLIST_NAME		
	C	
SDRMT_DSPLIST_OWNER		
	4	
SDRMT_DSPLIST_OWNER_ASID		
	A	
SDRMT_DSPLIST_OWNER_JOBNAME		
	4	
SDRMT_DSPLIST_OWNER_ZEROES		
	4	
SDRMT_GRPLIST		
	0	
SDRMT_GRPLIST_ENTRY		
	4	
SDRMT_GRPLIST_GRPNAME		
	4	
SDRMT_GRPLIST_HEADER		
	0	
SDRMT_GRPLIST_ID		
	0	
SDRMT_GRPLIST_LEN		
	C	1C
SDRMT_GRPLIST_LENGTH		
	2	
SDRMT_GRPLIST_MEMNAME		
	C	
SDRMT_IDCON_ASIDLST		
	4	10
SDRMT_IDCON_ASIDLST_COPY		
	4	11
SDRMT_IDCON_DSPLIST		

Name	Hex Offset	Hex Value
	4	1C
SDRMT_IDCON_DSPLIST_COPY		
	4	1D
SDRMT_IDCON_GRPLIST		
	4	8
SDRMT_IDCON_JOBLIST		
	4	18
SDRMT_IDCON_JOBLIST_COPY		
	4	19
SDRMT_IDCON_KEYLIST		
	4	24
SDRMT_IDCON_KEYLIST_COPY		
	4	25
SDRMT_IDCON_LIST64		
	4	28
SDRMT_IDCON_LIST64_COPY		
	4	29
SDRMT_IDCON_SDATA		
	4	C
SDRMT_IDCON_SDATA_COPY		
	4	D
SDRMT_IDCON_STORAGE		
	4	14
SDRMT_IDCON_STORAGE_COPY		
	4	15
SDRMT_IDCON_SUBPLST		
	4	20
SDRMT_IDCON_SUBPLST_COPY		
	4	21
SDRMT_IDCON_SYSLIST		
	4	4
SDRMT_JOBLIST		
	0	
SDRMT_JOBLIST_ENTRY		
	4	
SDRMT_JOBLIST_HEADER		
	0	
SDRMT_JOBLIST_ID		
	0	
SDRMT_JOBLIST_LEN		
	4	C
SDRMT_JOBLIST_LENGTH		
	2	
SDRMT_JOBLIST_NAME		
	4	
SDRMT_KEYLIST		
	0	
SDRMT_KEYLIST_ENTRY		
	4	
SDRMT_KEYLIST_HEADER		
	0	
SDRMT_KEYLIST_ID		
	0	
SDRMT_KEYLIST_KEY		
	4	
SDRMT_KEYLIST_LEN		
	4	8
SDRMT_KEYLIST_LENGTH		
	2	
SDRMT_LEN	4	4
SDRMT_LENGTH	0	
SDRMT_LIST64	0	
SDRMT_LIST64_BEGIN64@		
	C	
SDRMT_LIST64_END64@		

Name	Hex Offset	Hex Value
	14	
SDRMT_LIST64_ENTRY		
	4	
SDRMT_LIST64_HEADER		
	0	
SDRMT_LIST64_ID		
	0	
SDRMT_LIST64_LEN		
	14	1C
SDRMT_LIST64_LENGTH		
	2	
SDRMT_LIST64_STOKEN		
	4	
SDRMT_MODEL	0	
SDRMT_MODEL_ENTRY		
	4	
SDRMT_MODEL_HEADER		
	0	
SDRMT_MODEL_ID		
	0	
SDRMT_MODEL_LEN		
	4	4
SDRMT_MODEL_LENGTH		
	2	
SDRMT_SDATA	0	
SDRMT_SDATA_ALLNUC		
	5	2
SDRMT_SDATA_ALLPSA		
	4	80
SDRMT_SDATA_BYTE0		
	4	
SDRMT_SDATA_BYTE1		
	5	
SDRMT_SDATA_BYTE2		
	6	
SDRMT_SDATA_BYTE3		
	7	
SDRMT_SDATA_BYTE4		
	8	
SDRMT_SDATA_BYTE5		
	9	
SDRMT_SDATA_COUPLE		
	6	10
SDRMT_SDATA_CSA		
	5	80
SDRMT_SDATA_DEFS		
	5	1
SDRMT_SDATA_GRSQ		
	6	80
SDRMT_SDATA_HEADER		
	0	
SDRMT_SDATA_ID		
	0	
SDRMT_SDATA_IO		
	8	40
SDRMT_SDATA_LEN		
	A	C
SDRMT_SDATA_LENGTH		
	2	
SDRMT_SDATA_LPA		
	4	2
SDRMT_SDATA_LSQA		
	4	8
SDRMT_SDATA_NOALLPSA		
	5	8

Name	Hex Offset	Hex Value
SDRMT_SDATA_NODEFS		
	8	80
SDRMT_SDATA_NOSQA		
	5	4
SDRMT_SDATA_NUC		
	4	20
SDRMT_SDATA_OPTIONS		
	4	
SDRMT_SDATA_PSA		
	4	40
SDRMT_SDATA_RGN		
	4	4
SDRMT_SDATA_RSVD		
	A	
SDRMT_SDATA_SERVERS		
	7	20
SDRMT_SDATA_SQA		
	4	10
SDRMT_SDATA_SUM		
	5	20
SDRMT_SDATA_SWA		
	5	40
SDRMT_SDATA_TRT		
	4	1
SDRMT_SDATA_WLM		
	6	2
SDRMT_SDATA_XESDATA		
	6	8
SDRMT_STORAGE		
	0	
SDRMT_STORAGE_BEGIN@		
	C	
SDRMT_STORAGE_END@		
	10	
SDRMT_STORAGE_ENTRY		
	4	
SDRMT_STORAGE_HEADER		
	0	
SDRMT_STORAGE_ID		
	0	
SDRMT_STORAGE_LEN		
	10	14
SDRMT_STORAGE_LENGTH		
	2	
SDRMT_STORAGE_STOKEN		
	4	
SDRMT_SUBPLST		
	0	
SDRMT_SUBPLST_ASID		
	4	
SDRMT_SUBPLST_ENTRY		
	4	
SDRMT_SUBPLST_HEADER		
	0	
SDRMT_SUBPLST_ID		
	0	
SDRMT_SUBPLST_LEN		
	6	8
SDRMT_SUBPLST_LENGTH		
	2	
SDRMT_SUBPLST_SUBPOOL		
	6	
SDRMT_SYSLIST		
	0	
SDRMT_SYSLIST_ASID		
	12	
SDRMT_SYSLIST_ENTRY		
	4	
SDRMT_SYSLIST_HEADER		
	0	
SDRMT_SYSLIST_ID		
	0	
SDRMT_SYSLIST_JOBNAME		
	C	
SDRMT_SYSLIST_JOBNAME_ASID		
	C	
SDRMT_SYSLIST_LEN		
	12	14
SDRMT_SYSLIST_LENGTH		
	2	
SDRMT_SYSLIST_SYSNAME		
	4	
SDRMT_SYSLIST_ZEROES		
	C	

IHASDSTR Programming Interface information

Programming Interface information

IHASDSTR

End of Programming Interface information

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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	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0		
0	(0)	X'0'	0	SDSTR_HEADER_MAP	"0" STRLIST Header for IHABLDP
0	(0)	X'0'	0	SDSTR_WORK_VAR_PTR	"0" Pointer to IHABLDP work areas
0	(0)	X'4'	0	SDSTR_VERSION	"4" Version Number
0	(0)	X'8'	0	SDSTR_HEADER_LENGTH	"8" Length of STRLIST header

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

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
				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_CONNAME	"16" Provide a CONNAME to include user registry information that relates to that user. This should only be used for a cache structure EQU 32 Reserved for IBM use EQU 36 Reserved for IBM use EQU 38 Reserved for IBM use EQU 40 Reserved for IBM use EQU 42 Reserved for IBM use EQU 43 Reserved
0	(0)	X'2C'	0	SDSTR_RANGE_CNTR	"44" Counter of how many range and option entries follow this structure entry
0	(0)	X'2E'	0	SDSTR_STRUCTURE_FLAGS	"46" Structure level flag byte
		1...		SDSTR_ACCTIME_NOLIMIT	"X'80'" Indicates that the time limit specified on the IXLCONN macro will be ignored to insure that the entry data is dumped serialized EQU X'40' Reserved for IBM use EQU X'20' Reserved for IBM use
		...1		SDSTR_CONNAME_ENTRY	"X'10'" Indicates that the value in the CONTOKEN/CONNAME field is a CONNAME EQU X'08' Reserved EQU X'04' Reserved EQU X'02' Reserved EQU X'01' Reserved EQU 33 Reserved
0	(0)	X'30'	0	SDSTR_STRUCTURE_LENGTH	"48" Length of STRLIST structure entry
				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	

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					"X'20'" Indicates that the adjunct data should be retrieved with the entry data which is not captured EQU X'10' Reserved EQU X'08' Reserved EQU X'04' Reserved EQU X'02' Reserved EQU X'01' Reserved
0	(0)	X'2'	0	SDSTR_RANGE_FLAG3	"2" Range level flag byte 3
		1...		SDSTR_OBJECT_COCLASS	"X'80'" Indicates that the range represents a range of cast-out classes
		.1..		SDSTR_OBJECT_STGCLASS	"X'40'" Indicates that the range represents a range of storage classes
		..1.		SDSTR_OBJECT_LISTNUM	"X'20'" Indicates that the range represents a range of list numbers
		...1		SDSTR_DUMP_ALL	"X'10'" Indicates that all elements of a requested object will be dumped. If bit on, the fields SDSTR_START_VALUE and SDSTR_END_VALUE will be ignored
		.... 1...		SDSTR_LOCKENTRIES	"X'08'" Indicates that lock table entries should be included in the dump. This is only valid for list structures.
		.... .1..		SDSTR_USERCNTLS	"X'04'" Indicates that the user attached controls should be included in the dump
		.... ..1.		SDSTR_EVENTQS	"X'02'" Indicates that the user event queues should be included in the dump
		1		SDSTR_OBJECT_EMCONTROLS	"X'01'" Indicates that the range represents a range of event monitoring controls EQU 3 Reserved
0	(0)	X'4'	0	SDSTR_START_VALUE	"4" Starting value for range
0	(0)	X'8'	0	SDSTR_END_VALUE	"8" Ending value for range
0	(0)	X'C'	0	SDSTR_RANGE_LENGTH	"12" Length of STRLIST structure range and option entry
				Comment	
	Constants				
				End of Comment	
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	

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					"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
FAIL	0	8
INIT_VERSION	0	1
INSUFFICIENT_SPACE	0	4
INVALID_RANGE	0	8
NO_REASON	0	0
SDSTR_ACCTIME_NOLIMIT	0	80
SDSTR_ADJUNCT_CAPTURE	0	80
SDSTR_ADJUNCT_DIRECTIO	0	20
SDSTR_CONNAME	0	10
SDSTR_CONNAME_ENTRY	0	10
SDSTR_CONTOKEN	0	10
SDSTR_CUR_STR_PTR	0	4
SDSTR_DUMP_ALL	0	10
SDSTR_EDATA_SERIALIZE	0	80
SDSTR_EDATA_UNSERIALIZE	0	40
SDSTR_END_VALUE	0	8
SDSTR_EVENTQS	0	2
SDSTR_HEADER_LENGTH	0	8
SDSTR_HEADER_MAP	0	0
SDSTR_LENGTH	0	0
SDSTR_LENGTH_MAP	0	0
SDSTR_LOCKENTRIES	0	8
SDSTR_NEXT_SPACE	0	0
SDSTR_OBJECT_COCLASS	0	80
SDSTR_OBJECT_EMCONTROLS	0	1
SDSTR_OBJECT_LISTNUM	0	20
SDSTR_OBJECT_STGCLASS	0	40
SDSTR_RANGE	0	0
SDSTR_RANGE_CNTR	0	2C
SDSTR_RANGE_FLAG1	0	0
SDSTR_RANGE_FLAG2	0	1
SDSTR_RANGE_FLAG3	0	2
SDSTR_RANGE_LENGTH	0	C
SDSTR_START_VALUE	0	4
SDSTR_STRUCTURE	0	0
SDSTR_STRUCTURE_FLAGS	0	2E
SDSTR_STRUCTURE_LENGTH	0	30
SDSTR_STRUCTURE_NAME	0	0
SDSTR_SUMMARY	0	40
SDSTR_USERCNTLS	0	4
SDSTR_VERSION	0	4
SDSTR_WORK_AREA	0	0
SDSTR_WORK_LENGTH	0	10
SDSTR_WORK_VAR_PTR	0	0
SUCCESS	0	0

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 SlMsg and GPR 3 will point to SLMsgText for a single or major line. GPR 4 will point to SLMsg and GPR 5 will point to SLMsgText for a minor line.
Serialization: None
Function: Represents a parameter to SLIP

IHASLMSG 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

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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	240	SVTX	
0	(0)	CHARACTER	4	SVTXSVTX	Acronym in EBCDIC- "SVTX ". */
4	(4)	CHARACTER	4	SVTXR004	Reserved. 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 and protocal 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)	CHARACTER	8	SVTXFWP	Free WEB pool header and synchronous count. SERIALIZAITON: CDS OWNERSHIP: Supervisor Control
48	(30)	ADDRESS	4	SVTXFWPP	Address of first available WEB in the free pool. SERIALIZAITON: CDS on SVTXFWP for free pool adds, CS on SVTXFWPP for free pool deletes. OWNERSHIP: Supervisor Control
52	(34)	SIGNED	4	SVTXFWPC	Synchronous count field for CDS of SVTXFWP. WUQ Global Recovery. SERIALIZAITON: CDS on SVTXFWP for free pool deletes, not updated for free pool adds. OWNERSHIP: Supervisor Control
56	(38)	UNSIGNED	4	SVTXSPDER	When non-zero, global recovery is in progress. SERIALIZAITON: Global Recovery Protocol. OWNERSHIP: Supervisor Control
56	(38)	BITSTRING	2	SVTXSPDER_SEEN	Each bit indicates whether the corresponding CPU has seen SVTXSPDER set. SERIALIZAITON: Global Recovery Protocol. OWNERSHIP: Supervisor Control

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Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
58	(3A)	BITSTRING	2	SVTXSPDER_CPU	CPU with Global Recovery in progress. SERIALIZAITON: Global Recovery Protocol. OWNERSHIP: Supervisor Control
60	(3C)	CHARACTER	2	SVTXR03C	Reserved.
62	(3E)	SIGNED	2	SVTXWIAD	WLM Interrupted ID. SERIALIZATION: None OWNERSHIP: Supervisor Control
64	(40)	CHARACTER	8	SVTXEGR_TIMESTAMP	Timestamp and CPU ID of the last time IEAVEGR ran. Bits 0-59: Timestamp Bits 60-63: CPU ID SERIALIZATION: Global Recovery Protocol. OWNERSHIP: Supervisor Control
64	(40)	BITSTRING	7	SVTXEGR_TIMESTAMP_TIME	The timestamp
71	(47)	 1111		SVTXEGR_TIMESTAMP_CPUID	CPU ID
72	(48)	ADDRESS	4	SVTXCWTM	Address of IEAVCWTM. SERIALIZATION: None. OWNERSHIP: Supervisor Control
76	(4C)	CHARACTER	4	SVTR04C	Reserved.
80	(50)	CHARACTER	8	SVTXFCP	Free CNTX pool header and synchronous count. SERIALIZAITON: CDS OWNERSHIP: Context Services
80	(50)	ADDRESS	4	SVTXFCPP	Address of first available CNTX in the free pool. SERIALIZAITON: CDS on SVTXFCP for free pool adds, CS on SVTXFCPP for free pool deletes. OWNERSHIP: Context Services
84	(54)	SIGNED	4	SVTXFCPC	Synchronous count field for CDS of SVTXFCP. WUQ Global Recovery. SERIALIZAITON: CDS on SVTXFCP for free pool deletes, not updated for free pool adds. OWNERSHIP: Context Services
88	(58)	CHARACTER	8	SVTXFCIP	Free CIE pool header and synchronous count. SERIALIZAITON: CDS OWNERSHIP: Context Services
88	(58)	ADDRESS	4	SVTXFCIPP	Address of first available CIE in the free pool. SERIALIZAITON: CDS on SVTXFCIP for free pool adds, CS on SVTXFCIPP for free pool deletes. OWNERSHIP: Context Services
92	(5C)	SIGNED	4	SVTXFCIPC	Synchronous count field for CDS of SVTXFCIP. SERIALIZAITON: CDS on SVTXFCIP for free pool deletes, not updated for free pool adds. OWNERSHIP: Context Services
96	(60)	ADDRESS	4	SVTXCEEQ	Address of first extent of CNTXes. SERIALIZAITON: CS OWNERSHIP: Context Services
100	(64)	UNSIGNED	4	SVTXDPSN	Next DU-AL Pool sequence number SERIALIZATION: CS OWNERSHIP: Supervisor Control
104	(68)	CHARACTER	8	SVTXR068	Reserved
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	16	*	Fields used to maintain the pool of mini linkage stack sections, including an LSSD. OWNERSHIP: Supervisor Control
120	(78)	CHARACTER	8	SVTXMLSPOOL	Doubleword for SvtxMLSsynch and SvtxMLSptr. SERIALIZATION: CDS
120	(78)	UNSIGNED	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	16	*	Fields used to maintain the pool of full size linkage stack sections, including an LSSD. OWNERSHIP: Supervisor Control
136	(88)	CHARACTER	8	SVTXFLSPOOL	Doubleword for SvtxFLSsynch and SvtxFLSptr. SERIALIZATION: CDS
136	(88)	UNSIGNED	4	SVTXFLSSYNCH	Synchronization counter used in conjunction with SvtxFLSptr.

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
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	16	*	Fields used to maintain the pool of SSRBs and XSBs used for SUSPEND with token. OWNERSHIP: Supervisor Control
152	(98)	CHARACTER	8	SVTXTOKENPOOL	Doubleword for SvtxTokenSynch and SvtxTokenPtr. SERIALIZATION: CDS
152	(98)	UNSIGNED	4	SVTXTOKENSYNCH	Synchronization counter used in conjunction with SvtxTokenPtr.
156	(9C)	ADDRESS	4	SVTXTOKENPTR	Pointer to the next SSRB/XSB in the pool used for SUSPEND with token.
160	(A0)	SIGNED	4	SVTXTOKENCOUNT	Number of SSRB/XSBs in the SUSPEND with token pool which are available. Used for pool compression only. SERIALIZATION: CS
164	(A4)	SIGNED	2	SVTXTOKENMAX	Number of SSRB/XSBs in the SUSPEND with token pool which triggers pool contraction. SERIALIZATION: None, constant.
166	(A6)	SIGNED	2	SVTXTOKENMIN	Number of SSRB/XSBs which remain in the SUSPEND with token pool after pool contraction. SERIALIZATION: None, constant.
168	(A8)	ADDRESS	4	SVTXSPMA	Address of IEAVSPMA. SERIALIZATION: None, constant. OWNERSHIP: Supervisor Control
172	(AC)	ADDRESS	4	SVTXESSX	Address of IEAVESSX
176	(B0)	CHARACTER	8	SVTXR0B0	Reserved
184	(B8)	UNSIGNED	4	SVTXSDEID	CPOOL ID for small context data elements
188	(BC)	UNSIGNED	4	SVTXMDEID	CPOOL ID for medium context data elements
192	(C0)	CHARACTER	16	*	Fields used to maintain the pool of SSRBs and XSBs used for normal SSRBs. OWNERSHIP: Supervisor Control
192	(C0)	CHARACTER	8	SVTXSSRBPOOL	Doubleword for SvtxSSRBSynch and SvtxSSRBPtr. SERIALIZATION: CDS
192	(C0)	UNSIGNED	4	SVTXSSRBSYNCH	Synchronization counter used in conjunction with SvtxSSRBPtr.
196	(C4)	ADDRESS	4	SVTXSSRBPTR	Pointer to the next SSRB/XSB in the normal SSRB pool.
200	(C8)	SIGNED	4	SVTXSSRBCOUNT	Number of SSRB/XSBs in the normal SSRB pool which are available. Used for pool compression only. SERIALIZATION: CS
204	(CC)	SIGNED	2	SVTXSSRBMAX	Number of SSRB/XSBs in the normal SSRB pool which triggers pool contraction. SERIALIZATION: None, constant.
206	(CE)	SIGNED	2	SVTXSSRBMIN	Number of SSRB/XSBs which remain in the normal SSRB pool after pool contraction. SERIALIZATION: None, constant.
208	(D0)	UNSIGNED	4	SVTXREALSPACEALET	ALET for real space
212	(D4)	SIGNED	2	SVTXREALSPACEEAX	EAX for using real space. The value is 16-bits, but is defined this way so that the compiler will generate a LH since the high 16 bits of the operand register are ignored on ESEA
214	(D6)	CHARACTER	2	SVTXR0D6	Reserved
216	(D8)	ADDRESS	4	SVTXCIEEQ	Address of first extent of CIEs SERIALIZAITON: CS OWNERSHIP: Context Services
220	(DC)	CHARACTER	4	SVTXR0DC	Reserved
224	(E0)	CHARACTER	8	SVTXLXSTAT	LX Usage Statistics
224	(E0)	SIGNED	2	SVTXLXSYSDEFINED	Count of system LXs that were defined for allocation (this does not include LXs allocated for SFT usage)
226	(E2)	SIGNED	2	SVTXLXSYSINUSE	Count of system LXs currently in use
228	(E4)	SIGNED	2	SVTXLXNSYSDEFINED	

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
230	(E6)	SIGNED	2	SVTXLXNSYSINUSE	Count of non-system LXs that may be defined Count of non-system LXs that are in use
232	(E8)	CHARACTER	8	SVTXR0E8	Reserved
240	(F0)	CHARACTER	0	SVTXEND	End of the SVTX.

IHASVTX Constants

Len	Type	Value	Name	Description
2	DECIMAL	1024	SVTXSRBSSIZE	Value for SVTXSRBSDATD. Must have the same value as the Assembler EQU. Used by IEAVSRBS.
8	CHARACTER	IEAREAL	SVTXREALSPACENAME	

IHASVTX Cross Reference

Name	Hex Offset	Hex Value
SVTR04C	4C	
SVTX	0	
SVTXCEEQ	60	
SVTXCIEEQ	D8	
SVTXCWTM	48	
SVTXDPSN	64	
SVTXEGR_TIMESTAMP	40	
SVTXEGR_TIMESTAMP_CPUID	47	0F
SVTXEGR_TIMESTAMP_TIME	40	
SVTXEND	F0	
SVTXESPN	28	
SVTXESSX	AC	
SVTXFCIP	58	
SVTXFCIPC	5C	
SVTXFCIPP	58	
SVTXFCP	50	
SVTXFCPC	54	
SVTXFCPP	50	
SVTXFLSCOUNT	90	
SVTXFLSMAX	94	
SVTXFLSMIN	96	
SVTXFLSPOOL	88	
SVTXFLSPTR	8C	
SVTXFLSSYNCH	88	
SVTXFWP	30	
SVTXFWPC	34	
SVTXFWPP	30	
SVTXLXNSYSDEFINED	E4	
SVTXLXNSYSINUSE	E6	
SVTXLXSTAT	E0	
SVTXLXSYSDEFINED	E0	
SVTXLXSYSINUSE	E2	
SVTXMDEID	BC	
SVTXMLSCOUNT	80	
SVTXMLSMAX	84	
SVTXMLSMIN	86	
SVTXMLSPOOL	78	
SVTXMLSPTR	7C	
SVTXMLSSYNCH	78	
SVTXREALSPACEALET	D0	
SVTXREALSPACEEAX	D4	
SVTXR0B0	B0	
SVTXR0DC	DC	
SVTXR0D6	D6	
SVTXR0E8	E8	
SVTXR004	4	
SVTXR03C	3C	
SVTXR068	68	
SVTXSDEID	B8	
SVTXSPDER	38	
SVTXSPDER_CPU	3A	
SVTXSPDER_SEEN	38	
SVTXSPMA	A8	
SVTXSRBSCPID	74	
SVTXSRBSDATD	70	
SVTXSSRBCOUNT	C8	
SVTXSSRBMAX	CC	
SVTXSSRBMIN	CE	
SVTXSSRBPOOL	C0	
SVTXSSRBPTR	C4	
SVTXSSRBSYNCH	C0	
SVTXSVTX	0	
SVTXTOKENCOUNT	A0	
SVTXTOKENMAX	A4	
SVTXTOKENMIN	A6	
SVTXTOKENPOOL	98	
SVTXTOKENPTR	9C	
SVTXTOKENSYNCH	98	
SVTXWBCH	10	
SVTXWEBS	2C	
SVTXWEEL	8	
SVTXWIAD	3E	
SVTXWPM	C	
SVTXWUQD	24	
SVTXWUQ1	14	
SVTXWUQ2	18	

Name	Hex Offset	Hex Value
SVTXWUQ3	1C	
SVTXWUQ4	20	

IHATDRMT Programming Interface information

Programming Interface information

IHATDRMT

End of Programming Interface information

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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	Offsets 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 ZEROES&ASID
12	(C)	CHARACTER	8	TDRMT_SYSLIST_JOBNAME (0)	Fill this in, left-justified, padded with blanks, if specifying a jobname. The entire field should be 0s if neither jobname nor ASID is wanted.
12	(C)	CHARACTER	6	TDRMT_SYSLIST_ZEROES	Make sure this is zeroes if specifying an ASID.
18	(12)	SIGNED	2	TDRMT_SYSLIST_ASID	Fill this in, zeroing the previous field too, if specifying an ASID.
18	(12)	X'14'	0	TDRMT_SYSLIST_LEN	"*-TDRMT_SYSLIST"

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

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
12	(C)	X'1C'	0	TDRMT_GRPLIST_LEN	"*-TDRMT_GRPLIST"

Offsets Dec	Offsets 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
		.... 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	Offsets 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

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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
TDRMT	0	
TDRMT_COPY	0	
TDRMT_COPY_HEADER	0	
TDRMT_COPY_ID	0	
TDRMT_COPY_LEN	2	4
TDRMT_COPY_LENGTH	2	
TDRMT_DATA	4	
TDRMT_GRPLIST	0	
TDRMT_GRPLIST_ENTRY	4	
TDRMT_GRPLIST_GRPNAME	4	
TDRMT_GRPLIST_HEADER	0	
TDRMT_GRPLIST_ID	0	
TDRMT_GRPLIST_LEN	C	1C
TDRMT_GRPLIST_LENGTH	2	
TDRMT_GRPLIST_MEMNAME	C	
TDRMT_IDCON_GRPLIST	4	8
TDRMT_IDCON_SDATA	4	C
TDRMT_IDCON_SDATA_COPY	4	D
TDRMT_IDCON_SUBPLST	4	20
TDRMT_IDCON_SYSLIST	4	4
TDRMT_LEN	4	4
TDRMT_LENGTH	0	
TDRMT_MODEL	0	
TDRMT_MODEL_ENTRY	4	
TDRMT_MODEL_HEADER	0	
TDRMT_MODEL_ID	0	
TDRMT_MODEL_LEN	4	4
TDRMT_MODEL_LENGTH	2	
TDRMT_SDATA	0	
TDRMT_SDATA_ALLNUC	4	40
TDRMT_SDATA_BYTE1	4	
TDRMT_SDATA_BYTE2	5	
TDRMT_SDATA_CSA	4	20
TDRMT_SDATA_DEFS	4	80
TDRMT_SDATA_GRSQ	4	10
TDRMT_SDATA_HEADER	0	
TDRMT_SDATA_ID	0	
TDRMT_SDATA_LEN	6	8
TDRMT_SDATA_LENGTH	2	
TDRMT_SDATA_LPA	4	8
TDRMT_SDATA_LSQA	4	4
TDRMT_SDATA_NUC		

IHATDRMT Cross Reference

Name	Hex Offset	Hex Value
	4	2
TDRMT_SDATA_OPTIONS		
	4	
TDRMT_SDATA_PSA		
	5	8
TDRMT_SDATA_RGN		
	4	1
TDRMT_SDATA_RSVD		
	6	
TDRMT_SDATA_SQA		
	5	80
TDRMT_SDATA_SUM		
	5	40
TDRMT_SDATA_SWA		
	5	20
TDRMT_SDATA_TRT		
	5	10
TDRMT_SUBPLST		
	0	
TDRMT_SUBPLST_ENTRY		
	4	
TDRMT_SUBPLST_HEADER		
	0	
TDRMT_SUBPLST_ID		
	0	
TDRMT_SUBPLST_LEN		
	4	6
TDRMT_SUBPLST_LENGTH		
	2	
TDRMT_SUBPLST_SUBPOOL		
	4	
TDRMT_SYSLIST		
	0	
TDRMT_SYSLIST_ASID		
	12	
TDRMT_SYSLIST_ENTRY		
	4	
TDRMT_SYSLIST_HEADER		
	0	
TDRMT_SYSLIST_ID		
	0	
TDRMT_SYSLIST_JOBNAME		
	C	
TDRMT_SYSLIST_JOBNAME_ASID		
	C	
TDRMT_SYSLIST_LEN		
	12	14
TDRMT_SYSLIST_LENGTH		
	2	
TDRMT_SYSLIST_SYSNAME		
	4	
TDRMT_SYSLIST_ZEROES		
	C	

IHATDUMP Heading Information

Common Name: Transaction Dump parameter list
Macro ID: IHATDUMP
DSECT Name: TDUMP
Owning Component: SVC Dump (SCDMP)
Eye-Catcher ID: TDMP
Offset: 0
Length: 4
Storage Attributes: Main Storage: One per dump request
Subpool: Any
Key: Any
Residency: Any
Size: 108 bytes
Created by: Transaction dump requestor
Pointed to by: Reg 1 on entry to SVC 33
Serialization: NONE
Function: This is the mapping macro for the transaction dump parameter list as produced by the IEATDUMP macro.

IHATDUMP Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	TDUMP	?IEATDUMP parameter list
0	(0)	CHARACTER	4	TDMPID	Parameter list name
4	(4)	SIGNED	2	TDMPLEN	Parameter list length
6	(6)	SIGNED	1	TDMPVERSION	Parameter list version
7	(7)	CHARACTER	1		Reserved
8	(8)	CHARACTER	2	TDMPSDATA (0)	SDATA options
8	(8)	BITSTRING	1	TDMPSDATA1 (0)	First byte of SDATA options
		1...		TDMPDEFS	"X'80'" SDATA=DEFS specified
		.1..		TDMPALLNUC	"X'40'" SDATA=ALLNUC
		..1.		TDMPCSA	"X'20'" SDATA=CSA specified
		...1		TDMPGRSQ	"X'10'" SDATA=GRSQ specified
		.... 1...		TDMPLPA	"X'08'" SDATA=LPA specified
		.... .1..		TDMPLSQA	"X'04'" SDATA=LSQA specified
		.... ..1.		TDMPNUC	"X'02'" SDATA=NUC specified
		1		TDMPRGN	"X'01'" SDATA=RGN specified
9	(9)	BITSTRING	1	TDMPSDATA2 (0)	Second byte of SDATA options
		1...		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...		TDMPASYNC	"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)	ADDRESS	4	TDMPDCB@	DCB address

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Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
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
68	(44)	ADDRESS	4	TDMPINTOKEN@	Incident token address
72	(48)	SIGNED	4	TDMPINTOKENALET	Incident token alet
76	(4C)	ADDRESS	4	TDMPREMOTE@	Remote area address
80	(50)	SIGNED	4	TDMPREMOTEALET	Remote area alet
84	(54)	ADDRESS	4	TDMPPROBDESC@	Problem description address
88	(58)	SIGNED	4	TDMPPROBDESCALET	Problem description alet
92	(5C)	ADDRESS	4	TDMPLIST@	List address
96	(60)	SIGNED	4	TDMPLISTALET	List alet
100	(64)	ADDRESS	4	TDMPSUBPLST@	Subplst address
104	(68)	SIGNED	4	TDMPSUBPLSTALET	Subplst alet
108	(6C)	ADDRESS	4	TDMPDSPLIST@	Dsplist address
112	(70)	SIGNED	4	TDMPDSPLISTALET	Dsplist alet
116	(74)	ADDRESS	4	TDMPECB@	Ecb address
120	(78)	SIGNED	4	TDMPECBALET	Ecb alet

Comment

Transaction dump return codes

End of Comment

120	(78)	X'0'	0	TDMPRC_OK	"0" A complete transaction dump was taken
120	(78)	X'4'	0	TDMPRC_PARTIAL_DUMP	"4" A partial transaction dump was taken
120	(78)	X'8'	0	TDMPRC_NO_DUMP	"8" No transaction dump was taken
120	(78)	X'C'	0	TDMPRC_INTERNAL_ERROR	"12" No transaction dump was was taken due to an internal error
120	(78)	X'10'	0	TDMPRC_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	TDMPRSN_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	TDMPRSN_DATASETTOOSMALL	"1" The data set was too small to contain the complete dump
120	(78)	X'2'	0	TDMPRSN_CONTENTIONDETECTED	"2" Contention was detected

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
				Comment	
Transaction dump reason codes for return code = 8					
				End of Comment	
120	(78)	X'1'	0	TDMPRSN_PARMADDRZERO	"1" The address of the transaction dump parameter list was zero
120	(78)	X'2'	0	TDMPRSN_CHNGDUMPNODUMP	"2" The dump was suppressed by CHNGDUMP
120	(78)	X'3'	0	TDMPRSN_SUPPRESSEDBYSLIP	"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_NODCBORDSN	"8" No DCB or DSN was specified in the transaction dump parmlist
120	(78)	X'9'	0	TDMPRSN_DCBANDDSN	"9" Both DCB and DSN were specified in the transaction dump parmlist
120	(78)	X'A'	0	TDMPRSN_BADDCBALET	"10" The ALET specified for the DCB in the transaction dump parmlist was not valid
120	(78)	X'B'	0	TDMPRSN_BADDCBADDR	"11" The DCB in the transaction dump parmlist was not addressable
120	(78)	X'C'	0	TDMPRSN_BADDSNALET	"12" The ALET specified for the DSN in the transaction dump parmlist was not valid
120	(78)	X'D'	0	TDMPRSN_BADDSNADDR	"13" The DSN in the transaction dump parmlist was not addressable
120	(78)	X'E'	0	TDMPRSN_NOHEADER	"14" No header was specified in the transaction dump parmlist
120	(78)	X'F'	0	TDMPRSN_BADHDRALET	"15" The ALET specified for the HDR in the transaction dump parmlist was not valid
120	(78)	X'10'	0	TDMPRSN_BADHDRADDR	"16" The HDR in the transaction dump parmlist was not addressable
120	(78)	X'11'	0	TDMPRSN_HDRTOOBIG	"17" The specified header was longer than 100 characters
120	(78)	X'12'	0	TDMPRSN_BADIDXALET	"18" The ALET specified for the IDX in the transaction dump parmlist was not valid
120	(78)	X'13'	0	TDMPRSN_BADIDXADDR	"19" The IDX in the transaction dump parmlist was not addressable
120	(78)	X'14'	0	TDMPRSN_IDXNOTVALID	"20" The specified dump index data set name was too long or not valid
120	(78)	X'15'	0	TDMPRSN_BADSYMRECALET	"21" The ALET specified for the SYMREC in the transaction dump parmlist was not valid
120	(78)	X'16'	0	TDMPRSN_BADSYMRECADDR	

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					"22" The SYMREC in the transaction dump parmlist was not addressable
120	(78)	X'17'	0	TDMPRSN_SYMRECNOTVALID	
					"23" The SYMREC in the transaction dump parmlist was not valid
120	(78)	X'18'	0	TDMPRSN_BADINTOKENALET	
					"24" The ALET specified for the INTOKEN in the transaction dump parmlist was not valid
120	(78)	X'19'	0	TDMPRSN_BADINTOKENADDR	
					"25" The INTOKEN in the transaction dump parmlist was not addressable
120	(78)	X'1A'	0	TDMPRSN_BADREMOTEALET	
					"26" The ALET specified for the REMOTE in the transaction dump parmlist was not valid
120	(78)	X'1B'	0	TDMPRSN_BADREMOTEADDR	
					"27" The REMOTE in the transaction dump parmlist was not addressable
120	(78)	X'1C'	0	TDMPRSN_REMOTENOTVALID	
					"28" The remote area in the transaction dump parmlist was not valid
120	(78)	X'1D'	0	TDMPRSN_BADLISTALET	
					"29" The ALET specified for the storage list in the transaction dump parmlist was not valid
120	(78)	X'1E'	0	TDMPRSN_BADLISTADDR	
					"30" The storage list in the transaction dump parmlist was not addressable
120	(78)	X'1F'	0	TDMPRSN_BADLISTRANGE	
					"31" A range in the storage list was not valid
120	(78)	X'20'	0	TDMPRSN_CALLERNOTAUTH	
					"32" The caller requested functions for which he was not authorized
120	(78)	X'21'	0	TDMPRSN_DSNAMENOTVALID	
					"33" The specified data set name was not valid
120	(78)	X'22'	0	TDMPRSN_DSNAMETOOLONG	
					"34" The specified data set name was too long
120	(78)	X'23'	0	TDMPRSN_DSNAMEBADSYMBOL	
					"35" The specified data set name contained bad symbols
120	(78)	X'24'	0	TDMPRSN_DSPSERVFAILED	
					"36" Unable to create the transaction dump dataspace
120	(78)	X'25'	0	TDMPRSN_ALESERVFAILED	
					"37" Unable to access the transaction dump dataspace
120	(78)	X'26'	0	TDMPRSN_ALLOCATFAILED	
					"38" Unable to allocate the transaction dump data set
120	(78)	X'27'	0	TDMPRSN_SUPPRESSEDBYDAE	
					"39" The dump was suppressed by DAE
120	(78)	X'28'	0	TDMPRSN_IOERROR	
					"40" An I/O error occurred writing to the data set

Comment

Transaction dump reason codes for return code = 12

End of Comment

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	

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					"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'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
TDMPALLNUC	8	40
TDMPASYNC	A	80
TDMPASYNCTARGET	A	2
TDMPCSA	8	20
TDMPDCB@	1C	
TDMPDCBALET	20	
TDMPDEFS	8	80
TDMPDSN@	24	
TDMPDSNALET	28	
TDMPDSPLIST@	6C	
TDMPDSPLISTALET	70	
TDMPDSPORIGIN	14	
TDMPDSPRECORDS@	18	
TDMPDSPSTOKEN	C	
TDMPECB@	74	
TDMPECBALET	78	
TDMPFLAGS1	A	
TDMPGRSQ	8	10
TDMPHDR@	2C	
TDMPHDRALET	30	
TDMPID	0	
TDMPIDX@	34	
TDMPIDXALET	38	
TDMPINTOKEN@	44	
TDMPINTOKENALET	48	
TDMPLEN	4	
TDMPLIST@	5C	
TDMPLISTALET	60	
TDMPLPA	8	8
TDMPLSQA	8	4
TDMPNUC	8	2
TDMPPROBDESC@	54	
TDMPPROBDESCALET	58	
TDMPPSA	9	8
TDMPRC_BADAD00RETURNCODE	78	10
TDMPRC_INTERNAL_ERROR	78	C
TDMPRC_NO_DUMP	78	8
TDMPRC_OK	78	0
TDMPRC_PARTIAL_DUMP	78	4
TDMPREMOTE	A	1
TDMPREMOTE@	4C	
TDMPREMOTEALET	50	
TDMPRGN	8	1
TDMPRSN_ALESERVFAILED	78	25
TDMPRSN_ALLOCATFAILED	78	26
TDMPRSN_BADDCBADDR	78	B
TDMPRSN_BADDCBALET	78	A
TDMPRSN_BADDSNADDR	78	D
TDMPRSN_BADDSNALET	78	C
TDMPRSN_BADHDRADDR	78	10
TDMPRSN_BADHDRALET	78	F
TDMPRSN_BADIDXADDR	78	13
TDMPRSN_BADIDXALET	78	12
TDMPRSN_BADINTOKENADDR	78	19
TDMPRSN_BADINTOKENALET	78	18
TDMPRSN_BADLISTADDR	78	1E
TDMPRSN_BADLISTALET	78	1D
TDMPRSN_BADLISTRANGE	78	1F
TDMPRSN_BADPARMADDR	78	5
TDMPRSN_BADPARMALET	78	4
TDMPRSN_BADPARMLENGTH	78	7
TDMPRSN_BADPARMVERSION	78	6

Name	Hex Offset	Hex Value
TDMPRSN_BADREMOTEADDR	78	1B
TDMPRSN_BADREMOTEALET	78	1A
TDMPRSN_BADSYMRECADDR	78	16
TDMPRSN_BADSYMRECALET	78	15
TDMPRSN_CALLERNOTAUTH	78	20
TDMPRSN_CHNGDUMPNODUMP	78	2
TDMPRSN_CONTENTIONDETECTED	78	2
TDMPRSN_DATASETTOOSMALL	78	1
TDMPRSN_DCBANDDSN	78	9
TDMPRSN_DSNAMEBADSYMBOL	78	23
TDMPRSN_DSNAMENOTVALID	78	21
TDMPRSN_DSNAMETOOLONG	78	22
TDMPRSN_DSPSERVFAILED	78	24
TDMPRSN_HDRTOOBIG	78	11
TDMPRSN_IDXNOTVALID	78	14
TDMPRSN_IOERROR	78	28
TDMPRSN_NODCBORDSN	78	8
TDMPRSN_NODSTABLE	78	5
TDMPRSN_NOESDSTOR	78	7
TDMPRSN_NOHEADER	78	E
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_PARMADDRZERO	78	1
TDMPRSN_RECOVERYRECEIVEDCONTROL	78	FF
TDMPRSN_REMOTENOTVALID	78	1C
TDMPRSN_SUPPRESSEDBYDAE	78	27
TDMPRSN_SUPPRESSEDBYSLIP	78	3
TDMPRSN_SYMRECNOTVALID	78	17

Name	Hex Offset	Hex Value
TDMPSDATA	8	
TDMPSDATA1	8	
TDMPSDATA2	9	
TDMPSQA	9	80
TDMPSUBPLST@	64	
TDMPSUBPLSTALET	68	
TDMPSUM	9	40
TDMPSWA	9	20
TDMPSYMREC@	3C	
TDMPSYMRECALET	40	
TDMPTRT	9	10
TDMPVERSION	6	
TDUMP	0	
TDUMP_LEN	78	7C

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'0048' 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 ASSBWCML field of the ASSB data area ASSBWSSS field of the ASSB data area ASSBWS3S field of the ASSB data area LCCACWEB field of the LCCA data area LCCAFWPP field of the LCCA data area LCCANWEB field of the LCCA data area LCCAPRMW field of the LCCA data area LCCAPWEB field of the LCCA data area LCCAWUQM field of the LCCA data area PWVTPWUQ field of the PWVT data area RRRAWEB field of the RRRA data area STCBWEB field of the STCB data area SRBWEB field of the SRB data area SVTSWUQ field of the SVT data area SVTXFWPP field of the SVTX data area WEBSUSPQ WEBPOOL WEBUNEXT WEBUPREV WEBWUQP WEBEnclaveNextWEB WEBEnclavePrevWEB WEBClientNextWEB WEBClientPrevWEB
Serialization:	Dependent on the specific field
Function:	Each dispatchable workunit is represented by a WEB. The WEB is used to locate work to be dispatched.

IHAWEB Map

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

Offsets Dec	Offsets 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	3	WEBFLAG1	WEB Flag bytes.
4	(4)	BITSTRING	1	WEBMISCFLGS	Miscellaneous flag byte.
		1...		WEBFLGSUM	"X'80'" Summary bit. This bit must be on when any bits are on in WEBFLAG1.
		.1..		WEBSRBACTIV	"X'40'" (S)SRB has been dispatched. It may have been stopped and not yet reset.
		..1.		WEBCMLABEND	"X'20'" The Dispatcher must ABEND this workunit. It holds the CML lock of a terminating address space.
		...1 1111		WEBMISCFLGSRSVD	"X'1F'" Reserved. Checked by IEAVEGR.
5	(5)	BITSTRING	1	WEBNDFLGS	Nondispatchability flags. All of the flags in this byte indicate some form of nondispatchability.
		1...		WEBLCLND	"X'80'" Suspended waiting for a Local lock.
		.1..		WEBCMLND	"X'40'" Suspended waiting for a CML lock.
		..1.		WEBCMSND	"X'20'" Suspended waiting for a CMS lock.
		...1		WEBSWAP	"X'10'" Workunit is nondispatchable due to swapout processing
		.... 1...		WEBPAUSED	"X'08'" Workunit is paused.
		.... .111		WEBNDFLGSRSVD	"X'07'" Reserved. Checked by IEAVEGR.
6	(6)	BITSTRING	1	WEBTYPEHALFWORDFIRSTBYTE	Reserved. Caution: if this byte ever gets used, then the fetching of WEBTYPE within IEAVWUQA must be changed from LH to SLR/IC.
7	(7)	SIGNED	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 WEBTCSRB or WEBTESRB to WEBTPSRB 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 WEBTCSRB 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_BYTE_1	First byte of WEB Lockword. Serialization: Compare and Swap. NOTE: All nonused bits must be zero.
		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.
		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.
16	(10)	SIGNED	4	WEBCPRTY	Workunit priority. Serialization: locking the WEB and ensuring it is not on a WUQ. It is F(31) so that a PL/X compare will be signed and show the header priority as negative.

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
16	(10)	CHARACTER	4	WEBCPRTYC	Workunit priority (char)
16	(10)	CHARACTER	2	WEBCMAJOR_BYTES	Major priority halfword.
16	(10)	BITSTRING	1	WEBCMAJFLG	Major priority flags.
		1...		WEBCHDR	"X'80'" WUQ Header priority (-1).
		.1..		WEBCGSRB	"X'40'" Global SRB priority.
		..1.		WEBCMAJFLGRSVD	"X'20'" Reserved. Checked by IEAVEGR.
		...1		WEBCMAST	"X'10'" Master address space priority.
		.... 11..		WEBCMAJFLGRSVD2	"X'0C'" Reserved. Checked by IEAVEGR.
		.... ..1.		WEBCLOGICALSWAPINPROMOTION	"X'02'" SRM thought RCT might be starved for CPU during logical swap in. Promotion lasts only until next dispatch.
		1		WEBCMAJFLGRSVD3	"X'01'" Reserved. Checked by IEAVEGR.
17	(11)	BITSTRING	1	WEBCMAJOR	ASCB (Major) priority.
18	(12)	CHARACTER	2	WEBCMINOR_BYTES	Minor priority halfword.
18	(12)	BITSTRING	1	WEBCMINFLG	Minor Priority flags.
		1...		WEBCLSRB	"X'80'" Default local SRB Priority.
		.1..		WEBCLLOCK	"X'40'" Locally locked priority.
		..11		WEBCMINFLGRSVD	"X'30'" Reserved. Checked by IEAVEGR.
		.... 1...		WEBCCMLP	"X'08'" CML lock promotion priority.
		.... .1..		WEBCEXIT	"X'04'" Async exit priority.
		.... ..1.		WEBCRCT	"X'02'" RCT priority.
		1		WEBCTIMESL	"X'01'" Workunit was interrupted prior to expiration of its timeslice.
19	(13)	BITSTRING	1	WEBCMINOR	TCB (Minor) priority.
20	(14)	ADDRESS	4	WEBHASCB	Home ASCB address. Serialization: only set during WEB initialization. Can only be referenced when running under the WEB or with the WEB locked.
20	(14)	ADDRESS	4	WEBPOOL	WEB Free Pool pointer. Serialization: locking the WEB (except during WEB initialization.)
24	(18)	ADDRESS	4	WEBUPTR	Work unit address TCB or (S)SRB address. Serialization: only set during intialization. Can only be referenced when running under the WEB or with the WEB locked.
24	(18)	SIGNED	2	WEBUHIGH	High order byte of WEBUPTR. Must be zero for WUQ header WEBs.
26	(1A)	SIGNED	2	WEBLOGICAL_CPUID	Logical CPU id of CPU for which this WEB is the WUQ 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.
		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.
		1...		WEBSUSPQ_HIGH_BIT	"X'80'" Used to manipulate high order bit of suspend queue forward link.
37	(25)	CHARACTER	3		
40	(28)	ADDRESS	4	WEBLSQP	Address of CMS lock (valid only when WEBCMSND is set) OR address of ASCB whose CML lock is being requested (valid only when WEBCMLND is set.) Serialization: Locking the WEB.

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
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.
		1...		WEBONCAPQ	"X'80'" When this bit is on, the WEB is on a cap queue.
48	(30)	SIGNED	4	WEBMISCWORD	Word containing MISCFLAGS
48	(30)	SIGNED	1	WEBCTSC	Current timeslice count
49	(31)	BITSTRING	1	WEBMISCFLAGS	Miscellaneous indicators byte. Serialization is the WEB lock.
		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.
		.... .1..		WEBQUEUEDAHEA4	"X'04'" A WEB of higher priority for this address space has been added in from of this one
		.... ..1.		WEBQUEUEDAHEA2	"X'02'" A WEB of higher priority for this address space has been added in from of this one
		1		WEBQUEUEDAHEAD	"X'01'" A WEB of higher priority for this address space has been added in from of this one
50	(32)	SIGNED	2	WEBPRIORITYID	AscbASID or EncbPseudoID for the appropriate ASCB/ENCB
52	(34)	CHARACTER	12	WEBUNION	
52	(34)	CHARACTER	12	WEBACCOUNTINGBLOCKINFO	These are the names used in the IPCS model. They are "common" to the other names in the union.
52	(34)	ADDRESS	4	WEBACCTBLKADDR	Address of the accounting block
56	(38)	ADDRESS	4	WEBACCTBLKNEXTWEB	Address of the next WEB on this chain
60	(3C)	ADDRESS	4	WEBACCTBLKPREVWEB	Address of the prev WEB on this chain
52	(34)	CHARACTER	12	WEBENCLAVEINFO	
52	(34)	ADDRESS	4	WEBENCLAVEADDR	Address of this workunit's ENCB, or 0. This value can only be used as an enclave address if the WEBTYPE is WEBTESRB. 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.
		1...		WEBOFF_EWQ	"X'80'" Indicates to global recovery that this WEB does not belong on an enclave related queue. Serialization: Enclave WEBQ lock.
52	(34)	CHARACTER	12	WEBCLIENTINFO	
52	(34)	ADDRESS	4	WEBCLIENTASCBADDR	

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					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.
		1...		WEBOFF_CWQ	"X'80'" Indicates to global recovery that this WEB does not belong on a client ASCB related queue.
64	(40)	ADDRESS	4	WEBNATIVECONTEXTPTR	
					Address of this work unit's Native Context. Serialization:
68	(44)	ADDRESS	4	WEBPRIVATECONTEXTPTR	
					Address of this work unit's Private Context Serialization:
72	(48)	CHARACTER	1	WEBEND (0)	End of WEB.
72	(48)	X'4'	0	WEBTSRB	"4" WEB represents an SRB.
72	(48)	X'8'	0	WEBTMSRB	"8" WEB represents a managed SRB (Global or Local created by IEAMSCHD). If also FULLXM, type FSRB is used instead of MSRB.
72	(48)	X'C'	0	WEBTSSRB	"12" WEB represents an SSRB.
72	(48)	X'10'	0	WEBTESRB	"16" WEB represents an Enclave SRB. The WEB's priority is derived from the Enclave. All enclave SRBs are preemptable-class.
72	(48)	X'14'	0	WEBTPSRB	"20" WEB represents a Preemptable SRB. All Preemptable SRBs are of the preemptable-class.
72	(48)	X'18'	0	WEBTFSRB	"24" WEB represents an SRB scheduled with the FULLXM keyword. If also Preemptable, enclaved, or client, that type is used instead of FSRB.
72	(48)	X'1C'	0	WEBTTCB	"28" WEB represents a TCB.
72	(48)	X'20'	0	WEBTEXIT	"32" WEB represents an Async Exit.
72	(48)	X'24'	0	WEBTCMLP	"36" WEB represents a CML Promotion.
72	(48)	X'28'	0	WEBTWUQH	"40" WEB represents a WUQ header.
72	(48)	X'2C'	0	WEBTFREE	"44" WEB is free.
72	(48)	X'30'	0	WEBTRSRB	"48" WEB represents a previously executing SRB which has been suspended by SUSPEND with token or by PAUSE or TRANSFER.
72	(48)	X'34'	0	WEBTCSRB	"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.
72	(48)	X'38'	0	WEBTETCB	"56" WEB represents an enclave TCB. The WEB's priority is derived from the enclave.
72	(48)	X'0'	0	WEBTERROR	"0" WEB is in error
72	(48)	X'80'	0	WEBENCRDYCOUNTBITCONST	
					"128" Bit constant for bit position WEBEncRdyCount. Used by assembler macro generated in PL/X code.
72	(48)	X'40'	0	WEBENCLLSUSQCOUNTBITCONST	
					"64" Bit constant for bit position WEBEncLLSusQCount. Used by assembler macro generated in PL/X code.
72	(48)	X'C5C240'	0	WEBWEBCHARS	"C'WEB '" Acronym
72	(48)	X'E6C5C2'	0	ERRORWEBWEBCHARS	
					"C'EWEB'" Acronym
72	(48)	X'48'	0	WEB_LEN	"*-WEB"

IHAWEB Cross Reference

Name	Hex Offset	Hex Value
ERRORWEBWEBCHARS		
	48	E6C5C2
WEB	0	
WEB_LEN	48	48
WEBACCOUNTINGBLOCKINFO		
	34	
WEBACCTBLKADDR		
	34	
WEBACCTBLKNEXTWEB		
	38	
WEBACCTBLKPREVWEB		
	3C	
WEBCAPQ	2C	
WEBCCMLP	12	8
WEBCEXIT	12	4
WEBCGSRB	10	40
WEBCHDR	10	80
WEBCLIENTASCBADDR		
	34	
WEBCLIENTINFO		
	34	
WEBCLIENTNEXTWEB		
	38	
WEBCLIENTPREVWEB		
	3C	
WEBCLLOCK	12	40
WEBCLOGICALSWAPINPROMOTION		
	10	2
WEBCLSRB	12	80
WEBCMAJFLG	10	
WEBCMAJFLGRSVD		
	10	20
WEBCMAJFLGRSVD2		
	10	C
WEBCMAJFLGRSVD3		
	10	1
WEBCMAJOR	11	
WEBCMAJOR_BYTES		
	10	
WEBCMAST	10	10
WEBCMINFLG	12	
WEBCMINFLGRSVD		
	12	30
WEBCMINOR	13	
WEBCMINOR_BYTES		
	12	
WEBCMLABEND	4	20
WEBCMLND	5	40
WEBCMSND	5	20
WEBCPRTY	10	
WEBCPRTYC	10	
WEBCRCT	12	2
WEBCTIMESL	12	1
WEBCTSC	30	
WEBENCLAVEADDR		
	34	
WEBENCLAVEINFO		
	34	
WEBENCLAVENEXTWEB		
	38	
WEBENCLAVEPREVWEB		
	3C	
WEBENCLLSUSQCOUNT		
	31	40
WEBENCLLSUSQCOUNTBITCONST		
	48	40
WEBENCRDYCOUNT		
	31	80
WEBENCRDYCOUNTBITCONST		
	48	80
WEBEND	48	
WEBFLAG1	4	
WEBFLGSUM	4	80
WEBHASCB	14	
WEBLCLND	5	80
WEBLOCK	8	
WEBLOCK_CPUID		
	A	
WEBLOCKDWORD	8	
WEBLOCKWORD_BYTE_1		
	8	
WEBLOGICAL_CPUID		
	1A	
WEBLSQP	28	
WEBMISCFLAGS	31	
WEBMISCFLGS	4	
WEBMISCFLGSRSVD		
	4	1F
WEBMISCWORD	30	
WEBNATIVECONTEXTPTR		
	40	
WEBNDFLGS	5	
WEBNDFLGSRSVD		
	5	7
WEBOFF_AWQ	20	80
WEBOFF_CWQ	3C	80
WEBOFF_EWQ	3C	80
WEBOFFQ	C	80
WEBON_FREE_Q	8	80
WEBONCAPQ	2C	80
WEBPAUSED	5	8
WEBPOOL	14	
WEBPRIORITYID		
	32	
WEBPRIVATECONTEXTPTR		
	44	
WEBQUEUEDAHEAD		
	31	1
WEBQUEUEDAHEA2		
	31	2
WEBQUEUEDAHEA4		
	31	4
WEBRESUMETASKONSUSPEND		
	31	10
WEBR009	9	
WEBSRBACTIV	4	40
WEBSUSPQ	24	
WEBSUSPQ_BYTE_1		
	24	
WEBSUSPQ_HIGH_BIT		
	24	80
WEBSWAP	5	10
WEBSYNCH	31	20
WEBTCMLP	48	24
WEBTCSRB	48	34
WEBTERROR	48	0

Name	Hex Offset	Hex Value
WEBTESRB	48	10
WEBTETCB	48	38
WEBTEXIT	48	20
WEBTFREE	48	2C
WEBTFSRB	48	18
WEBTMSRB	48	8
WEBTPSRB	48	14
WEBTRSRB	48	30
WEBTSRB	48	4
WEBTSSRB	48	C
WEBTTCB	48	1C
WEBTWUQH	48	28
WEBTYPE	7	
WEBTYPEHALFWORDFIRSTBYTE	6	
WEBTYPEWORD	4	
WEBUHIGH	18	
WEBUNEXT	1C	
WEBUNION	34	
WEBUPREV	20	
WEBUPTR	18	
WEBWEB	0	
WEBWEBCHARS	48	C5C240
WEBWUQP	C	

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: 64 bytes
Created by: IEAVWPM
Pointed to by: SVTWEEF field of the SVT data area
SVTXWEEL 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		

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)	BITSTRING	48	WEER010	Reserved.
64	(40)	DBL WORD	8	WEEEND (0)	- End of WEE.
64	(40)	DBL WORD	8	WEEWEBS (0)	The WEBs in this Extent.

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IHLMGTRC Programming Interface information

Programming Interface information

IHLMGTRC

End of Programming Interface information

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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

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	BITSTRING	0	IMDGPD37	"X'FD3'" 4051
0	(0)	BITSTRING	0	IMDGPD36	"X'FD2'" 4050
0	(0)	BITSTRING	0	IMDGPD35	"X'FD1'" 4049
0	(0)	BITSTRING	0	IMDGPD34	"X'FD0'" 4048
0	(0)	BITSTRING	0	IMDGPD33	"X'FCF'" 4047
0	(0)	BITSTRING	0	IMDGPD32	"X'FCE'" 4046
0	(0)	BITSTRING	0	IMDGPD31	"X'FCD'" 4045
0	(0)	BITSTRING	0	IMDGPD30	"X'FCC'" 4044
0	(0)	BITSTRING	0	IMDGPD29	"X'FCB'" 4043
0	(0)	BITSTRING	0	IMDGPD28	"X'FCA'" 4042
0	(0)	BITSTRING	0	IMDGPD27	"X'FC9'" 4041
0	(0)	BITSTRING	0	IMDGPD26	"X'FC8'" 4040
0	(0)	BITSTRING	0	IMDGPD25	"X'FC7'" 4039
0	(0)	BITSTRING	0	IMDGPD24	"X'FC6'" 4038
0	(0)	BITSTRING	0	IMDGPD23	"X'FC5'" 4037
0	(0)	BITSTRING	0	IMDGPD22	"X'FC4'" 4036
0	(0)	BITSTRING	0	IMDGPD21	"X'FC3'" 4035
0	(0)	BITSTRING	0	IMDGPD20	"X'FC2'" 4034
0	(0)	BITSTRING	0	IMDGPD19	"X'FC1'" 4033
0	(0)	BITSTRING	0	IMDGPD18	"X'FC0'" 4032
0	(0)	BITSTRING	0	IMDGPD17	"X'FBF'" 4031
0	(0)	BITSTRING	0	IMDGPD16	"X'FBE'" 4030
0	(0)	BITSTRING	0	IMDGPD15	"X'FBD'" 4029
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	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

IHLMGTRC Cross Reference

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

IHLMGTRC Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
IDAAM01	0	FF5	IMDGPD04	0	FB2
IGGSP002	0	FF3	IMDGPD05	0	FB3
IGGSP008	0	FF4	IMDGPD06	0	FB4
IGGSP112	0	FF6	IMDGPD07	0	FB5
IGGSP119	0	FF8	IMDGPD08	0	FB6
IGGSP145	0	FFB	IMDGPD09	0	FB7
IGGSP169	0	FFE	IMDGPD10	0	FB8
IGGSP215	0	FF7	IMDGPD11	0	FB9
IGGSP235	0	FF9	IMDGPD12	0	FBA
IGGSP239	0	FFA	IMDGPD13	0	FBB
IGGSP251	0	FFC	IMDGPD14	0	FBC
IGGSP451	0	FFD	IMDGPD15	0	FBD
IHLMDMA1	0	FFF	IMDGPD16	0	FBE
IMDCICS	0	F6C	IMDGPD17	0	FBF
IMDDB2VT	0	F5F	IMDGPD18	0	FC0
IMDFSITA	0	F5A	IMDGPD19	0	FC1
IMDFSITB	0	F5B	IMDGPD20	0	FC2
IMDFSITC	0	F5C	IMDGPD21	0	FC3
IMDFSITD	0	F5D	IMDGPD22	0	FC4
IMDFSIT4	0	F54	IMDGPD23	0	FC5
IMDFSIT5	0	F55	IMDGPD24	0	FC6
IMDFSIT6	0	F56	IMDGPD25	0	FC7
IMDFSIT7	0	F57	IMDGPD26	0	FC8
IMDFSIT8	0	F58	IMDGPD27	0	FC9
IMDFSIT9	0	F59	IMDGPD28	0	FCA
IMDGPD00	0	FAC	IMDGPD29	0	FCB
IMDGPD01	0	FAF	IMDGPD30	0	FCC
IMDGPD02	0	FB0	IMDGPD31	0	FCD
IMDGPD03	0	FB1	IMDGPD32	0	FCE

Name	Hex Offset	Hex Value
IMDGPD33	0	FCF
IMDGPD34	0	FD0
IMDGPD35	0	FD1
IMDGPD36	0	FD2
IMDGPD37	0	FD3
IMDGPD38	0	FD4
IMDGPD39	0	FD5
IMDGPD40	0	FD6
IMDGPD41	0	FD7
IMDGPD42	0	FD8
IMDGPD43	0	FD9
IMDGPD44	0	FDA
IMDGPD45	0	FDB
IMDGPD46	0	FDC
IMDGPD47	0	FDD
IMDGPD48	0	FDE
IMDGPD49	0	FDF
IMDGPD50	0	FE0
IMDLANRA	0	F29
IMDLANRB	0	F2A
IMDLANRC	0	F2B
IMDLANRD	0	F2C
IMDLANRE	0	F2D
IMDLANRF	0	F2E
IMDLANRG	0	F2F
IMDLANRH	0	F30
IMDLANRI	0	F31
IMDLANRJ	0	F32
IMDLANRK	0	F33
IMDLANRL	0	F34
IMDLANRM	0	F35
IMDLANRN	0	F36
IMDLANRO	0	F37
IMDLANRP	0	F38
IMDLANRQ	0	F39
IMDLANRR	0	F3A
IMDLANRS	0	F3B
IMDLANRT	0	F3C
IMDLANRU	0	F3D
IMDLANRV	0	F3E
IMDLANRW	0	F3F
IMDLANR1	0	F20
IMDLANR2	0	F21
IMDLANR3	0	F22
IMDLANR4	0	F23
IMDLANR5	0	F24
IMDLANR6	0	F25
IMDLANR7	0	F26
IMDLANR8	0	F27
IMDLANR9	0	F28
IMDOSIC	0	F53
IMDTCAM0	0	FA0
IMDTCAM1	0	FA1
IMDTCAM2	0	FA2
IMDTCAM3	0	FA3
IMDTCAM4	0	FA4
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 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.

IHSA Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	1360	IHSA	
0	(0)	CHARACTER	8	IHSACPUT	VALUE OF CPU TIMER
8	(8)	SIGNED	4	IHSANTCB	VALUE OF PSATNEW
12	(C)	SIGNED	4	IHSAOTCB	VALUE OF PSATOLD
16	(10)	CHARACTER	8	IHSACPSW	VALUE OF CURRENT PSW
24	(18)	CHARACTER	32	IHSAFPRS	FLOATING POINT REG SAVE AREA
24	(18)	CHARACTER	8	IHSAFPR0	FLOATING POINT REG 0
32	(20)	CHARACTER	8	IHSAFPR2	FLOATING POINT REG 2
40	(28)	CHARACTER	8	IHSAFPR4	FLOATING POINT REG 4
48	(30)	CHARACTER	8	IHSAFPR6	FLOATING POINT REG 6
56	(38)	CHARACTER	64	IHSAGPRS	GENERAL REGISTER SAVE AREA
120	(78)	CHARACTER	8	IHSAR078	RESERVED
128	(80)	ADDRESS	4	IHSAXSB	ADDRESS OF EXTENDED STATUS BLOCK (XSB)
132	(84)	BITSTRING	1	IHSAFLGS	IHSA FLAGS
		1...		IHSANSS	ONE OR MORE FRRS ESTABLISHED WITH EUT=YES
133	(85)	CHARACTER	3	IHSAR085	RESERVED
136	(88)	CHARACTER	64	IHSAARS	ACCESS REGISTER SAVE AREA.
136	(88)	UNSIGNED	4	IHSAAR0	ACCESS REGISTER 0 SAVE AREA.
140	(8C)	UNSIGNED	4	IHSAAR1	ACCESS REGISTER 1 SAVE AREA.
144	(90)	UNSIGNED	4	IHSAAR2	ACCESS REGISTER 2 SAVE AREA.
148	(94)	UNSIGNED	4	IHSAAR3	ACCESS REGISTER 3 SAVE AREA.
152	(98)	UNSIGNED	4	IHSAAR4	ACCESS REGISTER 4 SAVE AREA.
156	(9C)	UNSIGNED	4	IHSAAR5	ACCESS REGISTER 5 SAVE AREA.
160	(A0)	UNSIGNED	4	IHSAAR6	ACCESS REGISTER 6 SAVE AREA.
164	(A4)	UNSIGNED	4	IHSAAR7	ACCESS REGISTER 7 SAVE AREA.
168	(A8)	UNSIGNED	4	IHSAAR8	ACCESS REGISTER 8 SAVE AREA.
172	(AC)	UNSIGNED	4	IHSAAR9	ACCESS REGISTER 9 SAVE AREA.
176	(B0)	UNSIGNED	4	IHSAAR10	ACCESS REGISTER 10 SAVE AREA.
180	(B4)	UNSIGNED	4	IHSAAR11	ACCESS REGISTER 11 SAVE AREA.
184	(B8)	UNSIGNED	4	IHSAAR12	ACCESS REGISTER 12 SAVE AREA.
188	(BC)	UNSIGNED	4	IHSAAR13	ACCESS REGISTER 13 SAVE AREA.
192	(C0)	UNSIGNED	4	IHSAAR14	ACCESS REGISTER 14 SAVE AREA.
196	(C4)	UNSIGNED	4	IHSAAR15	ACCESS REGISTER 15 SAVE AREA.
200	(C8)	ADDRESS	4	IHSALSDP	LINKAGE STACK ENTRY DESCRIPTOR (LSED) POINTER.
204	(CC)	CHARACTER	984	IHSAFRRS	FRR STACK SAVEAREA
1188	(4A4)	CHARACTER	4	IHSAR4A4	RESERVED
1192	(4A8)	CHARACTER	100	IHSAAFPR	FPRS 1,3,5,7-15,FPCR
1292	(50C)	CHARACTER	4	IHSAR50C	RESERVED
1296	(510)	CHARACTER	64	IHSAG64H	HIGH ORDER HALVES OF 64-BIT GPRS

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IHSA Cross Reference

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
1360	(550)	CHARACTER	0	IHSAEND	DOUBLE WORD ALIGN

IHSA Cross Reference

Name	Hex Offset	Hex Value
IHSA	0	
IHSAAFPR	4A8	
IHSAARS	88	
IHSAAR0	88	
IHSAAR1	8C	
IHSAAR10	B0	
IHSAAR11	B4	
IHSAAR12	B8	
IHSAAR13	BC	
IHSAAR14	C0	
IHSAAR15	C4	
IHSAAR2	90	
IHSAAR3	94	
IHSAAR4	98	
IHSAAR5	9C	
IHSAAR6	A0	
IHSAAR7	A4	
IHSAAR8	A8	
IHSAAR9	AC	
IHSACPSW	10	
IHSACPUT	0	
IHSAEND	550	
IHSAFLGS	84	
IHSAFPRS	18	
IHSAFPR0	18	
IHSAFPR2	20	
IHSAFPR4	28	
IHSAFPR6	30	
IHSAFRRS	CC	
IHSAGPRS	38	
IHSAG64H	510	
IHSALSDP	C8	
IHSANSS	84	80
IHSANTCB	8	
IHSAOTCB	C	
IHSAR078	78	
IHSAR085	85	
IHSAR4A4	4A4	
IHSAR50C	50C	
IHSAXSB	80	

IIT Heading Information

Common Name: IPL Information Table
Macro ID: IOSDIIT
DSECT Name: IIT, IITMLTNL, ITTDDTNL, ITTERPNL
Owning Component: I/O Supervisor (SC1C3)
Eye-Catcher ID: IIT
Offset: Offset 0 and length 4
Subpool and Key: During MVSCP execution: Subpool 2 and user's key
During IPL: IPL work space
Size: Variable length
Created by: IPL Information Table (IIT) Build Routine
Pointed to by: IVTIITP field of the IVT (during IPL)
Serialization: None
Function: The IPL Information Table contains the MLT Name List, DDT Name List, and Resident ERP Name List.

IIT 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	IITMLTLP	Pointer to the Module Lists Table (MLT) Name List
24	(18)	SIGNED	4	IITMLTCT	Number of MLT names in list
28	(1C)	ADDRESS	4	IITDDTLP	Pointer to the Device Descriptor Table (DDT) Name List
32	(20)	SIGNED	4	IITDDTCT	Number of DDT names in list
36	(24)	ADDRESS	4	IITERPLP	Pointer to the Resident ERP Name List
40	(28)	SIGNED	4	IITERPCT	Number of Resident ERP names in list
44	(2C)	CHARACTER	10	IITVERS	MVSCP version
54	(36)	CHARACTER	1	IITCMPT	Compatibility byte (used to detect if the level of MVS is compatible with the I/O configuration data built by the MVSCP)
55	(37)	CHARACTER	1	*	Reserved, must be zero
56	(38)	CHARACTER	16	*	Reserved, must be zero

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
		1...		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)

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Offsets Dec	Offsets 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).		
			End of Comment	
4	CHARACTER	IIT	IITCBID	IIT identifier

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 Programming Interface information

Programming Interface information

IKJTAIE

End of Programming Interface information

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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	

ILMXSLM Programming Interface information

Programming Interface information

ILMXSLM

End of Programming Interface information

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ILMXSLM Heading Information

Common Name: License Manager Interface Definition File
Macro ID: ILMXSLM
DSECT Name: none
Owning Component: ILM (SCSLM)
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: Interface Definitions

ILMXSLM Map

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0		
0	(0)	X'0'	0	XSLM_UINT32_NULL	"0"
0	(0)	X'1'	0	XSLM_CERT_AUTH_NONE	"1"
0	(0)	X'2'	0	XSLM_CERT_AUTH_PUB_KEY	"2"
0	(0)	X'FFFFFF'	0	XSLM_ID_NO_FEATURE_0TO3	"C' '" This is the first 4-byte segment of an 8-byte constant.
0	(0)	X'FFFFF0'	0	XSLM_ID_NO_FEATURE_4TO7	"C' 0'" This is the second 4-byte segment of an 8-byte constant.
0	(0)	BITSTRING	0	XSLM_CAPACITY_UNITS_NO_LIMIT	"X'7FF00000'"
0	(0)	BITSTRING	0	XSLM_NODES_NO_LIMIT	"X'FFFFFFFF'"
0	(0)	X'1'	0	XSLM_PRODUCT_TYPE	"1"
0	(0)	X'2'	0	XSLM_PUBLISHER_TYPE	"2"
0	(0)	BITSTRING	0	XSLM_SERIAL_NUMBER_VIRTUAL	"X'FFFFFFF0'"

Comment

IBM Options

End of Comment

0	(0)	X'0'	0	XSLM_ILM_FAILMSG_YES	"0"
0	(0)	X'0'	0	XSLM_ILM_FAILMSG_NO	"1073741824"
0	(0)	X'0'	0	XSLM_ILM_COND_NO	"0"
0	(0)	X'0'	0	XSLM_ILM_COND_YES	"536870912" Conditional license obtain. FailMsg_No is always done.
0	(0)	X'0'	0	XSLM_ILM_PRODCERTONLY_NO	"0"
0	(0)	X'0'	0	XSLM_ILM_PRODCERTONLY_YES	"268435456"

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
				Comment	
Return and status codes					
				End of Comment	
0	(0)	X'0'	0	XSLM_OK	"0"
				Comment	
Status codes for grants from product certificate					
				End of Comment	
0	(0)	X'0'	0	XSLM_STATUS_OK	"0"
0	(0)	X'40'	0	XSLM_IN_EXCEPTION_MODE	"64"
0	(0)	X'80'	0	XSLM_IN_RECOVERY_MODE	"128"
				Comment	
Status codes for grants from global certificate					
				End of Comment	
0	(0)	X'A0'	0	XSLM_IN_OBSERVATION_MODE	"160"
0	(0)	X'90'	0	XSLM_IN_EMERGENCY_MODE	"144"
0	(0)	X'90'	0	XSLM_IN_EMERGENCY_AUTO_MODE	"144"
0	(0)	X'98'	0	XSLM_IN_EMERGENCY_MANUAL_MODE	"152"
0	(0)	X'200'	0	XSLM_COMM_ERR	"512"
0	(0)	X'440'	0	XSLM_LIC_SYS_NOT_RESP	"1088"
0	(0)	X'300'	0	XSLM_NO_SVRS_FOUND	"768"
0	(0)	X'400'	0	XSLM_CERT_ERR	"1024"
0	(0)	X'A40'	0	XSLM_NO_CERTIFICATES	"2624"
0	(0)	X'180'	0	XSLM_CERT_NOT_STARTED	"384"
0	(0)	X'C0'	0	XSLM_NOT_ENOUGH_CAPACITY	"192"
0	(0)	X'140'	0	XSLM_NO_LICS	"320"
0	(0)	X'240'	0	XSLM_NO_MATCHING_NODE	"576"
0	(0)	X'200'	0	XSLM_NO_MATCHING_USERID	"512"
0	(0)	X'2C0'	0	XSLM_INVALID_PUBLIC_KEY	"704"
0	(0)	X'600'	0	XSLM_RESRC_UNAVL	"1536"
0	(0)	X'380'	0	XSLM_NO_RES	"896"
0	(0)	X'8000'	0	XSLM_NOT_SUPPORTED	"32768"
0	(0)	X'800'	0	XSLM_PARM_ERR	"2048"
0	(0)	X'500'	0	XSLM_BAD_LICENSE_HANDLE	"1280"
0	(0)	X'3C0'	0	XSLM_BAD_PARM	

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					"960"
0	(0)	X'480'	0	XSLM_INVALID_API_USE	
					"1152"
0	(0)	X'20100'	0	XSLM_ILM_TOO_MANY	
					"131328"
0	(0)	X'20101'	0	XSLM_ILM_OVERLAPPING_REQUESTS	
					"131329"
0	(0)	X'20102'	0	XSLM_ILM_UNEXPECTED_ERROR	
					"131330"
0	(0)	X'20103'	0	XSLM_ILM_SIGNAL_RECEIVED	
					"131331"
0	(0)	X'20105'	0	XSLM_ILM_REQ_FROM_RESMGR	
					"131333"
0	(0)	X'20106'	0	XSLM_ILM_BAD_CERT_AUTH_TYPE	
					"131334"
0	(0)	X'20107'	0	XSLM_ILM_BAD_PUB_KEY_LENGTH	
					"131335" The length of the key is too big or, only when the CERT_AUTH_TYPE indicates "public key", is 0.
0	(0)	X'20108'	0	XSLM_ILM_PPVF_RESERVED_VALUE	
					"131336" The publisher ID, product ID, version ID, or feature ID on a license request contains a reserved value. Publisher ID must not be XSLM_UUID_ANY and must not be XSLM_UUID_NULL. Product, version, or feature ID must not be XSLM_ID_ANY and must not be XSLM_ID_NULL.
0	(0)	X'20020'	0	XSLM_ILM_OPSYS_SPECIAL_OK	
					"131104"

Comment

Avoid using values 00211xx

End of Comment

0	(0)	X'21300'	0	XSLM_ILM_NO_MATCHING_CAPACITY_IDENTIFIER	
					"135936"
0	(0)	X'21304'	0	XSLM_ILM_CERTIFICATE_DISABLED	
					"135940" The only certificate that was found for the product was disabled
0	(0)	X'21305'	0	XSLM_ILM_CERTIFICATE_INCOMPLETE	
					"135941" The only certificate that was found for the product had not been completed -- some assignment remained to be done
0	(0)	X'21306'	0	XSLM_ILM_CERTIFICATE_EXPIRED	
					"135942" The only certificate that was found for the product had expired
0	(0)	X'21308'	0	XSLM_ILM_MODE_DISABLED	
					"135944" The only certificate that was found for the product was disabled for the mode in which the license might have been granted (for example, it was disabled for exception mode)
0	(0)	X'21410'	0	XSLM_ILM_GRANT_WITHOUT_CERT_PROMPT	
					"136208" The license was granted without checking any certificates because the application agent had not yet synchronized with the license server and no valid ILMLIB data set had been provided and the reply to message ILMP200A was YES
0	(0)	X'21411'	0	XSLM_ILM_GRANT_WITHOUT_CERT_FIRSTIPL	
					"136209" The license was granted without checking any certificates because the system was in FIRSTIPL mode.

Comment

Status codes 00021413 through 0002141F are reserved for other grant-without-certificate cases

End of Comment

0	(0)	X'21420'	0	XSLM_ILM_DENY_WITHOUT_CERT

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
					"136224" The license was denied without checking any certificates because the application agent had not yet synchronized with the license server and no valid ILMLIB data set had been provided and the response to message ILMP200A was not YES.
0	(0)	X'E00'	0	XSLM_SYSTEM_ERR	"3584"

ILMXSLM Cross Reference

Name	Hex Offset	Hex Value
XSLM_BAD_LICENSE_HANDLE	0	500
XSLM_BAD_PARM	0	3C0
XSLM_CAPACITY_UNITS_NO_LIMIT	0	F00000
XSLM_CERT_AUTH_NONE	0	1
XSLM_CERT_AUTH_PUB_KEY	0	2
XSLM_CERT_ERR	0	400
XSLM_CERT_NOT_STARTED	0	180
XSLM_COMM_ERR	0	200
XSLM_ID_NO_FEATURE_0TO3	0	FFFFFF
XSLM_ID_NO_FEATURE_4TO7	0	FFFFF0
XSLM_ILM_BAD_CERT_AUTH_TYPE	0	20106
XSLM_ILM_BAD_PUB_KEY_LENGTH	0	20107
XSLM_ILM_CERTIFICATE_DISABLED	0	21304
XSLM_ILM_CERTIFICATE_EXPIRED	0	21306
XSLM_ILM_CERTIFICATE_INCOMPLETE	0	21305
XSLM_ILM_COND_NO	0	0
XSLM_ILM_COND_YES	0	0
XSLM_ILM_DENY_WITHOUT_CERT	0	21420
XSLM_ILM_FAILMSG_NO	0	0
XSLM_ILM_FAILMSG_YES	0	0
XSLM_ILM_GRANT_WITHOUT_CERT_FIRSTIPL	0	21411
XSLM_ILM_GRANT_WITHOUT_CERT_PROMPT	0	21410
XSLM_ILM_MODE_DISABLED	0	21308
XSLM_ILM_NO_MATCHING_CAPACITY_IDENTIFIER	0	21300
XSLM_ILM_OPSYS_SPECIAL_OK	0	20020
XSLM_ILM_OVERLAPPING_REQUESTS	0	20101
XSLM_ILM_PPVF_RESERVED_VALUE	0	20108
XSLM_ILM_PRODCERTONLY_NO	0	0
XSLM_ILM_PRODCERTONLY_YES	0	0
XSLM_ILM_REQ_FROM_RESMGR	0	20105
XSLM_ILM_SIGNAL_RECEIVED	0	20103
XSLM_ILM_TOO_MANY	0	20100
XSLM_ILM_UNEXPECTED_ERROR	0	20102
XSLM_IN_EMERGENCY_AUTO_MODE	0	90
XSLM_IN_EMERGENCY_MANUAL_MODE	0	98
XSLM_IN_EMERGENCY_MODE	0	90
XSLM_IN_EXCEPTION_MODE	0	40
XSLM_IN_OBSERVATION_MODE	0	A0
XSLM_IN_RECOVERY_MODE	0	80
XSLM_INVALID_API_USE	0	480
XSLM_INVALID_PUBLIC_KEY	0	2C0
XSLM_LIC_SYS_NOT_RESP	0	440
XSLM_NO_CERTIFICATES	0	A40
XSLM_NO_LICS	0	140
XSLM_NO_MATCHING_NODE	0	240
XSLM_NO_MATCHING_USERID	0	200
XSLM_NO_RES	0	380
XSLM_NO_SVRS_FOUND	0	300
XSLM_NODES_NO_LIMIT	0	FFFFFF
XSLM_NOT_ENOUGH_CAPACITY	0	C0
XSLM_NOT_SUPPORTED	0	8000
XSLM_OK	0	0
XSLM_PARM_ERR	0	800
XSLM_PRODUCT_TYPE		

ILMXSLM Cross Reference

Name	Hex Offset	Hex Value
	0	1
XSLM_PUBLISHER_TYPE		
	0	2
XSLM_RESRC_UNAVL		
	0	600
XSLM_SERIAL_NUMBER_VIRTUAL		
	0	FFFFF0
XSLM_STATUS_OK		
	0	0
XSLM_SYSTEM_ERR		
	0	E00
XSLM_UINT32_NULL		
	0	0

IMCB Heading Information

Common Name:	SYSTEM RESOURES 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

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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 Programming Interface information

Programming Interface information

IMDMEDIT

End of Programming Interface information

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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		IMDMDSP1	"X'0001'" DISPATCHER
0	(0)	X'1'	0	IEADISP1	"IMDMDSP1" DISPATCHER
		.... ..1.		IMDMDSP2	"X'0002'" DISPATCHER
0	(0)	X'2'	0	IEADISP2	"IMDMDSP2" DISPATCHER
		11		IMDMDSP	"X'0003'" DISPATCHER
		11		IMDMDSP3	"X'0003'" DISPATCHER
0	(0)	X'3'	0	IEADISP3	"IMDMDSP3" DISPATCHER
		.... .1..		IMDMDSP4	"X'0004'" SVC EXIT PROLOG DISPATCH
0	(0)	X'4'	0	IEADISP4	"IMDMDSP4" 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	IECPCIX	"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

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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	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 INTERRUPT
0	(0)	X'5201'	0	IECIO1	"IMDMIO1" I/O INTERRUPT
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	IMDMPI	"X'6101'" PROGRAM INTERRUPT
0	(0)	X'6101'	0	IEAPINT	"IMDMPI" PROGRAM INTERRUPT
0	(0)	BITSTRING	0	IMDMTINT	"X'6200'" PFLIH
0	(0)	X'6200'	0	IEATINT	"IMDMTINT" PFLIH
0	(0)	BITSTRING	0	IMDMEXT	"X'6201'" EXTERNAL INTERRUPT
0	(0)	X'6201'	0	IEAEINT	"IMDMEXT" EXTERNAL INTERRUPT
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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'E5F0'" Host Command Facilities
0	(0)	BITSTRING	0	IMDE5F1	"X'E5F1'" VM Group Control Subsystem
0	(0)	BITSTRING	0	IMDE5F4	"X'E5F4'" Netview Session Monitor
0	(0)	BITSTRING	0	IMDE5F5	"X'E5F5'" Netview Session Monitor
0	(0)	BITSTRING	0	IMDE5F6	"X'E5F6'" Netview
0	(0)	BITSTRING	0	IMDE5FA	"X'E5FA'" ALCS
0	(0)	BITSTRING	0	IMDE5FB	"X'E5FB'" ALCS
0	(0)	BITSTRING	0	IMDLANR1	"X'EF20'" LANRES
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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

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
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0	(0)	BITSTRING	0	IMDLANRL	"X'EF34'" LANRES
0	(0)	BITSTRING	0	IMDLANRM	"X'EF35'" LANRES
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0	(0)	BITSTRING	0	IMDLANRO	"X'EF37'" LANRES
0	(0)	BITSTRING	0	IMDLANRP	"X'EF38'" LANRES
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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
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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
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0	(0)	BITSTRING	0	IMDFSITD	"X'EF5D'" FSI TRACE
0	(0)	BITSTRING	0	IMDDB2VT	"X'EF5F'" DB2/VSAM TRANSPARENCY
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0	(0)	BITSTRING	0	IMDEF63	"X'EF63'" Converter/Interpreter installation exit
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0	(0)	BITSTRING	0	IMDCICS	"X'EF6C'" CICS
0	(0)	BITSTRING	0	IMDEF6D	"X'EF6D'" Netware
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Offsets					
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0	(0)	BITSTRING	0	IMDEFAD	"X'EFAD'" VM Group Control Subsystem
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0	(0)	BITSTRING	0	IMDGPD29	"X'EFCB'" RESERVED FOR GPD
0	(0)	BITSTRING	0	IMDGPD30	"X'EFCC'" RESERVED FOR GPD
0	(0)	BITSTRING	0	IMDGPD31	"X'EFCD'" RESERVED FOR GPD
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Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
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0	(0)	BITSTRING	0	IMDGPD43	"X'EFD9'" RESERVED FOR GPD
0	(0)	BITSTRING	0	IMDGPD44	"X'EFDA'" RESERVED FOR GPD
0	(0)	BITSTRING	0	IMDGPD45	"X'EFDB'" RESERVED FOR GPD
0	(0)	BITSTRING	0	IMDGPD46	"X'EFDC'" RESERVED FOR GPD
0	(0)	BITSTRING	0	IMDGPD47	"X'EFDD'" RESERVED FOR GPD
0	(0)	BITSTRING	0	IMDGPD48	"X'EFDE'" RESERVED FOR GPD
0	(0)	BITSTRING	0	IMDGPD49	"X'EFDF'" RESERVED FOR GPD
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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
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0	(0)	BITSTRING	0	ISTTPEID	"X'EFEF'" ACF/VTAM USER BUFFER CONTENTS TRACE
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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
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0	(0)	BITSTRING	0	IMDMDMA1	"X'EFFF'" OPEN/CLOSE/EOV

IMDMEDIT Cross Reference

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IEADISP1	0	1	IECEOS	0	5101
IEADISP2	0	2	IECEOSX	0	5107
IEADISP3	0	3	IECHSCH	0	5103
IEADISP4	0	4	IECIO1	0	5201
IEAEINT	0	6201	IECIO1X	0	5202
IEAFRR	0	4003	IECIO2	0	5200
IEAPINT	0	6101	IECMSCH	0	5104
IEASTAE	0	4002	IECPCI	0	2100
IEASVCH	0	1000	IECPCIX	0	2101
IEATINT	0	6200	IECRSCH	0	5106
IEAVSLSD	0	4004	IECSIO	0	5100
IEAVSLSU	0	4005	IECSSCH	0	5105
IEAVSLUR	0	4006	IGGSP002	0	EFF3
IECCSCH	0	5102	IGGSP008	0	EFF4

Name	Hex Offset	Hex Value
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IGGSP119	0	EFF8
IGGSP145	0	EFFB
IGGSP169	0	EFFE
IGGSP215	0	EFF7
IGGSP235	0	EFF9
IGGSP239	0	EFFA
IGGSP251	0	EFFC
IGGSP451	0	EFFD
IMDCICS	0	EF6C
IMDDB2VT	0	EF5F
IMDEFAD	0	EFAD
IMDEFAE	0	EFAE
IMDEFEA	0	EFEA
IMDEFEB	0	EFEB
IMDEFEC	0	EFEC
IMDEFED	0	EFED
IMDEFEE	0	EFEE
IMDEFE5	0	EFE5
IMDEFE6	0	EFE6
IMDEFE7	0	EFE7
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IMDEF62	0	EF62
IMDEF63	0	EF63
IMDEF7A	0	EF7A
IMDEF7B	0	EF7B
IMDEF7C	0	EF7C
IMDEF7D	0	EF7D
IMDEF7E	0	EF7E
IMDEF7F	0	EF7F
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IMDEF86	0	EF86
IMDEF87	0	EF87
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Name	Hex Offset	Hex Value
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IMDE5E7	0	E5E7
IMDE5E8	0	E5E8
IMDE5E9	0	E5E9
IMDE5FA	0	E5FA
IMDE5FB	0	E5FB
IMDE5F0	0	E5F0
IMDE5F1	0	E5F1
IMDE5F4	0	E5F4
IMDE5F5	0	E5F5
IMDE5F6	0	E5F6
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IMDFSITC	0	EF5C
IMDFSITD	0	EF5D
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IMDFSIT5	0	EF55
IMDFSIT6	0	EF56
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IMDFSIT8	0	EF58
IMDFSIT9	0	EF59
IMDGPD00	0	EFAC
IMDGPD01	0	EFAF
IMDGPD02	0	EFB0
IMDGPD03	0	EFB1
IMDGPD04	0	EFB2
IMDGPD05	0	EFB3
IMDGPD06	0	EFB4
IMDGPD07	0	EFB5
IMDGPD08	0	EFB6
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IMDGPD13	0	EFBB
IMDGPD14	0	EFBC
IMDGPD15	0	EFBD
IMDGPD16	0	EFBE
IMDGPD17	0	EFBF
IMDGPD18	0	EFC0
IMDGPD19	0	EFC1
IMDGPD20	0	EFC2
IMDGPD21	0	EFC3
IMDGPD22	0	EFC4
IMDGPD23	0	EFC5
IMDGPD24	0	EFC6
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IMDGPD26	0	EFC8
IMDGPD27	0	EFC9
IMDGPD28	0	EFCA
IMDGPD29	0	EFCB
IMDGPD30	0	EFCC
IMDGPD31	0	EFCD
IMDGPD32	0	EFCE
IMDGPD33	0	EFCF

IMDMEDIT Cross Reference

Name	Hex Offset	Hex Value
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IMDGPD36	0	EFD2
IMDGPD37	0	EFD3
IMDGPD38	0	EFD4
IMDGPD39	0	EFD5
IMDGPD40	0	EFD6
IMDGPD41	0	EFD7
IMDGPD42	0	EFD8
IMDGPD43	0	EFD9
IMDGPD44	0	EFDA
IMDGPD45	0	EFDB
IMDGPD46	0	EFDC
IMDGPD47	0	EFDD
IMDGPD48	0	EFDE
IMDGPD49	0	EFDF
IMDGPD50	0	EFE0
IMDLANRA	0	EF29
IMDLANRB	0	EF2A
IMDLANRC	0	EF2B
IMDLANRD	0	EF2C
IMDLANRE	0	EF2D
IMDLANRF	0	EF2E
IMDLANRG	0	EF2F
IMDLANRH	0	EF30
IMDLANRI	0	EF31
IMDLANRJ	0	EF32
IMDLANRK	0	EF33
IMDLANRL	0	EF34
IMDLANRM	0	EF35
IMDLANRN	0	EF36
IMDLANRO	0	EF37
IMDLANRP	0	EF38
IMDLANRQ	0	EF39
IMDLANRR	0	EF3A
IMDLANRS	0	EF3B
IMDLANRT	0	EF3C
IMDLANRU	0	EF3D
IMDLANRV	0	EF3E
IMDLANRW	0	EF3F
IMDLANR1	0	EF20
IMDLANR2	0	EF21
IMDLANR3	0	EF22
IMDLANR4	0	EF23
IMDLANR5	0	EF24
IMDLANR6	0	EF25
IMDLANR7	0	EF26
IMDLANR8	0	EF27
IMDLANR9	0	EF28
IMDMCSCH	0	5102
IMDMCS1X	0	5203
IMDMDMA1	0	EFFF
IMDMDSP	0	3
IMDMDSP1	0	1
IMDMDSP2	0	2
IMDMDSP3	0	3
IMDMDSP4	0	4
IMDMEOS	0	5101
IMDMEOSX	0	5107
IMDMEXT	0	6201
IMDMFRR	0	4003
IMDMHSCH	0	5103
IMDMIO1	0	5201
IMDMIO1X	0	5202
IMDMIO2	0	5200
IMDMMSCH	0	5104
IMDMPCI	0	2100
IMDMPCIX	0	2101
IMDMPI	0	6101
IMDMPIPG	0	0
IMDMRSCH	0	5106
IMDMSIO	0	5100
IMDMSLSD	0	4004
IMDMSLSU	0	4005
IMDMSLUR	0	4006
IMDMSRM	0	4001
IMDMSSCH	0	5105
IMDMSSM	0	0
IMDMSSM1	0	0
IMDMSTAE	0	4002
IMDMSVC	0	1000
IMDMTINT	0	6200
IMDMTP1	0	8100
IMDMTP2	0	8200
IMDOSIC	0	EF53
IMDTCAM0	0	EFA0
IMDTCAM1	0	EFA1
IMDTCAM2	0	EFA2
IMDTCAM3	0	EFA3
IMDTCAM4	0	EFA4
IMDTCAM5	0	EFA5
IMDTCAM6	0	EFA6
IMDTCAM7	0	EFA7
IMDTCAM8	0	EFA8
IMDTCAM9	0	EFA9
IMDVSM	0	EF65
IRASRM	0	4001
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 Heading Information

Common Name: VSM Information Message Table
Macro ID: IHAINF
DSECT Name: INF
Owning Component: Virtual Storage Manager (SC1CH)
Eye-Catcher ID: None
Subpool and Key: 245 and 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	INFBADDR	VSM CALLERS RETURN ADDRESS
12	(C)	SIGNED	2	INFVARCT	COUNT OF VAR FIELDS
14	(E)	SIGNED	2	INFCC	SYSTEM COMPLETION CODE
16	(10)	UNSIGNED	1	INFCL	ABEND REASON CODE
17	(11)	CHARACTER	1	INFFLG	FLAG BYTE
		1...		INFBRENT	BRANCH ENTRY WHEN ON
		.1..		INFFRMN	FREEMAIN WHEN ON
18	(12)	CHARACTER	2	*	RESERVED
20	(14)	CHARACTER	4	INFVAR (7)	VARIABLE INFORMATION
48	(30)	CHARACTER	0	INFEND	END OF MAPPING MACRO

INF Cross Reference

Name	Hex Offset	Hex Value
INFASCB	0	
INFBADDR	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	

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IOBE Programming Interface information

Programming Interface information

IOBE

End of Programming Interface information

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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

Comment

EQU X'80' Reserved

End of Comment

		.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

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		...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
		1		IOBEFMT1	"X'01'" Format-1 CCWs
7	(7)	BITSTRING	1	IOBEERPM	Mask indicating the functions the ERP is allowed to perform.
		1...		IOBEPMSG	"X'80'" The user allows basic ERP recovery plus the issuance of permanent error messages that do not require interaction with the system or an operator.

Comment

```
EQU X'40' Reserved
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 paramaters 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.

Comment

```
EQU X'0F' Reserved
```

End of Comment

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 is being bypassed. No message or logrec entry will be created when the condition occurs.
19	(13)	CHARACTER	29		Reserved
19	(13)	X'30'	0	IOBEEND	"*" End of IOBE.
19	(13)	X'30'	0	IOBELNTH	"IOBEEND-IOBE" Length of IOBE.
19	(13)	X'1'	0	IOBEVRSC	"1" Version number.

IOBE Cross Reference

Name	Hex Offset	Hex Value
IOBE	0	
IOBECPNM	6	20
IOBEDSMC	10	20
IOBEEIDA	6	10
IOBEEND	13	30
IOBEERPM	7	
IOBEFLG1	5	
IOBEFLG2	6	
IOBEFLG3	10	
IOBEFMT1	6	1
IOBEID	0	
IOBEIEDB	C	
IOBEIOT	10	10
IOBELNTH	13	30
IOBENSER	10	80
IOBENVAL	10	40
IOBEP	6	40
IOBEPCIS	6	8
IOBEPMSG	7	80
IOBESIOC	11	
IOBESPAB	5	80
IOBETIME	12	
IOBEUPTR	8	
IOBEUSER	8	
IOBEVERS	4	
IOBEVRSC	13	1
IOBNORWS	6	4
IOB2CSWS	6	2

IOCOM Programming Interface information

Programming Interface information

IOCOM

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

- IOCIECAA
- IOCOMWPT
- IOCPAVE

End of Programming Interface information

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IOCOM Heading Information

Common Name: I/O Communication area
Macro ID: IECDIOCM
DSECT Name: IOCOM, IOCOMW
Owning Component: I/O Supervisor (SC1C3)
Eye-Catcher ID: IOCM
Offset: IOCOM-16
Length: 8
Storage Attributes: Main Storage: YES
Virtual Storage: n/a
Auxiliary Storage: n/a
Subpool: N/A - Nucleus resident
Key: 0
Residency: Below 16M
Size: See assembler listing.
Created by: IOSVDATA
Pointed to by: CVTIXAVL field of the CVT data area to the IOCOM data area
IOWIOCOM field of the IOWA data area to the IOCOM data area
IOCOMWPT field of the IOCOM data area to the IOCOM writtable
IOWIOCMW field of the IOWA data area to the IOCOM writtable
IOCOMEX field of the IOCOM data area to the IOCOM extension
IOCSYNCA field of the IOCOM data area to the IOS SYNCH table
Serialization: None for the readable portion of the IOCOM. The writeable portion of the IOCOM (IOCOMW), the IOCHTFLD, is serialized using CDS instruction.
Function: IOCOM contains addresses to IOS modules and control blocks.

IOCOM Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	IOCOM	
0	(0)	X'0'	0	IECIXAVL	"IOCOM" Compatibility name
0	(0)	DBL WORD	8	(0)	
0	(0)	SIGNED	2	IOCVOICT	Number of VOID entries *calculated by IEAVNP02
2	(2)	SIGNED	2	IOCVOILN	Length of each VOID table entry
4	(4)	ADDRESS	4	IOCPST	X'80000000'+IECVPST Entry address of the IOS Post Status module
8	(8)	ADDRESS	4	IOCOMWPT	"V" IECOMW Pointer to modifiable part of IOCOM
12	(C)	ADDRESS	4	IOCSSCQ	X'80000000'+IOSVSSCQ Entry address for the STARTIO macro
16	(10)	ADDRESS	4	IOCMAP	X'80000000'+IECVMAP Entry address of the IOSMAP routine
20	(14)	ADDRESS	4	IOCSMFRR	X'80000000'+IOSVQFRR Address of IOQ Storage Manager FRR routine
24	(18)	ADDRESS	4	IOCSCOMP	X'80000000'+IOSVSCOM Address of IOS Storage Manager SRB entry compress routine
28	(1C)	ADDRESS	4	IOCSTIO	X'00000000'+IECVSTIO Entry address of the compatibility STARTIO macro
32	(20)	ADDRESS	4	IOCVOID	"V" IECVOID Address of vector of IOS drivers
36	(24)	ADDRESS	4	IOCIOSSM	X'80000000'+IOSVSMGR Start address of the IOS Storage Manager
40	(28)	ADDRESS	4	IOCDIRB	"V" IOSVIRB Pointer to default error IRB
44	(2C)	ADDRESS	4	IOCPRGID	X'80000000'+IOSPGRTM Purge Dequeue routine address
48	(30)	ADDRESS	4	IOCCHRB	"V" IOSVCHRB Pointer to the channel recovery block (IOSDCHRB)
52	(34)	ADDRESS	4	IOCISDT	"V" IOSVISDT Pointer to the interrupt subclass definition table

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
56	(38)	ADDRESS	4	IOCSWAP	X'80000000'+IOSVSWAP Entry address of the SWAP device function
60	(3C)	ADDRESS	4	IOCSHUP	X'80000000'+IOSVSHUP Entry address of the routine to check for device reservations.
64	(40)	ADDRESS	4	IOCOMEX	IOSVIOCX Address of the IOCOM extension
68	(44)	ADDRESS	4	IOCATTBL	"V" IOSVATTN Address of attention table
72	(48)	ADDRESS	4	IOCSYNCA	"V" IOSVSYLK Address of the IOS Synchronization lock table
76	(4C)	ADDRESS	4	IOCCNT	X'80000000'+IOSVCNT Entry address of the routine to count requests queued on a UCB
80	(50)	ADDRESS	4	IOCHSCH	X'80000000'+IOSVHSCH Entry address of the Halt and Clear subchannel routine
84	(54)	ADDRESS	4	IOCGENA	X'00000000'+IECVGENA Address of IOSGEN subroutine
88	(58)	ADDRESS	4	IOCMSCQ	X'80000000'+IOSVMSCQ Entry address of the Modify subchannel routine
92	(5C)	ADDRESS	4	IOCRSVA	Reserved
96	(60)	ADDRESS	4	IOCSTSQ	X'80000000'+IOSVSTSQ Entry address of the Store subchannel routine
100	(64)	ADDRESS	4	IOCTCCW	X'00000000'+IECVTCCW Address of CCW translator
104	(68)	ADDRESS	4	IOCSVCF	X'80000000'+IGC015 Entry point of SVC F in the IOS Post Status module
108	(6C)	ADDRESS	4	IOCVARY	X'80000000'+IOSVVARY Entry address of the Vary routine
112	(70)	ADDRESS	4	IOCCNXL	X'80000000'+IOSVCNXL Entry address of the cancel request routine
116	(74)	ADDRESS	4	IOCQCNT	X'00000000'+IECVQCNT Address of purge IPIB quiesce count decrement/post subroutine
120	(78)	ADDRESS	4	IOCASCB	"V" IEAMASCB ASCB used for scheduling
124	(7C)	ADDRESS	4	IOCNSTP	Address of the NIP SCHIB table. Set by IEAIPL03, reset by IEAVNP02.
128	(80)	ADDRESS	4	IOCIOWA	"V" IOSVIOWA Address of IOWA table
132	(84)	ADDRESS	2	IOCIOWEL	IOWEL Length of IOWA
134	(86)	ADDRESS	2	IOCSMGSZ	0 Size of processor related storage
136	(88)	ADDRESS	4	IOCCPRM	X'80000000'+IOSVCPRM Address of IOS Storage Manager initialization routine
140	(8C)	ADDRESS	4	IOCSCP	X'80000000'+IOSVSCP Entry address of the start channel-program service routine
144	(90)	ADDRESS	4	IOCSIOQC	X'80000000'+IOSVIOQC Entry address of the scan- IOQ-chain service routine
148	(94)	ADDRESS	4	IOCSDUMP	"V" IOSVDUMP Address of the IOS SDUMP parameter list
152	(98)	ADDRESS	4	IOCHCRS	X'80000000'+IOSVHCRS Address of Halt/Clear resource service routine to free resources tied to the associated start IOSB
156	(9C)	ADDRESS	4	IOCZTAB	"V" IOSVZTAB Address of module work area table
160	(A0)	ADDRESS	4	IOCSMHDR	"V" IOSVQHDR Pointer to IOS storage page pool header tables
164	(A4)	ADDRESS	4	IOCSMLG	X'80000000'+IOSVSMLG Address of IOS Storage Manager get large block entry
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'+IECVDPTH Address of Dynamic Pathing module
196	(C4)	ADDRESS	4	IOCLEVL	X'00000000'+IOSVLEVL Entry address of the IOS Level routine
200	(C8)	ADDRESS	4	IOCRSUM	X'00000000'+IOSVRSUM Entry address of the Resume I/O routine
204	(CC)	ADDRESS	4	IOCEXHDR	"V" IECVSHDR Pointer to EXCP storage page pool header tables
208	(D0)	ADDRESS	4	IOCIOVTP	"V" IOVT Address of IOS Vector Table (IOVT)

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
212	(D4)	ADDRESS	4	IOCDPSV	X'80000000'+IOSRDPSV DPS Validation
216	(D8)	ADDRESS	4	IOCBIND	X'80000000'+IOSVBIND IOS PAV BIND Service
220	(DC)	ADDRESS	4	IOCSCMT	X'80000000'+IOSCSCMT IOS SCMT services
224	(E0)	ADDRESS	4	IOCRSV14	Reserved
228	(E4)	ADDRESS	4	IOCRSV4 (10)	Reserved for use by 370
268	(10C)	ADDRESS	4	IOCLVTBL	"V" IOSVLVTB Pointer to the IOS level table
272	(110)	BITSTRING	1	IOCFLAGS	IOCOM flag 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
		 1111		IOCFLRSV	"X'0F'" Reserved flags
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		Reserved
276	(114)	ADDRESS	4	IOCIOQSQ	"V" IOSVIOSQ Address of IOS Storage Manager IOQ staging queue table
280	(118)	ADDRESS	4	IOCFDEV	X'80000000'+IOSRFDEV Address of force device SRB routine
284	(11C)	ADDRESS	4	IOCACRW	X'80000000'+IOSRACRW Address of asynchronous CRW processor
288	(120)	ADDRESS	4	IOCHIDT	"V" IOSRHIDT Address of the Hot I/O detection table
292	(124)	ADDRESS	4	IOCSCHNO	IECVGENA+X'0000001C' Address of the Subchannel number service routine in IECVGENA
296	(128)	ADDRESS	4	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'+IOSCCDT Address of configuration data table service routine
316	(13C)	ADDRESS	4	IOCCUIR	X'80000000'+IOSVCUIR Address of CUIR service routine
320	(140)	ADDRESS	4	IOCSLFD	X'80000000'+IOSVSLFD Address of self description service routine
324	(144)	ADDRESS	4	IOCSLFI	X'80000000'+IOSVSLFI Address of self description initialization routine
328	(148)	ADDRESS	4	IOCIMSGA	X'80000000'+IMSGARRY Address of IOS message array
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
340	(154)	X'158'	0	IOCOEND	"*" End of the read only section of the IOCOM

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	IOCOMW	Modifiable part of IOCOM
0	(0)	DBL WORD	8	(0)	

Comment

(Addressed by IOCOMWPT)

End of Comment

0	(0)	CHARACTER	4	IOCIOCW	Acronym for modifiable section of the IOCOM ('IOCW')
4	(4)	ADDRESS	2	IOCLENW	Length of the modifiable section of the IOCOM
6	(6)	SIGNED	2	IOCPGCT	Number of active I/O purges
8	(8)	DBL WORD	8	IOCHTFLD (0)	

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
8	(8)	ADDRESS	4	IOCSLIH	X'80000000'+IOSVSLIH Pointer to the second level interrupt handler or the IOS interrupt trap routine. This field will also have an external label of IECSLIHA.
12	(C)	SIGNED	4	IOCHOTCT	Count of Hot Devices. If this field is not zero, IOCSLIH will point to the HOT I/O SLIH
16	(10)	ADDRESS	4	IOCMIHCA	MIHATBLE Address of the MIH work area. Prior to MIH initialization the first two bytes of the MIH work area are set to blanks. After MIH initialization, these two bytes are set to **.
20	(14)	ADDRESS	4	IOCIOPTA	Address of the I/O Prevention table (IOPT).
24	(18)	SIGNED	2	IOCIOPTC	Count of the number of IOPT table entries.
26	(1A)	SIGNED	2	IOCSSCBT	SSCB token updated everytime an SSCB is added or deleted from theCDT SSCB chain. This allows services like SSCBSCAN to check for SSCB changes.
28	(1C)	ADDRESS	4	IOCCDT	Pointer to configuration data table
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)	BITSTRING	1	IOCFLAG2	Flag byte
		1...		IOCSLFSD	"X'80'" Indicates that scan of UCBs during self description initialization is done
		.1..		IOCCDTIN	"X'40'" Indicates that CDT is initialized
		..1.		IOCCULA	"X'20'" Indicates that the CULAs are initialized
		...1		IOCUPCDS	"X'10'" If ON, indicates the that IOS record in the couple dataset has been updated.

Comment

EQU X'08' Reserved- deleted IOCAPGID flag

End of Comment

		.... .1..		IOCDAOTH	"X'04'" If ON, indicates that the "Device Active Only" time in the CMB is supported by the hardware

Comment

EQU X'03' Reserved

End of Comment

45	(2D)	BITSTRING	3		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)	BITSTRING	8		Available
60	(3C)	X'44'	0	IOCENDW	"*" End of the modifiable section of the IOCOM

IOCOM Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
IECIXAVL	0	0	IOCCRWE	110	20
IOCACRW	11C		IOCCSCM	154	
IOCASCB	78		IOCCUIR	13C	
IOCATTBL	44		IOCCUIRQ	24	
IOCBIND	D8		IOCCULA	2C	20
IOCCDT	1C		IOCDAOTH	2C	4
IOCCDTIN	2C	40	IOCDIRB	28	
IOCCDTSR	138		IOCDPSV	D4	
IOCCHRB	30		IOCDPTH	C0	
IOCCNT	4C		IOCENDW	3C	44
IOCCNXL	70		IOCEXHDR	CC	
IOCCPAT	20		IOCFDEV	118	
IOCCPRM	88		IOCFLAGS	110	

IOCOM Cross Reference

Name	Hex Offset	Hex Value
IOCFLAG2	2C	
IOCFLRSV	110	F
IOCGENA	54	
IOCHCRS	98	
IOCHIDT	120	
IOCHOTCT	C	
IOCHSCH	50	
IOCHTFLD	8	
IOCIECAA	38	
IOCIMSGA	148	
IOCIOCW	0	
IOCIODF	110	40
IOCIOPTA	14	
IOCIOPTC	18	
IOCIOQSQ	114	
IOCIOQVR	112	
IOCIOQV1	112	1
IOCIOSSM	24	
IOCIOVTP	D0	
IOCIOWA	80	
IOCIOWEL	84	
IOCIPID	128	
IOCISDT	34	
IOCLENW	4	
IOCLEVL	C4	
IOCLVTBL	10C	
IOCMANI	150	
IOCMAP	10	
IOCMIHCA	10	
IOCMIHQ	14C	
IOCMSCQ	58	
IOCNSTP	7C	
IOCOEND	154	158
IOCOM	0	
IOCOMEX	40	
IOCOMW	0	
IOCOMWPT	8	
IOCPAVE	34	
IOCPAVS	110	10
IOCPGCT	6	
IOCPRGID	2C	
IOCPRVT	12C	
IOCPST	4	
IOCPURGQ	30	
IOCQCNT	74	
IOCQSCLV	111	
IOCRERPT	134	
IOCRSUM	C8	
IOCRSVA	5C	
IOCRSV14	E0	
IOCRSV4	E4	
IOCSCHNO	124	
IOCSCMT	DC	
IOCSCOMP	18	
IOCSCP	8C	
IOCSDUMP	94	
IOCSHUP	3C	
IOCSINTC	110	80
IOCSIOQC	90	
IOCSLFCT	28	
IOCSLFD	140	
IOCSLFI	144	
IOCSLFSD	2C	80
IOCSLIH	8	
IOCSMEF	BC	
IOCSMEG	B8	
IOCSMFRR	14	
IOCSMGSZ	86	
IOCSMHDR	A0	
IOCSMLF	A8	
IOCSMLG	A4	
IOCSMMF	B4	
IOCSMMG	B0	
IOCSMPF	AC	
IOCSSCBT	1A	
IOCSSCQ	C	
IOCSTIO	1C	
IOCSTSQ	60	
IOCSVCF	68	
IOCSWAP	38	
IOCSYNCA	48	
IOCTCCW	64	
IOCUPCDS	2C	10
IOCURGC	130	
IOCVARY	6C	
IOCVOICT	0	
IOCVOID	20	
IOCVOILN	2	
IOCZTAB	9C	

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 dequeing 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 Identifer) in IOSB
		...1		IOQWLM	"X'10'" ..This I/O request running with system in goal mode
17	(11)	BITSTRING	1	IOQPRFXO	Offset of channel program prefix set by SIO exit
18	(12)	BITSTRING	1	IOQPRI	I/O Priority value
19	(13)	BITSTRING	1	IOQTYPE	Type of operation this IOQ represents.
		....		IOQSTRT	"X'00'" ..Start Subchannel request

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IOQ Cross Reference

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		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
20	(14)	ADDRESS	4	IOQAIOQ	Address of IOQ associated with this request- Halt and Clear requests
24	(18)	ADDRESS	4	IOQUCB	Address of the common segment of the UCB this request is queued on
28	(1C)	BITSTRING	2	IOQASID	ASID with which this request is associated
30	(1E)	BITSTRING	1	IOQCSSPR	Channel subsystem priority
31	(1F)	CHARACTER	1		Reserved
32	(20)	CHARACTER	4	IOQIOS2 (0)	IOQ area 2, this area should not be initialized to zero
32	(20)	ADDRESS	4	IOQEPTR	Address of IOQ Extension
36	(24)	CHARACTER	92	IOQIOS3 (0)	IOS area 3
36	(24)	BITSTRING	92	IOQDDTWT (0)	Work area for device support code
36	(24)	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
124	(7C)	X'80'	0	IOQLEN	"*-IOQ" Length of IOQ

IOQ Cross Reference

Name	Hex Offset	Hex Value
IOQ	0	
IOQACTV	10	80
IOQAIOQ	14	
IOQASID	1C	
IOQCHAIN	4	
IOQCLR	13	3
IOQCSSPR	1E	
IOQDDTWA	30	
IOQDDTWT	24	
IOQDDTW2	7C	
IOQEPTR	20	
IOQFLA	10	
IOQFLAGS	10	
IOQHLT	13	2
IOQID	0	
IOQINCPT	13	7
IOQIOS	4	
IOQIOSB	8	
IOQIOS1	4	
IOQIOS2	20	
IOQIOS3	24	
IOQIRB	50	
IOQLEN	7C	80
IOQMDFY	13	5
IOQMERGE	10	40
IOQPRFXO	11	
IOQPRI	12	
IOQPRVT	10	20
IOQSNCCW	30	
IOQSNS	13	1
IOQSTART	C	
IOQSTOR	13	4
IOQSTRT	13	0
IOQST1	13	6
IOQTYPE	13	
IOQUCB	18	
IOQWLM	10	10

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: 56 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	IORRSVD	Reserved
3	(3)	BITSTRING	1	IORFLGS	Internal flags
		1...		IORFUSE	X'80' = IORB in use
		.1..		IORFRPS	X'40' = RPS device
		..11		*	Reserved
		.... 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)	ADDRESS	4	IORPCCW	Pointer to first PCCW
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
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)	CHARACTER	0	*	

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IORB Cross Reference

Name	Hex Offset	Hex Value
IORAPND	3	07
IORB	0	
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	
IORRQSZ	34	
IORRSVD	2	
IORSAVE	10	
IORSION	28	
IORSRBP	30	
IORTREQ	24	
IORTSMP	18	

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 226 when obtained from the IOS storage manager.
Key: 0
Residency: Below the 16M line when obtained from the IOS storage manager. Other IOS drivers could obtain the IOSB from either below or above the 16M line.
Size: 108 bytes for basic IOSB.
44 bytes for an in-line extension (optional).
Created by: User of the STARTIO service
Pointed to by: IOQIOSB of IECDIOQ
SRBPARM of IHASRB
RQESRB field of the RQE data area
Serialization: None
Function: The IOSB contains all the information needed to process an I/O request through the I/O initiation and completion. It is used to communicate between the I/O supervisor and the requestor of an I/O service, between the I/O supervisor and 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 amd 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.

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Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		.... .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 doesnt want OBR
		..1.		IOSNOTRS	Driver does not require an address space switch on entry to DIE.
		...1		IOSRESRC	IOS resources are held. Must be initialized to zero by driver. With bit set, the drivers DIE cannot return on codes 12 or 16.
		.... 1...		IOSIONRD	Set by a driver to request that the I/O request be issued to a not-ready device.
		.... .1..		IOSMSG	Message indicators for WTO service. 0 = Intervention required msg. 1 = I/O error message.
		.... ..1.		IOSBDCST	Broadcast bit
		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
		.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.
		.... 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.

End of Comment

3	(3)	CHARACTER	1	IOSPROC	IOSPROC field

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					Comment
					IOSDVRID - This byte indentifies the I/O driver requesting the I/O request. Driver identification values are assigned by IOS.

					DCLs constants are provided at end of IOSB.
					End of Comment
4	(4)	CHARACTER	1	IOSDVRID	Driver ID value field
5	(5)	CHARACTER	1	IOSFLD	Flag byte D
		1...		IOSNOINT	Set by a driver to request that the I/O request be issued to a device that has an intercept condition. The intercept condition is to be saved for the next I/O request.
		.1..		IOSMNORQ	IOS is not to requeue this IOSB if a Start Pending condition is detected (MIH, etc).
		..1.		IOSEPCIF	Early PCI exit call Flag. Set by the I/O driver to get called from the SLIH, instead of from post status for good intermediate status.
		...1		IOSCCWDS	Channel program resides in a data space. Set by the I/O driver.
		.... 1...		IOSEPCIS	Early PCI exit Space switch flag. Set by the I/O driver to indicate that IOSVSLIH should CMSET to the driver's address space prior to invoking the PCI exit.
		.... .1..		IOSLIOPF	Long I/O Post flag set by the I/O driver to indicate that driver should be posted back if the I/O request will take a long time to complete due to an MIH condition, manual intervention, etc..
		.... ..1.		IOSNOLL	Set by the driver to indicate that post status must not get the local lock in order to use the local lock save area, as deadlock could occur. IOSPSLL must also be set by the driver.
		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	IOSPKEY	Protect key of IOSPGAD
		1111		*	Protect key field.
		.... 1...		IOSLCL	ASID schedule at local level
		.... .1..		IOSIDR	Asynchronous ERP scheduling should be used for this request (indirect recording for paging I/O).
		.... ..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	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		Comment			
		Field IOSCOD values - I/O completion codes IOSCOD values assigned by IOS. DCLs constants are provided at the end of the IOSB. ---------- Completion codes 41 - 5F - Indicate permanent error conditions these codes will always be last entry codes to abnormal end exits. Completion codes 60 - 73 - Indicate conditions that IOS has detected in processing the I/O request. Completion codes 74 - 7E - Indicate abnormal conditions for which correction may be possible. These codes denote first entry to abnormal exits. Completion code 7F - Indicate normal I/O completion. It does not indicate that the I/O request completed successfully. ---------- Completion code 49 - Applies only to Store and Modify subchannel requests.			
		End of Comment			
13	(D)	CHARACTER	1	IOSCOD	I/O completion code field.
		Comment			
		IOSOPT and IOSOPT2 bit definitions - For Start Subchannel requests. See redefinition area for definitions for modify and store subchannel requests.			
		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 compatability 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

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					Comment
					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.
					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).
		.... ..1.		IOSE	If 1, Extended control information stored with interrupt (this bit is provided for information only, the stored data cannot be found from the IOSB).
		1		IOSN	If 1, path not operationsl.
					Comment
					Unit Control Block (UCB) address - address to common segment.
					End of Comment
16	(10)	ADDRESS	4	IOSUCB	Unit Control Block address
					Comment
					IOSFCSW field - Subchannel Status Word field.
					Format 0 CCW requests - Start Subchannel deferred condition code is stored in the IOSCC field and the 3 byte command address in IOSCSWCA (compatable 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.
24	(18)	CHARACTER	2	IOSTATUS	CSW status
24	(18)	CHARACTER	1	IOSTSA	Device status
24	(18)	BITSTRING	1	IOSDSTAT	Device status
		1...		IOSDSATN	Attention
		.1..		IOSDSSM	Status Modifier
		..1.		IOSDSCUE	Control Unit End
		...1		IOSDSBSY	Busy
		.... 1...		IOSDSCE	Channel End
		.... .1..		IOSDSDE	Device End
		.... ..1.		IOSDSUC	Unit Check
		1		IOSDSUEX	Unit Exception
25	(19)	CHARACTER	1	IOSTSB	Subchannel Status
25	(19)	BITSTRING	1	IOSSSTAT	Subchannel Status
		1...		IOSSSPCI	Program-Controlled Interupt
		.1..		IOSSSIL	Incorrect Length
		..1.		IOSSSPGC	Program Check
		...1		IOSSSPTC	Protection Check
		.... 1...		IOSSSCDC	Channel-Data Check

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		.... .1..		IOSSSCCC	Channel-Control Check
		.... ..1.		IOSSSICC	Interface-Control Check
		1		IOSSSCC	Chaining Check
26	(1A)	ADDRESS	2	IOSCSWRC	Residual Count

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.....
		.1..		IOSFSSCH	.. Start Subchannel
		..1.		IOSFHSCH	.. Halt Subchannel
		...1		IOSFCSCH	.. Clear Subchannel
40	(28)	BITSTRING	0	IOSAC	Activity Control field.....
		.... 1...		IOSARSCH	.. Resume Pending
		.... .1..		IOSASSCH	.. Start Pending
		.... ..1.		IOSAHSCH	.. Halt Pending
		1		IOSACSCH	.. Clear Pending
41	(29)	1...		IOSASUBA	.. Subchannel Active
		.1..		IOSADEVA	.. Device Active
		..1.		IOSSSPND	.. Subchannel Suspended
		...1 1111		IOSSC	Status Control Field.....
		...1		IOSSALRT	.. Alert status
		.... 1...		IOSSINTR	.. Intermediate status
		.... .1..		IOSSPRIM	.. Primary status
		.... ..1.		IOSSSEC	.. Secondary status
		1		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

42	(2A)	BITSTRING	2	IOSSNS	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

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.

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

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.

End of Comment

72	(48)	ADDRESS	4	IOSRST	Real address
76	(4C)	ADDRESS	4	IOSVST	Virtual address

Comment

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.
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

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

					End of Comment
100	(64)	CHARACTER	8	IOSEEKA	Dynamic seek address
100	(64)	ADDRESS	1	IOSSKM	M
101	(65)	ADDRESS	2	IOSSKBB	BB
103	(67)	CHARACTER	4	IOSCCHH	CCHH
103	(67)	ADDRESS	2	IOSSKCC	CC
105	(69)	ADDRESS	2	IOSSKHH	HH
105	(69)	ADDRESS	1	IOSSKH1	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 beyod the end of the IOS large block (SRIO).
					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..		IOSXGDPR	.. Do I/O even if device is reserved on another path. Valid if IOSGDP bit is on.
		..1.		IOSXDDRT	Flag used to prevent swapping in Tape Library Environment
		...1		IOSXMIHI	Flag used to inhibit MIH processing for a single request. If this bit is set, then MIH processing is disabled for this request only. This bit is applicable for STARTIO requests only and is ignored for all other requests (HSCH, CSCH, etc). This bit does not override the I/O timing facility.
		.... 1...		IOSXIOSI	Flag indicating that the I/O driver is performing non- disruptive I/O. This will cause the NTXTIOSR bit to later be set to indicate this condition to the notification exit.
		.... .1..		IOSXDPSV	DPS validation on CC3
		.... ..1.		IOSXIOSN	Set by a driver indicating to start the I/O operation even if I/O synchronization is active on the device (for IOS recovery use only).
		1		IOSXATPS	Indicates that attention processing was initiated for this I/O operation. Note: This bit is valid only in an IOS sense IOSB.
115	(73)	BITSTRING	1	IOSXFLG2	Flag byte 2.....
		1...		IOSXIOT	When off - IOSXTIME is for active request only. When on - IOSXTIME is for active and queued requests.
		.1..		IOSXNMIH	When on - MIH should not create a logrec entry or issue a message when a timeout occurs due to IOSXTIME
		..1.		IOSXCPNM	When set, the Channel program is not modified by the driver during execution, other than to add CCWs at the end.

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
		...1		IOSXIDA2	When on - 2K 8-byte IDAWs
		.... 1...		IOSXPCIS	PCI Synchronization: Set on by I/O driver to indicate that the channel must synchronize after the next CCW following the the PCI (CCW+8) when prefetching (IOSP) is also set.
		.... .1..		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	IOSXFLG3	Flag byte 3
		1...		IOSXNSER	Indicates that the device may bypass the channel program extent collision checking. Extent range enforcement will remain active. (DASD only)
		.1..		IOSXNVAL	Indicates that the device is to bypass the validation checking of the paramaters on Define Extent and Locate Record commands. Extent enforcement will remain active. (DASD only)
		..11 1111		*	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

Dec	Hex	Type/Value	Len	Name (Dim)	Description
136	(88)	CHARACTER	8	IOSXMSC	Miscellaneous Field
144	(90)	ADDRESS	4	IOSXBASE	When IOSEXP is set, this field contains the corresponding PAV-base UCB 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

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
136	(88)	STRUCTURE	8	IOSXMSCS	IOS Extension Miscellaneous mapping for sense I/O requests.
136	(88)	SIGNED	4	IOSXATI	Attention index save area. Used to preserve the attention index while processing an unsolicited interrupt with unit check status
140	(8C)	BITSTRING	1	IOSXSFLG	Sense flag byte
		1...		IOSXRAT2	USLRRAT2 save area. Used to preserve this bit while processing an unsolicited interrupt with unit check status
		.1..		IOSXRAT3	USLRRAT3 save area. Used to preserve this bit while processing an unsolicited interrupt with unit check status
141	(8D)	CHARACTER	3	*	Reserved for future use

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	12	IOSXMSAV	CMSET savearea in IECTCATN
96	(60)	CHARACTER	12	*	Reserved

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
44	(2C)	STRUCTURE	64	IOSPCISC	
44	(2C)	ADDRESS	4	*	IOSIPIB 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.
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 IOSMPOM is on.
		..1.		IOSMMMO	If 1, old measurement mode is to be 'ored' with new measurement mode. If 0, old measurement mode is to be 'anded' with the new measurement mode. This bit valid only if IOSMMM is on.
		...1		IOSASIS	If 1, IOSMLPMO and IOSMPOMO are ignored, and the old LPM and/or POM are to be replaced by the new LPM/POM.
		 1111		*	Reserved- initialized to zero

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	
			End of Comment	
1	HEX	30	IOSCC3	Deferred condition code 3
1	HEX	10	IOSCC1	Deferred condition code 1
1	HEX	00	IOSCC0	Deferred condition code 0
			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

IOSB Constants

Len	Type	Value	Name	Description
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	F9	IOSAST1	Subchannel type 1 request
1	HEX	FA	IOSASNRQ	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	Miscellanous ID for 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	IOSAOMID	Asychronous 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	80	IOSV33ID	SVC33 driver
1	HEX	81	IOSCLRID	Clear Device recovery
1	HEX	82	IOSSCRID	Subchannel Recovery
1	HEX	83	IOSV16ID	SVC16 Purge driver
1	HEX	84	IOSAPRID	Unconditional Reserve (UR) Recovery driver
1	HEX	85	IOSMIHID	Missing Interrupt Handler (MIH) driver
1	HEX	86	IOSPRVID	I/O Prevention Handler driver
1	HEX	87	IOSRSVID	Re-reserve service

Len	Type	Value	Name	Description
			Comment	
		4 IOSCOD CHAR(1), SEE DCL FOR DESCRIPTION		
			End of Comment	
1	HEX	41	IOSERRC	Permanent I/O error
1	HEX	42	IOSEXTC	Extent Error
1	HEX	43	IOSDPXC	Duplexed I/O request was not started because of the UCB level or not ready device.
1	HEX	44	IOSINTC	Request was intercepted because an error occurred after the last time the device was used and the requestors error recovery procedure wants this intercept condition treated as a permanent error.
1	HEX	45	IOSABNC	I/O request abnormally terminated because of a program check, machine check, etc. in IOS or an exit.
1	HEX	46	IOSCD46	Reserved
1	HEX	47	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	IOSPVTIO	I/O Prevention - either the I/O request has not been started or the I/O request has been terminated.
1	HEX	4B	IOSTAPEC	Tape repositioning error
1	HEX	4C	IOSIVEXP	Invalid exposure number
1	HEX	4D	IOSGDPCC	Deferred condition code 3 on a GDP request or while NIP in control, or with IOSGDPLP set, no logically available paths (UCBLPM).
1	HEX	4E	IOSGDPRD	GDP- Reserved device or in conjunction with IOSRELSE, device can not be released.
1	HEX	50	IOSCD50	Reserved
1	HEX	51	IOSMIHCA	The I/O Request not started- the device is in permanent error.
1	HEX	52	IOSMIHSP	IOS found the I/O request Start Pending in the subchannel, and the driver requests that the I/O request not to be retried (MIH,etc)
1	HEX	53	IOSIOTCR	IOS cancelled the I/O request due to an I/O timeout condition
1	HEX	54	IOSCAPAS	The I/O request could not be started. The current address space did not match IOSASID and a Captured UCB address was used in IOSUCB.
1	HEX	6D	IOSGDPWE	Deferred Condition Code 3 condition with the IOSCC3WE bit set.
1	HEX	71	IOSFTCHC	Hardware corrected data check for Fetch
1	HEX	74	IOSMIHC	A Simulated error status, generated by IOS
1	HEX	7D	IOSXERPL	An I/O exit requested the ERP to log this request
1	HEX	7E	IOSFINTC	Intercept condition before entrance to the ERP.
1	HEX	7F	IOSNRMC	Normal Completion
			Comment	
		Field IOSSNS value - Bad sense indication ----------		
			End of Comment	
2	HEX	10FE	IOSSNSBD	Value supplied for unsuccessful sense
			Comment	
		Field IOSXRCOD value - Reason code detailing IOSCOD value ----------		
			End of Comment	
1	HEX	09	IOSXRC9	Value indicating started I/O request timed-out

IOSB Cross Reference

Len	Type	Value	Name	Description
1	HEX	0A	IOSXRC10	Value indicating queued I/O request timed-out
1	HEX	0B	IOSXRC11	Value indicating PAV binding changed out from underneath IOSEXP request
1	HEX	0C	IOSXRC12	Value indicating 64-bit IDAWs requested on an unsupported host

IOSB Cross Reference

Name	Hex Offset	Hex Value
IOSA	F	10
IOSAATI	4C	
IOSABN	40	
IOSAC	28	
IOSACHN	0	C0
IOSACSCH	28	01
IOSADEVA	29	40
IOSAFLGS	4B	
IOSAHSCH	28	02
IOSAINTE	4B	40
IOSAINTR	4B	80
IOSAPMSK	28	
IOSAPR	E	02
IOSARSCH	28	08
IOSASID	6	
IOSASIS	1	10
IOSASNS	2A	
IOSASSCH	28	04
IOSASUBA	29	80
IOSATPMK	4A	
IOSATSNS	2C	
IOSATTNS	2A	
IOSATTSC	2C	
IOSATTSN	2C	
IOSATTWA	54	
IOSB	0	
IOSBDCST	1	02
IOSBEXT	6C	
IOSBEXTF	5	01
IOSBSTD	0	
IOSBYP	E	80
IOSCC	14	
IOSCCHH	67	
IOSCCHN	0	40
IOSCCWAD	14	
IOSCCWDS	5	10
IOSCC3WE	2	20
IOSCHCMP	C	01
IOSCKEY	59	
IOSCOD	D	
IOSCSW	15	
IOSCSWCA	15	
IOSCSWRC	1A	
IOSCTC	60	
IOSCTCDW	60	
IOSCTCMD	65	
IOSCTCNR	2	02
IOSCTCOP	68	
IOSDCHN	0	80
IOSDCTI	56	
IOSDEP	E	40
IOSDIE	44	
IOSDIESE	1	80
IOSDOM	0	02
IOSDSATN	18	80
IOSDSBSY	18	10
IOSDSCE	18	08
IOSDSCUE	18	20
IOSDSDE	18	04
IOSDSID	50	
IOSDSSM	18	40
IOSDSTAT	18	
IOSDSUC	18	02
IOSDSUEX	18	01
IOSDVRID	4	
IOSE	F	02
IOSEEK	5C	
IOSEEKA	64	
IOSEEND	9C	
IOSEIDAW	2	40
IOSEND	6C	
IOSEPCIF	5	20
IOSEPCIS	5	08
IOSERP	34	
IOSERR	0	20
IOSEX	0	04
IOSEXP	2	10
IOSF	F	80
IOSFC	28	70
IOSFCSCH	28	10
IOSFCSW	14	
IOSFHSCH	28	20
IOSFLA	0	
IOSFLB	1	
IOSFLC	2	
IOSFLD	5	
IOSFMSK	58	
IOSFSSCH	28	40
IOSGDP	2	01
IOSGDPLP	2	80
IOSGPMSK	55	
IOSI	F	20
IOSIDR	C	04
IOSIONRD	1	08
IOSIOPID	24	
IOSIOSB	0	01
IOSIPIB	2C	
IOSIRBCC	59	03
IOSIRBKY	59	F0
IOSIRBL	59	04
IOSLCL	C	08
IOSLEVEL	54	
IOSLIOPF	5	04
IOSLOG	1	01
IOSMD	F	01
IOSMDB	5A	
IOSMDM	5B	
IOSME	F	40
IOSMISC	F	80
IOSMLM	F	20

Name	Hex Offset	Hex Value
IOSMLPM	F	08
IOSMLPMO	1	80
IOSMMBI	F	04
IOSMMM	F	10
IOSMMMO	1	20
IOSMNORQ	5	40
IOSMPOM	F	02
IOSMPOMO	1	40
IOSMSG	1	04
IOSN	F	01
IOSNERP	E	08
IOSNOINT	5	80
IOSNOLL	5	02
IOSNOPTH	E	40
IOSNORTY	2	02
IOSNORWS	2	08
IOSNOTRS	1	20
IOSNRM	3C	
IOSOPT	E	
IOSOPT2	F	
IOSP	F	40
IOSPCHN	30	
IOSPCI	38	
IOSPCIRS	34	
IOSPCISC	2C	
IOSPCIWA	54	
IOSPGAD	8	
IOSPGDPX	C	02
IOSPKEY	C	
IOSPROC	3	
IOSPSLL	E	10
IOSQISCE	E	20
IOSRELSE	E	01
IOSRESRC	1	10
IOSRST	48	
IOSS	59	08
IOSSALRT	29	10
IOSSC	29	1F
IOSSCHC	28	
IOSSDR	1	40
IOSSI	F	08
IOSSINTR	29	08
IOSSKBB	65	
IOSSKCC	67	
IOSSKHH	69	
IOSSKH1	69	
IOSSKH2	6A	
IOSSKM	64	
IOSSKR	6B	
IOSSMDA	0	10
IOSSMDB	0	08
IOSSNS	2A	
IOSSPNDG	29	01
IOSSPRIM	29	04
IOSSRB	1C	
IOSSSCC	19	01
IOSSSCCC	19	04
IOSSSCDC	19	08
IOSSSEC	29	02
IOSSSICC	19	02
IOSSSIL	19	40
IOSSSPCI	19	80
IOSSSPGC	19	20
IOSSSPND	29	20
IOSSSPTC	19	10
IOSSSTAT	19	
IOSSYN	E	80
IOSTATUS	18	
IOSTSA	18	
IOSTSB	19	
IOSTSLL	E	04
IOSUCB	10	
IOSUSE	20	
IOSVERIF	2	40
IOSVST	4C	
IOSXASPR	7E	
IOSXATI	88	
IOSXATPS	72	01
IOSXBASE	90	
IOSXCPNM	73	20
IOSXDDRT	72	20
IOSXDPSV	72	04
IOSXDSMC	73	04
IOSXEIOP	88	
IOSXFLG1	72	
IOSXFLG2	73	
IOSXFLG3	80	
IOSXGDPR	72	40
IOSXID	6C	
IOSXIDA2	73	10
IOSXIOBE	78	
IOSXIOD	84	
IOSXIOSI	72	08
IOSXIOSN	72	02
IOSXIOT	73	80
IOSXLEN	70	
IOSXMIHI	72	10
IOSXMSAV	54	
IOSXMSC	88	
IOSXMSCN	88	
IOSXMSCS	88	
IOSXNMIH	73	40
IOSXNORQ	72	80
IOSXNSER	80	80
IOSXNVAL	80	40
IOSXPCIS	73	08
IOSXRAT2	8C	80
IOSXRAT3	8C	40
IOSXRCOD	7C	
IOSXRSVF	94	
IOSXSFLG	8C	
IOSXSILC	73	02
IOSXSSXA	74	
IOSXTIME	7D	
IOSZ	F	04
IOS2CSWS	2	04

IOSDCHPD Programming Interface information

Programming Interface information

IOSDCHPD

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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: Register 1 of caller
Serialization: NONE
LIBRARY = AMACLIB
Function: PROVIDES A MAPPING OF THE IOSCHPD ATTRIBUTES

IOSDCHPD Map

Offsets Dec	Offsets 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	
		1...		CHPDAON	"X'80'" ON - Indicates ONLINE
		.1..		CHPDAOFF	"X'40'" ON - Indicates OFFLINE
		..1.		CHPDAMAN	"X'20'" ON - Indicates MANAGED
12	(C)	CHARACTER	20	CHPDAR2	Reserved
12	(C)	X'20'	0	CHPDALEN	"*-CHPDATTR" Length of CHPDATTR

IOSDCHPD Cross Reference

Name	Hex Offset	Hex Value
CHPDACRO	0	
CHPDAFLG	8	
CHPDALEN	C	20
CHPDAMAN	8	20
CHPDAOFF	8	40
CHPDAON	8	80
CHPDAR1	6	
CHPDAR2	C	
CHPDATTR	0	
CHPDAVRS	5	

IOSDDACH Programming Interface information

Programming Interface information

IOSDDACH

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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
Created by: IOSRSCH (Subchannel recovery) or IOSCACDR or IOSCDCDR 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)	SIGNED	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)

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
11	(B)	CHARACTER	1		reserved
12	(C)	CHARACTER	32	DACHQUALD	Qualifier dependent area
44	(2C)	CHARACTER	4	DACHQC (0)	Copy of ENF Qualifier.
44	(2C)	CHARACTER	1	DACHUCBC	Device class from UCBTYP field (Byte 3 of UCBTYP)
45	(2D)	CHARACTER	1		Reserved.
46	(2E)	SIGNED	2	DACHQN	DACH qualifier number field
48	(30)	CHARACTER	16	DACHRES	reserved
64	(40)	CHARACTER	1	DACHEND (0)	End of DACH parameter list
64	(40)	X'40'	0	DACH_LEN	"*-DACH"

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
14	(E)	CHARACTER	4	DACH_IO_DTYP	Device type from UCBTYP
14	(E)	X'6'	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)	SIGNED	1	DACH_IORA_CHPD	CHPID established.
19	(13)	BITSTRING	1	(0)	
		1...		DACH_IORA_ONLI	"X'80'" On if device was online
		.1..		DACH_IORA_VARY_DEV	"X'40'" On if IOS issued a VARY command in order to bring a device online that was marked offline due to CC3 during NIP

Comment

Value for DACHID

End of Comment

19	(13)	X'C1C3C8'	0	DACHDACH	"C'DACH'" DACH control block ID

Comment

Value for DACHVERS

End of Comment

19	(13)	X'1'	0	DACHVERC	"1" DACH version number

Comment

Value for DACHDEVC

End of Comment

19	(13)	X'C9D6'	0	DACHDTIO	"C'IO'" Device undergoing subchannel change is an I/O device
19	(13)	X'7'	0	DACH_IORA_FIELDS_LEN	

Offsets Dec	Offsets 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_TIMESTP (0)	
					TOD clock value
12	(C)	CHARACTER	4	DACH_CCDR_DATE	
					Date
16	(10)	CHARACTER	4	DACH_CCDR_TIME	
					Time
20	(14)	SIGNED	2	DACH_CCDR_DEVN	
					Device number undergoing a CDR change
22	(16)	CHARACTER	4	DACH_CCDR_DTYP	
					Device type from UCBTYP
26	(1A)	SIGNED	2	DACH_CCDR_CDRLEN	
					Length of CDR record
28	(1C)	ADDRESS	4	DACH_CCDR_CDRADR	
					Address of CDR record
32	(20)	SIGNED	1	DACH_CCDR_CHPID	
					Channel path that the CDR record was obtained
					Comment
					Qualifier dependent area for Parallel Access Volume changes.
					End of Comment
12	(C)	BITSTRING	1	DACH_PAV_FIELDS (0)	
					PAV Information
12	(C)	SIGNED	2	DACH_PAV_DEVN	
					Device number of PAV-base device
14	(E)	BITSTRING	2	DACH_PAV_FLGS (0)	
					Flags
14	(E)	BITSTRING	1		
		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 EQU X'03' Reserved
15	(F)	BITSTRING	1		EQU X'FF' Reserved
16	(10)	SIGNED	2	DACH_PAV_CNT	Count of PAVs, including base
18	(12)	CHARACTER	2		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	

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					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
38	(26)	CHARACTER	2	DACH_PAVBASEMBI	
					PAV base device
40	(28)	CHARACTER	2	DACH_PAVALIASMBI	
					PAV alias device
42	(2A)	CHARACTER	2		Reserved

Comment

Qualifier dependent area for Switch Table Change

End of Comment

12	(C)	BITSTRING	1	DACH_SW_FIELDS	
				(0)	
12	(C)	CHARACTER	4	DACH_SW_SWITCHNUMBER	
					Switch device number updated
16	(10)	CHARACTER	2	DACH_SW_PORTNUMBER	
					Port Number on Switch device
16	(10)	X'6'	0	DACH_SW_FIELDS_LEN	
					"*-DACH_SW_FIELDS"

Comment

Values for DACH qualifier number field (DACHQN). This is part of the ENF qualifier.

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 Switch Table update

Comment

Values for DACHTYPE field follow. These values MUST be unique even though they are further defining a specific qualifier number. The reason for this is that some listeners may not use the qualifier number field ENF qualifier, but still need to determine the exact event that occurred.
Values for DACHTYPE field. These are types defining the IO subchannel change qualifier number.

End of Comment

64	(40)	X'D7C940'	0	DACHIPI	"C'IPI '" Installed parameters initialized
64	(40)	X'D7D440'	0	DACHIPM	"C'IPM '" Installed parameters modified

Comment

Values for DACHTYPE field. These are types defining the IO resource available qualifier number.

End of Comment

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
64	(40)	X'D7C540'	0	DACHLPE	"C'LPE '" Logical path established type.

Comment

Values for DACHTYPE field. These are types defining the change CDR qualifier number.

End of Comment

64	(40)	X'C3C4D9'	0	DACHACDR	"C'ACDR'" Change CDR is an add CDR record
64	(40)	X'C3C4D9'	0	DACHDCDR	"C'DCDR'" Change CDR is a delete CDR record
64	(40)	X'34'	0	DACH_CCDR_FIELDS_LEN	"*-DACH_CCDR_FIELDS"

Comment

Values for DACHTYPE field. This type is for the set of Parallel Access Volumes Alias UCBs.

End of Comment

64	(40)	X'C1E5E2'	0	DACHPAVS	"C'PAVS'" Change in the set of PAV-alias devices

Comment

Values for DACHTYPE field. This type is for the Adjunct Processor Information.

End of Comment

64	(40)	X'D7C940'	0	DACHAPI	"C'API '" Change in the Adjunct Processor Info

Comment

Values for DACHTYPE field. These fields define the Port Record update.

End of Comment

64	(40)	X'E6E3C2'	0	DACHSWTB	"C'SWTB'" Switch table port record update type

IOSDDACH Cross Reference

Name	Hex Offset	Hex Value
DACH	0	
DACH_CCDR_CDRADR	1C	
DACH_CCDR_CDRLEN	1A	
DACH_CCDR_CHPID	20	
DACH_CCDR_DATE	C	
DACH_CCDR_DEVN	14	
DACH_CCDR_DTYP	16	
DACH_CCDR_FIELDS	C	
DACH_CCDR_FIELDS_LEN	40	34
DACH_CCDR_TIME	10	
DACH_CCDR_TIMESTP	C	
DACH_IO_DEVN	C	
DACH_IO_DTYP	E	
DACH_IO_FIELDS	C	
DACH_IO_FIELDS_LEN	E	6
DACH_IORA_CHPD	12	
DACH_IORA_DEVN	C	
DACH_IORA_DTYP	E	
DACH_IORA_FIELDS	C	
DACH_IORA_FIELDS_LEN	13	7
DACH_IORA_ONLI	13	80
DACH_IORA_VARY_DEV	13	40
DACH_LEN	40	40
DACH_PAV_ALIASMBIVALID	E	4
DACH_PAV_BASEMBIVALID	E	8

Name	Hex Offset	Hex Value
DACH_PAV_CNT	10	
DACH_PAV_CUBUSYDTIME	1C	
DACH_PAV_DEVICEBUSYDTIME	18	
DACH_PAV_DEVN	C	
DACH_PAV_DEVNALIAS	24	
DACH_PAV_DPORTBUSYDTIME	20	
DACH_PAV_FIELDS	C	
DACH_PAV_FLGS	E	
DACH_PAV_SCHIBDATA	18	
DACH_PAV_TOKN	14	
DACH_PAVALIASMBI	28	
DACH_PAVBASEMBI	26	
DACH_PAVBIND	E	80
DACH_PAVSCHIBDATAVALID	E	10
DACH_PAVUNBIND	E	40
DACH_PAVUNBINDALL	E	20
DACH_SW_FIELDS	C	
DACH_SW_FIELDS_LEN	10	6
DACH_SW_PORTNUMBER	10	
DACH_SW_SWITCHNUMBER	C	
DACHACDR	40	C3C4D9
DACHAPI	40	D7C940
DACHCCDR	40	3
DACHDACH	13	C1C3C8
DACHDCDR	40	C3C4D9
DACHDEVC	5	
DACHDTIO	13	C9D6
DACHEND	40	
DACHID	0	
DACHIO	40	1
DACHIORA	40	2
DACHIPI	40	D7C940
DACHIPM	40	D7D440
DACHLPE	40	D7C540
DACHPAV	40	4
DACHPAVS	40	C1E5E2
DACHQAPI	40	5
DACHQC	2C	
DACHQN	2E	
DACHQUALD	C	
DACHRES	30	
DACHSTC	40	6
DACHSWTB	40	E6E3C2
DACHTYPE	7	
DACHUCBC	2C	
DACHVERC	13	1
DACHVERS	4	

IOSDDCMI Programming Interface information

Programming Interface information

IOSDDCMI

End of Programming Interface information

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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: DCMI
Offset: 0
Length: 4
Storage Attributes: Subpool: User
Key: User
Data Space: No
Residency: 31 Bit
Size: 32-bytes
Created by: Issuer of IOCINFO DCMINFO service
Pointed to by: N/A
Serialization: None
Function: 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 monoplex.
		..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.		DCMINOMGDCHPIDS	"X'20'" When set to 1, indicates DCM is not operational because there are no managed channel paths defined.
		...1		DCMINOHWFACILITIES	"X'10'" When set to 1, indicates DCM is not operational because DCM facilities are not supported by the hardware.

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		.... 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 wihtin a multisystem cluster.
		1...		DCMICHPTERROR	"X'80'" When set to 1, indicates the DCM Channel Path Table (CHPT) could not be built on this system image.
		.1..		DCMISWTBERROR	"X'40'" When set to 1, indicates the DCM Switch Table (SWTB) could not be built on this system image.
		..1.		DCMINOMGDSUBSYSTEMS	"X'20'" When set to 1, indicates no DCM managed subsystems are defined or visible on this system image.
		...1		DCMINOLPARSECURITY	"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
		.... .1..		DCMINODYNAMICIO	"X'04'" When set to 1, indicates that dynamic I/O changes to the channel subsystem are not allowed on this image
		.... ..1.		DCMIDCMINGROUP	"X'02'" When set to 1, indicates that the DCM Group has been joined
		1		DCMINNDEERROR	"X'01'" When set to 1, neighbor node descriptor topology has not been built
11	(B)	BITSTRING	1	DCMILOCALREASON2	DCM flags which indicate the reasons why DCM is not fully operational on this system image wihtin a multisystem cluster.
		1...		DCMISWITCHTABLESYNCHRONIZED	"X'80'" When set to 1, indicates the Switch Table Synchronization completed. EQU X'40' Available EQU X'20' Available EQU X'10' Available EQU X'08' Available EQU X'04' Available EQU X'02' Available EQU X'01' Available
12	(C)	CHARACTER	20		Available

IOSDDCMI Cross Reference

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

IOSDDCMI Cross Reference

Name	Hex Offset	Hex Value
	B	80
DCMISWTBERROR		
	A	40
DCMIVERSION	4	

IOSDDEVI Programming Interface information

Programming Interface information

IOSDDEVI

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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
0	(0)	BITSTRING	1		Reserved.
2	(2)	BITSTRING	2	DEVIOFRS (0)	Device offline reasons. Reasons why device is being held in the offline state.
		1...		DEVIORSN	"X'80'" Offline for operator reasons.
		.1..		DEVIHRSN	"X'40'" Offline for hierarchy reasons.
		..1.		DEVIALOC	"X'20'" Allocated offline because in use by a system component.
		...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 Information
4	(4)	SIGNED	2		Reserved
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.
8	(8)	BITSTRING	1		Reserved
10	(A)	CHARACTER	2		Reserved
12	(C)	CHARACTER	244		Reserved
12	(C)	X'100'	0	DEVI_LEN	"*-DEVI"

IOSDDEVI Cross Reference

Name	Hex Offset	Hex Value
DEVI	0	
DEVI_LEN	C	100
DEVIALOC	2	20
DEVIALVA	0	40
DEVICRSN	2	8
DEVICUIR	2	4
DEVIFCTN	0	
DEVIHRSN	2	40
DEVILRSN	2	10
DEVIOFRS	2	
DEVIOFSA	0	80
DEVIORSN	2	80
DEVIPAVB	8	40
DEVIPAVC	8	80
DEVIPAVF	8	
DEVIPAVI	4	
DEVIPAVT	6	
DEVIUCUI	2	2

IOSDFEAT Programming Interface information

Programming Interface information

IOSDFEAT

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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"

IOSDMAP Programming Interface information

Programming Interface information

IOSDMAP

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IOSDMAP Heading Information

Common Name: MAP - IOS Map Service Parameter List
Macro ID: IOSDMAP
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: N/A
Key: N/A
Data Space: N/A
Residency: N/A
Size: 40 Bytes
Created by: N/A
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	Offsets 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	Offsets 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 corressponds to the bit settings in the PIM for this Channel path.
2	(2)	BITSTRING	1	MAPBIT	

Comment

EQU X'80' Reserved

End of Comment

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.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 avaialble
		1		MAPVARY	"X'01'" If ON, Vary offline in progress

IOSDMAP Cross Reference

Name	Hex Offset	Hex Value
IOSDMAP	0	
MAPBIT	2	
MAPCHPDT	10	
MAPCHPID	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 Programming Interface information

Programming Interface information

IOSDNPPL

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IOSDNPPL Heading Information

Common Name: New Purge Parameter List
Macro ID: IOSDNPPL
DSECT Name: NPPL
Owning Component: IOS (SC1C3)
Eye-Catcher ID: NPPL
Offset: 28
Length: 4
Storage Attributes: Subpool: Caller
Key: Key of Caller
Residency: Above or Below
Size: 32 bytes
Created by: Issuers of the PURGE macro
Pointed to by: N/A
Serialization: None
Function: This DSECT describes the control block containing all the information necessary to do I/O purging to support 31-bit arguments.

IOSDNPPL Map

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NPPL	
0	(0)	BITSTRING	1	NPPLOPT1	Option byte one
		1...		NPPLDS	"X'80'" If DSID purge requested, purge a single DSID. If zero, purge a list of DSIDs. In either case, the caller must be in supervisor state
		.1..		NPPLPOST	"X'40'" ECBs associated with the I/O requests purged should be posted with X'48'
		..1.		NPPLHIO	"X'20'" Halt the I/O requests
		...1		NPPLREL	"X'10'" Purge only the I/O requests marked related and associated with the argument (EXCP only)
		.... 1...		NPPLNPPL	"X'08'" Indicator that new PPL is being used
		.... .1..		NPPLRB	"X'04'" Do not purge the RB chain for asynchronously scheduled routines
		.... ..1.		NPPLTASK	"X'02'" Purge a single TCB
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).
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)

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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	
NPPLIOPT	2	80
NPPLMEM	1	20
NPPLNPPL	0	8
NPPLOFST	6	
NPPLOPT1	0	
NPPLOPT2	1	
NPPLOPT3	2	
NPPLOPT4	3	
NPPLOTCB	1	8
NPPLPIRL	10	
NPPLPOST	0	40
NPPLRB	0	4
NPPLREL	0	10
NPPLRSVD	18	
NPPLSRB	14	
NPPLTASK	0	2
NPPLTCB	C	
NPPLTSKM	1	4
NPPLUCB	1	1
NPPLVC	1	10

IOSDPATH Programming Interface information

Programming Interface information

IOSDPATH

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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	Offsets 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...		PATHINTTYPENOTAVAILABLE	"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)
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)	SIGNED	1	PATHINTTYPE	Interface type entry. Constants defining the possible values are below and begin with PathIntType_
37	(25)	CHARACTER	23		Reserved
256	(100)	X'0'	0	PATHINTTYPE_UNKNOWN	"0" Channel path description not known

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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
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'16'	0	PATHINTTYPE_ICB_SENDER	"22" Integrated Cluster Bus Send
256	(100)	X'17'	0	PATHINTTYPE_ICB_RECEIVER	"23" Integrated Cluster Bus Recv
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 CHPID
256	(100)	X'1F'	0	PATHINTTYPE_EIO	"31" Emulated I/O CHPID
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 CHPID
256	(100)	X'25'	0	PATHINTTYPE_FCP	"37" Fibre Channel Protocol CHPID
256	(100)	X'100'	0	PATH_LEN	"*-PATH"

IOSDPATH Cross Reference

Name	Hex Offset	Hex Value
PATH	0	
PATH_LEN	100	100
PATH#CHPIDS	0	
PATHBITS	23	
PATHCHPID	20	
PATHCHPIDARRAY	20	
PATHCMM	23	20
PATHCPM	23	8
PATHDCMVSW	23	40
PATHFC	5	20
PATHFLAGS	4	
PATHFLAGS1	5	
PATHINTTYPE	24	
PATHINTTYPE_BLOCK_MTPX	100	1
PATHINTTYPE_BYTE_MTPX	100	2
PATHINTTYPE_CBP	100	21
PATHINTTYPE_CFP	100	22
PATHINTTYPE_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
PATHINTTYPE_IISC_RECEIVER	100	19
PATHINTTYPE_IISC_SENDER	100	18
PATHINTTYPE_IQD	100	24
PATHINTTYPE_ISD	100	13
PATHINTTYPE_OSA	100	12
PATHINTTYPE_OSA_DIRECT_EXPRESS	100	11
PATHINTTYPE_OSA_EXPRESS	100	10
PATHINTTYPE_UNKNOWN	100	0
PATHINTTYPENOTAVAILABLE	5	80
PATHLPM	23	4
PATHLPUM	6	
PATHMASK	22	
PATHOPM	23	10
PATHPAM	23	2
PATHUA	7	
PATHUAVALID	5	40
PATHVALPH	4	80
PATHVARY	23	1

IOSDPAVA Programming Interface information

Programming Interface information

IOSDPAVA

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IOSDPAVA Heading Information

Common Name: Parallel Access Volume Array (PAVA) mapping
Macro ID: IOSDPAVA
DSECT Name: PAVA
Owning Component: IOS (SC1C3)
Eye-Catcher ID: none
Storage Attributes: Subpool: caller-provided
Key: caller-provided
Residency: caller-provided
Size: 4 bytes plus 4 bytes per array element.
PAVA -- X'0050' bytes
Created by: issuer of UCBINFO PAVINFO
Pointed to by: N/A
Serialization: N/A
Function: Maps the input/output area for the PAVAREA keyword associated with UCBINFO PAVINFO.

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)	SIGNED	1	PAVAVERS	Version
5	(5)	CHARACTER	1		Reserved
6	(6)	SIGNED	2	PAVALNTH	Length of PAVA as input to UCBINFO service
8	(8)	SIGNED	2	PAVATCNT	If PAVAPAVB is on indicating the input device is an active PAV-base, then this field contains the current total number of PAV devices associated with the input device (i.e., the count of bound PAV-alias devices plus 1 for the PAV-base). Otherwise, this field is set to one. Note: If the PAVINFO service indicates the PAVAREA was not large enough to contain all of the device entries, this field should be used to recalculate the new size for the PAVAREA. The new size is the PAVA header plus the size of a PAVA entry multiplied by the PAVATCNT.
10	(A)	SIGNED	2	PAVARCNT	Count of the number of PAVARRAY entries filled in by this service. Notes: . This field is not equal to PAVATCNT when the PAVAREA passed by the caller is not large enough to contain all of the PAV devices associated with the input device. . If PAVINFOSUM=YES is specified, PAVARCNT is set equal to PAVATCNT by this service.
12	(C)	CHARACTER	4	PAVAIOQ (0)	IOQ counts
12	(C)	SIGNED	2	PAVAIOQS	Number of started IOQs
14	(E)	SIGNED	2	PAVAIOQC	Total number of IOQs
16	(10)	CHARACTER	4	PAVATOKN	PAV token - changes every time the set of PAV-Alias devices change in any way
20	(14)	CHARACTER	60	PAVARRAY (0)	PAVA array element. Each element represents a single exposure in the PAV. The first element contains information on the PAV-base device and the subsequent entries contain information on the bound PAV-alias device(s). Note: If the input device is a non-PAV DASD, only the first element will be filled in and will contain information on the input device.
20	(14)	SIGNED	2	PAVADEVN	Device number
22	(16)	CHARACTER	2	PAVAFLG1 (0)	Flag byte
		1...		PAVAPAVC	"X'80'" PAV-base capability
		.1..		PAVAPAVB	"X'40'" Indicates that the input device is an active PAV-base. This implies the PAV-base has one or more bound PAV-alias devices associated with it.
		..1.		PAVAPAVA	"X'20'" PAV-Alias device

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		...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
24	(18)	CHARACTER	32	PAVACMB (0)	If PAVAMCMB is set,), Channel Measurement Block Data
24	(18)	SIGNED	2	PAVASCHC	SSCH+RSCH instruction count
26	(1A)	SIGNED	2	PAVASAMP	Sample count
28	(1C)	SIGNED	4	PAVACONN	Connect time
32	(20)	SIGNED	4	PAVAPEND	Pending time
36	(24)	SIGNED	4	PAVADISC	Disconnect time
40	(28)	SIGNED	4	PAVACUQT	Control unit queue time
44	(2C)	SIGNED	4	PAVADAO	Device-active-only time
48	(30)	SIGNED	4		Reserved
52	(34)	SIGNED	4		Reserved
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	12		Reserved
68	(44)	X'50'	0	PAVA_LEN	"*-PAVA"

IOSDPAVA Cross Reference

Name	Hex Offset	Hex Value
PAVA	0	
PAVA_LEN	44	50
PAVACBSY	3C	
PAVACMB	18	
PAVACONN	1C	
PAVACUQT	28	
PAVADAO	2C	
PAVADBSY	38	
PAVADEVN	14	
PAVADISC	24	
PAVAFLG1	16	
PAVAHEAD	0	
PAVAID	0	
PAVAIOQ	C	
PAVAIOQC	E	
PAVAIOQS	C	
PAVALNTH	6	
PAVAMCMB	16	8
PAVAPAVA	16	20
PAVAPAVB	16	40
PAVAPAVC	16	80
PAVAPAVW	16	10
PAVAPEND	20	
PAVARCNT	A	
PAVARRAY	14	
PAVASAMP	1A	
PAVASBSY	40	
PAVASCHC	18	
PAVASMDB	38	
PAVASTSC	16	4
PAVATCNT	8	
PAVATOKN	10	
PAVAVERS	4	

IOSDPAVE Programming Interface information

Programming Interface information

IOSDPAVE

End of Programming Interface information

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IOSDPAVE Heading Information

Common Name: IOS Parallel Access Volume Exit Table
Macro ID: IOSDPAVE
DSECT Name: PAVE
Owning Component: IOS (SC1C3)
Eye-Catcher ID: PAVE
Offset: 0
Length: 4
Storage Attributes: Main Storage: Yes
Virtual Storage: N/A
Auxiliary Storage: N/A
Subpool: Nucleus
Key: N/A
Data Space: N/A
Residency: Above 16M Line
Size: 8-Byte Header plus 4-bytes per entry
Created by: IOSVDATA
Pointed to by: IOCPAVE field of the IOCOM
Serialization: Compare and Swap (CS) when setting Exit Table Entries
Function: IOSDPAVE maps the Parallel Access Volume (PAV) exit table to be used by callers who require synchronous notification when the PAV state changes for a device. Note that asynchronous notification is done via ENF 33 processing.

IOSDPAVE Map

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	

IOSDSHID Programming Interface information

Programming Interface information

IOSDSHID

End of Programming Interface information

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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, and the Central Processing Complex Node Descriptor.

ACRONYM = SHID

IOSDSHID Map

Offsets Dec	Offsets 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_CPUAD	CPU address
2	(2)	CHARACTER	5	SHID_INFO (0)	CPU serial/model numbers
2	(2)	CHARACTER	3	SHID_CPUID	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_CPUAD	CPU address
13	(D)	CHARACTER	5	AHID_INFO (0)	CPU serial/model numbers
13	(D)	CHARACTER	3	AHID_CPUID	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

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

Reserved

End of Comment

54	(36)	CHARACTER	2	SHID_RSVD	Reserved

IOSDSHID Cross Reference

Name	Hex Offset	Hex Value
AHID_CPUAD	B	
AHID_CPUID	D	
AHID_INFO	D	
AHID_MODNO	10	
AHID_TODCL	12	
CPCND_FLAGS	16	
CPCND_INVAL	16	40
CPCND_MAN	23	
CPCND_MODEL	20	
CPCND_NTYPE	16	10
CPCND_PARMS	17	
CPCND_PLANT	26	
CPCND_SDC	1A	
CPCND_SEQNO	28	
CPCND_TAG	34	
CPCND_TYPE	1A	
CPCND_VALID	16	E0
SHID	0	
SHID_AHID	B	
SHID_CPCND	16	
SHID_CPUAD	0	
SHID_CPUID	2	
SHID_INFO	2	
SHID_MODNO	5	
SHID_RSVD	36	
SHID_SHID	0	
SHID_TODCL	7	

IOSDSRWQ Heading Information

Common Name: Subchannel Recovery Word Queuing Element
Macro ID: IOSDSRWQ
DSECT Name: SRWQ
Owning Component: IOS (SC1C3)
Eye-Catcher ID: SRWQ
Offset: 0
Length: 4
Storage Attributes: Main Storage: YES
Virtual Storage: n/a
Auxiliary Storage: n/a
Subpool: 245
Key: 0
Residency: Above 16MB line
Size: 128 bytes.
Created by: IOSRACRW when obtaining the hardware pending CRWs. By IOS modules when they create software CRWs.
Pointed to by: UCBSCHRC field of the UCB data area
Serialization: For Subchannel Recovery, the UCB lock.
Function: The SRWQ contains all the data and pointers needed by IOS modules to perform Subchannel recovery

IOSDSRWQ Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	128	SRWQ	
0	(0)	CHARACTER	32	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.		*	Reserved
		...1		SRWQSCBV	If ON, the SRWQSCIB field contains valid SCHIB data.
		.... 1...		SRWQECBA	If ON, the SRWQFECB field contains an ECB address.
		.... .1..		SRWQSCHW	If ON, a subchannel recovery process, described by this SRWQ, is waiting for the completion of channel path recovery.
		.... ..1.		*	Reserved
		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.		SRWQTHRD	If the SRWQ element represents a software generated CRW, this bit indicates that the CRW should be treated like a hardware generated CRW.
		...1		SRWQ_PIN_UCBLOOK	

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IOSDSRWQ Cross Reference

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					UCB pinned by UCBLOOK service SRWQPIN field valid
		.... 1...		SRWQ_PIN_UCBSCAN	
					UCB pinned by UCBSCAN service
		.... .111		*	Reserved
29	(1D)	CHARACTER	1	SRWQRSV1	Reserved
30	(1E)	ADDRESS	2	SRWQCP	Processor address CRW retreived on
32	(20)	CHARACTER	44	SRWQSRB	SRB
76	(4C)	CHARACTER	28	SRWQFLD2	Recovery dependent data field
76	(4C)	CHARACTER	28	SRWQSCIB	SCHIB data for subchannel recovery
104	(68)	CHARACTER	4	SRWQFECB	ECB address
108	(6C)	ADDRESS	4	SRWQASCB	ASCB for ECB (zero if masters address space is to be posted
112	(70)	CHARACTER	8	SRWQPIN	Pin token for UCB - valid when SRWQ_Pin_UCBLOOK set
120	(78)	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	6C	
SRWQASNO	10	
SRWQCMPL	18	01
SRWQCP	1E	
SRWQCRW	8	
SRWQDATA	14	
SRWQECBA	18	08
SRWQFECB	68	
SRWQFLD1	0	
SRWQFLD2	4C	
SRWQFLG1	18	
SRWQFLG2	1C	
SRWQID	0	
SRWQLENG	1A	
SRWQMSG	1C	40
SRWQNCON	1C	80
SRWQNEXT	4	
SRWQPIN	70	
SRWQRSV1	1D	
SRWQSCBV	18	10
SRWQSCHW	18	04
SRWQSCIB	4C	
SRWQSOFT	18	40
SRWQSP	19	
SRWQSQNO	C	
SRWQSRB	20	
SRWQSTKN	78	
SRWQTHRD	1C	20

IOSDSWTD Programming Interface information

Programming Interface information

IOSDSWTD

End of Programming Interface information

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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
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
9	(9)	SIGNED	1	SWITCH_TOTAL_INSTALLED	
					Total number of installed ports
10	(A)	CHARACTER	1	SWITCH_FLAGS	Flags
		1...		SWITCH_OFFLINE	
					"X'80'" On = offline switch
11	(B)	SIGNED	1		Reserved
12	(C)	CHARACTER	32	SWITCH_NODE_DESC	
					Node descriptor
44	(2C)	CHARACTER	8		Reserved
44	(2C)	X'34'	0	SWITCH_LEN	"*-SWITCH_DATA_AREA"

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	SWITCH_PORT_RECORD	
					Port record
0	(0)	SIGNED	2	SWITCH_PORT_OFFSET_NEXT	
					Offset to next port record
2	(2)	SIGNED	1	SWITCH_PORT_ADDRESS	
					Logical port address
3	(3)	SIGNED	1	SWITCH_PORT_NUMBER	
					Port number

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
4	(4)	CHARACTER	1	SWITCH_PORT_FLAGS_1	Port flags set 1
		1...		SWITCH_PORT_INSTALLED	"X'80'" On = port installed
		.1..		SWITCH_PORT_COMMMAND_OFFLINE	"X'40'" On = offline to DCM by command
		..1.		SWITCH_PORT_SYSTEM_OFFLINE	"X'20'" On = offline to DCM by system
		...1		SWITCH_PORT_STATE_OFFLINE	"X'10'" On = offline to DCM by port state
		.... 1...		SWITCH_PORT_DCM_INELIGIBLE	"X'08'" On = ineligible for use by DCM
		.... .1..		SWITCH_PORT_CHANNEL	"X'04'" On = attached to channel
		.... ..1.		SWITCH_PORT_CU	"X'02'" On = attached to CUs
		1		SWITCH_PORT_UNKNOWN	"X'01'" On = neither CHPID or CU(s)
5	(5)	CHARACTER	1	SWITCH_PORT_FLAGS_2	Port flags set 2
		1...		SWITCH_PORT_MACHINE_CHANNEL	"X'80'" On = channel on caller's machine
		.1..		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 CHPIDs connected
12	(C)	SIGNED	4	SWITCH_PORT_TIME_STAMP	Destination port busy time stamp
16	(10)	CHARACTER	4	SWITCH_PORT_DESC	Port descriptor
20	(14)	CHARACTER	32	SWITCH_PORT_PDCM	Prohibit Dynamic Connectivity Mask
52	(34)	CHARACTER	32	SWITCH_PORT_ATT_ND	Attached node descriptor
84	(54)	SIGNED	1	SWITCH_PORT_CHPID	CHPID number
85	(55)	SIGNED	1	SWITCH_PORT_CU_COUNT	Number of CU entries
86	(56)	SIGNED	2	SWITCH_PORT_CU_#	CU number array entry

IOSDSWTD Cross Reference

Name	Hex Offset	Hex Value
SWITCH_DATA_AREA	0	
SWITCH_DEVICE	6	
SWITCH_E_PORT	5	40
SWITCH_FLAGS	A	
SWITCH_ID	0	
SWITCH_LEN	2C	34
SWITCH_NODE_DESC	C	
SWITCH_OFFLINE	A	80
SWITCH_OFFSET_1ST_PORT	5	
SWITCH_PORT_ADDRESS	2	
SWITCH_PORT_ATT_ND	34	
SWITCH_PORT_CHANNEL	4	4
SWITCH_PORT_CHPID	54	
SWITCH_PORT_COMMMAND_OFFLINE	4	40
SWITCH_PORT_CU	4	2
SWITCH_PORT_CU_#	56	
SWITCH_PORT_CU_COUNT	55	
SWITCH_PORT_DCM_INELIGIBLE	4	8
SWITCH_PORT_DESC	10	
SWITCH_PORT_FLAGS_1		

Name	Hex Offset	Hex Value
	4	
SWITCH_PORT_FLAGS_2		
	5	
SWITCH_PORT_INSTALLED		
	4	80
SWITCH_PORT_MACHINE_CHANNEL		
	5	80
SWITCH_PORT_NUMBER		
	3	
SWITCH_PORT_OFFSET_NEXT		
	0	
SWITCH_PORT_PATH_COUNT		
	A	
SWITCH_PORT_PDCM		
	14	
SWITCH_PORT_RECORD		
	0	
SWITCH_PORT_STATE_OFFLINE		
	4	10
SWITCH_PORT_SYSTEM_OFFLINE		
	4	20
SWITCH_PORT_TIME_STAMP		
	C	
SWITCH_PORT_UNKNOWN		
	4	1
SWITCH_TOTAL_IMPLEMENTED		
	8	
SWITCH_TOTAL_INSTALLED		
	9	
SWITCH_VERSION		
	4	

IOSDUPFX Programming Interface information

Programming Interface information

IOSDUPFX

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

- UCBCHPID
- UCBMBI
- UCBMCMB
- UCBRESVH
- UCBRESVP
- UCBRRP

End of Programming Interface information

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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	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	UPFX	,
0	(0)	BITSTRING	1	UCBRSTEM	Reset Event mask
1	(1)	SIGNED	1	UCBMIHKY	MIH UCB time interval key

Comment

IOS MIH control byte

End of Comment

2	(2)	BITSTRING	1	UCBMIHTI	Missing Interrupt Handler byte
		1...		UCBMIHSS	"X'80'" Customer-specified scan interval being used
		.1..		UCBMIHPB	"X'40'" With bit set, Missing Interrupt Handler checking of device is bypassed for started I/O requests for which idle with work queued conditions are not detected (set by device support code and MVS components)
		..1.		UCBMIHFF	"X'20'" MIH processing was turned oFF for the device via the SETIOS command or parmlib
		...1		UCBMIHMO	"X'10'" MIH Message-Only flag. Bypasses MIH/IOT recovery actions for the device. Currently used for I/O timing processing only.
		.... 1...		UCBIOQRP	"X'08'" Pending I/O request condition
		.... .1..		UCBMIHMP	"X'04'" Message pending, to be DOM'D during the next MIH scan
		.... ..1.		UCBMIHIO	"X'02'" Clear subchannel scheduled by MIH
		1		UCBPGDEV	"X'01'" Device is being used for paging

Comment

IOS HOT I/O control byte

End of Comment

3	(3)	SIGNED	1	UCBHOTIO	HOT-I/O indicator
		1...		UCBHSCD	"X'80'" SCD associated with the UCB

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
		.1..		UCBHSOL	"X'40'" A solicited interrupt has completed with other than DCC-3 since the last time HOT-I/O detection was called.
		..1.		UCBSUSOL	"X'20'" - Indicates that the last unsolicited interrupt occurred when a request was outstanding, and could have been induced
		...1		UCBINDHI	"X'10'" - Indicates that an induced hot I/O condition has been detected on the device
		.... 1...		UCBHCHPR	"X'08'" Channel path recovery is attempting to clear up a HOT-I/O condition for this device.
		.... .111		UCBHCHPI	"X'07'" IF UCBHCHPR is on, this is an index into UCBCHPID, specifying the channel path over which the HOT-I/O condition was detected.

Comment

IOS UCB IOQ chains of I/O requests associated with this device

End of Comment

4	(4)	ADDRESS	4	UCBIOQF	First request for this device
8	(8)	ADDRESS	4	UCBIOQL	Last request for this device

Comment

Associated subchannel data

End of Comment

12	(C)	SIGNED	4	UCBSID (0)	Subsystem-identification word in connected subchannel (valid only if UCBNOCON is not set)
12	(C)	SIGNED	2	UCBSIDA	X'0001'
14	(E)	SIGNED	2	UCBSCHNO	Subchannel number
16	(10)	SIGNED	2	UCBPMCW1	Path management control word

Comment

EQU X'8000' Reserved - set to zero
EQU X'4000' Reserved - set to zero

End of Comment

16	(10)	BITSTRING	0	UCBISC	"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

End of Comment

		1...		UCBENABL	"X'0080'" Subchannel enabled for interruptions
		.11.		UCBLM	"X'0060'" Limit mode checking state
		....		UCBLNONE	"X'0000'" No limit mode checking
		..1.		UCBLGTE	"X'0020'" Data address must be greater than or equal to the limit
		.1..		UCBLLT	"X'0040'" Data address must be less than the limit
		...1 1...		UCBMM	"X'0018'" Measurement mode state
		...1		UCBMCMB	"X'0010'" Store measurements in Channel Measurement Block
		.... 1...		UCBMDCTI	"X'0008'" DCTI is to be stored in Extended Status Word
		.... .1..		UCBDPMPM	"X'0004'" Dynamic pathing multiple path state

Comment

EQU X'0002' Reserved - set to zero
EQU X'0001' Reserved - set to zero

End of Comment

18	(12)	SIGNED	2	UCBMBI	Measurement Block Index

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

End of Comment

32	(20)	SIGNED	1	UCBLEVEL	Highest level set in UCBLVMSK
33	(21)	BITSTRING	1	UCBIOSF1	IOS flag byte
		1...		UCBRESVH	"X'80'" Device reserved indicator
		.1..		UCBVALPH	"X'40'" Path validation indicator
		..1.		UCBRESVP	"X'20'" Reserve channel program pending
		...1		UCBRRP	"X'10'" Reserve/release pending
		.... 1...		UCBDPTH	"X'08'" Dynamic pathing feature has been initialized for this device
		.... .1..		UCBDPVAL	"X'04'" Dynamic pathing validation required
		.... ..1.		UCBDSTF	"X'02'" Restart deivce state transition flushing
		1		UCBAPGID	"X'01'" - Alternate PGID established

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	UCBMIHFG	MIH flags byte
		1...		UCBMIHMT	"X'80'" Mount pending condition has been detected
		.1..		UCBMIHMI	"X'40'" Missing interrupt condition has been detected
		..1.		UCBMIHIW	"X'20'" Idle with work queued condition been detected
		...1		UCBMIHC1	"X'10'" An SSCH was issued and a condition code 1 was returned indicating status was pending at the subchannel. This flag is used to prevent improper detection of idle with work queued conditions.
		.... 1...		UCBIOTTM	"X'08'" An I/O timeout condition has been detected for an active I/O request
		.... .1..		UCBMIHC2	"X'04'" An SSCH was issued and a condition code 1 was returned indicating status was pending at the subchannel. This flag is used to trigger stage 2 processing to initiate recovery for this case.
		.... ..1.		UCBMIMIH	"X'02'" Device support code requested entry to the MIH exit at the minimal MIH scan (one second) provided no I/O requests are active on the device. For PAV devices, this bit is only set in the base.

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					Comment
		EQU X'01' Reserved IOS level bit mask			
					End of Comment
36	(24)	BITSTRING	4	UCBLVMSK	UCB level bit mask

IOSDUPFX Cross Reference

Name	Hex Offset	Hex Value
UCBAPGID	21	1
UCBCHPID	18	
UCBCHPS	18	
UCBDPMPM	10	4
UCBDPTH	21	8
UCBDPVAL	21	4
UCBDSTF	21	2
UCBENABL	10	80
UCBHCHPI	3	7
UCBHCHPR	3	8
UCBHOTIO	3	
UCBHSCD	3	80
UCBHSOL	3	40
UCBINDHI	3	10
UCBIOQF	4	
UCBIOQL	8	
UCBIOQRP	2	8
UCBIOSF1	21	
UCBIOTKY	22	
UCBIOTTM	23	8
UCBISC	10	3800
UCBLEVEL	20	
UCBLGTE	10	20
UCBLLT	10	40
UCBLM	10	60
UCBLNONE	10	0
UCBLPM	14	
UCBLPUM	16	
UCBLVMSK	24	
UCBMBI	12	
UCBMCMB	10	10
UCBMDCTI	10	8
UCBMIHC1	23	10
UCBMIHC2	23	4
UCBMIHFF	2	20
UCBMIHFG	23	
UCBMIHIO	2	2
UCBMIHIW	23	20
UCBMIHKY	1	
UCBMIHMI	23	40
UCBMIHMO	2	10
UCBMIHMP	2	4
UCBMIHMT	23	80
UCBMIHPB	2	40
UCBMIHSS	2	80
UCBMIHTI	2	
UCBMIMIH	23	2
UCBMM	10	18
UCBPGDEV	2	1
UCBPIM	17	
UCBPMCW1	10	
UCBRESVH	21	80
UCBRESVP	21	20
UCBRRP	21	10
UCBRSTEM	0	
UCBSCHNO	E	
UCBSID	C	
UCBSIDA	C	
UCBSUSOL	3	20
UCBVALPH	21	40
UPFX	0	

IOSDUPI Programming Interface information

Programming Interface information

IOSDUPI

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

- UCBCHPID
- UCBMBI
- UCBMCMB
- UCBRESVH
- UCBRESVP
- UCBRRP

End of Programming Interface information

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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	Offsets 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	UCBMIHKY	MIH UCB time interval key

Comment

IOS MIH control byte

End of Comment

2	(2)	BITSTRING	1	UCBMIHTI	Missing Interrupt Handler byte
		1...		UCBMIHSS	"X'80'" Customer-specified scan interval being used
		.1..		UCBMIHPB	"X'40'" With bit set, Missing Interrupt Handler checking of device is bypassed for started I/O requests for which idle with work queued conditions are not detected (set by device support code and MVS components)
		..1.		UCBMIHFF	"X'20'" MIH processing was turned oFF for the device via the SETIOS command or parmlib
		...1		UCBMIHMO	"X'10'" MIH Message-Only flag. Bypasses MIH/IOT recovery actions for the device. Currently used for I/O timing processing only.
		.... 1...		UCBIOQRP	"X'08'" Pending I/O request condition
		.... .1..		UCBMIHMP	"X'04'" Message pending, to be DOM'D during the next MIH scan
		.... ..1.		UCBMIHIO	"X'02'" Clear subchannel scheduled by MIH
		1		UCBPGDEV	"X'01'" Device is being used for paging

Comment

IOS HOT I/O control byte

End of Comment

3	(3)	SIGNED	1	UCBHOTIO	HOT-I/O indicator
		1...		UCBHSCD	"X'80'" SCD associated with the UCB
		.1..		UCBHSOL	"X'40'" A solicited interrupt has completed with other than DCC-3 since the last time HOT-I/O detection was called.
		..1.		UCBSUSOL	"X'20'" - Indicates that the last unsolicited interrupt occurred when a request was outstanding, and could have been induced

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		...1		UCBINDHI	"X'10'" - Indicates that an induced hot I/O condition has been detected on the device
		.... 1...		UCBHCHPR	"X'08'" Channel path recovery is attempting to clear up a HOT-I/O condition for this device.
		.... .111		UCBHCHPI	"X'07'" IF UCBHCHPR is on, this is an index into UCBCHPID, specifying the channel path over which the HOT-I/O condition was detected.

Comment

IOS UCB IOQ chains of I/O requests associated with this device

End of Comment

4	(4)	ADDRESS	4	UCBIOQF	First request for this device
8	(8)	ADDRESS	4	UCBIOQL	Last request for this device

Comment

Associated subchannel data

End of Comment

12	(C)	SIGNED	4	UCBSID (0)	Subsystem-identification word in connected subchannel (valid only if UCBNOCON is not set)
12	(C)	SIGNED	2	UCBSIDA	X'0001'
14	(E)	SIGNED	2	UCBSCHNO	Subchannel number
16	(10)	SIGNED	2	UCBPMCW1	Path management control word

Comment

EQU X'8000' Reserved - set to zero
EQU X'4000' Reserved - set to zero

End of Comment

16	(10)	BITSTRING	0	UCBISC	"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

End of Comment

		1...		UCBENABL	"X'0080'" Subchannel enabled for interruptions
		.11.		UCBLM	"X'0060'" Limit mode checking state
		....		UCBLNONE	"X'0000'" No limit mode checking
		..1.		UCBLGTE	"X'0020'" Data address must be greater than or equal to the limit
		.1..		UCBLLT	"X'0040'" Data address must be less than the limit
		...1 1...		UCBMM	"X'0018'" Measurement mode state
		...1		UCBMCMB	"X'0010'" Store measurements in Channel Measurement Block
		.... 1...		UCBMDCTI	"X'0008'" DCTI is to be stored in Extended Status Word
		.... .1..		UCBDPMPM	"X'0004'" Dynamic pathing multiple path state

Comment

EQU X'0002' Reserved - set to zero
EQU X'0001' Reserved - set to zero

End of Comment

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

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

End of Comment

32	(20)	SIGNED	1	UCBLEVEL	Highest level set in UCBLVMSK
33	(21)	BITSTRING	1	UCBIOSF1	IOS flag byte
		1...		UCBRESVH	"X'80'" Device reserved indicator
		.1..		UCBVALPH	"X'40'" Path validation indicator
		..1.		UCBRESVP	"X'20'" Reserve channel program pending
		...1		UCBRRP	"X'10'" Reserve/release pending
		.... 1...		UCBDPTH	"X'08'" Dynamic pathing feature has been initialized for this device
		.... .1..		UCBDPVAL	"X'04'" Dynamic pathing validation required
		.... ..1.		UCBDSTF	"X'02'" Restart deivce state transition flushing
		1		UCBAPGID	"X'01'" - Alternate PGID established

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	UCBMIHFG	MIH flags byte
		1...		UCBMIHMT	"X'80'" Mount pending condition has been detected
		.1..		UCBMIHMI	"X'40'" Missing interrupt condition has been detected
		..1.		UCBMIHIW	"X'20'" Idle with work queued condition been detected
		...1		UCBMIHC1	"X'10'" An SSCH was issued and a condition code 1 was returned indicating status was pending at the subchannel. This flag is used to prevent improper detection of idle with work queued conditions.
		.... 1...		UCBIOTTM	"X'08'" An I/O timeout condition has been detected for an active I/O request
		.... .1..		UCBMIHC2	"X'04'" An SSCH was issued and a condition code 1 was returned indicating status was pending at the subchannel. This flag is used to trigger stage 2 processing to initiate recovery for this case.
		.... ..1.		UCBMIMIH	"X'02'" Device support code requested entry to the MIH exit at the minimal MIH scan (one second) provided no I/O requests are active on the device. For PAV devices, this bit is only set in the base.

Comment

EQU X'01' Reserved
IOS level bit mask

End of Comment

36	(24)	BITSTRING	4	UCBLVMSK	UCB level bit mask

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

IOSDUPI Cross Reference

Name	Hex Offset	Hex Value
UCBAPGID	21	1
UCBCHPID	18	
UCBCHPS	18	
UCBDPMPM	10	4
UCBDPTH	21	8
UCBDPVAL	21	4
UCBDSTF	21	2
UCBENABL	10	80
UCBHCHPI	3	7
UCBHCHPR	3	8
UCBHOTIO	3	
UCBHSCD	3	80
UCBHSOL	3	40
UCBINDHI	3	10
UCBIOQC	2C	
UCBIOQF	4	
UCBIOQL	8	
UCBIOQRP	2	8
UCBIOSF1	21	
UCBIOTKY	22	
UCBIOTTM	23	8
UCBISC	10	3800
UCBLEVEL	20	
UCBLGTE	10	20
UCBLLT	10	40
UCBLM	10	60
UCBLNONE	10	0
UCBLOCKC	28	
UCBLPM	14	
UCBLPUM	16	
UCBLVMSK	24	
UCBMBI	12	
UCBMCMB	10	10
UCBMDCTI	10	8
UCBMIHC1	23	10
UCBMIHC2	23	4
UCBMIHFF	2	20
UCBMIHFG	23	
UCBMIHIO	2	2
UCBMIHIW	23	20
UCBMIHKY	1	
UCBMIHMI	23	40
UCBMIHMO	2	10
UCBMIHMP	2	4
UCBMIHMT	23	80
UCBMIHPB	2	40
UCBMIHSS	2	80
UCBMIHTI	2	
UCBMIMIH	23	2
UCBMM	10	18
UCBPDATA	0	
UCBPGDEV	2	1
UCBPIM	17	
UCBPMCW1	10	
UCBRESVH	21	80
UCBRESVP	21	20
UCBRRP	21	10
UCBRSTEM	0	
UCBSCHNO	E	
UCBSID	C	
UCBSIDA	C	
UCBSUSOL	3	20
UCBVALPH	21	40

IPIB Heading Information

Common Name: I/O Purge Interface Block
Macro ID: IECDIPIB
DSECT Name: IPIB
Owning Component: I/O Supervisor (SC1C3)
Eye-Catcher ID: IPIB
Offset: 44
Length: 4
Storage Attributes: Main Storage: YES
Virtual Storage: N/A
Auxiliary Storage: N/A
Subpool: 226
Key: 0
Data Space: N/A
Residency: Below 16M
Size: IPIB - 56 Bytes
IPIB Extension - 32 Bytes
Created by: IOSPURGA
Pointed to by: IOSIPIB field of the IOSB
ASCBIOSP field of the ASCB
PWAIPIB field of the PWA
IOCPURGC field of the IOCOM
Serialization: IPIB - None
IPIB Extension - IOSYNCH Lock
Function: Describes the IOS purge interface block and IOS purge interface block extension that is used to contain all the information that is communicated between the IOS purge function and the IOS drivers.

IPIB 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

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

Comment

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:
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)

End of Comment

Dec	Hex	Type/Value	Len	Name (Dim)	Description
12	(C)	ADDRESS	4	IPIBARG	Purge argument.....

Comment

End of Comment

Dec	Hex	Type/Value	Len	Name (Dim)	Description
16	(10)	ADDRESS	4	IPIBSRB	Pointer to the first SRB of SRBS that have been collected for return to the appropriate driver
20	(14)	CHARACTER	8	*	
20	(14)	ADDRESS	4	IPIBIO	Pointer to the I/O request returned to purge for placement on the PIRL (Quiesce function)
24	(18)	ADDRESS	4	IPIBDVRU	Pointer to additional data that a driver provides to be made available when the driver is requested to restore. Purge sets this driver data in the driver slot on the PIRL
28	(1C)	ADDRESS	4	IPIBPIRL	Pointer to the PIRL associated with purge request.
32	(20)	ADDRESS	4	IPIBPSQ	Pointer to the chain of I/O requests involved with this purge, found by routines running asynchronously with the purge routine (E.G. the interrupt handler).
36	(24)	ADDRESS	4	IPIBLNK	Pointer to a chained IPIB for a halt purge. The first would be a quiesce.
40	(28)	ADDRESS	4	IPIBASCB	ASCB address for memory in which purge was issued.
44	(2C)	CHARACTER	4	IPIBIPIB	Control block acronym --in EBCDIC--
48	(30)	ADDRESS	4	IPIBPASS	IPIB pass count.
52	(34)	ADDRESS	4	IPIBARG2	If purge by UCB, contains the address of UCB to use as second argument on driver call.
56	(38)	CHARACTER	0	IPIBEND	End of IPIB

Offsets Dec	Offsets 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
IPBE	0	
IPBENIPB	0	
IPBEPIPB	4	
IPIB	0	
IPIBARG	C	
IPIBARG2	34	
IPIBASCB	28	
IPIBCHN	2	10
IPIBCNT	4	
IPIBDQ	2	80
IPIBDVID	1	
IPIBDVRU	18	
IPIBECB	8	
IPIBEND	38	
IPIBFLG1	2	
IPIBHALT	0	04
IPIBIO	14	
IPIBIPIB	2C	
IPIBLNK	24	
IPIBMEM	0	80
IPIBOPT	0	
IPIBOTCB	0	02
IPIBPASS	30	
IPIBPBUV	2	20
IPIBPIRL	1C	
IPIBPOST	0	10
IPIBPSQ	20	
IPIBPVNT	0	01
IPIBQUIA	2	04
IPIBRBP	0	20
IPIBREL	0	08
IPIBSRB	10	
IPIBSRBP	8	
IPIBSRBS	2	08
IPIBTASK	0	40
IPIBTIME	2	40

IPWA Heading Information

Common Name: IPWA - Purge Work Area
Macro ID: IOSDIPWA
DSECT Name: PWA, PWAEXT, PWAEXT2, PWAEXT3
Owning Component: I/O Supervisor (SC1C3)
Eye-Catcher ID: IPWA
Offset: 0
Length: 4
Storage Attributes: Main Storage: YES
Virtual Storage: n/a
Auxiliary Storage: n/a
Subpool: 226
Key: 0
Residency: Below
Size: 992 bytes when IPWATQE='YES', 774 bytes otherwise
Created by: IOSPURGA, IOSPURGC
Pointed to by: PWAPTR
Serialization: Area PWAIPIBE is serialized via IOSYNCH lock.
The other areas of the PWA have none.
Function: This DSECT describes the control block mapping the dynamic workarea used by the modules implementing purge process.

IPWA Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	248	PWA	
0	(0)	ADDRESS	4	PWAEXTPT	ADDRESS OF PWA EXTENSION
4	(4)	CHARACTER	4	PWAID	IDENTIFIER 'IPWA'
8	(8)	CHARACTER	32	PWANPPL	NPPL GOES HERE
40	(28)	CHARACTER	56	PWAIPIB	IPIB GOES HERE
96	(60)	ADDRESS	4	PWAPRLPT	
100	(64)	ADDRESS	4	PWASAVWD	SAVEAREA FOR BRANCH CALLER'S SAVEAREA PTR
104	(68)	CHARACTER	72	PWAREGSV	REG SAVE AREA
104	(68)	SIGNED	4	PWAREG0	TEMPORARY REG SAVE AREA
108	(6C)	SIGNED	4	PWAREG1	
112	(70)	SIGNED	4	PWAREG2	
116	(74)	SIGNED	4	PWAREG3	
120	(78)	SIGNED	4	PWAREG4	
124	(7C)	SIGNED	4	PWAREG5	
128	(80)	SIGNED	4	PWAREG6	
132	(84)	SIGNED	4	PWAREG7	
136	(88)	SIGNED	4	PWAREG8	
140	(8C)	SIGNED	4	PWAREG9	
144	(90)	SIGNED	4	PWAREGA	
148	(94)	CHARACTER	20	PWAHISAV	
148	(94)	SIGNED	4	PWAREGB	
152	(98)	SIGNED	4	PWAREGC	
156	(9C)	SIGNED	4	PWAREGD	
160	(A0)	SIGNED	4	PWAREGE	
164	(A4)	SIGNED	4	PWAREGF	
168	(A8)	CHARACTER	8	*	REMAINDER OF SAVE AREA
176	(B0)	SIGNED	4	PWAHCNT	PURGE HALT COUNT
180	(B4)	SIGNED	4	PWAHALTQ	QUEUE OF HALTED SRBS
184	(B8)	SIGNED	4	PWAHECB	ECB FOR WAITING ON HALTS
188	(BC)	SIGNED	2	*	NUMBER OF TIMES ESTAE ENTERED

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Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
190	(BE)	CHARACTER	1	PWAMASK	MASK FLAG BYTE
		111.		*	RESERVED
		...1		PWASTIME	Indicator that start time must be stored in the EWA
		.... 1...		PWAIOCNT	Indicator that I/O should be counted in the IPIB
		.... .1..		PWANODRV	Indicator that driver ID not provided
		.... ..1.		PWABRNCH	INDICATOR THAT PURGE WAS CALLED VIA BRANCH ENTRY
		1		PWAFREE	INDICATOR THAT PIRL MUST BE FREED
191	(BF)	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
192	(C0)	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.
193	(C1)	CHARACTER	3	*	Reserved for alignment purposes.
196	(C4)	ADDRESS	4	PWASAVP	PIRL POINTER
200	(C8)	ADDRESS	4	PWAUCBLK	Savearea for UCB lock address.
204	(CC)	ADDRESS	4	PWARET0	Return address for subroutines.
208	(D0)	ADDRESS	4	PWARET1	Return address for subroutines.
212	(D4)	ADDRESS	4	PWARET2	Return address for subroutines.
216	(D8)	ADDRESS	4	PWARET3	Return address for subroutines.
220	(DC)	ADDRESS	4	PWARET4	Return address for subroutines.
224	(E0)	ADDRESS	4	PWARET5	Return address for subroutines.
228	(E4)	ADDRESS	4	PWARET15	Return address for subroutines.
232	(E8)	ADDRESS	4	PWAUCBP	Active UCB pointer.
236	(EC)	ADDRESS	4	PWACSAV1	Save area for IOSPURGC @
240	(F0)	ADDRESS	4	PWACSAV2	Save area for IOSPURGC
244	(F4)	ADDRESS	4	PWAPGEND	Displacement to last IOQ.

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	248	PWAEXT	PWA extension
0	(0)	ADDRESS	4	PWAELNK	Pointer to next block
4	(4)	CHARACTER	8	PWAEID	Identifier 'IPWA EXT'.
12	(C)	CHARACTER	60	PWAEMCPM	

Comment

Static parameters are placed here.

End of Comment

72	(48)	CHARACTER	20	PWAEPRM	PURGEDQ parm list.
72	(48)	ADDRESS	4	PWAEASPT	ASID pointer
76	(4C)	ADDRESS	4	PWAEPMPT	address of ASID and TCB pointer.
80	(50)	ADDRESS	4	PWAERMTR	Cleanup routine address.
84	(54)	CHARACTER	8	PWAEPDPM	
84	(54)	CHARACTER	2	*	Halfword alignment.
86	(56)	SIGNED	2	PWAEASID	ASID.
88	(58)	SIGNED	4	PWAETCB	TCB pointer.
92	(5C)	CHARACTER	72	PWAEABSV	18 word savearea for calls from IOSPURGA to IOSPURGB.
164	(A4)	CHARACTER	72	PWAEBCSV	18 word savearea for calls from IOSPURGB to IOSPURGC.
164	(A4)	CHARACTER	4	PWAEBCR0	

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
168	(A8)	CHARACTER	4	PWAEBCR1	
172	(AC)	CHARACTER	4	PWAEBCR2	
176	(B0)	CHARACTER	60	*	
236	(EC)	SIGNED	2	PWAIOQLN	Length of an IOQ.
238	(EE)	SIGNED	2	PWAASID	ASID for which purge working.
240	(F0)	UNSIGNED	2	PWAPRLNG	PIRL length.
242	(F2)	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.
243	(F3)	BITSTRING	1	PWAFLG1	Flags used by FRR and ESTAE.
		1...		PWALOCAL	Local lock is held.
		.1..		PWACMS	CMS lock is held.
		..1.		PWASYNLK	IOSYNCH lock is held (SYNPURGE).
		...1		PWANSDWA	No SDWA obtained in recovery.
		.... 1...		PWAWKUP	Purge was woken up by timer pop.
		.... .1..		PWARETRY	HSCH will be attempted again.
		.... ..1.		PWAUSPM	Processing is taking place which is dependent on integrity of user parameters (purge parameter list)
		1		PWAUSPM2	Indicator that users parameter list is being moved to PWA in IOSPURGC.
244	(F4)	ADDRESS	4	PWAIPIBA	Address of IPIB

Offsets Dec	Offsets 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).
		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 PREVNTIO 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.		PWADFRR	When set, indicates that IOSPURGD has obtained an FRR.
		1		*	Reserved.
1	(1)	ADDRESS	3	PWAIPBA	24-bit address of IPIB

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	248	PWAEXT2	PWA extension
0	(0)	ADDRESS	4	PWAELNK2	Pointer to next block.
4	(4)	CHARACTER	8	PWAE2ID	EBCDIC identifier.
12	(C)	ADDRESS	4	PWA13BSV	Savearea for register 13.
16	(10)	ADDRESS	4	PWAESV13	savearea for register 13.
20	(14)	ADDRESS	4	PWAE2S13	savearea for savearea pointer.
24	(18)	CHARACTER	72	PWAECBSV	savearea for calls from PURGC to PURGB.

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
96	(60)	CHARACTER	44	PWAESRB	SRB goes here.
140	(8C)	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
141	(8D)	BITSTRING	1	PWAPHWD	Flags used for controling Purge Halt with delay processing
		1...		PWAPHWD1	Purge halt with delay - first pass processing. Dequeue the inactive I/O operations and halt the non-DASD I/O and read only DASD I/O
		.1..		PWAPHWD2	Simulate Purge Quiesce in order to wait for active DASD writes
		..1.		PWAPHWD3	Simulated purge quiesce is complete, do one more purge halt in case any new operations got started
		...1		PWAPHWDT	Terminate current I/O request
		.... 1...		PWAPHWDW	Found atleast one DASD write I/O operation in the first pass, must perform purge quiesce (2nd pass)
142	(8E)	CHARACTER	1	PWAPHWDF	File mask of current I/O
143	(8F)	CHARACTER	1	*	Reserved
144	(90)	CHARACTER	8	PWAWORK8	8 byte work area - used by IOSTARTM macro
144	(90)	ADDRESS	4	PWASVR8	Save area for REG8 during I/O Prevention processing
148	(94)	ADDRESS	4	PWASVR14	Save area for REG14 during I/O Prevention processing
152	(98)	ADDRESS	4	PWARET6	Return address for subrtn
156	(9C)	CHARACTER	32	PWAIPIBE	IPIB Extension
188	(BC)	CHARACTER	60	*	Reserved for future use

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	248	PWAEXT3	PWA extension
0	(0)	ADDRESS	4	PWAELNK3	Pointer to next block
4	(4)	SIGNED	4	PWATQERC	Return code from ENQTQE
8	(8)	CHARACTER	128	PWATQE	TQE area (DWORD bdy)
8	(8)	CHARACTER	36	PWATRENT	IOS Ctrace entry
8	(8)	CHARACTER	2	PWATRLN	Length of TRAC
10	(A)	CHARACTER	16	PWATRAC	TRAC Area
26	(1A)	CHARACTER	2	PWATDLN	Length of trace data
28	(1C)	CHARACTER	16	PWATDATA	Trace data area
28	(1C)	CHARACTER	2	PWATASID	ASID where Purge is active
30	(1E)	CHARACTER	2	*	Reserved
32	(20)	CHARACTER	8	PWATJOBN	Jobname of Purge requestor
44	(2C)	CHARACTER	40	PWAAXENT	ASAXTRAC parameter list. Though the actual size of the parameter list is defined in IOSXDEF as 512 bytes, only the amount needed for the trace entry as well as four bytes for the trace entry length are used by ASAXTRAC.
84	(54)	CHARACTER	52	*	Reserved - this declaration will generate a complier error in the event the CTRACE entries grow larger than the area reserved for the TQE
136	(88)	ADDRESS	4	PWAASCB	ASCB for xmem post
140	(8C)	CHARACTER	8	PWACLK1	STCK TOD clock storage
140	(8C)	UNSIGNED	4	PWACLK1H	High Word TOD clock time
144	(90)	UNSIGNED	4	PWACLK1L	Low Word TOD clock time
148	(94)	CHARACTER	8	PWACLK2	STCK TOD clock storage
148	(94)	UNSIGNED	4	PWACLK2H	High Word TOD clock time
152	(98)	UNSIGNED	4	PWACLK2L	Low Word TOD clock time
156	(9C)	UNSIGNED	4	PWACLKCC	Used for testing condition code on the STCK instruction
		11..		*	
		..11		PWASTKCC	STCK Condition Code
156	(9C)	BITSTRING	3	*	
160	(A0)	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
160	(A0)	BITSTRING	3	*	Reserved for future use
164	(A4)	CHARACTER	84	*	Reserved for future use

IPWA Cross Reference

Name	Hex Offset	Hex Value
PWA	0	
PWAASCB	88	
PWAASID	EE	
PWAAXENT	2C	
PWABRNCH	BE	02
PWACLKCC	9C	
PWACLK1	8C	
PWACLK1H	8C	
PWACLK1L	90	
PWACLK2	94	
PWACLK2H	94	
PWACLK2L	98	
PWACMS	F3	40
PWACSAV1	EC	
PWACSAV2	F0	
PWACYCLE	C0	08
PWADFRR	0	02
PWADLLCK	0	08
PWADMODE	0	04
PWADSID	BF	40
PWAEABSV	5C	
PWAEASID	56	
PWAEASPT	48	
PWAEBCR0	A4	
PWAEBCR1	A8	
PWAEBCR2	AC	
PWAEBCSV	A4	
PWAECBSV	18	
PWAEID	4	
PWAELNK	0	
PWAELNK2	0	
PWAELNK3	0	
PWAEMCPM	C	
PWAENQFL	F2	10
PWAEPDPM	54	
PWAEPMPT	4C	
PWAEPRM	48	
PWAERMTR	50	
PWAESRB	60	
PWAESTA	C0	40
PWAESV13	10	
PWAETCB	58	
PWAEXT	0	
PWAEXTPT	0	
PWAEXT2	0	
PWAEXT3	0	
PWAE2ID	4	
PWAE2S13	14	
PWAFLAGS	A0	
PWAFLG0	F2	
PWAFLG1	F3	
PWAFLG2	8C	
PWAFREE	BE	01
PWAFRR	F2	01
PWAHALTQ	B4	
PWAHCNT	B0	
PWAHECB	B8	
PWAHISAV	94	
PWAID	4	
PWAINVAL	C0	04
PWAIOCNT	BE	08
PWAIOMEM	0	10
PWAIOPRV	0	40
PWAIOQLN	EC	
PWAIOQP	F2	04
PWAIOQSC	0	20
PWAIOSP	F2	40
PWAIPBA	1	
PWAIPIB	28	
PWAIPIBA	F4	
PWAIPIBE	9C	
PWAIPIBV	0	80
PWALOCAL	F3	80
PWAMASK	BE	
PWAMEM	C0	80
PWANODRV	BE	04
PWANOENQ	BF	20
PWANPPL	8	
PWANSDWA	F3	10
PWAPGCT	F2	80
PWAPGEND	F4	
PWAPHWD	8D	
PWAPHWDF	8E	
PWAPHWDT	8D	10
PWAPHWDW	8D	08
PWAPHWD1	8D	80
PWAPHWD2	8D	40
PWAPHWD3	8D	20
PWAPRBST	8C	80
PWAPRLNG	F0	
PWAPRLPT	60	
PWAPURGB	C0	20
PWAPURGC	C0	10
PWARCRTY	F2	02
PWARCVYH	A0	40
PWAREGA	90	
PWAREGB	94	
PWAREGC	98	
PWAREGD	9C	
PWAREGE	A0	
PWAREGF	A4	
PWAREGSV	68	
PWAREG0	68	
PWAREG1	6C	
PWAREG2	70	
PWAREG3	74	
PWAREG4	78	
PWAREG5	7C	
PWAREG6	80	
PWAREG7	84	
PWAREG8	88	
PWAREG9	8C	
PWARETC	BF	
PWARETC2	C0	
PWARETRY	F3	04
PWARET0	CC	
PWARET1	D0	
PWARET15	E4	
PWARET2	D4	
PWARET3	D8	
PWARET4	DC	
PWARET5	E0	
PWARET6	98	
PWASAVP	C4	
PWASAVWD	64	
PWASDBF	F2	08

IPWA Cross Reference

Name	Hex Offset	Hex Value
PWASTATS	F2	20
PWASTIME	BE	10
PWASTKCC	9C	30
PWASTTCB	8C	40
PWASVR14	94	
PWASVR8	90	
PWASYNCH	C0	02
PWASYNEQ	C0	01
PWASYNLK	F3	20
PWATASID	1C	
PWATCB	BF	80
PWATDATA	1C	
PWATDLN	1A	
PWATJOBN	20	
PWATQE	8	
PWATQEAC	A0	80
PWATQERC	4	
PWATRAC	A	
PWATRENT	8	
PWATRLN	8	
PWAUCBLK	C8	
PWAUCBP	E8	
PWAUSPM	F3	02
PWAUSPM2	F3	01
PWAWKUP	F3	08
PWAWORK8	90	
PWA13BSV	C	

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

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IQE Heading Information

Common Name: Interruption Queue Element
Macro ID: IHAIQE
DSECT Name: IQE
Owning Component: Supervisor Control (SC1C5)
Eye-Catcher ID: None
Subpool and Key: Subpool 253
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)
TCBIQE field of the TCB data area (EXTR scheduling IQE)
Serialization: LOCAL lock
Function: Represents request to schedule an asynchronous exit routine via an IRB.

IQE Map

Offsets Dec	Offsets 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 Programming Interface information

Programming Interface information

IRACPMB

End of Programming Interface information

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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
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 Characterisitics Table
CMCTMCM2 field of Channel Measurement Control
Table (CMCT) @WA38548
Extended Channel Path Measurement Format
CMCTCPM2 field of Channel Measurement Control
Table (CMCT) @WA38548
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
CMCTCRCT field of the CMCT.
The system may switch between the two modes of operation
at any time.

Function:Continued

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

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	

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					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	Offsets 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	
					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		CHP busy count data
4	(4)	BITSTRING	1	CPMB_CHP_FLAGS	
					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	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	CMC2	Channel Measurement Characteristics for CPM2
0	(0)	CHARACTER	32	CMC2CHANMEASUREMENTCHARBLOCK	
					Channel Measurement Characterisitics Block
0	(0)	BITSTRING	1	CMC2FLAGS	Channel Measurement Characterisitics 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	(1)	CHARACTER	2		Reserved
3	(3)	SIGNED	1	CMC2CHPID	Channel path ID
4	(4)	BITSTRING	1	CMC2MASKBYTE	Mask
		1111 1...		CMC2CMCVALIDITYMASK	
					"X'F8'" CMC Validity mask, bits 0-4 correspond to words 3-7 of the channel measurements characterisitcs block. When 1, the corresponding word has meaning
5	(5)	CHARACTER	1		Reserved
6	(6)	SIGNED	1	CMC2CMGQ	Channel measurement group qualifier
7	(7)	SIGNED	1	CMC2CMG	Channel measurement group for this CHPID
8	(8)	CHARACTER	4		Reserved
12	(C)	CHARACTER	20	CMC2DATA	Channel measurement characterisitics data

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
					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	
					Comment
					Channel Utilization Entry
					End of Comment
0	(0)	BITSTRING	1	CPM2CHANNELUTILINFOVALITYMASK	Channel utilization info validity mask, bit positions 0-7 correspond to words 0-7 of this channel utilization entry
1	(1)	SIGNED	3	CPM2TIMESTAMP	Time stamp indicating when data was last stored in this CUE, 128 microsecond granularity

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
4	(4)	CHARACTER	28	CPM2DATA	Channel measurement group data
8192	(2000)	X'2000'	0	CPM2_LEN	"*-CPM2"

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	CPM2CMG1	Channel Measurement Group 1
0	(0)	SIGNED	4	CMG1TOTALCHANNELBUSYTIME	Channel Path Busy Time, total for the CHPID
4	(4)	SIGNED	4	CMG1LPARCHANNELBUSYTIME	Channel Path Busy Time, just for this LPAR
8	(8)	CHARACTER	20		Reserved
8	(8)	X'1C'	0	CPM2CMG1_LEN	"*-CPM2CMG1"

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	CPM2CMG2	Channel Measurement Group 2
0	(0)	SIGNED	4	CMG2TOTALBUSCYCLECOUNT	Count of Bus Cycles, total for the CHPID
4	(4)	SIGNED	4	CMG2TOTALCHANNELWORKUNITCOUNT	Count of Channel Work Units, total for the CHPID
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)	STRUCTURE	0	CPM2CMG3	Channel Measurement Group 3
0	(0)	SIGNED	4	CMG3MESSAGEUNITSSENT	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"

IRACPMB Cross Reference

Name	Hex Offset	Hex Value
CMCCMG1	C	1
CMCCMG2	C	2
CMCCMG3	C	3
CMC2	0	
CMC2_LEN	2000	2000
CMC2CHANMEASUREMENTCHARBLOCK		
	0	
CMC2CHPID	3	
CMC2CMCVALIDITYMASK		
	4	F8
CMC2CMG	7	
CMC2CMGQ	6	
CMC2CMG2	0	
CMC2CMG2_LEN	10	14
CMC2CMG3	0	
CMC2CMG3_LEN	10	14
CMC2DATA	C	
CMC2DATAUNITSIZE		
	10	
CMC2FLAGS	0	
CMC2MASKBYTE	4	
CMC2MAXBUSCYCLES		
	0	
CMC2MAXCHANNELWORKUNITS		
	4	
CMC2MAXREADDATAUNITS		
	C	
CMC2MAXWRITEDATAUNITS		
	8	
CMC2NOTVALID	0	80
CMC2SHAREDCHPID		
	0	40
CMC3DATAUNITSIZE		
	0	
CMC3DATAUNITSIZECPC		
	4	
CMC3MESSAGEUNITSIZE		
	8	
CMC3MESSAGEUNITSIZECPC		
	C	
CMG1LPARCHANNELBUSYTIME		
	4	
CMG1TOTALCHANNELBUSYTIME		
	0	
CMG2LPARCHANNELWORKUNITCOUNT		
	8	
CMG2LPARREADDATAUNITS		
	18	
CMG2LPARWRITEDATAUNITS		
	10	
CMG2TOTALBUSCYCLECOUNT		
	0	
CMG2TOTALCHANNELWORKUNITCOUNT		
	4	
CMG2TOTALREADDATAUNITS		
	14	
CMG2TOTALWRITEDATAUNITS		
	C	
CMG3DATAUNITSSENT		
	14	
CMG3DATAUNITSSENTCPC		
	18	
CMG3MESSAGEUNITSSENT		
	0	
CMG3MESSAGEUNITSSENTCPC		
	4	
CMG3UNAVAILRECEIVEBUFFERS		
	C	
CMG3UNAVAILRECEIVEBUFFERSCPC		
	10	
CMG3UNSUCCATTEMPTSTOSEND		
	8	
CPMB	0	
CPMB_CHP_DATA		
	8	
CPMB_CHP_ENTRY		
	0	
CPMB_CHP_ENTRY_LEN		
	5	8
CPMB_CHP_ENTRY_NOT_VALID		
	0	80
CPMB_CHP_FLAGS		
	4	
CPMB_CUM_CHP_BUSY		
	0	
CPMB_CUM_CHP_TIME		
	5	
CPMB_LEN	8	1000
CPMB_SAMPLE_COUNT		
	4	
CPMB_SHARED_CHANNEL		
	4	80
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	

IRAENF55 Programming Interface information

Programming Interface information

IRAENF55

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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: 20 bytes
Created by: IRARMST2
Pointed to by: N/A
Serialization: SRM LOCK
Function: Contains parameters for ENF signal 55

IRAENF55 Map

Offsets Dec	Offsets 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)	SIGNED	1	ENF55VER	Parameter List Version
11	(B)	SIGNED	1	ENF55TYP	Type of frame needed to end shortage situation (for qualifier x'80000000') 4 = Pageable frames in betwen the 16M and 2G lines 3 = Pageable frames below the 16M line 2 = Pageable frames in real storage 1 = PTA frames (DREF + fixed pages) in process storage
12	(C)	BITSTRING	4	ENF55QLF	Qualifier Code
16	(10)	SIGNED	2	ENF55FRM	Number of frames needed to end shortage situation (valid for qualifier code x'80000000')
18	(12)	CHARACTER	2	ENF55RSV	Reserved
		....		ENF55QLF_SHORTAGE_RECOGNIZED	"X'80000000'" Storage Shortage. Too many fixed frames - start signal
		....		ENF55QLF_SHORTAGE_RELIEVED	"X'40000000'" Storage due to fixed storage - relieved
18	(12)	X'1'	0	ENF55_VERSION1	"1" Version 1 constant
18	(12)	X'1'	0	ENF55_LATEST_VERSION	"1" Latest version constant
18	(12)	X'14'	0	ENF55_LEN	"*-ENF55"

IRAENF55 Cross Reference

Name	Hex Offset	Hex Value
ENF55	0	
ENF55_LATEST_VERSION	12	1
ENF55_LEN	12	14
ENF55_VERSION1	12	1
ENF55FRM	10	
ENF55ID	0	
ENF55LEN	8	
ENF55QLF	C	
ENF55QLF_SHORTAGE_RECOGNIZED	12	0
ENF55QLF_SHORTAGE_RELIEVED	12	0
ENF55RSV	12	
ENF55TYP	B	
ENF55VER	A	

IRAEVPL Programming Interface information

Programming Interface information

IRAEVPL

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IRAEVPL Heading Information

Common Name: Sysevent Parameter List Mappings
Macro ID: IRAEVPL
DSECT Name: IRAENCSTATE_PARMLIST IRAENQHR_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'0044' bytes
Created by: SYSEVENT ENCSTATE invoker
Pointed to by:
Serialization: User-defined
Function: Maps external sysevent parameter lists

IRAEVPL Map

Offsets Dec	Offsets 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

End of Comment

0	(0)	X'1'	0	IRAENCSTATE_IDLE	"1"

Comment

IRAEVPL.35: Enclave is leaving the idle state. Note that newly created enclaves are considered non-idle by SRM.

End of Comment

0	(0)	X'2'	0	IRAENCSTATE_NONIDLE	"2"
0	(0)	X'4'	0	IRAENCSTATE_PARMLIST_LEN	"*-IRAENCSTATE_PARMLIST"

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	IRAENQHR_PARMLIST	
0	(0)	CHARACTER	68	IRAENQHR_WORKUNITINFORMATION	IRAEVPL.261: information required when the sysevent macro invocation specifies TYPE=IraEnq- HR_WorkUnitInfo
0	(0)	CHARACTER	8	IRAENQHR_ETOKEN	IRAEVPL.208: Enclave token or 0 if the work unit is not known to be associated with an enclave
8	(8)	ADDRESS	4	IRAENQHR_TCBPTR	IRAEVPL.336: Address of resource holder's TCB or 0 if the holder is an SRB
12	(C)	CHARACTER	8	IRAENQHR_TOKEN	IRAEVPL.343: 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.

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
20	(14)	CHARACTER	4	IRAENQHR_SUBSYS	IRAEVPL.351: Generic subsystem type
24	(18)	CHARACTER	8	IRAENQHR_SUBSYSNAME	IRAEVPL.357: Subsystem instance
32	(20)	CHARACTER	32	IRAENQHR_SUBSYSREQUEST	IRAEVPL.363: Additional information to distinguish between different invocations by the same subsystem
64	(40)	CHARACTER	4		IRAEVPL.264: reserved

Comment

IRAEVPL.217: Return code 8 will be passed to the caller of EnqHold/Rlse requests of type 2 or later if an invalid enclave token was specifed.

End of Comment

64	(40)	X'0'	0	IRAENQHR_RETURN_CODE_08	"0"

Comment

IRAEVPL.392: Equivalent to MVS 5.2.2 and earlier form of sysevents where only the asid or enclave token of the holder was available.

End of Comment

64	(40)	X'0'	0	IRAENQHR_NOWORKUNITINFO	"0"

Comment

IRAEVPL.232: Enqhold/Enqrlse against address space or enclave, and the TCB and ASCB of the holder are supplied.

End of Comment

64	(40)	X'1'	0	IRAENQHR_WORKUNITINFO	"1"

Comment

IRAEVPL.379: Enqhold/Enqrlse against address space or enclave with subsystem information

End of Comment

64	(40)	X'2'	0	IRAENQHR_SUBSYSTEMINFO	"2"

Comment

IRAEVPL.375: Maximum request type for Enqhold/Enqrlse Sysevents

End of Comment

64	(40)	X'2'	0	IRAENQHR_MAXREQUESTTYPE	"2"
64	(40)	X'44'	0	IRAENQHR_PARMLIST_LEN	"*-IRAENQHR_PARMLIST"

IRAEVPL Cross Reference

Name	Hex Offset	Hex Value
IRAENCSTATE_FUNCTIONCODE	0	
IRAENCSTATE_IDLE	0	1
IRAENCSTATE_NONIDLE	0	2
IRAENCSTATE_PARMLIST	0	
IRAENCSTATE_PARMLIST_LEN	0	4
IRAENQHR_ETOKEN	0	
IRAENQHR_MAXREQUESTTYPE	40	2
IRAENQHR_NOWORKUNITINFO	40	0
IRAENQHR_PARMLIST	0	
IRAENQHR_PARMLIST_LEN	40	44
IRAENQHR_RETURN_CODE_08	40	0
IRAENQHR_SUBSYS	14	
IRAENQHR_SUBSYSNAME	18	
IRAENQHR_SUBSYSREQUEST	20	
IRAENQHR_SUBSYSTEMINFO	40	2
IRAENQHR_TCBPTR	8	
IRAENQHR_TOKEN	C	
IRAENQHR_WORKUNITINFO	40	1
IRAENQHR_WORKUNITINFORMATION	0	

IRAICSM Programming Interface information

Programming Interface information

IRAICSM

End of Programming Interface information

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IRAICSM Heading Information

Common Name: System Resource Manager Installation Control Specification Symbol Table Entry Mapping Macro
Macro ID: IRAICSM
DSECT Name: ICSM
Owning Component: SRM (SC1CX)
Eye-Catcher ID: None
Storage Attributes: Main Storage: N/A
Virtual Storage: N/A
Auxiliary Storage: N/A
Subpool: Storage must be non-pageable
Key: IWMRCOLL caller's key
Residency: N/A
Size: 48 Bytes (per ICSM entry)
Created by: As a result of IWMRCOLL invocation
Pointed to by: ICSMNDX is located within the RCAAICSS by adding an offset located in RCAAICSX to the start of RCAAICSS (the ICSMNDX contains an array of offsets).
ICSM is located within the RCAAICSS by adding an offset located in RCAAICSM to the start of RCAAICSS. To access a particular PGN, the ICSMNDX(PGN) offset must also be added in.
Serialization: None
Function: The ICSM element contains information related to each unique performance group specified in the installation control specification parmlib member. The information is the subsystem name, transaction name, userid, transaction class, or service class name.
If the data is unavailable, the field contains zeros. If multiple symbolic names are associated with the same performance group, the field contains blanks.
An array is used to index into this table.
The first index is for performance group 1.
The last index is for the highest performance group number specified in the installation control specification. If a performance group is not specified, the index value is zero.

IRAICSM 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

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
48	(30)	X'30'	0	ICSMLEN	"ICSMEND-ICSM" LENGTH OF ICSM

IRAICSM Cross Reference

Name	Hex Offset	Hex Value
ICSM	0	
ICSMACTN	2C	80
ICSMCLS	18	40404040
ICSMEND	30	
ICSMFLAG	2C	0
ICSMLEN	30	30
ICSMRSVD	2D	0
ICSMSRVC	22	40404040
ICSMSUBN	0	40404040
ICSMTRXN	4	40404040
ICSMUSRD	E	40404040

IRALPDAT Programming Interface information

Programming Interface information

IRALPDAT

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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: Above 16M line
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 caller is required to set LPDatLen field to the length
of the entire parameter list before invoking the sysevent.
If the size of the parameter list is not known (which will
be the case when the sysevent is invoked first time),
caller may set LpDatLen to either 0 or obtain sufficiently
large parameter list and set the LPDatLen accordingly.
If the LPDatLen is smaller than the size of the parameter
list, then sysevent REQLPDAT fails with RC=4. LPDatLen
field is set to the actual length for the parameter list.
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		

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	640	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 ascbswct
48	(30)	UNSIGNED	4	OUCBWKTM	Time that work unit entered MVS system in SRM time format
52	(34)	SIGNED	4	OUCBSRRC	Count of Sysplex Router Registrations for space
56	(38)	UNSIGNED	4	OUCBPGTB	Base value for pages paged and pages moved that is updated when a point is plotted for this address space
60	(3C)	UNSIGNED	4	OUCBAUXB	Base value for auxiliary pages paged that is updated when a point is plotted for this address space
64	(40)	UNSIGNED	4	OUCBRESB	Base value for resident time that is updated when a point is plotted for this address space

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Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
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
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	1	OUCBXOUCBSRCSAVE	Saved value of OUCBSRC during a REALSWAP
125	(7D)	CHARACTER	3	*	fill cache line
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	OUCBUSINGTIMEBASE	Base for I/O using time (ouxbcon + ouxbdisc)
164	(A4)	BITSTRING	1	OUCBWLMF	WLM flags, name used in IPCS formatter
		1...		*	reserved
		.1..		OUCBXMFT	Space target of xmem page faults during this policy interval
		..1.		*	reserved
		...1		OUCB_SHELL	If on, indicates this address space is a shell @WLMPESM1
		.... 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	

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					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	OUCBESHP	expanded storage access policy for hiperspace
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 trasnsaction
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
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	*	fill up cache line
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 depature)
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!

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
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.		OUCBXUICUPDATED	Flag indicating that the UIC of this address space has been successfully updated. Flag is used by PR1 @64BITSRM
		...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		*	Reserved
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/tswp/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
328	(148)	CHARACTER	1	OUCBWLM2	Flags
		1...		OUCBDFRR	Dequeued by IRARMERR
		.1..		OUCBEFRR	Enqueued by IRARMERR
		..1.		OUCBGFRR	Getmained by IRARMERR
		...1		OUCBWSMT	WSM last set protective processor storage target
		.... 1...		OUCBMDAC	Indicates that the mpl delay for this space has been accumulated
		.... .1..		OUCBSSPS	Shared page second base (oucbspss) is non-zero
		.... ..1.		OUCBRSNS	OUCBNSWI bit set by SRM recovery
		1		OUCBPSRB	Preemptible SRB time attributable to this address space (AssbAsst) is non-zero
329	(149)	BITSTRING	1	OUCBWL2F	Flags used by WL2, clustered in one byte to reduce pathlength in service calculations
		1...		OUCBPSRV	Transaction service preemptible SRB time base (ouxbprss) is non-zero
		.1..		OUCBXDEPENCLTIMEEXISTS	Dependent enclave CPU time exists that may not have been merged into the owning address space's CPU time.
		..11 1111		*	reserved
330	(14A)	UNSIGNED	2	OUCBXDEPENCLCOUNT	Summary count of number of dependent enclaves owned by this address space. Halfword is enough as long as enclave pseudoids are limited to a halfword
332	(14C)	ADDRESS	4	OUCBENCH	Header of the ENCB queue owned by this address space
336	(150)	ADDRESS	4	OUCBENCL	Trailer of the ENCB queue owned by this address space
340	(154)	ADDRESS	4	OUCBETIM	Accumulate tx active time of completed enclaves owned by this space

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
344	(158)	ADDRESS	4	OUCBECPU	Accumulate CPU service of completed enclaves owned by this space
348	(15C)	BITSTRING	8	OUCBECPT	Accumulate total CPU time of completed enclaves owned by this space (STCK format)
356	(164)	ADDRESS	4	OUCBETRC	Accumulate transaction counts of completed enclaves owned by this space
360	(168)	CHARACTER	16	OUCBENQMANAGEMENT	Enq related info
360	(168)	BITSTRING	2	OUCBENQFLAGS	Enq status flags
		1...		OUCBENQP	Increase CPU DP for enqueue promotion
		.1..		OUCBPROA	Enqueue promotion due to A/S EnqHold
		..1.		OUCBPROE	Enqueue promotion due to enclave EnqHold
		...1		OUCBCQHASBEENCORRUPTED	Context queue had invalid elements
360	(168)	BITSTRING	1	*	For future use
362	(16A)	UNSIGNED	2	OUCBNQC	Number of enqueue hold elements in OUCB context queue
364	(16C)	SIGNED	4	OUCBNQT	ENQ residency start time
368	(170)	SIGNED	4	OUCBENQCPUTIMECONSUMEDBASE	Reference value to calculate OUCBEnqCPUtimeConsumed. 1.024 milliseconds unit@WLMPEMG
372	(174)	SIGNED	4	OUCBENQCPUTIMECONSUMED	CPU time consumed for and A/S or Job while enqueue promoted. 1.024 milliseconds unit@WLMPEMG
376	(178)	CHARACTER	8	OUCBCONTEXTQUEUE	Queue of context elements
376	(178)	ADDRESS	4	OUCBCONTEXTQUEUEHEAD	address of 1st element in queue
380	(17C)	ADDRESS	4	OUCBCONTEXTQUEUETAIL	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)	CHARACTER	4	OUCBGR02	Reserved
400	(190)	BITSTRING	8	OUCBSPSS	Shared page seconds
408	(198)	UNSIGNED	4	OUCBBCPS	Resource adjustment base CPU delay samples
412	(19C)	UNSIGNED	4	OUCBRSV7	reserved
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	OUCBSRCI	goal mode: Workload reporting saved report class index
436	(1B4)	CHARACTER	8	OUCBETCBQ	DHDTC queue of IRAETCBs
436	(1B4)	ADDRESS	4	OUCBETCBFIRST	First ETCB on queue
440	(1B8)	ADDRESS	4	OUCBETCBLAST	Last ETCB on queue
444	(1BC)	CHARACTER	8	OUCBXDETOTALCPUTIME	CPU time, STCK format, accumulated by all completed dependent enclaves owned by this space during its current transaction as in CASE
452	(1C4)	UNSIGNED	2	OUCBSCPI	Service Class Period Index. Used by IOS as an index into the IOSDSCMT. Matches spte_number in the spte pointed to by OucbSpte. 0 is not a valid index.
454	(1C6)	CHARACTER	2	*	
456	(1C8)	UNSIGNED	4	OUCBXIEIOCONNECTTIME	

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					Sum of EncbCon for all completed independent enclaves, smf 30 interval
460	(1CC)	UNSIGNED	4	OUCBXIEIODISCONNECTTIME	
					Sum of EncbDisc for all completed independent enclaves, smf 30 interval
464	(1D0)	UNSIGNED	4	OUCBXIEIOWAITTIME	
					Sum of EncbWait for all completed independent enclaves, smf 30 interval
468	(1D4)	UNSIGNED	4	OUCBXIESSCHCOUNT	
					Sum of EncbIoSC for all completed independent enclaves, smf 30 interval
472	(1D8)	UNSIGNED	4	OUCBXDEIOCONNECTTIME	
					Sum of EncbCon for all completed dependent enclaves, smf 30 interval
476	(1DC)	UNSIGNED	4	OUCBXDEIODISCONNECTTIME	
					Sum of EncbDisc for all completed dependent enclaves, smf 30 interval
480	(1E0)	UNSIGNED	4	OUCBXDEIOWAITTIME	
					Sum of EncbWait for all completed dependent enclaves, smf 30 interval
484	(1E4)	UNSIGNED	4	OUCBXDESSCHCOUNT	
					Sum of EncbIoSC for all completed dependent enclaves, smf 30 interval
488	(1E8)	SIGNED	2	OUCBXPERFORMVALUE	
					Contains the value passed for the PERFORM= keyword. This value is preserved across a mode switch and is used during Goal Mode classification.
490	(1EA)	BITSTRING	2	OUCBXFLAGS	
		1...		OUCBXRESETBEFOREINITIATION	
					On if JobSelect passed in a RESET SRVCLASS for a batch job that would be used to override classification.
		.1..		OUCBXRESETAFTERINITIATION	
					On if address space was reset while it was running.
		..1.		OUCBXOPERATORFORCEDINITIATION	
					On if JobSelect said that the initiation was forced upon JES, e.g. via $SJ
		...1		OUCBXJOBREINCARNATED	
					On if job has been restarted
		.... 1...		OUCBXSYST	System task, that is, the PPT and/or SCHEDxx specified SYST and it passed allocation checks.
		.... .1..		OUCBXHASREMOTESYSTEMDATA	
					This address space has Remote System Data. The data exists either at the address space level or at an owned original enclave level.
		.... ..1.		OUCBXREMOTESYSTEMDATAINCOMPLETE	
					Indicates the address space Remote System Data is not complete for the following reasons: Premature Undo Export - Subsystem deletes the enclave before the Undo Export - There are outstanding Imports (determined by WLM) at Undo Export time
		1		*	reserved
491	(1EB)	1111		*	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)	CHARACTER	12	*	fill up cache line
512	(200)	CHARACTER	128	OUCB_CACHELINE7	
					7th cache line of OUCB
512	(200)	SIGNED	4	OUCBXCLSFYPRIORITY	

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					Subsystem priority used for classification purposes, in binary format. Contains hexadecimal 80000000 if the subsystem did not provide a priority.
516	(204)	UNSIGNED	4	OUCBXQUEUETIME	
					Duration of time work was eligible for execution. 1.024 millisecond units. Passed into JobSelect. Hex 0s if not supplied. OS390 R4 JES2 with reformatted spool is the first supplier.
520	(208)	UNSIGNED	4	OUCBXJCLCONVERSIONTIME	
					Duration of JCL conversion for batch job. 1.024 millisecond units. Passed into JobSelect. Hex 0s if not supplied. OS390 R4 JES2 with reformatted spool is the first supplier.
524	(20C)	UNSIGNED	4	OUCBXSYSORRESAFFTIME	
					Duration that batch job was ineligible for execution on every system in the MAS due to resource or system affinity. 1.024 millisecond units. Passed into JobSelect. Hex 0s if not supplied. OS390 R4 JES2 with reformatted spool is the first supplier.
528	(210)	UNSIGNED	4	OUCBXINELIGIBLETIME	
					Duration that batch job was ineligible for execution on every system in the MAS for reasons other than affinities. Examples: job hold, job class hold. TYPRUN=HOLD and TYPRUN= JCLHOLD times are excluded from all of these times. 1.024 millisecond units. Passed into JobSelect. Hex 0s if not supplied. OS390 R4 JES2 with reformatted spool is the first supplier.
532	(214)	CHARACTER	16	OUCBXSCHEDENV	
					Resource affinity scheduling environment requested in the JCL, or 00x if none was supplied
548	(224)	UNSIGNED	4	OUCBXEQUBATCHQDELAY	
					Equivalent batch queue delay samples.
552	(228)	UNSIGNED	4	OUCBXTOTALSERVICEBASE	
					Base for total service used by address space over a policy interval
556	(22C)	UNSIGNED	4	OUCBXIOWAITTIMEINTVBASE	
					Interval base for OUXBWAIT
560	(230)	UNSIGNED	4	OUCBXIOCONTIMEINTVBASE	
					Interval base for OUXBCON
564	(234)	UNSIGNED	4	OUCBXIOCOUNTINTVBASE	
					Interval base for OUXBIOSC
568	(238)	UNSIGNED	4	OUCBXIODISCTIMEINTVBASE	
					Interval base for OUXBDISC
572	(23C)	UNSIGNED	4	OUCBXIOSQTIMEINTVBASE	
					Interval base for OucbxIosQtime
576	(240)	ADDRESS	4	OUCBXCRRB	Pointer to CRRB for address space
580	(244)	ADDRESS	4	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	
					Amount of remote service attributed to starting the address space's current period
608	(260)	UNSIGNED	4	OUCBXARRIVALTIMESTCKWORD1	
					Time that work unit entered MVS system - STCK format, 1st word only
612	(264)	UNSIGNED	4	OUCBX_CONNTIME_BASE	
					RM2 interval base for OUXBCONN

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
616	(268)	CHARACTER	8	OUCBXSUBSYSTEMCOLLECTIONNAME	Subsystem collection name corresponding to IWMCLSFY SUBCOLN value. For JES2/JES3, MAS/JESplex name. Blanks for other address spaces.
624	(270)	BITSTRING	4	OUCBX_GMI_F1	Flags
		1...		OUCBX_STCR_CHSK	Indicates, that storage critical housekeeping was the last who has set the central storage protective target
		.1..		OUCBX_STCR_PHSK	Indicates, that storage critical housekeeping was the last who has set the processor storage protective target
		..1.		OUCBX_PA_PCS_TAR	Indicates, that policy adjustment was the last who has set the central storage protective target
		...1		OUCBX_PA_PPS_TAR	Indicates, that policy adjustment was the last who has set the processor storage protective target
624	(270)	BITSTRING	3	*	Reserved
628	(274)	UNSIGNED	4	OUCBX_PPS_CHANGETIME	Time of last processor protective storage target setting
632	(278)	UNSIGNED	4	OUCBX_PCS_CHANGETIME	Time of last central protective storage target setting
636	(27C)	UNSIGNED	4	OUCBIRST	RRPATOD last time in REALSWAP
640	(280)	CHARACTER	0	OUCBXEND	

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	256	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	*	reserved
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		OUCBXVSDATACOLLECTED	Virtual Storage Data has been successfully collected
		 1111		*	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
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	

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					Count which indicates how often the local lock was found util. data is collected for queue servers with the managed tasks bit turned on only
40	(28)	UNSIGNED	4	OUCBXINSTVSPLOT	
					Count which contains the number of active server instances found when the data for the virtual storage plots was obtained
44	(2C)	UNSIGNED	4	OUCBXINSTLLPLOT	
					Accumulator which is used to collect and calculate the avg. number of active server inst. for plotting local lock util.
48	(30)	CHARACTER	80	*	fill cache line@WLMPCRY
128	(80)	CHARACTER	128	OUCBS_CACHELINE2	
					cache line of OUCB
128	(80)	UNSIGNED	2	OUCBSERVINSTACTIVE	
					Current number of server instances between IWMSTBGN (Begin) and IWMSTEND (End)
130	(82)	CHARACTER	2	*	reserved
132	(84)	UNSIGNED	4	OUCBWAITTIMEBASESM	
					Base for I/O wait time, used by sampling
136	(88)	UNSIGNED	4	OUCBUSINGTIMEBASESM	
					Base for I/O using time, used by sampling
140	(8C)	ADDRESS	4	OUCBESMBPTR	Enclave Storage Management Block anchor or 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	
					Buffer pool token whose delay samples are being excluded from individual tracking
188	(BC)	BITSTRING	1	OUCBWLMF	WLM flags, name used in IPCS formatter
		1...		OUCBLSMP	Last sample complete
		.1..		*	Reserved
		..1.		OUCBCPUR	Indicates the state sampler noted this space requesting CPU
		...1 1111		*	Reserved
189	(BD)	CHARACTER	1	OUCBSFLG	Flags used by sampling. Note that bits in this byte can be set by sampling without the SRM lock so any user of these flags must ensure proper serialization with sampling
		1...		OUCBXMSV	Sampling has saved this OUCB address as a target of xmem page faults. The OUCB must not be freemained while this bit is on
		.111 1111		OUCBRSV8	Reserved. Note see comment on OUCBSFLG before using
190	(BE)	UNSIGNED	2	OUCBASID	Address space ID
192	(C0)	CHARACTER	1	OUCBVALB	OUCB Valid Bits
		1...		OUCB_VALID_PB_SEEN	
					Valid PB seen bit, old field name is OUCBVAPB
		.1..		OUCB_VALID_REPORTONLY_PB_SEEN	
					Valid report-only PB seen bit
		..11 1111		*	Reserved
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 OUCBNSCT

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
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)	CHARACTER	4	*	Reserved
224	(E0)	UNSIGNED	4	OUCBX_CPU_SERVTIME_BASE	Base value for captured CPU time use for calculating CPU samples
228	(E4)	UNSIGNED	4	OUCBTEMPAFFINITYEXIST	Indicates whether temporal affinities are set or not.
232	(E8)	UNSIGNED	2	OUCBSERVINSTACTIVERGNWORK	Server instances active, aka between Begin and End for a IWMSSEL request, processing region work.
234	(EA)	CHARACTER	22	*	Reserved
256	(100)	CHARACTER	0	OUCBSEND	

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	128	OUCBSAMPLES	
0	(0)	CHARACTER	128	OUCBSAMPLES_CACHELINE1	cache line of OUCB,
0	(0)	CHARACTER	108	OUCBSOS	set of state samples. Note new delays must be added before oucbxmo
0	(0)	UNSIGNED	4	OUCBIS	idle state
4	(4)	UNSIGNED	4	OUCBOUS	other unknown state
8	(8)	UNSIGNED	4	OUCBCU	cpu using
12	(C)	UNSIGNED	4	OUCBDASDIOUSING	DASD I/O using samples
16	(10)	UNSIGNED	4	OUCBCD	cpu delay
20	(14)	UNSIGNED	4	OUCBAPPD	primary private area paging delay from aux
24	(18)	UNSIGNED	4	OUCBAPCD	common area paging delay from aux
28	(1C)	UNSIGNED	4	OUCBAVD	vio delay from aux
32	(20)	UNSIGNED	4	OUCBASHD	scroll hiperspace delay from aux
36	(24)	UNSIGNED	4	OUCBACHD	cache hiperspace delay from aux
40	(28)	UNSIGNED	4	OUCBASWD	Aux swap delay
44	(2C)	UNSIGNED	4	OUCBMD	mpl delay
48	(30)	UNSIGNED	4	OUCBCCD	Address space delayed because it is in a resource group being capped
52	(34)	UNSIGNED	4	OUCBASPD	Shared area paging delay from aux
56	(38)	UNSIGNED	4	OUCBDASDIODELAY	DASD I/O delay samples
60	(3C)	UNSIGNED	4	OUCBWLMQUEUEDELAY	Delay samples experienced while on WLM-managed work queue
64	(40)	UNSIGNED	4	OUCBENCLAVEPVTPAGING	Aux private paging delay samples experienced by enclave work units known to be associated with an address space
68	(44)	UNSIGNED	4	OUCBENCLAVEVIOPAGING	Aux VIO paging delay samples experienced by enclave work units known to be associated with an address space
72	(48)	UNSIGNED	4	OUCBENCLAVEHSPPAGING	Aux hiperspace paging delay samples experienced by enclave work units known to be associated with an address space
76	(4C)	UNSIGNED	4	OUCBENCLAVEMPLDELAY	MPL delay samples experienced by enclaves known to be associated with an address space
80	(50)	UNSIGNED	4	OUCBENCLAVESWAPDELAY	Swap-in delay samples experienced by enclaves known to be associated with an address space

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					Comment
					------ Add new non-xmem-type delays before OucbPxmo ---
					End of Comment
84	(54)	UNSIGNED	4	OUCBPXMO	cross memory other address space paging delay from aux.
88	(58)	UNSIGNED	4	OUCBBUFFERPOOLOTHERDELAY	Buffer pool delay samples not due to the buffer pools that are being individually tracked
92	(5C)	UNSIGNED	4	OUCBPXM1	cross memory address space 1 paging delay from aux
96	(60)	UNSIGNED	4	OUCBPXM2	cross memory address space 2 paging delay from aux
100	(64)	UNSIGNED	4	OUCBBUFFERPOOL1DELAY	Buffer pool delay samples due to the buffer pool identified by OucbBufferPoolToken1
104	(68)	UNSIGNED	4	OUCBBUFFERPOOL2DELAY	Buffer pool delay samples due to the buffer pool identified by OucbBufferPoolToken2
108	(6C)	UNSIGNED	4	*	Reserved for future delays This field reserves space, but new delays must be added before oucbxmo
112	(70)	UNSIGNED	4	*	Reserved for future delays This field reserves space, but new delays must be added before oucbxmo
116	(74)	UNSIGNED	4	*	Reserved for future delays This field reserves space, but new delays must be added before oucbxmo
120	(78)	UNSIGNED	4	*	Reserved for future delays This field reserves space, but new delays must be added before oucbxmo
124	(7C)	CHARACTER	4	OUCBSOS_NAME	eyecatcher 'SOS '

Offsets Dec	Offsets 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	80	OUCBRSOS	Set of state samples used by reporting. Cleared every policy inverval (must be consistent with IRACONST)
0	(0)	UNSIGNED	4	OUCBRQCT	Count of times the address space was found in quiesce state during policy interval
4	(4)	UNSIGNED	4	OUCBCAP	Number of times during the policy interval that the address space was found capped during sampling
8	(8)	UNSIGNED	4	OUCBASMP	Count of times sampling saw this address space
12	(C)	UNSIGNED	4	OUCBNONDASDIO	Non-DASD I/O delay+using samples
16	(10)	UNSIGNED	4	*	Reserved
20	(14)	UNSIGNED	4	OUCBCAMU	Asynchronous CAM using samples
24	(18)	UNSIGNED	4	OUCBCAMD	Asynchronous CAM delay samples
28	(1C)	UNSIGNED	4	OUCBAPU	Asynchronous AP using samples
32	(20)	UNSIGNED	4	OUCBAPD	Asynchronous AP delay samples
36	(24)	UNSIGNED	4	OUCBFQD	Feature queue delay samples
40	(28)	CHARACTER	32	*	Reserved for future crypto hardware
72	(48)	UNSIGNED	4	OUCBRCSD	Contention delay sample count of work waiting for resources as reported to WLM on the IWMCNTN interface by the resource manager
76	(4C)	UNSIGNED	4	OUCBRCSU	Contention delay sample count of work holding resources as reported to WLM on the IWMCNTN interface by the resource manager
80	(50)	CHARACTER	44	*	unused
124	(7C)	CHARACTER	4	OUCBRSOS_NAME	eyecatcher 'RSOS'

IRAOUCBX Constants

Len	Type	Value	Name	Description
8	CHARACTER	OUCBS	OUCBSNAME_VAL	
1	DECIMAL	1	OUCBSVER_VAL	OUCBS Version
4	DECIMAL	640	OUCBXLEN_VAL	
2	DECIMAL	256	OUCBSLEN_VAL	
4	CHARACTER	SOS	OUCBSOS_NAME_VAL	
4	DECIMAL	128	OUCBSAMPLESLEN_VAL	
4	CHARACTER	RSOS	OUCBRSOS_NAME_VAL	
4	DECIMAL	128	OUCBREPTSAMPLESLEN_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
OUCB_BPAH	188	
OUCB_CACHELINE3	0	
OUCB_CACHELINE4	80	
OUCB_CACHELINE5	100	
OUCB_CACHELINE6	180	
OUCB_CACHELINE7	200	
OUCB_RAW_SERVICE_ACCUM	184	
OUCB_SHELL	A4	10
OUCB_VALID_PB_SEEN	C0	80
OUCB_VALID_REPORTONLY_PB_SEEN	C0	40
OUCBACFL	131	80
OUCBACHD	24	
OUCBAPCD	18	
OUCBAPD	20	
OUCBAPDS	E0	
OUCBAPPD	14	
OUCBAPRQ	0	
OUCBAPU	1C	
OUCBASHD	20	
OUCBASID	BE	
OUCBASMP	8	
OUCBASPD	34	
OUCBASST	1A0	
OUCBASWD	28	
OUCBAUXB	3C	
OUCBAVD	1C	
OUCBAXPU	D0	
OUCBBCPS	198	
OUCBBKIA	58	
OUCBBKIE	5C	
OUCBBPIN	4C	
OUCBBPNE	50	
OUCBBUFFERPOOLOTHERDELAY	58	
OUCBBUFFERPOOLTOKENEXCLUDE	B4	
OUCBBUFFERPOOLTOKEN1	A4	
OUCBBUFFERPOOLTOKEN2	AC	
OUCBBUFFERPOOL1DELAY	64	
OUCBBUFFERPOOL2DELAY	68	
OUCBCAMD	18	
OUCBCAMU	14	
OUCBCAP	4	
OUCBCAPB	248	
OUCBCCD	30	
OUCBCD	10	
OUCBCFCT	2C	
OUCBCONTEXTQUEUE	178	
OUCBCONTEXTQUEUEHEAD	178	
OUCBCONTEXTQUEUETAIL	17C	
OUCBCPUR	BC	20
OUCBCPUS	130	
OUCBCQHASBEENCORRUPTED	168	10
OUCBCRMB	12C	
OUCBCSUM	28	
OUCBCU	8	
OUCBDASDIODELAY	38	
OUCBDASDIOUSING	C	
OUCBDFRR	148	80
OUCBECPT	15C	

Name	Hex Offset	Hex Value
OUCBECPU	158	
OUCBEFRR	148	40
OUCBEFS	D8	
OUCBEJST	8	
OUCBENCH	14C	
OUCBENCL	150	
OUCBENCLAVEHSPPAGING	48	
OUCBENCLAVEMPLDELAY	4C	
OUCBENCLAVEPVTPAGING	40	
OUCBENCLAVESWAPDELAY	50	
OUCBENCLAVEVIOPAGING	44	
OUCBENQCPUTIMECONSUMED	174	
OUCBENQCPUTIMECONSUMEDBASE	170	
OUCBENQCPUTIMECONSUMEDI	1F0	
OUCBENQFLAGS	168	
OUCBENQMANAGEMENT	168	
OUCBENQP	168	80
OUCBESB1	C0	
OUCBESB2	C4	
OUCBESB3	C8	
OUCBESB4	CC	
OUCBESHP	B1	
OUCBESMBPTR	8C	
OUCBESTP	B2	
OUCBESVP	B0	
OUCBETCBFIRST	1B4	
OUCBETCBLAST	1B8	
OUCBETCBQ	1B4	
OUCBETIM	154	
OUCBETRC	164	
OUCBEUB1	138	
OUCBEUB2	13C	
OUCBEUB3	140	
OUCBEUB4	144	
OUCBEXIB	124	
OUCBEXOB	128	
OUCBFIX	20	
OUCBFLGX	131	
OUCBFLGX2	14	
OUCBFQD	24	
OUCBGFRR	148	20
OUCBGRLU	180	
OUCBGR02	18C	
OUCBHOLD	18	
OUCBHSUM	24	
OUCBIATK	100	
OUCBIQFL	10A	
OUCBIRST	27C	
OUCBIS	0	
OUCBLRPS	104	
OUCBLSMP	BC	80
OUCBMD	2C	
OUCBMDAC	148	08
OUCBMDEL	B4	
OUCBMTRM	66	

Name	Hex Offset	Hex Value
OUCBNONDASDIO	C	
OUCBNQC	16A	
OUCBNQT	16C	
OUCBNSPT	C8	
OUCBOUS	4	
OUCBOUTT	1C	
OUCBPGIB	44	
OUCBPGTB	38	
OUCBPINB	10C	
OUCBPINE	54	
OUCBPINT	110	
OUCBPLAB	D4	
OUCBPQID	109	
OUCBPROA	168	40
OUCBPROE	168	20
OUCBPROPAGATEDENQHOLDCOUNT	132	
OUCBPSO	10	
OUCBPSRB	148	01
OUCBPSRV	149	80
OUCBPU2B	48	
OUCBPXMO	54	
OUCBPXM1	5C	
OUCBPXM2	60	
OUCBQID	108	
OUCBRCSD	48	
OUCBRCSU	4C	
OUCBREPTSAMPLES	0	
OUCBREPTSAMPLES_CACHELINE1	0	
OUCBREPTSAMPLESPTR	78	
OUCBRESB	40	
OUCBRQCT	0	
OUCBRSNS	148	02
OUCBRSOS	0	
OUCBRSOS_NAME	7C	
OUCBRSTB	4	
OUCBRSV7	19C	
OUCBRSV8	BD	7F
OUCBS	0	
OUCBS_CACHELINE1	0	
OUCBS_CACHELINE2	80	
OUCBSAMPLES	0	
OUCBSAMPLES_CACHELINE1	0	
OUCBSAMPLESPTR	74	
OUCBSCLS	1B0	
OUCBSCPI	1C4	
OUCBSCTE	D4	
OUCBSDAC	DC	
OUCBSEEC	64	
OUCBSEND	100	
OUCBSERVINSTACTIVE	80	
OUCBSERVINSTACTIVERGNWORK	E8	
OUCBSERVINSTCAPACITY	94	

Name	Hex Offset	Hex Value
OUCBSFEC	62	
OUCBSFLG	BD	
OUCBSHBP	94	
OUCBSHEADER	0	
OUCBSLEN	C	
OUCBSMSK	10B	
OUCBSNAME	0	
OUCBSONA	B3	
OUCBSOS	0	
OUCBSOS_NAME	7C	
OUCBSPSS	190	
OUCBSPTE	90	
OUCBSPTR	70	
OUCBSQBP	6C	
OUCBSQFP	68	
OUCBSRCI	1B2	
OUCBSRRC	34	
OUCBSRST	1A8	
OUCBSSCI	1B0	
OUCBSSPS	148	04
OUCBSVER	8	
OUCBSWCB	2E	
OUCBSWFC	60	
OUCBSWPC	10	
OUCBSWSA	B8	
OUCBSWSC	BC	
OUCBSXMX	A0	
OUCBSXM1	98	
OUCBSXM2	9C	
OUCBTAXB	114	
OUCBTEMPAFFINITYEXIST		
	E4	
OUCBTMC	F4	
OUCBTMCT	E8	
OUCBTMF	134	
OUCBTMPS	E4	
OUCBTMRD	F0	
OUCBTMSD	EC	
OUCBUSINGTIMEBASE		
	A0	
OUCBUSINGTIMEBASESM		
	88	
OUCBVALB	C0	
OUCBVHDB	118	
OUCBVHPB	11C	
OUCBVHUB	120	
OUCBWAITTIMEBASE		
	9C	
OUCBWAITTIMEBASESM		
	84	
OUCBWCFO	C4	
OUCBWKTM	30	
OUCBWLMF	A4	
OUCBWLMF	BC	
OUCBWLMQUEUEDELAY		
	3C	
OUCBWLM2	148	
OUCBWL2F	149	
OUCBWORKQTOKEN		
	98	
OUCBWSMT	148	10
OUCBWSS	14	
OUCBWTKN	C4	
OUCBX	0	
OUCBX_CONNTIME_BASE		
	264	
OUCBX_CPU_SERVTIME_BASE		
	E0	
OUCBX_GMI_F1	270	
OUCBX_PA_PCS_TAR		
	270	20
OUCBX_PA_PPS_TAR		
	270	10
OUCBX_PCS_CHANGETIME		
	278	
OUCBX_PPS_CHANGETIME		
	274	
OUCBX_STCR_CHSK		
	270	80
OUCBX_STCR_PHSK		
	270	40
OUCBXARRIVALTIMESTCKWORD1		
	260	
OUCBXCLSFYPRIORITY		
	200	
OUCBXCRAS	244	
OUCBXCRRB	240	
OUCBXDAT	D8	
OUCBXDECPUTIMEFORWM1		
	88	
OUCBXDEENQCPUTIMECONSUMED		
	1EC	
OUCBXDEIOCONNECTTIME		
	1D8	
OUCBXDEIODISCONNECTTIME		
	1DC	
OUCBXDEIOWAITTIME		
	1E0	
OUCBXDEPENCLCOUNT		
	14A	
OUCBXDEPENCLTIMEEXISTS		
	149	40
OUCBXDESSCHCOUNT		
	1E4	
OUCBXDETOTALCPUTIME		
	1BC	
OUCBXENCSSCHCOUNT		
	A8	
OUCBXEND	280	
OUCBXEQUBATCHQDELAY		
	224	
OUCBXFIX_B2G	AC	
OUCBXFLAGS	1EA	
OUCBXHASREMOTESYSTEMDATA		
	1EA	04
OUCBXIEIOCONNECTTIME		
	1C8	
OUCBXIEIODISCONNECTTIME		
	1CC	
OUCBXIEIOWAITTIME		
	1D0	
OUCBXIESSCHCOUNT		
	1D4	
OUCBXIGNORETRXNSSPECIFIED		
	131	02
OUCBXINELIGIBLETIME		
	210	
OUCBXINSTLLPLOT		
	2C	
OUCBXINSTVSPLOT		

Name	Hex Offset	Hex Value
	28	
OUCBXIOCONTIMEINTVBASE		
	230	
OUCBXIOCOUNTINTVBASE		
	234	
OUCBXIODISCTIMEINTVBASE		
	238	
OUCBXIOSQTIME		
	18	
OUCBXIOSQTIMEINTVBASE		
	23C	
OUCBXIOWAITTIMEINTVBASE		
	22C	
OUCBXJCLCONVERSIONTIME		
	208	
OUCBXJOBREINCARNATED		
	1EA	10
OUCBXLATCHCOUNT		
	258	
OUCBXLLOCKUTIL		
	24	
OUCBXMFT	A4	40
OUCBXMSV	BD	80
OUCBXOLDPREEMPTION		
	A4	01
OUCBXOPERATORFORCEDINITIATION		
	1EA	20
OUCBXOUCBSRCSAVE		
	7C	
OUCBXPERFORMVALUE		
	1E8	
OUCBXPERIODSTARTREMOTESERVICE		
	25C	
OUCBXQUEUETIME		
	204	
OUCBXREGISTRATIONCOUNT		
	F8	
OUCBXREMOTESERVICE		
	250	
OUCBXREMOTESYSTEMDATAINCOMPLETE		
	1EA	02
OUCBXREMOTESYSTEMDATAPTR		
	254	
OUCBXRESETAFTERINITIATION		
	1EA	40
OUCBXRESETBEFOREINITIATION		
	1EA	80
OUCBXRESTARTTRANATSWAPIN		
	A4	04
OUCBXSCHEDENV		
	214	
OUCBXSERVINSTINITIAL		
	92	
OUCBXSERVINSTLIMIT		
	90	
OUCBXSERVTASKSMANAGED		
	14	40
OUCBXSMF30EXPPAGERESIDENCYTIME		
	80	
OUCBXSRMTOKEN		
	CC	
OUCBXSTGCRIT_SPECIFIED_EXPLICIT		
	131	04
OUCBXSTGPROTNOW		
	131	08
OUCBXSUBSYSTEMCOLLECTIONNAME		
	268	
OUCBXSYSORRESAFFTIME		
	20C	
OUCBXSYST	1EA	08
OUCBXTOTALSERVICEBASE		
	228	
OUCBXUICUPDATED		
	131	20
OUCBXVSAVLABV16MB		
	20	
OUCBXVSAVLBEL16MB		
	1C	
OUCBXVSDATACOLLECTED		
	14	10
OUCBXWASHIDP	A4	08
OUCBXWASPRIV	A4	02

IRAQVS Programming Interface information

Programming Interface information

IRAQVS

End of Programming Interface information

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IRAQVS Heading Information

Common Name: Sysevent QVS parameter list
Macro ID: IRAQVS
DSECT Name: QVS
Owning Component: System Resource Manager (SC1CX)
Eye-Catcher ID: None
Storage Attributes: Subpool: Anywhere
Key: Caller key
Residency: Anywhere
Size: See assembly listing
Created by: Caller of SYSEVENT QVS
Pointed to by: Register 1 on entry to SYSEVENT QVS
Serialization: None
Function: Maps data returned by SYSEVENT QVS (Query Virtual Server). The caller is required to set field QvsLen to the length of the entire parameter list before invoking the SYSEVENT. On return the caller can inspect fields QvsVer and QvsFlags to determine which fields have been filled in.

IRAQVS Map

Offsets Dec	Offsets 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)	SIGNED	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)	SIGNED	2		IRAQVS.307: Reserved
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-ma- nufacture portion of the serial number is excluded.
44	(2C)	CHARACTER	16	QVSCECMANUFACTURERNAME	IRAQVS.321: CEC manufacturer name
60	(3C)	CHARACTER	4	QVSCECPLANTOFMANUFACTURE	IRAQVS.262: Code that identifies the plant of manufacture
64	(40)	SIGNED	4	QVSCECCAPACITY	IRAQVS.41: CEC CPU capacity in millions of service units per hour
68	(44)	CHARACTER	8	QVSIMGLOGICALPARTITIONNAME	IRAQVS.317: Logical partition name
76	(4C)	SIGNED	2	QVSIMGLOGICALPARTITIONID	IRAQVS.207: Logical partition identifier in binary
78	(4E)	SIGNED	2		IRAQVS.213: Reserved
80	(50)	SIGNED	4	QVSIMGCAPACITY	

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

Comment

IRAQVS.246: Service completed successfully

End of Comment

96	(60)	X'0'	0	QVSRCOK	"0"

Comment

IRAQVS.234: Parameter list is too small to contain version 1 data

End of Comment

96	(60)	X'4'	0	QVSRCTOOSMALL	"4"
96	(60)	X'60'	0	QVS_LEN	"*-QVS"

IRAQVS Cross Reference

Name	Hex Offset	Hex Value
QVS	0	
QVS_LEN	60	60
QVSCECCAPACITY	40	
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	
QVSRCOK	60	0
QVSRCTOOSMALL	60	4
QVSVER	4	
QVSVER1	60	1
QVSVMCAPACITY	5C	
QVSVMNAME	54	
QVSVMVALID	5	20

IRARASC Programming Interface information

Programming Interface information

IRARASC

End of Programming Interface information

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IRARASC Heading Information

Common Name: Request Address Space Classification Informatio
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)	SIGNED	1	RASC_VERSION	Version
5	(5)	CHARACTER	1		Reserved.
6	(6)	SIGNED	2	RASC_LENGTH	Total size of RASC
8	(8)	CHARACTER	180	RASC_OUTPUTS (0)	
8	(8)	CHARACTER	8	RASCTRXN	Transaction program name
16	(10)	CHARACTER	8	RASCUSER	Userid

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
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)	SIGNED	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	RASCPRIO	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)	
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	RASCSRTK	IWMCLSFY SRMTOKEN value for this address space
232	(E8)	CHARACTER	1	RASC_END_VERSION4 (0)	
232	(E8)	X'C1E2C3'	0	RASC_ID_CONSTANT	
					"C'RASC'" RASC eye catcher
232	(E8)	X'1'	0	RASC_VERSION1	
					"1" RASC version 1.
232	(E8)	X'2'	0	RASC_VERSION2	
					"2" RASC version 2.
232	(E8)	X'3'	0	RASC_VERSION3	
					"3" RASC version 3.
232	(E8)	X'4'	0	RASC_VERSION4	
					"4" RASC version 4.
232	(E8)	X'4'	0	RASC_CURRENTVERSION	
					"4" Current Version
232	(E8)	X'BC'	0	RASC_VERSION1_LEN	
					"188" Length of version 1 ASC.
232	(E8)	X'CC'	0	RASC_VERSION2_LEN	
					"204" Length of version 2 ASC.
232	(E8)	X'CC'	0	RASC_VERSION3_LEN	
					"204" Length of version 3 ASC.
232	(E8)	X'E8'	0	RASC_VERSION4_LEN	
					"232" Length of version 4 ASC.
232	(E8)	X'E8'	0	RASC_CURRENTVERSION_LEN	
					"232"
232	(E8)	X'E8'	0	RASC_LEN	"*-RASC"

IRARASC Cross Reference

Name	Hex Offset	Hex Value
RASC	0	
RASC_ACCT_AREA	2C	
RASC_ACRO	0	
RASC_CURRENTVERSION	E8	4
RASC_CURRENTVERSION_LEN	E8	E8
RASC_END_VERSION1	BC	
RASC_END_VERSION2	CC	
RASC_END_VERSION3	CC	
RASC_END_VERSION4	E8	
RASC_ID_CONSTANT	E8	C1E2C3
RASC_INPUTS	0	
RASC_LEN	E8	E8
RASC_LENGTH	6	
RASC_OUTPUTS	8	
RASC_VERSION	4	
RASC_VERSION1	E8	1
RASC_VERSION1_LEN	E8	BC
RASC_VERSION2	E8	2
RASC_VERSION2_LEN	E8	CC
RASC_VERSION3	E8	3
RASC_VERSION3_DATA	C4	
RASC_VERSION3_LEN	E8	CC
RASC_VERSION4	E8	4
RASC_VERSION4_DATA	CC	
RASC_VERSION4_LEN	E8	E8
RASCACCL	2C	
RASCACCT	2D	
RASCPERF	BC	
RASCPRIO	C4	
RASCRSV1	C8	
RASCSENV	CC	
RASCSRTK	E4	
RASCSSCL	DC	
RASCSUBN	24	
RASCSUBT	20	
RASCTRXC	18	
RASCTRXN	8	
RASCUSER	10	

IRARASD Programming Interface information

Programming Interface information

IRARASD

End of Programming Interface information

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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	IRARASD.52: RASD input fields
4	(4)	SIGNED	2	RASDLEN	IRARASD.55: Length of RASD
6	(6)	CHARACTER	2	RASDRSV1	IRARASD.61: Reserved
8	(8)	CHARACTER	64	RASDOUT	IRARASD.67: RASD output fields
8	(8)	SIGNED	1	RASDPER#	IRARASD.70: Current period
9	(9)	SIGNED	1	RASDBITS	IRARASD.76: System mode indicators

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		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	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	IRARASD.121: Address space status
		1...		RASDSRV	"X'80'" IRARASD.127: Address space is a server (WLM goal is not being honored for this address space because it is a server)
		.1..		RASDQSC	"X'40'" IRARASD.133: Address space was quiesced by a RESET command or IWMRESET macro
		..1.		RASDRESET	"X'20'" IRARASD.414: Address space was reset to the service class or performance group by the RESET command or IWMRESET macro. NOTE: Although this flag is in the goal mode section of the output, it is set when appropriate in compatibility mode too.
		...1		RASDTAF	"X'10'" IRARASD.572: Address space has temporal affinities
45	(2D)	CHARACTER	3	RASDRSV3	IRARASD.139: Reserved
48	(30)	CHARACTER	4	RASDSCTK	IRARASD.409: Service class token
52	(34)	CHARACTER	4	RASDCINF	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	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	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	IRARASD.337: RASD output fields added for version 4
100	(64)	BITSTRING	4	RASDFLAGS1	IRARASD.340: Flags
		1...		RASDCPROTCPU	"X'80'" IRARASD.519: Service class assigned by classification or RESET SRVCLASS was designated CPU-critical in the active policy
		.1..		RASDCPROTSTG	"X'40'" IRARASD.486: Address space is serving transactions which belong to a service class that was designated storage-critical in the active policy's classification rules

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
		..1.		RASDASPROTSTG	"X'20'" IRARASD.488: Address space matched a classification rule in the active policy which was designated storage-critical
		...1		RASDTRXNMGMTEXEMPT	"X'10'" IRARASD.503: 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.509: CPU protection was assigned either to the address space (see RasdCProtCpu) or to transaction service classes being served by the space, and SRM is honoring the protection
		.... .1..		RASDSTGPROTECTED	"X'04'" IRARASD.525: 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
104	(68)	BITSTRING	4	RASDSRMTOKEN	IRARASD.552: IWMCLSFY SRMTOKEN output value
108	(6C)	CHARACTER	4		IRARASD.582: Reserved
112	(70)	CHARACTER	1	RASDEND4 (0)	IRARASD.513: end for version 4
112	(70)	CHARACTER	1	RASDEND (0)	IRARASD.563: insert new sections before thispoint

Comment

IRARASD.181: size of rasd

End of Comment

112	(70)	X'70'	0	RASDSIZE	"112"

Comment

IRARASD.13: size of workarea for REQFASD

End of Comment

112	(70)	X'152'	0	RQFASDWA	"338"

Comment

IRARASD.334: size of IRARMF81's dynamic area

End of Comment

112	(70)	X'68'	0	F81DSIZE	"104"

Comment

IRARASD.32: size of IRARMASD's dynamic area

End of Comment

112	(70)	X'A2'	0	ASDDSIZE	"162"
112	(70)	X'70'	0	RASD_LEN	"*-RASD"

IRARASD Cross Reference

Name	Hex Offset	Hex Value
ASDDSIZE	70	A2
F81DSIZE	70	68
RASD	0	
RASD_LEN	70	70
RASDACRO	0	
RASDASPROTSTG	64	20
RASDBITS	9	
RASDCINF	34	
RASDCPROTCPU	64	80
RASDCPROTSTG	64	40
RASDCPUPROTECTED	64	8
RASDDECPUTIME	40	
RASDDMN	36	
RASDEND	70	
RASDEND1	48	
RASDEND2	50	
RASDEND3	64	
RASDEND4	70	
RASDFIX	5C	
RASDFLAGS1	64	
RASDGINF	C	
RASDIECPUTIME	38	
RASDIN	4	
RASDLEN	4	
RASDMAXLEN	4C	
RASDMODE	9	80
RASDOUT	8	
RASDOUT2	48	
RASDOUT3	50	
RASDOUT4	64	
RASDPER#	8	
RASDPGN	34	
RASDPSO	58	
RASDQSC	2C	40
RASDRCL	24	
RASDRESET	2C	20
RASDRGRP	1C	
RASDRSV1	6	
RASDRSV2	A	
RASDRSV3	2D	
RASDRSV4	4E	
RASDSCL	C	
RASDSCTK	30	
RASDSIZE	70	70
RASDSRMTOKEN	68	
RASDSRV	2C	80
RASDSTAT	2C	
RASDSTGPROTECTED	64	4
RASDSUBT	48	
RASDTAF	2C	10
RASDTRR	60	
RASDTRXNMGMTEXEMPT	64	10
RASDTWSS	54	
RASDWKLD	14	
RASDWSS	50	
RQFASDWA	70	152

IRARENF1 Programming Interface information

Programming Interface information

IRARENF1

End of Programming Interface information

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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	Offsets 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

Name	Hex Offset	Hex Value
SRME1	0	
SRME2	1	
SRME3	2	
SRME4	3	

IRASRCD Programming Interface information

Programming Interface information

IRASRCD

End of Programming Interface information

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IRASRCD Heading Information

Common Name: System Resource Manager Swapout Reason Codes
Macro ID: IRASRCD
DSECT Name: N/A
Owning Component: System Resource Manager (SC1CX)
Eye-Catcher ID: None
Storage Attributes: Subpool: N/A
Key: N/A
Residency: N/A
Size: N/A
Created by: N/A
Pointed to by: N/A
Serialization: N/A
Function: The IRASRCD macro defines the codes which describe the reasons for swapping users out of memory. The codes are placed in an OUCB field (OUCBSRC) prior to requesting that a user be swapped out.

IRASRCD Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0		
0	(0)	X'1'	0	SRCDTOSC	"1" TERM OUTPUT WAIT SWAPOUT
0	(0)	X'2'	0	SRCDTISC	"2" TERMINAL INPUT WAIT SWAPOUT
0	(0)	X'3'	0	SRCDLWSC	"3" LONG WAIT CAUSED SWAP
0	(0)	X'4'	0	SRCDXSSC	"4" AUX STOR SHORTAGE CAUSED SWP
0	(0)	X'5'	0	SRCDRSSC	"5" REAL STOR SHORT CAUSED SWAP
0	(0)	X'6'	0	SRCDDWSC	"6" DETECTED WAIT CAUSED SWAP
0	(0)	X'7'	0	SRCDRQSC	"7" REQSWAP SYSEVENT CAUSED SWAP Flag is also set for REALSWAP SYSEVENT
0	(0)	X'8'	0	SRCDNQSC	"8" CAP ENQ EXCHANGE SWAPOUT
0	(0)	X'9'	0	SRCDEXSC	"9" CAP EXCHANGE BASED UPON RECOMMENDATION VALUES
0	(0)	X'A'	0	SRCDUSSC	"10" CAP UNILATERAL SWAPOUT
0	(0)	X'B'	0	SRCDTSSC	"11" TRANSITION SWAP
0	(0)	X'C'	0	SRCDICSC	"12" SWAP TO IMPROVE CENTRAL STORAGE USAGE
0	(0)	X'D'	0	SRCDIPSC	"13" SWAP TO IMPROVE SYSTEM PAGING RATE
0	(0)	X'E'	0	SRCDMRSC	"14" SWAP TO MAKE ROOM FOR AN OUT TOO LONG ADDRESS SPACE
0	(0)	X'F'	0	SRCDAWSC	"15" APPC VERB SERVICE WAIT
0	(0)	X'10'	0	SRCDOISC	"16" WAITING TO PROCESS MORE OpenMVS WORK CAUSED THE SWAP (INPUT)
0	(0)	X'11'	0	SRCDOOSC	"17" WAITING TO OUTPUT MORE OpenMVS WORK CAUSED THE SWAP
0	(0)	X'12'	0	SRCIRSSC	"18" REALSWAP SYSEVENT CAUSED SWAP
0	(0)	X'12'	0	SRCDMAXN	"18" MAXIMUM VALID SWAP REASON CODE NUMBER

IRASRCD Cross Reference

Name	Hex Offset	Hex Value
SRCDAWSC	0	F
SRCDDWSC	0	6
SRCDEXSC	0	9
SRCDICSC	0	C
SRCDIPSC	0	D
SRCDLWSC	0	3
SRCDMAXN	0	12
SRCDMRSC	0	E
SRCDNQSC	0	8
SRCDOISC	0	10
SRCDOOSC	0	11
SRCDRQSC	0	7
SRCDRSSC	0	5
SRCDTISC	0	2
SRCDTOSC	0	1
SRCDTSSC	0	B
SRCDUSSC	0	A
SRCDXSSC	0	4
SRCIRSSC	0	12

IRASRMST Programming Interface information

Programming Interface information

IRASRMST

End of Programming Interface information

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IRASRMST Heading Information

Common Name: Request SRM Status Sysevent Parameter List
Macro ID: IRASRMST
DSECT Name: SRMSTAT
Owning Component: SYSTEM RESOURCE MANAGER (SC1CX)
Eye-Catcher ID: none
Storage Attributes: Main Storage: n/a
Virtual Storage: n/a
Subpool: Storage must be non-pageable
Key: Sysevent caller's key
Residency: n/a
Size: 120 BYTES
Created by: Invoker of the REQSRMST sysevent
Pointed to by: Register 1 on sysevent invocation
Serialization: none
Function: This macro defines the parameter list of data that is returned via the REQSRMST sysevent. The storage for this parameter list must be obtained by the issuer of the sysevent and the storage must be non-pageable. The SRMSTLEN field must be filled in with the length of this parameter list. The constant SRMSTSIZ can be used to set this length.
The issuer must place the address of the parameter list in register 1 prior to issuing the REQSRMST sysevent. If the REQSRMST sysevent is issued with the branch entry option, the caller must also provide the address of a 72 byte standard savearea in register 13.
The SRMSTMDE bit should be interrogated to determine whether the system is in goal mode or compatability mode. If SRMSTMDE is on then the system is running in compatibility mode, otherwise the system is in goal mode. Only information pertaining to the current system mode is returned by the sysevent (the data will be zeroes for the non-active mode).
See individual field descriptions and notes for further details concerning the meaning of the actual data which is returned.

IRASRMST Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	SRMSTAT	
0	(0)	CHARACTER	4	SRMSTIN (0)	SRMST input fields
0	(0)	SIGNED	2	SRMSTLEN	Length of SRMSTAT
2	(2)	CHARACTER	2	SRMSTRV1	Reserved
4	(4)	CHARACTER	116	SRMSTOUT (0)	SRMST output fields
4	(4)	BITSTRING	1	SRMSTFLG (0)	flags
		1...		SRMSTMDE	"X'80'" Mode of the system (OFF - the system is operating in goal mode, ON - the system is operating in compatibility mode)
5	(5)	BITSTRING	1	SRMSTFF1 (0)	Function availability flags for new functions introduced via APARs
		1...		SRMSTERG	"X'80'" Enclave Registration
		.1..		SRMSTTAF	"X'40'" Temporal affinity

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		..1.		SRMSTCAP	"X'20'" Monitoring data for defined capacity
6	(6)	CHARACTER	2	SRMSTRV2	Reserved
8	(8)	BITSTRING	8	SRMSTTOC	Current time of day indicating when the REQSRMST sysevent was issued. The timestamp is in store clock (STCK) format.
16	(10)	CHARACTER	8	SRMSTOPT	OPT parmlib member in use. NOTE: "IEAOPT--" indicates no OPT member specified.
24	(18)	CHARACTER	16	SRMSTCM (0)	The fields within this structure are applicable to MVS Workload Management compatibility mode. NOTE: All of the fields contained in this structure will be zeroed when in goal mode.
24	(18)	CHARACTER	8	SRMSTIPS	IPS parmlib member in use. NOTE: "IEAIPS--" indicates the skeleton IPS is in affect.
32	(20)	CHARACTER	8	SRMSTICS	ICS parmlib member in use. NOTE: "IEAICS--" indicates no ICS member specified.
40	(28)	CHARACTER	64	SRMSTGM (0)	The fields within this structure are applicable to MVS Workload Management goal mode. NOTE: All of the fields contained in this structure will be zeroed when in compatibility mode.
40	(28)	CHARACTER	8	SRMSTAPN	Active service policy name.
48	(30)	BITSTRING	8	SRMSTAPT	A timestamp of when the active service policy was originally activated. The timestamp is in store clock (STCK) format.
56	(38)	CHARACTER	8	SRMSTAPU	Userid that activated the service policy.
64	(40)	CHARACTER	8	SRMSTAPS	Name of the system on which the service policy activation was initiated.
72	(48)	CHARACTER	8	SRMSTADN	Installed service definition name at the time the policy was activated
80	(50)	BITSTRING	8	SRMSTADT	A timestamp of when the service definition was installed. The timestamp is in store clock (STCK) format.
88	(58)	CHARACTER	8	SRMSTADU	Userid that installed the service definition.
96	(60)	CHARACTER	8	SRMSTADS	Name of the system on which the service definition was installed.
104	(68)	CHARACTER	16	SRMSTRV3	Reserved
120	(78)	CHARACTER	1	SRMSTEND (0)	End
120	(78)	X'78'	0	SRMSTSIZ	"120"
120	(78)	X'78'	0	SRMSTAT_LEN	"*-SRMSTAT"

IRASRMST Cross Reference

Name	Hex Offset	Hex Value
SRMSTADN	48	
SRMSTADS	60	
SRMSTADT	50	
SRMSTADU	58	
SRMSTAPN	28	
SRMSTAPS	40	
SRMSTAPT	30	
SRMSTAPU	38	
SRMSTAT	0	
SRMSTAT_LEN	78	78
SRMSTCAP	5	20
SRMSTCM	18	
SRMSTEND	78	
SRMSTERG	5	80
SRMSTFF1	5	
SRMSTFLG	4	
SRMSTGM	28	
SRMSTICS	20	
SRMSTIN	0	
SRMSTIPS	18	
SRMSTLEN	0	
SRMSTMDE	4	80
SRMSTOPT	10	
SRMSTOUT	4	
SRMSTRV1	2	
SRMSTRV2	6	
SRMSTRV3	68	
SRMSTSIZ	78	78
SRMSTTAF	5	40
SRMSTTOC	8	

IRB Heading Information

Common Name: Interruption Response Block
Macro ID: IHAIRB
DSECT Name: IRB
Owning Component: I/O Supervisor (SC1C3)
Eye-Catcher ID: None
Subpool and Key: 245 and key 0 (Residence - above or below 16M line)
Size: 64 bytes
Created by: Channel
Pointed to by: Usually contained within IOWA
Serialization: Disablement
Function: Represents status of an I/O operation.

IRB Map

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	64	IRB	
0	(0)	CHARACTER	12	IRBSCSW	Subchannel Status Word
0	(0)	BITSTRING	4	IRBWORD1	First word of IRB
0	(0)	BITSTRING	1	IRBFLG0	Flags
		1111		IRBKEY	o Key
		.... 1...		IRBS	o Suspend control
		.... .1..		IRBL	o ESW contains logout data
		11		IRBCC	o Deferred Condition Code
1	(1)	BITSTRING	1	IRBFLG1	Flags
		1...		IRBF	o Format of channel program
		.1..		IRBP	o Prefetch of CCW's allowed
		..1.		IRBI	o Initial status response requested
		...1		IRBA	o Address limit checking required.
		.... 1...		IRBSI	o Suppress suspend interruption
		.... .1..		IRBZ	o Zero condition code to initial selection
		.... ..1.		IRBE	o IRBEDATA contains extended data
		1		IRBN	o Path not operational
2	(2)	BITSTRING	2	IRBSCHC0	Subchannel Control
		1...		*	
		.111		IRBFC	FUNCTION Control
		.1..		IRBFSSCH	o Start Subchannel
		..1.		IRBFHSCH	o Halt Subchannel
		...1		IRBFCSCH	o Clear Subchannel
2	(2)	BITSTRING	0	IRBAC	ACTIVITY Control
		.... 1...		IRBARSCH	o Resume pending
		.... .1..		IRBASSCH	o Start pending
		.... ..1.		IRBAHSCH	o Halt pending
		1		IRBACSCH	o Clear pending
3	(3)	1...		IRBASUBA	o Subchnanel active
		.1..		IRBADEVA	o Device active
		..1.		IRBSSPND	o Subchannel suspended
		...1 1111		IRBSC	STATUS Control
		...1		IRBSALRT	o Alert status
		.... 1...		IRBSINTR	o Intermediate status
		.... .1..		IRBSPRIM	o Primary status
		.... ..1.		IRBSSEC	o Secondary status
		1		IRBSPNDG	o Status pending
4	(4)	CHARACTER	8	IRBCSW	Channel Status Word (CSW)
4	(4)	ADDRESS	4	IRBCCWAD	CCW address
8	(8)	BITSTRING	2	IRBSTAT	Device and Subchannel status
8	(8)	BITSTRING	1	IRBDSTAT	Device Status
		1...		IRBDSATN	o Attention
		.1..		IRBDSSM	o Status modifier

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Offsets Dec	Offsets Hex	Type	Len	Name (Dim)	Description
		..1.		IRBDSCUE	o Control unit end
		...1		IRBDSBSY	o Busy
		.... 1...		IRBDSCE	o Channel end
		.... .1..		IRBDSDE	o Device end
		.... ..1.		IRBDSUC	o Unit check
		1		IRBDSUEX	o Unit exception
9	(9)	BITSTRING	1	IRBSSTAT	Subchannel status
		1...		IRBSSPCI	o Program controlled interrupt
		.1..		IRBSSIL	o Incorrect length
		..1.		IRBSSPGC	o Program check
		...1		IRBSSPTC	o Protection check
		.... 1...		IRBSSCDC	o Channel data check
		.... .1..		IRBSSCCC	o Channel control check
		.... ..1.		IRBSSICC	o Interface control check
		1		IRBSSCC	o Chaining check
10	(A)	UNSIGNED	2	IRBCOUNT	Residual count
12	(C)	CHARACTER	20	IRBESWL	Extended status word long, mapped by IHAESWL.
12	(C)	CHARACTER	4	IRBESW	Extended Status Word - mapped by IHAESW
16	(10)	CHARACTER	16	IRBRSVD	Reserved
32	(20)	CHARACTER	32	IRBECW	Extended control word.
32	(20)	CHARACTER	32	IRBEDATA	Extended data area

IRB Constants

Len	Type	Value	Name	Description
Comment				
IRBCC field declares - Deferred Condition Codes				
End of Comment				
0	BIT	00	IRBCC0	Deferred condition code 0
0	BIT	01	IRBCC1	Deferred condition code 1
0	BIT	11	IRBCC3	Deferred condition code 3

IRB Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
IRB	0		IRBEDATA	20	
IRBA	1	10	IRBESW	C	
IRBAC	2		IRBESWL	C	
IRBACSCH	2	01	IRBF	1	80
IRBADEVA	3	40	IRBFC	2	70
IRBAHSCH	2	02	IRBFCSCH	2	10
IRBARSCH	2	08	IRBFHSCH	2	20
IRBASSCH	2	04	IRBFLG0	0	
IRBASUBA	3	80	IRBFLG1	1	
IRBCC	0	03	IRBFSSCH	2	40
IRBCCWAD	4		IRBI	1	20
IRBCOUNT	A		IRBKEY	0	F0
IRBCSW	4		IRBL	0	04
IRBDSATN	8	80	IRBN	1	01
IRBDSBSY	8	10	IRBP	1	40
IRBDSCE	8	08	IRBRSVD	10	
IRBDSCUE	8	20	IRBS	0	08
IRBDSDE	8	04	IRBSALRT	3	10
IRBDSSM	8	40	IRBSC	3	1F
IRBDSTAT	8		IRBSCHC0	2	
IRBDSUC	8	02	IRBSCSW	0	
IRBDSUEX	8	01	IRBSI	1	08
IRBE	1	02	IRBSINTR	3	08
IRBECW	20		IRBSPNDG	3	01

Name	Hex Offset	Hex Value
IRBSPRIM	3	04
IRBSSCC	9	01
IRBSSCCC	9	04
IRBSSCDC	9	08
IRBSSEC	3	02
IRBSSICC	9	02
IRBSSIL	9	40
IRBSSPCI	9	80
IRBSSPGC	9	20
IRBSSPND	3	20
IRBSSPTC	9	10
IRBSSTAT	9	
IRBSTAT	8	
IRBWORD1	0	
IRBZ	1	04

IRDDDCE Programming Interface information

Programming Interface information

IRDDDCE

End of Programming Interface information

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IRDDDCE Heading Information

Common Name: FICON Switch UCB Device Class Extension
Macro ID: IRDDDCE
DSECT Name: FsdDce
Owning Component: ESCON (00101)
Eye-Catcher ID: none
Storage Attributes: Subpool: 245
Key: 0
Residency: ESQA
Size: FSDDCE -- X'0010' bytes
Created by: IOSIUCB, IOSVCMUB
Pointed to by: UCBCLEXT
Serialization: None
Function: Maps the FICON Switch device class extension.

IRDDDCE Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	FSDDCE	UCB FICON Switch Device Class Extension
0	(0)	SIGNED	1	FSDDCEVER	DCE Version
1	(1)	CHARACTER	2		Reserved
3	(3)	SIGNED	1	FSDDCELEN	DCE Length
4	(4)	ADDRESS	4	FSDDCEFSD	Address of FICON Switch Data, mapped by IRDDFSD macro, may be zero before FICON switch is brought online
8	(8)	CHARACTER	8		Reserved
8	(8)	X'10'	0	FSDDCE_LEN	"*-FSDDCE"

IRDDFSD Programming Interface information

Programming Interface information

IRDDFSD

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IRDDFSD Heading Information

Common Name: FICON Switch Device Statistical Data Area
Macro ID: IRDDFSD
DSECT Name: Dfsd
Owning Component: ESCON (00101)
Eye-Catcher ID: 'FSD'
Offset: 0
Length: 3
Storage Attributes: Subpool: 245
Key: 0
Residency: ESQA
Size: DFSD -- X'0040' bytes
DFSDSTAT -- X'0040' bytes
Created by: IOSIUCB, IOSVCMUB
Pointed to by: FsdDceFsd in IRDDCE UCB Class Extension
Serialization: None
Function: Maps the FICON Statistical Data Area

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	DFSD	UCB FICON Switch Data Area
0	(0)	CHARACTER	60	DFSDHDR (0)	Header of Control Block
0	(0)	CHARACTER	3	DFSDEYE	Eye Catcher - 'DFS'
3	(3)	SIGNED	1	DFSDVER	Version Code
4	(4)	SIGNED	2	DFSDSIZE	Length of structure
6	(6)	SIGNED	2	DFSDPCNT	Ct of Ports Supported by Switch
8	(8)	CHARACTER	32	DFSDNED	Device Node Identifier
40	(28)	CHARACTER	8	DFSDTODU	Time of day at last update
48	(30)	SIGNED	2	DFSDERRU	Failure ct updating statistics
50	(32)	SIGNED	2	DFSDPSTS	Number of ports for which Statistics are being kept
52	(34)	CHARACTER	8	(0)	The following are updated in consecutive disabled code
52	(34)	SIGNED	4	DFSDNUBT	Stat Updates Begun Tally
56	(38)	SIGNED	4	DFSDNUET	Stat Updates Ended Tally
60	(3C)	ADDRESS	4	DFSDSTVP	Pointer to port's statistics, 0 if port not in use
60	(3C)	X'40'	0	DFSD_LEN	"*-DFSD"

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	DFSDSTAT	Statistics, based on DfsdSTVP ptrs
0	(0)	SIGNED	2	DFSDSPTN	Port number
2	(2)	CHARACTER	2		Reserved for future use
4	(4)	SIGNED	8	DFSDSWTC	Ct of Words Transmitted
12	(C)	SIGNED	8	DFSDSWRC	Ct of Words Received
20	(14)	SIGNED	8	DFSDSFTC	Ct of Frames Transmitted
28	(1C)	SIGNED	8	DFSDSFRC	Ct of Frames Received
36	(24)	SIGNED	4	DFSDSF2C	Ct of Class 2 Frames received
40	(28)	SIGNED	4	DFSDSF3C	Ct of Class 3 Frames received
44	(2C)	SIGNED	4	DFSDSFLC	Ct of Link Ctl Frames Recvd
48	(30)	SIGNED	4	DFSDSMFC	Ct of Multicast Frames Recvd
52	(34)	SIGNED	4	DFSDSFPT	Frame Pacing Time
56	(38)	SIGNED	4	DFSDSFEC	not used
60	(3C)	SIGNED	4	DFSDSLEC	Error Summary Count
60	(3C)	X'40'	0	DFSDSTAT_LEN	"*-DFSDSTAT"

Cross Reference

Name	Hex Offset	Hex Value	Level
DFSD	0		1
DFSD_LEN	3C	40	2
DFSDERRU	30		2
DFSDEYE	0		2
DFSDHDR	0		2
DFSDNED	8		2
DFSDNUBT	34		2
DFSDNUET	38		2
DFSDPCNT	6		2
DFSDPSTS	32		2
DFSDSFEC	38		2
DFSDSFLC	2C		2
DFSDSFPT	34		2
DFSDSFRC	1C		2
DFSDSFTC	14		2
DFSDSF2C	24		2
DFSDSF3C	28		2
DFSDSIZE	4		2
DFSDSLEC	3C		2
DFSDSMFC	30		2
DFSDSPTN	0		2
DFSDSTAT	0		1
DFSDSTAT_LEN	3C	40	2
DFSDSTVP	3C		2
DFSDSWRC	C		2
DFSDSWTC	4		2
DFSDTODU	28		2
DFSDVER	3		2

ISGE51CN Programming Interface information

Programming Interface information

ISGE51CN

End of Programming Interface information

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ISGE51CN Heading Information

Common Name: Global and Local Contention Data (ENF Event Code 51)
Macro ID: ISGE51CN
DSECT Name: ENF51C - Global and local contention data
Owning Component: Global Resource Serialization (SCSDS)
Eye-Catcher ID: ENF51C
Offset: 0
Length: 6 bytes
Storage Attributes: Main Storage: No
Virtual Storage: Yes
Auxiliary Storage: Yes
Subpool: 241
Key: 0
Data Space: No
Residency: ANY
Size: Variable
ENF51C -- X'0028' bytes
+ length of contention data
Created by: GRS or ENF
Pointed to by: First word of the address list pointed to by register 1 on entry to an ENF listen exit
Serialization: None
Function: Maps global and local contention data provided by ENF event code 51

ISGE51CN Map

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	ENF51C	Contention data
0	(0)	CHARACTER	16	ENF51C_HEADER	Header information
0	(0)	CHARACTER	6	ENF51CID	Control block identifier 'ENF51C'
6	(6)	SIGNED	2	ENF51CVERS	Version number. Current version is ENF51CCVER.
8	(8)	SIGNED	4	ENF51CLEN	Length of ENF51C control block, including the appended contention data beginning at ENF51C_RIB
12	(C)	CHARACTER	4		Reserved
16	(10)	CHARACTER	24	ENF51C_CONTENTION_DATA	Contention data
16	(10)	BITSTRING	1	ENF51C_FLAGS	Event description
		1...		ENF51C_CONTENTION_EXISTS	"X'80'" Contention exists for this resource
		.1..		ENF51C_SYSTEM_FAILURE	"X'40'" The system named in ENF51C_FAILED_SYSTEM has failed and has no further interest in any resource
		..1.		ENF51C_SYSTEM_ERROR	"X'20'" Contention notifications may have been lost due to system errors on the system named in ENF51C_FAILED_SYSTEM.
		...1		ENF51C_DATA_INCOMPLETE	"X'10'" The amount of data exceeded the maximum amount that can be transmitted with a cross-system-capable ENF signal
		.... 1...		ENF51C_SYSTEM_ERROR_CLEARED	"X'08'" All systems that suffered the error reported by previous ENF51C_SYSTEM_ERROR signals have been partitioned from the sysplex. Global resource contention data is once again valid
17	(11)	CHARACTER	3		Reserved
20	(14)	CHARACTER	8	ENF51C_TIMESTAMP	

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					Time for which contention data is valid
28	(1C)	SIGNED	2	ENF51C_RIB_OFFSET	
					Offset from the beginning of the parameter list to the beginning of the RIB
30	(1E)	SIGNED	2	ENF51C_RIB_SIZE	
					Length of the fixed portion of the RIB (analogous to the first halfword returned by GQSCAN in register 0)
32	(20)	SIGNED	2	ENF51C_RIBE_SIZE	
					Length of each RIBE (analogous to the second halfword returned by GQSCAN in register 0)
34	(22)	CHARACTER	6		Reserved
40	(28)	CHARACTER	8	ENF51C_FAILED_SYSTEM	
					Name of failing system. Valid only for ENF51C_RECOVERY qualifier.
48	(30)	CHARACTER	1	ENF51C_RIB (0)	Beginning of RIB/RIBE data

Comment

Constant values

End of Comment

48	(30)	X'1'	0	ENF51CVER1	"1" First version of ENF51C
48	(30)	X'2'	0	ENF51CVER2	"2" Second version of ENF51C
48	(30)	X'2'	0	ENF51CCVER	"2" Current version of ENF51C
		....		ENF51C_ALL_CONT	
					"X'01000000'" ENFREQ qualifier value requesting all contention data
		1		ENF51C_LCONT	"X'01000001'" ENFREQ qualifier value requesting local contention data
		.... ..1.		ENF51C_GCONT	"X'01000002'" ENFREQ qualifier value requesting global contention data
		11		ENF51C_RECOVERY	
					"X'01000003'" ENFREQ qualifier value requesting contention recovery data
48	(30)	X'30'	0	ENF51C_LEN	"*-ENF51C"

ISGE51CN Cross Reference

Name	Hex Offset	Hex Value
ENF51C	0	
ENF51C_ALL_CONT		
	30	0
ENF51C_CONTENTION_DATA		
	10	
ENF51C_CONTENTION_EXISTS		
	10	80
ENF51C_DATA_INCOMPLETE		
	10	10
ENF51C_FAILED_SYSTEM		
	28	
ENF51C_FLAGS	10	
ENF51C_GCONT	30	2
ENF51C_HEADER		
	0	
ENF51C_LCONT	30	1
ENF51C_LEN	30	30
ENF51C_RECOVERY		
	30	3
ENF51C_RIB	30	
ENF51C_RIB_OFFSET		
	1C	
ENF51C_RIB_SIZE		
	1E	
ENF51C_RIBE_SIZE		
	20	
ENF51C_SYSTEM_ERROR		
	10	20
ENF51C_SYSTEM_ERROR_CLEARED		
	10	8
ENF51C_SYSTEM_FAILURE		
	10	40
ENF51C_TIMESTAMP		
	14	
ENF51CCVER	30	2
ENF51CID	0	
ENF51CLEN	8	
ENF51CVERS	6	
ENF51CVER1	30	1
ENF51CVER2	30	2

ISGE51RN Programming Interface information

Programming Interface information

ISGE51RN

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ISGE51RN Heading Information

Common Name: Job Suspension/Resumption due to RNL Change (ENF Event Code 51)
Macro ID: ISGE51RN
DSECT Name: ENF51R - Job suspension due to RNL change ENF51R_RESOURCE_NAME
Owning Component: Global Resource Serialization (SCSDS)
Eye-Catcher ID: ENF51R
Offset: 0
Length: 6 bytes
Storage Attributes: Main Storage: No
Virtual Storage: Yes
Auxiliary Storage: Yes
Subpool: 241
Key: 0
Data Space: No
Residency: ANY
Size: ENF51R -- X'0020' bytes
ENF51R_RESOURCE_NAME -- X'0008' bytes
+ length of RNAME
Created by: GRS or ENF
Pointed to by: First word of the address list pointed to by register 1 on entry to an ENF listen exit
Serialization: None
Function: Describes a resource request that causes a job to be suspended because an RNL change is in progress or resumed following the RNL change (ENF event code 51).

ISGE51RN Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	ENF51R	RNL job suspension/resumption data
0	(0)	CHARACTER	16	ENF51R_HEADER	Header information
0	(0)	CHARACTER	6	ENF51RID	Control block identifier 'ENF51R'
6	(6)	SIGNED	2	ENF51RVERS	Version number. Current version is ENF51RCVER.
8	(8)	SIGNED	2	ENF51RLEN	Length of ENF51R control block (including ENF51R_RESOURCE_DATA)
10	(A)	SIGNED	2	ENF51R_RES_OFFSET	Offset to the resource name (mapped by ENF51R_RESOURCE_DATA)
12	(C)	CHARACTER	4		Reserved
16	(10)	CHARACTER	16	ENF51R_DATA	Data pertaining to job and resource
16	(10)	SIGNED	2	ENF51R_ASID	ASID of address space in which job was running
18	(12)	BITSTRING	1	ENF51R_JOB_FLAGS	Job-related flags
		1...		ENF51R_JOB_SUSPENDED	"X'80'" On if job has been suspended, off if job has resumed
19	(13)	BITSTRING	1	ENF51R_RESOURCE_FLAGS	Resource description
		1...		ENF51R_SYSTEM_SCOPE	"X'80'" Resource scope was SYSTEM
		.1..		ENF51R_SYSTEMS_SCOPE	"X'40'" Resource scope was SYSTEMS
		..1.		ENF51R_SHARED	"X'20'" On if requesting shared ownership, off if requesting exclusive ownership
20	(14)	SIGNED	1	ENF51R_RNAME_LEN	

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
					Length of resource RNAME
21	(15)	CHARACTER	3		Reserved
24	(18)	CHARACTER	8	ENF51R_TIMESTAMP	
					Time at which job was suspended
32	(20)	CHARACTER	1	ENF51R_END (0)	End of base part of ENF51R parameter list

Comment

Constant values

End of Comment

32	(20)	X'1'	0	ENF51RVER1	"1" First version of ENF51R
32	(20)	X'1'	0	ENF51RCVER	"1" Current version of ENF51R
32	(20)	X'F1'	0	ENF51R_KSUBPOOL	
					"241" Storage subpool for parameter list
		....		ENF51R_ALL_RNL	
					"X'02000000'" ENFREQ qualifier value requesting all RNL data
		1		ENF51R_SUSPEND	
					"X'02000001'" ENFREQ qualifier value requesting job suspension data
		.... ..1.		ENF51R_RESUME	
					"X'02000002'" ENFREQ qualifier value requesting job resumption data
32	(20)	X'20'	0	ENF51R_LEN	"*-ENF51R"

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	ENF51R_RESOURCE_NAME	

Comment

Resource requested when job was suspended

End of Comment

0	(0)	CHARACTER	8	ENF51R_QNAME	Resource QNAME
8	(8)	CHARACTER	1	ENF51R_RNAME (0)	Beginning of RNAME
8	(8)	X'8'	0	ENF51R_RESOURCE_NAME_LEN	
					"*-ENF51R_RESOURCE_NAME"

ISGE51RN Cross Reference

Name	Hex Offset	Hex Value
ENF51R	0	
ENF51R_ALL_RNL		
	20	0
ENF51R_ASID	10	
ENF51R_DATA	10	
ENF51R_END	20	
ENF51R_HEADER		
	0	
ENF51R_JOB_FLAGS		
	12	
ENF51R_JOB_SUSPENDED		
	12	80
ENF51R_KSUBPOOL		
	20	F1
ENF51R_LEN	20	20
ENF51R_QNAME	0	
ENF51R_RES_OFFSET		
	A	
ENF51R_RESOURCE_FLAGS		
	13	
ENF51R_RESOURCE_NAME		
	0	
ENF51R_RESOURCE_NAME_LEN		
	8	8
ENF51R_RESUME		
	20	2
ENF51R_RNAME	8	
ENF51R_RNAME_LEN		
	14	
ENF51R_SHARED		
	13	20
ENF51R_SUSPEND		
	20	1
ENF51R_SYSTEM_SCOPE		

ISGE51RN Cross Reference

Name	Hex Offset	Hex Value
	13	80
ENF51R_SYSTEMS_SCOPE		
	13	40
ENF51R_TIMESTAMP		
	18	
ENF51RCVER	20	1
ENF51RID	0	
ENF51RLEN	8	
ENF51RVERS	6	
ENF51RVER1	20	1

ISGLMASM Programming Interface Information

Programming Interface Information

ISGLMASM

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ISGLMASM

Common Name: GRS Latch Manager Services Assembler Declares
Macro ID: ISGLMASM
DSECT Name: N/A
Owning Component: GRS
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:

ISGLMASM Map

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

Comment

GRS Latch Manager Latch Create Return Codes

End of Comment

0	(0)	X'0'	0	ISGLCRT_SUCCESS	"0"
0	(0)	X'4'	0	ISGLCRT_DUPLICATE_NAME	"4"
0	(0)	X'10'	0	ISGLCRT_NO_STORAGE	"16"

Comment

GRS Latch Manager Latch Obtain Option Constants

End of Comment

0	(0)	X'0'	0	ISGLOBT_SYNC	"0"
0	(0)	X'1'	0	ISGLOBT_COND	"1"
0	(0)	X'2'	0	ISGLOBT_ASYNC_ECB	"2"

Comment

GRS Latch Manager Latch Obtain Access Constants

End of Comment

0	(0)	X'0'	0	ISGLOBT_EXCLUSIVE	"0"
0	(0)	X'1'	0	ISGLOBT_SHARED	"1"

Comment

GRS Latch Manager Latch Obtain Return Codes

End of Comment

0	(0)	X'0'	0	ISGLOBT_SUCCESS	

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					"0"
0	(0)	X'4'	0	ISGLOBT_CONTENTION	
					"4"

Comment

GRS Latch Manager Latch Release Option Constants

End of Comment

0	(0)	X'0'	0	ISGLREL_UNCOND	
					"0"
0	(0)	X'1'	0	ISGLREL_COND	"1"

Comment

GRS Latch Manager Latch Release Return Codes

End of Comment

0	(0)	X'0'	0	ISGLREL_SUCCESS	
					"0"
0	(0)	X'4'	0	ISGLREL_NOT_OWNED_ECB_REQUEST	
					"4"
0	(0)	X'8'	0	ISGLREL_STILL_SUSPENDED	
					"8"
0	(0)	X'C'	0	ISGLREL_INCORRECT_LATCH_TOKEN	
					"12"

Comment

GRS Latch Manager Latch Purge Return Codes

End of Comment

0	(0)	X'0'	0	ISGLPRG_SUCCESS	
					"0"
0	(0)	X'4'	0	ISGLPRG_DAMAGE_DETECTED	
					"4"

Comment

End of GRS Latch Manager Services Declarations

End of Comment

ISGLMASM Cross Reference

Name	Hex Offset	Hex Value
ISGLCRT_DUPLICATE_NAME	0	4
ISGLCRT_NO_STORAGE	0	10
ISGLCRT_PRIVATE	0	0
ISGLCRT_SUCCESS	0	0
ISGLOBT_ASYNC_ECB	0	2
ISGLOBT_COND	0	1
ISGLOBT_CONTENTION	0	4
ISGLOBT_EXCLUSIVE	0	0
ISGLOBT_SHARED	0	1
ISGLOBT_SUCCESS	0	0
ISGLOBT_SYNC	0	0
ISGLPRG_DAMAGE_DETECTED	0	4
ISGLPRG_SUCCESS	0	0
ISGLREL_COND	0	1
ISGLREL_INCORRECT_LATCH_TOKEN	0	C
ISGLREL_NOT_OWNED_ECB_REQUEST	0	4
ISGLREL_STILL_SUSPENDED	0	8
ISGLREL_SUCCESS	0	0
ISGLREL_UNCOND		

ISGLMASM Cross Reference

Name	Hex Offset	Hex Value
	0	0

ISGRSC Heading Information

Common Name: RING STATUS CHANGE PARAMETER LIST
Macro ID: ISGRSC
DSECT Name: RSC
Owning Component: Global Resource Serialization (SCSDS)
Eye-Catcher ID: RSC
Offset: 0
Length: 4
Storage Attributes: Subpool: 229
Key: 0
Size: 32 bytes
Created by: CALLER OF ISGBCI
Pointed to by: CALLER OF ISGBCI
Serialization: N/A
Function: PARAMETER LIST FOR MODULE ISGBCI, WHICH CHANGES THE CONFIGURATION OF THE GRS RING OF SYSTEMS OR EXTRACTS THE STATUS OF THE GRS RING, OR SENDS DATA BETWEEN SYSTEMS.

ISGRSC Map

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	32	RSC	ISGBCI PARAMETER-LIST
0	(0)	CHARACTER	4	RSCID	CHARACTER STRING 'RSC '
4	(4)	CHARACTER	28	RSCPARMS	PARAMETERS OF RSC
4	(4)	UNSIGNED	1	RSCFUNCT	REQUESTED FUNCTION- FOR POSSIBLE VALUES, SEE DEFINED CONSTANTS RSCFXXXX, WHERE XXXX IS THE 4-LETTER ABBREVIATION OF AN ISGBCI FUNCTION
5	(5)	UNSIGNED	1	RSCSCSFN	SENDCMD SUBFUNCTION CODE- IGNORED EXCEPT WHEN SENDCMD FUNCTION IS INVOKED. SPECIFIES THE RESPONSE REQUIRED BY SENDCMD. FOR POSSIBLE VALUES, SEE DEFINED CONSTANTS RSCRXXXX, WHERE XXXX IS THE 4-LETTER ABBREVIATION OF A RESPONSE
6	(6)	BITSTRING	1	RSCFLAG1	FLAGS
		1...		RSCFLCOM	INTERSYS-COMMUNICATION BIT. USED ONLY FOR SPOP FUNCTION. IF 1, CONTINUE TO COMMUNICATE WITH OTHER SYSTEMS. IF 0, FREE RESOURCES USED IN COMMUNICATING TO OTHER SYSTEMS.
		.1..		RSCFLBRD	BROADCAST BIT. USED ONLY FOR SENDCMD FUNCTION. IF 1, SEND COMMAND TO ALL SYSTEMS IN MAIN-RING. IF 0, SEND COMMAND TO 1 SYSTEM
		..1.		RSCFLMRS	MAIN-RING SEND BIT. USED ONLY FOR SENDCMD FUNCTION. IF 1, SEND COMMAND FROM SENDER TO RECEIVER VIA THE MAIN-RING. IF 0, SEND COMMAND VIA A LINK CONNECTING THIS SYSTEM TO TARGET
		...1		RSCFERQM	ERROR-IN-ISGCQMRG BIT. USED ONLY FOR SERRELS FUNCTION. IF 1, REDUCE RINGSTATE-SERIAL COUNT AND MARK THIS SYSTEM AS HAVING OBSOLETE QEL DATA
		.... 1...		RSCFLNLI	NO-LINK-INFORMATION BIT. USED ONLY FOR SNAPSHOT FUNCTION. IF 1, DO NOT PLACE LINK INFORMATION IN RST
		.... .1..		RSCFLNSI	NO-SYSTEM-INFORMATION BIT. USED ONLY FOR SNAPSHOT FUNCTION. IF 1, DO NOT PLACE SYSTEM INFORMATION IN RST
		.... ..1.		RSCFLCEQ	CONDITIONAL-ENQ BIT. SET ONLY WHEN ISGBTC CALLS ISGBCI. IF 1, ISGBCI MUST RETURN IMMEDIATELY IF THE ISGBCI ENQ-RESOURCE IS NOT AVAILABLE.

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Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		1		RSCFLSUB	SUBSYS-TARGET-MESSAGE BIT. USED ONLY FOR SUBSYS FUNCTION. IF 1, THE TARGET OF SUBSYS MUST WRITE A MESSAGE TO ITS OPERATOR REPORTING THAT IT HAS BEEN REMOVED FROM THE MAINRING
7	(7)	BITSTRING	1	RSCFLAG2	FLAGS
		1...		RSCFLCCS	TRANSFER-CCSR BIT. USED ONLY FOR GETCCS FUNCTION. IF 1, TAKE CCSR FROM THE SYSTEM NAMED IN RSCSYSNM. IF 0, TAKE CCSR ONLY IF IT IS AVAILABLE.
		.1..		RSCFLCNH	CCS-NOT-HELD BIT. USED ONLY FOR RELCCS FUNCTION. IF 1, RELCCS WILL NOT ABEND IF THIS SYSTEM DOES NOT HOLD THE CCSR WHEN RELCCS IS CALLED.
		..1.		RSCFLNRC	NO-RETRY-COMMAND BIT. USED ONLY FOR SENDCMD-RSCRADDS. IF 0, CHOOSE ANOTHER ACTIVE SYSTEM IF TARGET SYSTEM LEAVES THE MAINRING WITHOUT ADDING THIS SYSTEM TO THE MAINRING. IF 1, DO NOT CHOOSE ANOTHER SYSTEM.
		...1		RSCFLTRC	TEST-FOR--RETRY-COMMAND BIT. USED ONLY FOR SENDCMD-RSCRADDS. IF 1, DETERMINE WHETHER A RETRY OF THE SENDCMD-RSCRADDS IS POSSIBLE. CALLER OF ISGBCI WILL DECIDE WHETHER TO RETRY.
		.... 1...		RSCDFDBH	During quick restart when COMPLEX = SYSPLEX, don't try CTC's if they have been defined
		.... .111		*	RESERVED
8	(8)	CHARACTER	8	RSCSYSNM	SYSNAME OF TARGET SYSTEM
16	(10)	ADDRESS	4	RSCTBLAD	RST ADDRESS. USED ONLY FOR ISGBCI FUNCTION SNAPSHOT
16	(10)	ADDRESS	4	RSCCMDAD	CRB ADDRESS. USED ONLY FOR ISGBCI FUNCTION SENDCMD
16	(10)	ADDRESS	4	RSCBUFAD	DATA AREA ADDRESS. USED ONLY FOR ISGBCI FUNCTIONS BUFSEND AND BUFRECV
20	(14)	SIGNED	4	RSCBUFLN	DATA AREA LENGTH. USED ONLY FOR ISGBCI FUNCTIONS BUFSEND AND BUFRECV
20	(14)	SIGNED	4	RSCCMDLN	CRB LENGTH. USED ONLY FOR ISGBCI FUNCTION SENDCMD
20	(14)	CHARACTER	3	*	Reserved.
23	(17)	UNSIGNED	1	RSCDELID	System SYSID of DELSYS target. Set if the target is an XCF system and its SYSNAME and SYSTOKEN are supplied. Setting this field on a delsys indicates that ISGBCI should set up the RSVMENTY for ISGBRM from the data in the RSC. (Note, before GRS operations RAS spe on SP220, this field was used to pass the sysid back to the caller. That is no longer the case.)
24	(18)	SIGNED	4	RSCBUFLR	RECEIVED DATA-LENGTH
24	(18)	SIGNED	4	RSCSYSTK	TARGET SYSTOKEN
28	(1C)	SIGNED	4	RSCTMLIM	RESPONSE TIME-LIMIT, IN UNITS OF APPROXIMATELY .01 SECONDS
32	(20)	CHARACTER	0	RSCEND	END OF RSC

ISGRSC Constants

Len	Type	Value	Name	Description
			Comment	
	RSCFUNCT VALUES			
			End of Comment	
4	DECIMAL	4	RSCFSNAP	SNAPSHOT FUNCTION
4	DECIMAL	8	RSCFSPOP	STARTPOP FUNCTION
4	DECIMAL	12	RSCFSENC	SENDCMD FUNCTION
4	DECIMAL	16	RSCFBSEN	BUFSEND FUNCTION
4	DECIMAL	20	RSCFBRCV	BUFRECV FUNCTION
4	DECIMAL	24	RSCFADDS	ADDSYS FUNCTION
4	DECIMAL	28	RSCFSUBS	SUBSYS FUNCTION
4	DECIMAL	32	RSCFDELS	DELSYS FUNCTION
4	DECIMAL	40	RSCFSERR	SERRELS FUNCTION
4	DECIMAL	44	RSCFWHOI	WHOAMI FUNCTION. USED INTERNALLY BY RING PROCESSING. MUST NOT APPEAR IN RSCFUNCT PASSED TO ISGBCI
4	DECIMAL	48	RSCFNOPC	NO-OP FUNCTION. USED ONLY WHEN CALLER OF ISGBCI IS ISGBTC EXCEPTION-HANDLER
4	DECIMAL	52	RSCFNBRS	NEIGHBOR-SEND FUNCTION. USED INTERNALLY BY RING PROCESSING. MUST NOT APPEAR IN RSCFUNCT PASSED TO ISGBCI
4	DECIMAL	56	RSCFRPSP	REQUEST PERMISSION AND THEN STARTPOP FUNCTION
4	DECIMAL	60	RSCFGCCS	GETCCS FUNCTION - GET COMPLEX-WIDE COMMAND SERIALIZATION
4	DECIMAL	64	RSCFRCCS	RELCCS FUNCTION - RELEASE COMPLEX-WIDE COMMAND SERIALIZATION
4	DECIMAL	68	RSCFCVET	CONDITONAL-VETO OF GETCCS. USED INTERNALLY BY RING PROCESSING. MUST NOT APPEAR IN RSCFUNCT PASSED TO ISGBCI.
			Comment	
	RSCSCSFN VALUES			
			End of Comment	
4	DECIMAL	0	RSCRNONE	NO RESPONSE REQUIRED. ISGBCI RETURNS TO CALLER AFTER CMD IS SENT
4	DECIMAL	4	RSCRADDS	ADDSYS RESPONSE REQUIRED. ISGBCI RETURNS TO CALLER WHEN THIS SYSTEM HAS BEEN BROUGHT INTO MAIN-RING
4	DECIMAL	8	RSCRNMNR	REMOVAL FROM RING REQUIRED. ISGBCI RETURNS TO CALLER AFTER CMD HAS BEEN SENT AND THIS SYSTEM NO LONGER BELONGS TO MAIN-RING
4	DECIMAL	12	RSCRSNAD	SENDCMD-RSCRADDS RESPONSE REQUIRED. ISGBCI RETURNS TO CALLER ONLY AFTER TARGET OF THIS SENDCMD HAS ITSELF ISSUED A SENDCMD-RSCRADDS TO THIS SYSTEM.
			Comment	
	RETURN CODE VALUES			
			End of Comment	
4	DECIMAL	-1	RSCCPEND	PENDING. REQUEST IS STILL BEING PERFORMED BY ISGBSR
4	DECIMAL	0	RSCCGOOD	SUCCESS RETURN CODE
4	DECIMAL	4	RSCCSIZE	BUFFER-SIZE CONDITION. THE BUFFER SENT VIA BUFSEND WAS LARGER THAN THE BUFFER USED IN RECEIVING (VIA BUFRECV).

ISGRSC Constants

Len	Type	Value	Name	Description
4	DECIMAL	8	RSCCNORS	NO-RINGSTATE-SERIAL. BUFSEND OR BUFRECV WAS REJECTED BECAUSE THE TARGET SYSTEM IS NOT IN RINGSTATE-SERIAL.
4	DECIMAL	12	RSCCNOTG	NO-TARGET. SENDCMD (VIA MAINRING), BUFSEND, OR BUFRECV CANNOT BE PERFORMED BECAUSE THE TARGET SYSTEM IS NOT IN THE MAINRING. DELSYS CANNOT BE PERFORMED BECAUSE THE TARGET SYSTEM IS UNKNOWN TO RING PROCESSING
4	DECIMAL	16	RSCCMRFL	MAINRING FAILURE. REQUEST COULD NOT BE PERFORMED BECAUSE THIS SYSTEM IS NOT IN THE MAINRING
4	DECIMAL	20	RSCCNORG	NO-RING. SUBSYS FAILED BECAUSE NO MAINRING COULD BE BUILT WITHOUT THE TARGET SYSTEM
4	DECIMAL	24	RSCCSELF	SUBSYS-SELF. SUBSYS REJECTED BECAUSE THIS SYSTEM SPECIFIED ITSELF AS THE SUBSYS TARGET.
4	DECIMAL	28	RSCCDPTG	DUPLICATE-TARGET. ADDSYS REJECTED BECAUSE THE TARGET SYSTEM IS ALREADY IN THE MAINRING. DELSYS CANNOT BE PERFORMED BECAUSE THE TARGET SYSTEM IS STILL IN THE MAINRING.
4	DECIMAL	32	RSCCRADF	REMOTE-ADDSYS FAILURE. A SENDCMD-RSCRADDS WAS TERMINATED BECAUSE OF THE FAILURE OF ADDSYS ISSUED IN THE TARGET SYSTEM
4	DECIMAL	36	RSCCAMBS	AMBIGUOUS-SYSNAME. A SENDCMD-RSCRADDS WAS REJECTED BECAUSE THE TARGET SYSNAME NAMES MORE THAN 1 SYSTEM.
4	DECIMAL	40	RSCCINVS	INVALID-STATE. A SENDCMD-RSCRADDS WAS REJECTED BECAUSE THE ISSUING SYSTEM IS ALREADY IN THE MAINRING, OR AN ADDSYS WAS REJECTED BECAUSE THIS SYSTEM IS STILL IN SAVE-QWB MODE FROM A PREVIOUS COMMAND
4	DECIMAL	44	RSCCNENQ	FUNCTION NOT PERFORMED BECAUSE CONDITIONAL-ENQ DID NOT OBTAIN ISGBCI ENQ-RESOURCE.
4	DECIMAL	48	RSCCCLNU	FUNCTION NOT PERFORMED BECAUSE SNAPSHOT HAS NOT YET BEEN INVOKED AFTER A MAINRING FAILURE
4	DECIMAL	52	RSCCARNS	REQUEST PERMISSION THEN STARTPOP DID NOT PERFORM STARTPOP
4	DECIMAL	72	RSCCBADL	Bad-link condition. A SENDCMD (non-mainring option) or ADDSYS failed because communication broke down after a link had been found and the command initiated.
4	DECIMAL	76	RSCCLKNF	Link-not-found condition. A SENDCMD (non-mainring option) or ADDSYS could not be initiated because no working link to the target could be found.
4	DECIMAL	80	RSCCINOP	RING PROCESSING INOPERATIVE DUE TO PARMLIB-MEMBER ERROR OR SOFTWARE FAILURE
4	DECIMAL	84	RSCCTIME	TIMELIMIT EXPIRED. THE REQUESTED FUNCTION COULD NOT BE PERFORMED IN THE SPECIFIED TIME
4	DECIMAL	96	RSCCSRNA	SERIALIZATION NOT AVAILABLE. THE CCS-RESOURCE IS HELD BY SOME OTHER SYSTEM. THIS VALUE IS NEVER GIVEN AS A RETURN CODE FROM ISGBCI, BUT IS USED ONLY TO COMMUNICATE BETWEEN ISGBCI AND ISGBSM.

Len	Type	Value	Name	Description
4	DECIMAL	100	RSCCSRNO	SERIALIZATION NOT OWNED. THIS SYSTEM DOES NOT OWN THE CCS-RESOURCE. THE RELCCS REQUEST IS IGNORED.
4	DECIMAL	104	RSCCBDSF	BAD-SUBFUNCTION. A NON-MAINRING SENDCMD-RSCRADDS WAS REJECTED BECAUSE RSCSCSFN HAD AN INVALID VALUE.
4	DECIMAL	108	RSCCSRNH	SERIALIZATION IS NOT HELD. THIS SYSTEM WAS NOT ABLE TO TAKE THE CCS-RESOURCE FROM THE TARGET SYSTEM. THE GETCCS WAS IGNORED. ISGBCI OBTAINED NEITHER THE SYSTEM-WIDE SERIALIZATION NOR THE CCS-RESOURCE.
4	DECIMAL	112	RSCCURAS	UNSUCCESSFUL-RETRY OF ASSISTING SYSTEM. THIS SYSTEM RETRIED SENDCMD-RSCRADDS ONE OR MORE TIMES. THE RETRIES WERE UNSUCCESSFUL. NO SYSTEM HAS ADDED THIS SYSTEM TO THE MAINRING. THIS RETURN-CODE IS GIVEN ONLY IF RSCFLNRC=0.
4	DECIMAL	116	RSCCUSRP	UNSUCCESSFUL-SENDCMD BUT RETRY-POSSIBLE. SENDCMD-RSCRADDS FAILED BECAUSE THE TARGET SYSTEM LEFT THE MAINRING INSTEAD OF ISSUING ADDSYS. ISGBCI DETECTED THE EXISTENCE OF SOME OTHER ACTIVE SYSTEM. THIS RETURN-CODE IS GIVEN ONLY IF RSCFLNRC=1 AND RSCFLTRC=1.
4	DECIMAL	120	RSCCRCOS	RECEIVED COMMAND FROM OTHER SYSTEM. SENDCOMD-RSCRADDS WAS TERMINATED ON THIS SYSTEM BECAUSE THIS SYSTEM RECEIVED A VARY-GRS-RESTART COMMAND FROM SOME OTHER SYSTEM (OR FROM THE SYSTEM WHICH WAS THE TARGET OF SENDCMD-RSCRADDS, ON A DIFFERENT RSL) WHILE THIS SYSTEM WAS WAITING FOR THE TARGET SYSTEM TO PERFORM ADDSYS.

ISGRSC Cross Reference

Name	Hex Offset	Hex Value
RSC	0	
RSCBUFAD	10	
RSCBUFLN	14	
RSCBUFLR	18	
RSCCMDAD	10	
RSCCMDLN	14	
RSCDELID	17	
RSCDFDBH	7	08
RSCEND	20	
RSCFERQM	6	10
RSCFLAG1	6	
RSCFLAG2	7	
RSCFLBRD	6	40
RSCFLCCS	7	80
RSCFLCEQ	6	02
RSCFLCNH	7	40
RSCFLCOM	6	80
RSCFLMRS	6	20
RSCFLNLI	6	08
RSCFLNRC	7	20
RSCFLNSI	6	04
RSCFLSUB	6	01
RSCFLTRC	7	10
RSCFUNCT	4	

Name	Hex Offset	Hex Value
RSCID	0	
RSCPARMS	4	
RSCSCSFN	5	
RSCSYSNM	8	
RSCSYSTK	18	
RSCTBLAD	10	
RSCTMLIM	1C	

ISGYCON Programming Interface information

Programming Interface information

ISGYCON

End of Programming Interface information

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ISGYCON Heading Information

Common Name: Constants for users of GRS services
Macro ID: ISGYCON
DSECT Name: N/A
Owning Component: Global Resource Serialization (SCSDS)
Eye-Catcher ID: None
Storage Attributes: Main Storage: N/A
Size: 0 bytes
Created by: N/A
Pointed to by: N/A
Serialization: None
Function: Provides a list of constants for users of GRS services and exits.

ISGYCON Map

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0		
0	(0)	X'0'	0	ENQ_KTESTRCRESOURCEISAVAILABLE	"0"
0	(0)	X'4'	0	ENQ_KTESTRCRESOURCEISNOTAVAILABLE	"4"
0	(0)	X'8'	0	ENQ_KTESTRCPREVIOUSREQALREADYOWNS	"8"
0	(0)	X'14'	0	ENQ_KTESTRCPREVIOUSREQDOESNOTOWN	"20"
0	(0)	X'20'	0	ENQ_KTESTRCMATCHINGTASKOWNS	"32"

Comment

ENQ RET=USE Return Codes

End of Comment

0	(0)	X'0'	0	ENQ_KUSERCRESOURCEOWNED	"0"
0	(0)	X'4'	0	ENQ_KUSERCRESOURCENOTOWNED	"4"
0	(0)	X'8'	0	ENQ_KUSERCPREVIOUSREQALREADYOWNS	"8"
0	(0)	X'14'	0	ENQ_KUSERCPREVIOUSREQDOESNOTOWN	"20"
0	(0)	X'18'	0	ENQ_KUSERCENVIRONMENTALERROR	"24"

Comment

ENQ RET=CHNG Return Codes

End of Comment

0	(0)	X'0'	0	ENQ_KCHNGRCRESOURCECHANGED	"0"
0	(0)	X'4'	0	ENQ_KCHNGRCRESOURCENOTCHANGED	"4"
0	(0)	X'8'	0	ENQ_KCHNGRCRESOURCENOTREQED	"8"
0	(0)	X'14'	0	ENQ_KCHNGRCRESOURCENOTOWNED	"20"
0	(0)	X'18'	0	ENQ_KCHNGRCENVIRONMENTALERROR	"24"

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
				Comment	
ENQ RET=HAVE ReturnCodes					
				End of Comment	
0	(0)	X'0'	0	ENQ_KHAVERCRESOURCEOWNED	"0"
0	(0)	X'8'	0	ENQ_KHAVERCPREVIOUSREQALREADYOWNS	"8"
0	(0)	X'14'	0	ENQ_KHAVERCPREVIOUSREQDOESNOTOWN	"20"
0	(0)	X'18'	0	ENQ_KHAVERCENVIRONMENTALERROR	"24"
0	(0)	X'20'	0	ENQ_KHAVERCMATCHINGTASKOWNS	"32"
0	(0)	X'28'	0	ENQ_KHAVERCCALLERCANNOTUSE	"40"
0	(0)	X'44'	0	ENQ_KHAVERCMATCHINGTASKVIOLATION	"68"
				Comment	
Reason Codes -- GRS ABEND Reason Codes (Note that the reason codes are of the form "xxxxYYYY" where "xxxx" is used to contain the module id of the failing module. Module ids can be found in ISGFID)					
				End of Comment	
0	(0)	BITSTRING	0	ISGRSNCODEMASK	"X'0000FFFF'" Used to mask off the high half word to remove the module id from the ABEND code
				Comment	
3xx Abend Reason codes					
				End of Comment	
		1		ISGRSNCODEUNAUTHNQDQOFAUTHRESOURCE	"X'00000001'" An unauthorized requester attempted to ENQ or DEQ an authorized resource
		.... ..1.		ISGRSNCODEUNAUTHNQDQOFAUTHRESOURCEBYEXIT	"X'00000002'" An ISGNQXIT installation exit specified an authorized resource name for an unauthorized request
		11		ISGRSNCODEUCBNOTALLOCATED	"X'00000003'" An unauthorized requester attempted to RESERVE a device that is not allocated to the requesting task
		.... .1..		ISGRSNCODEUCBNOTALLOCATEDBYEXIT	"X'00000004'" An ISGNQXIT installation exit specified a UCB for a device that is not allocated to the requesting, unauthorized task
		.... .1.1		ISGRSNCODEUNAUTHMASIDREQ	"X'00000005'" An unauthorized requester attempted a MASID request
		.... .11.		ISGRSNCODEUNAUTHREQWITHTCBORPELSTPMC	"X'00000006'" An unauthorized requester specified TCB or Step Must Complete
		.... .111		ISGRSNCODEUNAUTHGENERICREQUEST	"X'00000007'" An unauthorized (DEQ) requester attempted to issue a generic request
		.... 1...		ISGRSNCODEUNAUTHECBREQUEST	"X'00000008'" An unauthorized (ENQ) requester attempted to issue an ECB request

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
				Comment	
4xx Abend Reason codes					
				End of Comment	
		1		ISGRSNCODEPARMLISTALTEREDWHILEPROCESSING	"X'00000001'" The input parameter list was altered during ENQ/DEQ processing
		.... ..1.		ISGRSNCODERNLNOANDUCBSPECIFIED	"X'00000002'" The RESERVE request specified RNL=NO
		11		ISGRSNCODEINVALIDUCB	"X'00000003'" The storage specified by the input UCB address does not map to a valid UCB
		.... .1..		ISGRSNCODEINVALIDUCBBYEXIT	"X'00000004'" The storage specified by the UCB address specified by an ISGNQXIT exit routine does not map to a valid UCB
		.... .1.1		ISGRSNCODEBADUSERPEL	"X'00000005'" The storage passed to ENQ/DEQ processing could not be accessed in the caller's key
		.... .11.		ISGRSNCODEBADQNAME	"X'00000006'" The storage containing the QNAME could not be accessed in the caller's key
		.... .111		ISGRSNCODEBADRNAME	"X'00000007'" The storage containing the RNAME could not be accessed in the caller's key
		.... 1...		ISGRSNCODEBADUCBPTR	"X'00000008'" The storage containing the pointer to the UCB address could not be accessed in the caller's key
		.... 1..1		ISGRSNCODEBADUCBADDRESS	"X'00000009'" The storage containing the UCB address could not be accessed in the caller's key
		.... 1.1.		ISGRSNCODELOCALRESOURCECOUNTOVERRUN	"X'0000000A'" The local resource count exceeded 'FFFF'x resources
		.... 1.11		ISGRSNCODEGLOBALRESOURCECOUNTOVERRUN	"X'0000000B'" The global resource count exceeded 'FFFF'x resources
		.... 11..		ISGRSNCODEINVALIDFORMATWORD	"X'0000000C'" The format word value was invalid
		.... 11.1		ISGRSNCODEBADTCBSTORAGE	"X'0000000D'" The storage specified by the input TCB is invalid
		.... 111.		ISGRSNCODENOTATCB	"X'0000000E'" The storage specified by the input TCB does not map to a valid TCB
		 1111		ISGRSNCODEMASIDREQSPECIFIEDTCBORPELSTPMC	"X'0000000F'" A MASID request incorrectly specified TCB or PelStpMC
		...1		ISGRSNCODEINVALIDMASIDRNAMELENGTH	"X'00000010'" A MASID request has an rname with a bad length
		...1 ...1		ISGRSNCODEMASIDREQINVALIDRET	"X'00000011'" A MASID request specified invalid RET= value
		...1 ..1.		ISGRSNCODEMASIDREQWITHNOTCB	"X'00000012'" A MASID request has no TCB associated with it
		...1 ..11		ISGRSNCODEMASIDREQSUBTASKOFTARGET	"X'00000013'" Issuing tasks TCB is a subtask of the target TCB, illegal
		...1 .1..		ISGRSNCODEREQSETOBSOLETEFLAG	"X'00000014'" Request tried to set an obsolete bit in the Pel
		...1 .1.1		ISGRSNCODETCBSPECIFIEDANDPELSTPMC	"X'00000015'" Request illegally specified TCB with PelStpMC
		...1 .11.		ISGRSNCODEDEQREQSPECIFIEDPELSAVE	

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					"X'00000016'" Deq request illegally specified PelSave
		...1 .111		ISGRSNCODEINVALIDRETSPECIFIED	
					"X'00000017'" Request specified invalid RET= value
		...1 1...		ISGRSNCODEGENERICREQWITHINVALIDRET	
					"X'00000018'" Generic request specified invalid RET= value
		...1 1..1		ISGRSNCODEENQREQSPECIFIEDGENERIC	
					"X'00000019'" Enq request illegally specified PelGen2
		...1 1.1.		ISGRSNCODEDIRENQNOMATCHINGTCB	
					"X'0000001A'" A directed enq request was issued with no matching TCB in the requestor's address space
		...1 1.11		ISGRSNCODEDIRENQANDUCBSPECIFIED	
					"X'0000001B'" Directed enq request illegally specified UCB
		...1 11..		ISGRSNCODEDIRENQNOECBANDINVALIDRET	
					"X'0000001C'" Directed enq request illegally specified no ECB with an invalid RET= value
		...1 11.1		ISGRSNCODEOECBREQWITHBADRET	
					"X'0000001D'" An ECB request but RET does not specify ECB
		...1 111.		ISGRSNCODEOECBREQWITHSTEPMUSTCOMPLETE	
					"X'0000001E'" An ECB request illegally specified PelStpMC
		...1 1111		ISGRSNCODEBADFORMATWORD	
					"X'0000001F'" The storage containing the format word could not be accessed in the caller's key
		..1.		ISGRSNCODEBADFORMATVALUE	
					"X'00000020'" The storage containing the format value could not be accessed in the caller's key
		..1. ..1.		ISGRSNCODEBADPELPREFIX	
					"X'00000022'" The storage containing the format value could not be accessed in the caller's key

Comment

7xx Abend Reason codes

End of Comment

		....		ISGRSNCODEGENERALFAILURE	
					"X'00000000'" General module failure in ENQ/DEQ processing
		1		ISGRSNCODEIOSVDSTFFAILURE	
					"X'00000001'" Synchronous RESERVE failed during device state transition flushing
		.... ..1.		ISGRSNCODERESERVESTARTFAILURE	
					"X'00000002'" RESERVE start processing failed
		11		ISGRSNCODERESERVEDONEFAILURE	
					"X'00000003'" Synchronous RESERVE done processing failed
		.... .1..		ISGRSNCODECOULDNOTOBTAINHOMESTORAGE	
					"X'00000004'" ENQ/DEQ processing could not obtain storage in the home address space
		.... .1.1		ISGRSNCODECOULDNOTOBTAINCOMMONSTORAGE	
					"X'00000005'" ENQ/DEQ processing could not obtain storage in the common area
		.... .11.		ISGRSNCODECOULDNOTOBTAINPRIMARYALET	
					"X'00000006'" ENQ/DEQ processing could not obtain the ALET of the caller's primary address space
		.... .111		ISGRSNCODECOULDNOTSUSPENDFORRNLCHANGE	
					"X'00000007'" ENQ processing could not obtain a DSQE to suspend a request for a RNL change
		.... 1...		ISGRSNCODECOULDNOTOBTAINGRSALET	
					"X'00000008'" ENQ/DEQ processing could not obtain the ALET of the GRS address space
0	(0)	BITSTRING	0	ISGRSNCODECOULDNOTQUERYLSE	
					"X'00000100'" ENQ/DEQ processing could not query the LSE of an ENQ requestor
0	(0)	BITSTRING	0	ISGRSNCODECOULDNOTUPDATELSE	
					"X'00000200'" ENQ/DEQ processing could not update the LSE of an ENQ requestor

ISGYCON Cross Reference

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		1111 111.		ISGRSNCODEEXITABEND	"X'000000FE'" Abend in dynamic exit
		1111 1111		ISGRSNCODEUCBOVERFLOW	"X'000000FF'" RESERVE processing detected an overflow when updating the RESERVE count

ISGYCON Cross Reference

Name	Hex Offset	Hex Value
ENQ_KCHNGRCENVIRONMENTALERROR	0	18
ENQ_KCHNGRCRESOURCECHANGED	0	0
ENQ_KCHNGRCRESOURCENOTCHANGED	0	4
ENQ_KCHNGRCRESOURCENOTOWNED	0	14
ENQ_KCHNGRCRESOURCENOTREQED	0	8
ENQ_KHAVERCCALLERCANNOTUSE	0	28
ENQ_KHAVERCENVIRONMENTALERROR	0	18
ENQ_KHAVERCMATCHINGTASKOWNS	0	20
ENQ_KHAVERCMATCHINGTASKVIOLATION	0	44
ENQ_KHAVERCPREVIOUSREQALREADYOWNS	0	8
ENQ_KHAVERCPREVIOUSREQDOESNOTOWN	0	14
ENQ_KHAVERCRESOURCEOWNED	0	0
ENQ_KTESTRCMATCHINGTASKOWNS	0	20
ENQ_KTESTRCPREVIOUSREQALREADYOWNS	0	8
ENQ_KTESTRCPREVIOUSREQDOESNOTOWN	0	14
ENQ_KTESTRCRESOURCEISAVAILABLE	0	0
ENQ_KTESTRCRESOURCEISNOTAVAILABLE	0	4
ENQ_KUSERCENVIRONMENTALERROR	0	18
ENQ_KUSERCPREVIOUSREQALREADYOWNS	0	8
ENQ_KUSERCPREVIOUSREQDOESNOTOWN	0	14
ENQ_KUSERCRESOURCENOTOWNED	0	4
ENQ_KUSERCRESOURCEOWNED	0	0
ISGRSNCODEBADFORMATVALUE	0	20
ISGRSNCODEBADFORMATWORD	0	1F
ISGRSNCODEBADPELPREFIX	0	22
ISGRSNCODEBADQNAME	0	6
ISGRSNCODEBADRNAME	0	7
ISGRSNCODEBADTCBSTORAGE	0	D
ISGRSNCODEBADUCBADDRESS	0	9
ISGRSNCODEBADUCBPTR	0	8
ISGRSNCODEBADUSERPEL	0	5
ISGRSNCODECOULDNOTOBTAINCOMMONSTORAGE	0	5
ISGRSNCODECOULDNOTOBTAINGRSALET	0	8
ISGRSNCODECOULDNOTOBTAINHOMESTORAGE	0	4
ISGRSNCODECOULDNOTOBTAINPRIMARYALET	0	6
ISGRSNCODECOULDNOTQUERYLSE	0	100
ISGRSNCODECOULDNOTSUSPENDFORRNLCHANGE	0	7
ISGRSNCODECOULDNOTUPDATELSE	0	200
ISGRSNCODEDEQREQSPECIFIEDPELSAVE	0	16
ISGRSNCODEDIRENQANDUCBSPECIFIED	0	1B
ISGRSNCODEDIRENQNOECBANDINVALIDRET	0	1C
ISGRSNCODEDIRENQNOMATCHINGTCB	0	1A
ISGRSNCODEENQREQSPECIFIEDGENERIC	0	19
ISGRSNCODEEXITABEND	0	FE
ISGRSNCODEGENERALFAILURE	0	0
ISGRSNCODEGENERICREQWITHINVALIDRET	0	18
ISGRSNCODEGLOBALRESOURCECOUNTOVERRUN	0	B
ISGRSNCODEINVALIDFORMATWORD	0	C
ISGRSNCODEINVALIDMASIDRNAMELENGTH	0	10
ISGRSNCODEINVALIDRETSPECIFIED	0	17
ISGRSNCODEINVALIDUCB	0	3
ISGRSNCODEINVALIDUCBBYEXIT	0	4
ISGRSNCODEIOSVDSTFFAILURE	0	1
ISGRSNCODELOCALRESOURCECOUNTOVERRUN	0	A

Name	Hex Offset	Hex Value
ISGRSNCODEMASIDREQINVALIDRET		
	0	11
ISGRSNCODEMASIDREQSPECIFIEDTCBORPELSTPMC		
	0	F
ISGRSNCODEMASIDREQSUBTASKOFTARGET		
	0	13
ISGRSNCODEMASIDREQWITHNOTCB		
	0	12
ISGRSNCODEMASK		
	0	FFFF
ISGRSNCODENOTATCB		
	0	E
ISGRSNCODEOECBREQWITHBADRET		
	0	1D
ISGRSNCODEOECBREQWITHSTEPMUSTCOMPLETE		
	0	1E
ISGRSNCODEPARMLISTALTEREDWHILEPROCESSING		
	0	1
ISGRSNCODEREQSETOBSOLETEFLAG		
	0	14
ISGRSNCODERESERVEDONEFAILURE		
	0	3
ISGRSNCODERESERVESTARTFAILURE		
	0	2
ISGRSNCODERNLNOANDUCBSPECIFIED		
	0	2
ISGRSNCODETCBSPECIFIEDANDPELSTPMC		
	0	15
ISGRSNCODEUCBNOTALLOCATED		
	0	3
ISGRSNCODEUCBNOTALLOCATEDBYEXIT		
	0	4
ISGRSNCODEUCBOVERFLOW		
	0	FF
ISGRSNCODEUNAUTHECBREQUEST		
	0	8
ISGRSNCODEUNAUTHGENERICREQUEST		
	0	7
ISGRSNCODEUNAUTHMASIDREQ		
	0	5
ISGRSNCODEUNAUTHNQDQOFAUTHRESOURCE		
	0	1
ISGRSNCODEUNAUTHNQDQOFAUTHRESOURCEBYEXIT		
	0	2
ISGRSNCODEUNAUTHREQWITHTCBORPELSTPMC		
	0	6

ISGYDSPX Programming Interface information

Programming Interface information

ISGYDSPX

End of Programming Interface information

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ISGYDSPX Heading Information

Common Name: Display GRS Resource Exit Parameter List
Macro ID: ISGYDSPX
DSECT Name: DSPX
Owning Component: Global Resource Serialization (SCSDS)
Eye-Catcher ID: DSPX
Offset: 0
Length: 4
Storage Attributes: Subpool: 229 in the address space where ISGCDSP runs
Key: 0
Residency: Above 16M line
Size: DSPX -- X'0070' bytes
Created by: ISGCDSP
Pointed to by: R1 points to the DSPX on entry to the exit routine
Serialization: N/A
Function: The DSPX parameter list describes a resource which is going to be reported in a DISPLAY GRS command. An exit routine can add information regarding the meaning of the resource.
When setting Dspx_ResourceInformation, the exit routine should identify the application/subsystem providing the information by setting the Dspx_ResourceIdentifier value.

ISGYDSPX 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	DSPX	
0	(0)	CHARACTER	4	DSPX_ID	Eyecatcher
4	(4)	SIGNED	1	DSPX_VERSION	Dspx version
5	(5)	CHARACTER	2		Reserved
7	(7)	BITSTRING	1	DSPX_RFLGS (0)	Resource description flags
		1...		DSPX_SYS	"X'80'" SCOPE=SYSTEM
		.1..		DSPX_SYSS	"X'40'" SCOPE=SYSTEMS
8	(8)	CHARACTER	8	DSPX_QNAME	Resource QName
16	(10)	SIGNED	2	DSPX_RNAMEL	RName length
18	(12)	CHARACTER	2		Reserved
20	(14)	ADDRESS	4	DSPX_RNAME@	Pointer to RName
24	(18)	CHARACTER	16	DSPX_RESOURCEIDENTIFIER	
					Identification of application/subsystem setting the resource information
40	(28)	CHARACTER	70	DSPX_RESOURCEINFORMATION	
					Additional information to describe resource
110	(6E)	CHARACTER	2		Reserved
112	(70)	CHARACTER	1	DSPX_END (0)	

Comment

DSPX Constants

End of Comment

112	(70)	X'E2D7E7'	0	DSPX_KID	"C'DSPX'" Used to identify control block
112	(70)	X'1'	0	DSPX_KVERSION#1	
					"1" Version constant - HBB7705

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
112	(70)	X'1'	0	DSPX_KCURRENTVERSION	"1" Current version
112	(70)	X'170'	0	DSPX_KLENGTH	"368" Maximum of length Dspx parameter list
112	(70)	X'70'	0	DSPX_LEN	"*-DSPX"

ISGYDSPX Cross Reference

Name	Hex Offset	Hex Value
DSPX	0	
DSPX_END	70	
DSPX_ID	0	
DSPX_KCURRENTVERSION		
	70	1
DSPX_KID	70	E2D7E7
DSPX_KLENGTH	70	170
DSPX_KVERSION#1		
	70	1
DSPX_LEN	70	70
DSPX_QNAME	8	
DSPX_RESOURCEIDENTIFIER		
	18	
DSPX_RESOURCEINFORMATION		
	28	
DSPX_RFLGS	7	
DSPX_RNAME@	14	
DSPX_RNAMEL	10	
DSPX_SYS	7	80
DSPX_SYSS	7	40
DSPX_VERSION	4	

ISGYNQBP Programming Interface information

Programming Interface information

ISGYNQBP

End of Programming Interface information

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ISGYNQBP Heading Information

Common Name: Batch ENQ Exit Parameter List
Macro ID: ISGYNQBP
DSECT Name: NQBP
Owning Component: Global Resource Serialization (SCSDS)
Eye-Catcher ID: NQBP
Offset: 0
Length: 4
Storage Attributes: Subpool: 229
Key: 0
Residency: Above the 16M line
Size: LENGTH(NQBP)
NQBP -- X'0060' bytes
NQBPRSC_ENTRY -- X'0030' bytes
Created by: ISGGRX
Pointed to by: R1 points to the NQBP on entry to the exit routine
Serialization: N/A
Function: The Batched ENQ/DEQ Parameter list is passed to an installation provided exit (installed at the ISGNQXITBATCH exit point) the ability to interrogate the enirety of an ENQ, RESERVE or DEQ request. This exit is called after each of the individual resources have been passed to the ISGNQXIT exit point and processed through the RNLs.
The request data presented in this exit are read only. Changes t an ENQ/DEQ/RESERVE request can only be made through the ISGNQXIT exit point.
For all ENQ requests that specify a RET value or an ECB value the ISGNQXITBATCH exit routines can set their own non-zero return code, overriding ENQ/RESERVE functionality. To set a return code, the exit routine sets:
Nqbp_RF1_SetRscRequest in the NQBP
NqbpRsc_RF1_SetReturnCode in the appropriate NqbpRsc entry
NqbpRsc_CP_ReturnCode to a non-zero value
ENQ/RESERVE return codes are documented in the MVS: Authorized Assembler Reference books.
For all requests the ISGNQXITBATCH exit routine can set a one-byt ABEND code and half-word reason code for the request. The one byte ABEND code is used to generate the ABEND code. For example, if the exit routine sets the ABEND code to 5 for an ENQ request, a '538'x ABEND will be generated by ENQ processing.
To set an ABEND code, the exit routine sets:
Nqbp_RF1_SetABEND in the NQBP
Nqbp_CP_ABENDCode to a non-zero value
Nqbp_CP_ABENDReason to a non-zero value (optional)
ENQ/DEQ/RESERVE ABEND codes are documented in the MVS: System Codes book.

ISGYNQBP Map

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

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NQBP	
0	(0)	CHARACTER	4	NQBP_ID	Eyecatcher
4	(4)	SIGNED	1	NQBP_VERSION	Version
5	(5)	CHARACTER	3		Reserved
8	(8)	ADDRESS	4	NQBP_WORKAREA@	Pointer to a 4K work area, usable by exit routines
12	(C)	CHARACTER	56	NQBP_REQUESTDATA (0)	ENQ/DEQ request state information, these values cannot be changed
12	(C)	CHARACTER	16	NQBP_RD_REQUESTTOKEN	Unique token for this request, all exits driven for this request can be identified by this token
28	(1C)	ADDRESS	4	NQBP_RD_ASCB@	Pointer to requester's ASCB
32	(20)	ADDRESS	4	NQBP_RD_TCB@	Pointer to requester's TCB or directed TCB if TCB= was specified
36	(24)	SIGNED	2	NQBP_RD_MASID	Request MASID value
38	(26)	CHARACTER	2		Reserved
40	(28)	ADDRESS	4	NQBP_RD_MTCB	Request MTCB value
44	(2C)	CHARACTER	8	NQBP_RD_JOBNAME	Requester's Jobname
52	(34)	CHARACTER	8	NQBP_RD_SYSNAME	Requester's Sysname
60	(3C)	ADDRESS	4	NQBP_RD_NSI@ (0)	Requester's next sequential instruction address, when ENQ/DEQ ends, this is address of the next instruction in the calling program that will be executed
		1...		NQBP_RD_AMODE31	"X'80'" When set, ENQ caller is AMODE 31
64	(40)	ADDRESS	4	NQBP_RD_ECB@	Pointer to original request ECB (set when ECB= specified on the request)
68	(44)	CHARACTER	4	NQBP_STATEFLAGS (0)	ENQ/DEQ request state flags, these values cannot be changed
68	(44)	BITSTRING	1	NQBP_STATEFLAGS1 (0)	First byte of state flags
		1...		NQBP_SF1_ENQ	"X'80'" When 1, request is ENQ/RESERVE, when 0, request is DEQ
		.1..		NQBP_SF1_AUTHORIZED	"X'40'" Caller is authorized
		..1.		NQBP_SF1_MATCHTASK	"X'20'" When 1, request specified MASID/MTCB
		...1		NQBP_SF1_SMCORRMC	"X'10'"
		...1		NQBP_SF1_STEPMUSTCOMPLETE	"X'10'" When 1, ENQ request specified SMC=YES
		...1		NQBP_SF1_RESETMUSTCOMPLETE	"X'10'" When 1, DEQ request specified RMC=YES
		.... 1...		NQBP_SF1_LINKAGE	"X'08'" When 1, request is PC entered when 0, request is SVC entered
69	(45)	CHARACTER	3		Reserved
72	(48)	CHARACTER	4	NQBP_REQUESTFLAGS (0)	Request flags
72	(48)	BITSTRING	1	NQBP_REQUESTFLAGS1 (0)	First byte of state flags
		1...		NQBP_RF1_SETRSCREQUEST	"X'80'" When 1, indicates that a request was made in one or more NqbpRsc entries
		.1..		NQBP_RF1_SETABEND	

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					"X'40'" When 1, indicates that an ABEND is requested from mainline processing
73	(49)	CHARACTER	3		Reserved
76	(4C)	SIGNED	4	NQBP_#RESOURCES	Number of resources in the request
80	(50)	ADDRESS	4	NQBP_FIRSTNQBPRSC@	Pointer to first NqbpRsc entry
84	(54)	CHARACTER	4	NQBP_CURRENTPARAMETERS (0)	Parameters as changed by exit routines
84	(54)	SIGNED	1	NQBP_CP_ABENDCODE	First digit of of the ABEND code (eg. x30 for DEQ and x38 for ENQ)
85	(55)	CHARACTER	1		Reserved
86	(56)	SIGNED	2	NQBP_CP_ABENDREASON	ABEND Reason Code
88	(58)	CHARACTER	8		Reserved
96	(60)	CHARACTER	1	NQBP_END (0)	
96	(60)	X'60'	0	NQBP_LEN	"*-NQBP"

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NQBPRSC_ENTRY	
0	(0)	ADDRESS	4	NQBPRSC_NEXTNQBPRSC@	Pointer to next NqbpRsc entry
4	(4)	CHARACTER	8	NQBPRSC_TOKEN	For control program use only - defines which entry in the request corresponds to this NqbpRsc_Entry
12	(C)	CHARACTER	8	NQBPRSC_QNAME	Request QName
20	(14)	ADDRESS	4	NQBPRSC_RNAME@	Pointer to NQBP RNAME
24	(18)	SIGNED	1	NQBPRSC_SCOPE	Request scope, see Nqbp_kScope values
25	(19)	SIGNED	1	NQBPRSC_RET (0)	Request RET value, see Nqbp_kRET values
		.... .1..		NQBPRSC_RET1	"X'04'" Maps to PELRET1
		.... ..1.		NQBPRSC_RET2	"X'02'" Maps to PELRET2
		1		NQBPRSC_RET3	"X'01'" Maps to PELRET3
26	(1A)	SIGNED	1	NQBPRSC_RNAMELEN	Length of the RName
27	(1B)	SIGNED	1	NQBPRSC_ORIGINALSCOPE	scope before RNL processing, see Nqbp_kScope
28	(1C)	CHARACTER	4	NQBPRSC_STATEFLAGS (0)	Resource state flags
28	(1C)	BITSTRING	1	NQBPRSC_STATEFLAGS1 (0)	First byte of resource state flags
		1...		NQBPRSC_SF1_SHARE	"X'80'" For ENQ/RESERVE requests, when 1 request is for shared access, when 0, request is for exclusive access
		.1..		NQBPRSC_SF1_RNLEQNO	"X'40'" RNL=NO was specified on the request
29	(1D)	BITSTRING	1	NQBPRSC_STATEFLAGS2 (0)	Second byte of resource flags
		1...		NQBPRSC_SF2_INCLUDED	"X'80'" Resource promoted to SYSTEMS scope
		.1..		NQBPRSC_SF2_CONVERTED	"X'40'" Resource converted from RESERVE to SYSTEMS ENQ
		..1.		NQBPRSC_SF2_EXCLUDED	

Offsets Dec	Hex	Type/Value	Len	Name (Dim)	Description
					"X'20'" Resource demoted to SYSTEM scope
		...1		NQBPRSC_SF2_GLOBAL	
					"X'10'" Resource is global
30	(1E)	CHARACTER	2		
32	(20)	ADDRESS	4	NQBPRSC_UCB@	Request UCB address
36	(24)	CHARACTER	4	NQBPRSC_REQUESTFLAGS (0)	
36	(24)	BITSTRING	1	NQBPRSC_REQUESTFLAGS1 (0)	

Comment

For conditional (RET=CHNG, RET=USE) or test (RET=TEST) requests exit routines can override ENQ/DEQ functionality and substitute a return code (other than zero) to be returned to the caller. If the return code is set, ENQ/DEQ processing will NOT occur for the resource. This override is ignored for all other types of requests.

End of Comment

		1...		NQBPRSC_RF1_SETRETURNCODE	
					"X'80'" When 1, request that the return code be set for this conditional/test request

Comment

For a RESERVE request, exit routines can specify that the RESERVE be converted to an ENQ.

End of Comment

		.1..		NQBPRSC_RF1_CONVERTRESERVE	
					"X'40'" When 1, request that this RESERVE be converted to an ENQ
37	(25)	CHARACTER	3		Reserved
40	(28)	CHARACTER	4	NQBPRSC_CURRENTPARAMETERS (0)	
					Parameters as changed by exit routines
40	(28)	SIGNED	1	NQBPRSC_CP_RETURNCODE	
					Current value of return code to be passed to the requester
41	(29)	CHARACTER	3		Reserved
44	(2C)	CHARACTER	4		Reserved
48	(30)	CHARACTER	1	NQBPRSC_END (0)	

Comment

NQBP Constants

End of Comment

48	(30)	X'D8C2D7'	0	NQBP_KID	"C'NQBP'" Used to identify control block
48	(30)	X'1'	0	NQBP_KVERSION#1	
					"1" Version constant - HBB7705
48	(30)	X'1'	0	NQBP_KCURRENTVERSION	
					"1" Current version
48	(30)	X'1'	0	NQBP_KBATCHEXIT	
					"1" Parameter list is being passed to the batch exit
48	(30)	X'2'	0	NQBP_KQUEUEDEXIT	
					"2" Parameter list is being passed to the queued exit
48	(30)	X'0'	0	NQBP_KSCOPESTEP	
					"0" Scope=Step
48	(30)	X'1'	0	NQBP_KSCOPESYSTEM	
					"1" Scope=System
48	(30)	X'2'	0	NQBP_KSCOPESYSTEMS	
					"2" Scope=Systems

ISGYNQBP Cross Reference

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
48	(30)	X'0'	0	NQBP_KRETNONE	"0" Ret=None
48	(30)	X'1'	0	NQBP_KRETHAVE	"1" Ret=Have
48	(30)	X'2'	0	NQBP_KRETCHNG	"2" Ret=Chng
48	(30)	X'3'	0	NQBP_KRETUSE	"3" Ret=Use
48	(30)	X'7'	0	NQBP_KRETTEST	"7" Ret=Test
48	(30)	X'60'	0	NQBP_KLENGTH	"96" Maximum length of Nqbp
48	(30)	X'30'	0	NQBPRSC_ENTRY_LEN	"*-NQBPRSC_ENTRY"

ISGYNQBP Cross Reference

Name	Hex Offset	Hex Value
NQBP	0	
NQBP_#RESOURCES	4C	
NQBP_CP_ABENDCODE	54	
NQBP_CP_ABENDREASON	56	
NQBP_CURRENTPARAMETERS	54	
NQBP_END	60	
NQBP_FIRSTNQBPRSC@	50	
NQBP_ID	0	
NQBP_KBATCHEXIT	30	1
NQBP_KCURRENTVERSION	30	1
NQBP_KID	30	D8C2D7
NQBP_KLENGTH	30	60
NQBP_KQUEUEDEXIT	30	2
NQBP_KRETCHNG	30	2
NQBP_KRETHAVE	30	1
NQBP_KRETNONE	30	0
NQBP_KRETTEST	30	7
NQBP_KRETUSE	30	3
NQBP_KSCOPESTEP	30	0
NQBP_KSCOPESYSTEM	30	1
NQBP_KSCOPESYSTEMS	30	2
NQBP_KVERSION#1	30	1
NQBP_LEN	60	60
NQBP_RD_AMODE31	3C	80
NQBP_RD_ASCB@	1C	
NQBP_RD_ECB@	40	
NQBP_RD_JOBNAME	2C	
NQBP_RD_MASID	24	
NQBP_RD_MTCB	28	
NQBP_RD_NSI@	3C	
NQBP_RD_REQUESTTOKEN	C	
NQBP_RD_SYSNAME	34	
NQBP_RD_TCB@	20	
NQBP_REQUESTDATA	C	
NQBP_REQUESTFLAGS	48	
NQBP_REQUESTFLAGS1	48	
NQBP_RF1_SETABEND	48	40
NQBP_RF1_SETRSCREQUEST	48	80
NQBP_SF1_AUTHORIZED	44	40
NQBP_SF1_ENQ	44	80
NQBP_SF1_LINKAGE	44	8
NQBP_SF1_MATCHTASK	44	20
NQBP_SF1_RESETMUSTCOMPLETE	44	10
NQBP_SF1_SMCORRMC	44	10
NQBP_SF1_STEPMUSTCOMPLETE	44	10
NQBP_STATEFLAGS	44	
NQBP_STATEFLAGS1	44	
NQBP_VERSION	4	
NQBP_WORKAREA@	8	
NQBPRSC_CP_RETURNCODE	28	
NQBPRSC_CURRENTPARAMETERS	28	
NQBPRSC_END	30	
NQBPRSC_ENTRY	0	
NQBPRSC_ENTRY_LEN	30	30

Name	Hex Offset	Hex Value
NQBPRSC_NEXTNQBPRSC@		
	0	
NQBPRSC_ORIGINALSCOPE		
	1B	
NQBPRSC_QNAME		
	C	
NQBPRSC_REQUESTFLAGS		
	24	
NQBPRSC_REQUESTFLAGS1		
	24	
NQBPRSC_RET	19	
NQBPRSC_RET1	19	4
NQBPRSC_RET2	19	2
NQBPRSC_RET3	19	1
NQBPRSC_RF1_CONVERTRESERVE		
	24	40
NQBPRSC_RF1_SETRETURNCODE		
	24	80
NQBPRSC_RNAME@		
	14	
NQBPRSC_RNAMELEN		
	1A	
NQBPRSC_SCOPE		
	18	
NQBPRSC_SF1_RNLEQNO		
	1C	40
NQBPRSC_SF1_SHARE		
	1C	80
NQBPRSC_SF2_CONVERTED		
	1D	40
NQBPRSC_SF2_EXCLUDED		
	1D	20
NQBPRSC_SF2_GLOBAL		
	1D	10
NQBPRSC_SF2_INCLUDED		
	1D	80
NQBPRSC_STATEFLAGS		
	1C	
NQBPRSC_STATEFLAGS1		
	1C	
NQBPRSC_STATEFLAGS2		
	1D	
NQBPRSC_TOKEN		
	4	
NQBPRSC_UCB@	20	

ISGYNQQP Programming Interface information

Programming Interface information

ISGYNQQP

End of Programming Interface information

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ISGYNQQP Heading Information

Common Name: Queued ENQ/DEQ Exit Parameter List
Macro ID: ISGYNQQP
DSECT Name: NQQP
Owning Component: Global Resource Serialization (SCSDS)
Eye-Catcher ID: NQQP
Offset: 0
Length: 4
Storage Attributes: Subpool: 229
Key: 0
Residency: Above the 16M line
Size: LENGTH(NQQP)
NQQP -- X'0060' bytes
NQQPRSC_ENTRY -- X'0030' bytes
Created by: ISGGRX
Pointed to by: R1 points to the NQQP on entry to the exit routine
Serialization: N/A
Function: The Queued ENQ/DEQ parameter list is passed to an installation provided exit (installed at the ISGNQXITQUEUED1 exit point) to indicate that all of the elements of an ENQ request have been queued (completed local processing and/or queued to the global processor). This exit is called just prior to waiting (for unconditional requests that have not been promoted) or returning to the ENQ requester.
The request data presented in this exit are read only.

ISGYNQQP 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	NQQP	
0	(0)	CHARACTER	4	NQQP_ID	Eyecatcher
4	(4)	SIGNED	1	NQQP_VERSION	Version
5	(5)	CHARACTER	3		Reserved
8	(8)	ADDRESS	4	NQQP_WORKAREA@	Pointer to a 4K work area, usable by exit routines
12	(C)	CHARACTER	56	NQQP_REQUESTDATA (0)	ENQ/DEQ request state information, these values cannot be changed
12	(C)	CHARACTER	16	NQQP_RD_REQUESTTOKEN	Unique token for this request, all exits driven for this request can be identified by this token
28	(1C)	ADDRESS	4	NQQP_RD_ASCB@	Pointer to requester's ASCB
32	(20)	ADDRESS	4	NQQP_RD_TCB@	Pointer to requester's TCB or directed TCB if TCB= was specified
36	(24)	SIGNED	2	NQQP_RD_MASID	Request MASID value
38	(26)	CHARACTER	2		Reserved
40	(28)	ADDRESS	4	NQQP_RD_MTCB	Request MTCB value
44	(2C)	CHARACTER	8	NQQP_RD_JOBNAME	

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					Requester's Jobname
52	(34)	CHARACTER	8	NQQP_RD_SYSNAME	
					Requester's Sysname
60	(3C)	ADDRESS	4	NQQP_RD_NSI@ (0)	Requester's next sequential instruction address, when ENQ/DEQ ends, this is address of the next instruction in the calling program that will be executed
		1...		NQQP_RD_AMODE31	
					"X'80'" When set, ENQ caller is AMODE 31
64	(40)	ADDRESS	4	NQQP_RD_ECB@	Pointer to original request ECB (set when ECB= specified on the request)
68	(44)	CHARACTER	4	NQQP_STATEFLAGS (0)	
					ENQ/DEQ request state flags, these values cannot be changed
68	(44)	BITSTRING	1	NQQP_STATEFLAGS1 (0)	
					First byte of state flags
		1...		NQQP_SF1_ENQ	"X'80'" When 1, request is ENQ/RESERVE, when 0, request is DEQ
		.1..		NQQP_SF1_AUTHORIZED	
					"X'40'" Caller is authorized
		..1.		NQQP_SF1_MATCHTASK	
					"X'20'" When 1, request specified MASID/MTCB
		...1		NQQP_SF1_SMCORRMC	
					"X'10'"
		...1		NQQP_SF1_STEPMUSTCOMPLETE	
					"X'10'" When 1, ENQ request specified SMC=YES
		...1		NQQP_SF1_RESETMUSTCOMPLETE	
					"X'10'" When 1, DEQ request specified RMC=YES
		.... 1...		NQQP_SF1_LINKAGE	
					"X'08'" When 1, request is PC entered, when 0, request is SVC entered
		.... .1..		NQQP_SF1_REDRIVEFORRNLCHANGE	
					"X'04'" When 1, this request is being redriven because a dynamic RNL change has occurred. Note that none of the Rsc entries associated with this Nqqp will contain valid return code information as none of the resource requests were queued. If a batch exit exists when the request is redriven, it will get control with a new request token and each of the Rsc entries will reflect the resource scope using the new RNLs.
69	(45)	CHARACTER	3		Reserved
72	(48)	CHARACTER	4		Reserved
76	(4C)	SIGNED	4	NQQP_#RESOURCES	
					Number of resources in the request
80	(50)	ADDRESS	4	NQQP_FIRSTNQQPRSC@	
					Pointer to first NqqpRsc entry
84	(54)	CHARACTER	4	NQQP_ABENDINFORMATION (0)	
					ABEND state of request ********** ********** **** Nqqp_ABENDCode is set to zero if the request is not ABENDing ********** **********
84	(54)	SIGNED	2	NQQP_ABENDCD (0)	Abend code
84	(54)	SIGNED	1	NQQP_ABENDCODE	
					First digit of of the ABEND code (eg. x30 for DEQ and x38 for ENQ)
85	(55)	SIGNED	1	NQQP_ABENDCODELO	
					Second digit of the ABEND code
86	(56)	SIGNED	2	NQQP_ABENDREASON	
					ABEND Reason Code
88	(58)	CHARACTER	8		Reserved
96	(60)	CHARACTER	1	NQQP_END (0)	
96	(60)	X'60'	0	NQQP_LEN	"*-NQQP"

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	NQQPRSC_ENTRY	
0	(0)	ADDRESS	4	NQQPRSC_NEXTNQQPRSC@	Pointer to next NqqpRsc entry
4	(4)	CHARACTER	8	NQQPRSC_TOKEN	For control program use only - defines which entry in the request corresponds to this NqqpRsc_Entry
12	(C)	CHARACTER	8	NQQPRSC_QNAME	Request QName
20	(14)	ADDRESS	4	NQQPRSC_RNAME@	Pointer to Nqqp RNAME
24	(18)	SIGNED	1	NQQPRSC_SCOPE	Request scope, see Nqqp_kScope values
25	(19)	SIGNED	1	NQQPRSC_RET (0)	Request RET value, see Nqqp_kRET values
		.... .1..		NQQPRSC_RET1	"X'04'" Maps to PELRET1
		.... ..1.		NQQPRSC_RET2	"X'02'" Maps to PELRET2
		1		NQQPRSC_RET3	"X'01'" Maps to PELRET3
26	(1A)	SIGNED	1	NQQPRSC_RNAMELEN	Length of the RName
27	(1B)	SIGNED	1	NQQPRSC_ORIGINALSCOPE	scope before RNL processing, see Nqqp_kScope
28	(1C)	CHARACTER	4	NQQPRSC_STATEFLAGS (0)	Resource state flags
28	(1C)	BITSTRING	1	NQQPRSC_STATEFLAGS1 (0)	First byte of resource state flags
		1...		NQQPRSC_SF1_SHARE	"X'80'" For ENQ/RESERVE requests, when 1 request is for shared access, when 0, request is for exclusive access
		.1..		NQQPRSC_SF1_RNLEQNO	"X'40'" RNL=NO was specified on the request
29	(1D)	BITSTRING	1	NQQPRSC_STATEFLAGS2 (0)	Second byte of resource flags
		1...		NQQPRSC_SF2_INCLUDED	"X'80'" Resource promoted to SYSTEMS scope
		.1..		NQQPRSC_SF2_CONVERTED	"X'40'" Resource converted from RESERVE to SYSTEMS ENQ
		..1.		NQQPRSC_SF2_EXCLUDED	"X'20'" Resource demoted to SYSTEM scope
		...1		NQQPRSC_SF2_GLOBAL	"X'10'" Resource is global
30	(1E)	CHARACTER	2		
32	(20)	ADDRESS	4	NQQPRSC_UCB@	Request UCB address
36	(24)	CHARACTER	4		Reserved
40	(28)	SIGNED	1	NQQPRSC_RETURNCODE	Return code to the requester, if applicable
41	(29)	CHARACTER	3		Reserved
44	(2C)	CHARACTER	4		Reserved
48	(30)	CHARACTER	1	NQQPRSC_END (0)	

Comment

Nqqp Constants

End of Comment

48	(30)	X'D8D8D7'	0	NQQP_KID	"C'NQQP'" Used to identify control block
48	(30)	X'1'	0	NQQP_KVERSION#1	"1" Version constant - HBB7705
48	(30)	X'1'	0	NQQP_KCURRENTVERSION	"1" Current version
48	(30)	X'0'	0	NQQP_KSCOPESTEP	

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					"0" Scope=Step
48	(30)	X'1'	0	NQQP_KSCOPESYSTEM	
					"1" Scope=System
48	(30)	X'2'	0	NQQP_KSCOPESYSTEMS	
					"2" Scope=Systems
48	(30)	X'0'	0	NQQP_KRETNONE	
					"0" Ret=None
48	(30)	X'1'	0	NQQP_KRETHAVE	
					"1" Ret=Have
48	(30)	X'2'	0	NQQP_KRETCHNG	
					"2" Ret=Chng
48	(30)	X'3'	0	NQQP_KRETUSE	"3" Ret=Use
48	(30)	X'7'	0	NQQP_KRETTEST	
					"7" Ret=Test
48	(30)	X'1'	0	NQQP_KRCGLOBAL	
					"1" Return code value when a request is global and not yet been determined
48	(30)	X'60'	0	NQQP_KLENGTH	"96" Maximum length of Nqqp
48	(30)	X'30'	0	NQQPRSC_ENTRY_LEN	
					"*-NQQPRSC_ENTRY"

ISGYNQQP Cross Reference

Name	Hex Offset	Hex Value
NQQP	0	
NQQP_#RESOURCES		
	4C	
NQQP_ABENDCD	54	
NQQP_ABENDCODE		
	54	
NQQP_ABENDCODELO		
	55	
NQQP_ABENDINFORMATION		
	54	
NQQP_ABENDREASON		
	56	
NQQP_END	60	
NQQP_FIRSTNQQPRSC@		
	50	
NQQP_ID	0	
NQQP_KCURRENTVERSION		
	30	1
NQQP_KID	30	D8D8D7
NQQP_KLENGTH	30	60
NQQP_KRCGLOBAL		
	30	1
NQQP_KRETCHNG		
	30	2
NQQP_KRETHAVE		
	30	1
NQQP_KRETNONE		
	30	0
NQQP_KRETTEST		
	30	7
NQQP_KRETUSE	30	3
NQQP_KSCOPESTEP		
	30	0
NQQP_KSCOPESYSTEM		
	30	1
NQQP_KSCOPESYSTEMS		
	30	2
NQQP_KVERSION#1		
	30	1

Name	Hex Offset	Hex Value
NQQP_LEN	60	60
NQQP_RD_AMODE31		
	3C	80
NQQP_RD_ASCB@		
	1C	
NQQP_RD_ECB@	40	
NQQP_RD_JOBNAME		
	2C	
NQQP_RD_MASID		
	24	
NQQP_RD_MTCB	28	
NQQP_RD_NSI@	3C	
NQQP_RD_REQUESTTOKEN		
	C	
NQQP_RD_SYSNAME		
	34	
NQQP_RD_TCB@	20	
NQQP_REQUESTDATA		
	C	
NQQP_SF1_AUTHORIZED		
	44	40
NQQP_SF1_ENQ	44	80
NQQP_SF1_LINKAGE		
	44	8
NQQP_SF1_MATCHTASK		
	44	20
NQQP_SF1_REDRIVEFORRNLCHANGE		
	44	4
NQQP_SF1_RESETMUSTCOMPLETE		
	44	10
NQQP_SF1_SMCORRMC		
	44	10
NQQP_SF1_STEPMUSTCOMPLETE		
	44	10
NQQP_STATEFLAGS		
	44	
NQQP_STATEFLAGS1		
	44	
NQQP_VERSION	4	

ISGYNQQP Cross Reference

Name	Hex Offset	Hex Value
NQQP_WORKAREA@	8	
NQQPRSC_END	30	
NQQPRSC_ENTRY	0	
NQQPRSC_ENTRY_LEN	30	30
NQQPRSC_NEXTNQQPRSC@	0	
NQQPRSC_ORIGINALSCOPE	1B	
NQQPRSC_QNAME	C	
NQQPRSC_RET	19	
NQQPRSC_RETURNCODE	28	
NQQPRSC_RET1	19	4
NQQPRSC_RET2	19	2
NQQPRSC_RET3	19	1
NQQPRSC_RNAME@	14	
NQQPRSC_RNAMELEN	1A	
NQQPRSC_SCOPE	18	
NQQPRSC_SF1_RNLEQNO	1C	40
NQQPRSC_SF1_SHARE	1C	80
NQQPRSC_SF2_CONVERTED	1D	40
NQQPRSC_SF2_EXCLUDED	1D	20
NQQPRSC_SF2_GLOBAL	1D	10
NQQPRSC_SF2_INCLUDED	1D	80
NQQPRSC_STATEFLAGS	1C	
NQQPRSC_STATEFLAGS1	1C	
NQQPRSC_STATEFLAGS2	1D	
NQQPRSC_TOKEN	4	
NQQPRSC_UCB@	20	

ISGYNQXP Programming Interface information

Programming Interface information

ISGYNQXP

End of Programming Interface information

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ISGYNQXP Heading Information

Common Name: ENQ Exit Parameter List
Macro ID: ISGYNQXP
DSECT Name: NQXP
Owning Component: Global Resource Serialization (SCSDS)
Eye-Catcher ID: NQXP
Offset: 0
Length: 4
Storage Attributes: Subpool: 229
Key: 0
Residency: Above the 16M line
Size: LENGTH(NQXP)
NQXP -- X'0088' bytes
Created by: ISGGRX
Pointed to by: R1 points to the NQXP on entry to the exit routine
Serialization: N/A
Function: The ENQ Exit Parameter List provides an installation provided exit (installed at the ISGNQXIT exit point) the ability to modify attributes of an ENQ, RESERVE or DEQ request.
The exit routine may change any of the following values in the NQXP. Appropriate changes will be made to the request.

```
Value                          Flag
------------------------------ --------------------
Nqxp_CP_QName                  Nqxp_RF1_ChangeQName
Nqxp_CP_RName, Nqxp_CP_RNameLen Nqxp_RF1_ChangeRName (1
Nqxp_CP_Scope                  Nqxp_RF1_ChangeScope
Nqxp_CP_UCB@                   Nqxp_RF1_ChangeUCB
(to bypass RNL processing)     Nqxp_RF1_BypassRNLs
```

(1) When changing the RName, do not alter the virtual storage address value contained in Nqxp_CP_RName Instead, alter the RName at the virtual storage area designated by Nqxp_CP_RName@ virtual storage address value. The routine calling the exit provide enough storage to save a 255 byte RName at that address.
The Nqxp_RequestToken is used to correlate the differen exits called by ENQ/DEQ processing. Each request is assigned a unique 8 byte token that will be propagated to each exit point called for the ENQ/DEQ request.
Nqxp_WorkArea@ points to a 4K work area that can be use as working storage by exit routines. However, this are CANNOT be used to pass information between exit routine or other ENQ/DEQ exit points.

ISGYNQXP Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	NQXP	
0	(0)	CHARACTER	4	NQXP_ID	Eyecatcher
4	(4)	SIGNED	1	NQXP_VERSION	Version

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
5	(5)	CHARACTER	3		Reserved
8	(8)	CHARACTER	40	NQXP_REQUESTDATA	ENQ/DEQ request state information, these values cannot be changed
8	(8)	ADDRESS	4	NQXP_RD_ASCB@	Pointer to requester's ASCB
12	(C)	ADDRESS	4	NQXP_RD_TCB@	Pointer to requester's TCB or directed TCB if TCB= was specified
16	(10)	CHARACTER	6	NQXP_RD_VOLSER	VOLSER of requested UCB, see Nqxp_OP_Ucb
22	(16)	SIGNED	2	NQXP_RD_MASID	Request MASID value
24	(18)	ADDRESS	4	NQXP_RD_MTCB	Request MTCB value
28	(1C)	SIGNED	1	NQXP_RD_RET	Request RET value, see Nqxp_kRET values
		.... .1..		NQXP_RD_RET1	"X'04'" Maps to PELRET1
		.... ..1.		NQXP_RD_RET2	"X'02'" Maps to PELRET2
		1		NQXP_RD_RET3	"X'01'" Maps to PELRET3
29	(1D)	CHARACTER	3		Reserved
32	(20)	CHARACTER	8	NQXP_RD_JOBNAME	Requester's Jobname
40	(28)	CHARACTER	8	NQXP_RD_SYSNAME	Requester's Sysname
48	(30)	CHARACTER	8	NQXP_STATEFLAGS	ENQ/DEQ request state flags, these values cannot be changed
48	(30)	BITSTRING	1	NQXP_STATEFLAGS1	First byte of state flags
		1...		NQXP_SF1_ENQ	"X'80'" When 1, request is ENQ/RESERVE, when 0, request is DEQ
		.1..		NQXP_SF1_RNLEQNO	"X'40'" RNL=NO was specified on the request: a change to the scope by the exit will not be honored
		..1.		NQXP_SF1_AUTHORIZED	"X'20'" Caller is authorized
		...1		NQXP_SF1_SHARE	"X'10'" For ENQ/RESERVE requests, when 1 request is for shared access, when 0, request is for exclusive access
		.... 1...		NQXP_SF1_MATCHTASK	"X'08'" When 1, request specified MASID/MTCB
		.... .1..		NQXP_SF1_STEPMUSTCOMPLETE	"X'04'" When 1, ENQ request specified SMC=YES
		.... .1..		NQXP_SF1_RESETMUSTCOMPLETE	"X'04'" When 1, DEQ request specified RMC=YES
		.... ..1.		NQXP_SF1_LINKAGE	"X'02'" When 1, request is PC entered, when 0, request is SVC entered
49	(31)	CHARACTER	7		Reserved
56	(38)	CHARACTER	20	NQXP_ORIGINALPARAMETERS	Original parameters specified on the request
56	(38)	CHARACTER	8	NQXP_OP_QNAME	Original request QNAME
64	(40)	ADDRESS	4	NQXP_OP_RNAME@	Pointer to original request RNAME
68	(44)	SIGNED	1	NQXP_OP_RNAMELEN	Length of original request RNAME
69	(45)	SIGNED	1	NQXP_OP_SCOPE	Original request scope, see Nqxp_kScope values
70	(46)	CHARACTER	2		Reserved
72	(48)	ADDRESS	4	NQXP_OP_UCB@	Pointer to original request UCB (set for RESERVE or DEQ with UCB requests)
76	(4C)	CHARACTER	4	NQXP_REQUESTFLAGS	Request flags
76	(4C)	BITSTRING	1	NQXP_REQUESTFLAGS1	First byte of request flags
		1...		NQXP_RF1_BYPASSRNLS	

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					"X'80'" When 1, request that RNL processing is to be bypassed
		.1..		NQXP_RF1_CHANGEQNAME	
					"X'40'" When 1, request that the QNAME be changed
		..1.		NQXP_RF1_CHANGERNAME	
					"X'20'" When 1, request that the RNAME be changed
		...1		NQXP_RF1_CHANGESCOPE	
					"X'10'" When 1, request that the Scope be changed
		.... 1...		NQXP_RF1_CHANGEUCB@	
					"X'08'" When 1, request that the UCB address be changed
77	(4D)	CHARACTER	3		Reserved
80	(50)	CHARACTER	4		Reserved
84	(54)	CHARACTER	20	NQXP_CURRENTPARAMETERS	
					Parameters as changed by the exit routines
84	(54)	CHARACTER	8	NQXP_CP_QNAME	
					Current request QNAME
92	(5C)	ADDRESS	4	NQXP_CP_RNAME@	
					Pointer to current request RNAME
96	(60)	SIGNED	1	NQXP_CP_RNAMELEN	
					Length of current request RNAME
97	(61)	SIGNED	1	NQXP_CP_SCOPE	
					Current request scope, see Nqxp_kScope values
98	(62)	CHARACTER	2		Reserved
100	(64)	ADDRESS	4	NQXP_CP_UCB@	Current request UCB address
104	(68)	CHARACTER	8	NQXP_REQUESTDATA2	
					More request data
104	(68)	ADDRESS	4	NQXP_RD_NSI@	Requester's next sequential instruction address, when ENQ/DEQ ends, this is address of the next instruction in the calling program that will be executed
		1...		NQXP_RD_AMODE31	
					"X'80'" When set, ENQ caller is AMODE 31
108	(6C)	CHARACTER	4		Reserved
112	(70)	ADDRESS	4	NQXP_WORKAREA@	
					Pointer to a 4K work area, usable by exit routines
116	(74)	CHARACTER	16	NQXP_REQUESTTOKEN	
					Unique token for this request, all exits driven for this request can be identified by this token
132	(84)	CHARACTER	4		Reserved
136	(88)	CHARACTER	1	NQXP_END (0)	End of NQXP

Comment

NQXP Constants

End of Comment

136	(88)	X'D8E7D7'	0	NQXP_KID	"C'NQXP'" Used to identify control block
136	(88)	X'1'	0	NQXP_KVERSION#1	
					"1" Version constant - HBB7705
136	(88)	X'1'	0	NQXP_KCURRENTVERSION	
					"1" Current version
136	(88)	X'1'	0	NQXP_KSCOPESYSTEM	
					"1" Scope=System
136	(88)	X'2'	0	NQXP_KSCOPESYSTEMS	
					"2" Scope=Systems
136	(88)	X'0'	0	NQXP_KRETNONE	
					"0" Ret=None
136	(88)	X'1'	0	NQXP_KRETHAVE	
					"1" Ret=Have
136	(88)	X'2'	0	NQXP_KRETCHNG	
					"2" Ret=Chng
136	(88)	X'3'	0	NQXP_KRETUSE	"3" Ret=Use
136	(88)	X'7'	0	NQXP_KRETTEST	
					"7" Ret=Test
136	(88)	X'100'	0	NQXP_KRNAMELEN	
					"256" Maximum RName length

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
136	(88)	X'288'	0	NQXP_KLENGTH	"648" Maximum length Nqxp, parameter list and 2 RNames
136	(88)	X'88'	0	NQXP_LEN	"*-NQXP"

ISGYNQXP Cross Reference

Name	Hex Offset	Hex Value
NQXP	0	
NQXP_CP_QNAME	54	
NQXP_CP_RNAME@	5C	
NQXP_CP_RNAMELEN	60	
NQXP_CP_SCOPE	61	
NQXP_CP_UCB@	64	
NQXP_CURRENTPARAMETERS	54	
NQXP_END	88	
NQXP_ID	0	
NQXP_KCURRENTVERSION	88	1
NQXP_KID	88	D8E7D7
NQXP_KLENGTH	88	288
NQXP_KRETCHNG	88	2
NQXP_KRETHAVE	88	1
NQXP_KRETNONE	88	0
NQXP_KRETTEST	88	7
NQXP_KRETUSE	88	3
NQXP_KRNAMELEN	88	100
NQXP_KSCOPESYSTEM	88	1
NQXP_KSCOPESYSTEMS	88	2
NQXP_KVERSION#1	88	1
NQXP_LEN	88	88
NQXP_OP_QNAME	38	
NQXP_OP_RNAME@	40	
NQXP_OP_RNAMELEN	44	
NQXP_OP_SCOPE	45	
NQXP_OP_UCB@	48	
NQXP_ORIGINALPARAMETERS	38	
NQXP_RD_AMODE31	68	80
NQXP_RD_ASCB@	8	
NQXP_RD_JOBNAME	20	
NQXP_RD_MASID	16	
NQXP_RD_MTCB	18	
NQXP_RD_NSI@	68	
NQXP_RD_RET	1C	
NQXP_RD_RET1	1C	4
NQXP_RD_RET2	1C	2
NQXP_RD_RET3	1C	1
NQXP_RD_SYSNAME	28	
NQXP_RD_TCB@	C	
NQXP_RD_VOLSER	10	
NQXP_REQUESTDATA	8	
NQXP_REQUESTDATA2	68	
NQXP_REQUESTFLAGS	4C	
NQXP_REQUESTFLAGS1	4C	
NQXP_REQUESTTOKEN	74	
NQXP_RF1_BYPASSRNLS	4C	80
NQXP_RF1_CHANGEQNAME	4C	40
NQXP_RF1_CHANGERNAME	4C	20
NQXP_RF1_CHANGESCOPE	4C	10
NQXP_RF1_CHANGEUCB@	4C	8
NQXP_SF1_AUTHORIZED	30	20
NQXP_SF1_ENQ	30	80
NQXP_SF1_LINKAGE	30	2
NQXP_SF1_MATCHTASK	30	8
NQXP_SF1_RESETMUSTCOMPLETE	30	4
NQXP_SF1_RNLEQNO	30	40
NQXP_SF1_SHARE	30	10
NQXP_SF1_STEPMUSTCOMPLETE	30	4
NQXP_STATEFLAGS	30	
NQXP_STATEFLAGS1	30	
NQXP_VERSION	4	
NQXP_WORKAREA@	70	

ISGYQCBP Programming Interface information

Programming Interface information

ISGYQCBP

End of Programming Interface information

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ISGYQCBP Heading Information

Common Name: QCB Destroy Exit Parameter List
Macro ID: ISGYQCBP
DSECT Name: QCBP
Owning Component: Global Resource Serialization (SCSDS)
Eye-Catcher ID: QCBP
Offset: 0
Length: 4
Storage Attributes: Subpool: 127 in the GRS private area
Key: 0
Residency: Above 16M line
Size: QCBP -- X'0030' bytes
Created by: ISGGRX
Pointed to by: R1 points to the QCBP on entry to the exit routine
Serialization: N/A
Function: The QCBP parameter list describes a resource for which the last requester on this system has been DEQueued. The exit is only called for SCOPE=SYSTEM(S) resources that are not global.

ISGYQCBP Map

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

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	QCBP	
0	(0)	CHARACTER	40	QCBP_BASIC (0)	QCBP Basic Section
0	(0)	CHARACTER	4	QCBP_ID	Eyecatcher
4	(4)	SIGNED	1	QCBP_VERSION	QCBP version
5	(5)	CHARACTER	3		Reserved
8	(8)	ADDRESS	4	QCBP_RNAME@	Pointer to RName
12	(C)	CHARACTER	14		Reserved
26	(1A)	BITSTRING	1	QCBP_RFLGS (0)	Resource description flags
		1...		QCBP_SYS	"X'80'" SCOPE=SYSTEM
		.1..		QCBP_SYSS	"X'40'" SCOPE=SYSTEMS
27	(1B)	CHARACTER	1		Reserved
28	(1C)	SIGNED	2	QCBP_RNAML	RName length
30	(1E)	CHARACTER	2		Reserved
32	(20)	CHARACTER	8	QCBP_QNAME	Resource QName
40	(28)	ADDRESS	4	QCBP_WORKAREA@	Pointer to a 4K work area, usable by exit routines
44	(2C)	CHARACTER	4		Reserved
48	(30)	CHARACTER	1	QCBP_END (0)	

Comment

NQBP Constants

End of Comment

48	(30)	X'C3C2D7'	0	QCBP_KID	"C'QCBP'" Used to identify control block
48	(30)	X'1'	0	QCBP_KVERSION#1	"1" Version constant - HBB7705
48	(30)	X'1'	0	QCBP_KCURRENTVERSION	"1" Current version
48	(30)	X'E0'	0	QCBP_KRFLGSMASK	"224" Mask to remove extraneous data from QCBRFLGS

Offsets					
Dec	Hex	Type/Value	Len	Name (Dim)	Description
48	(30)	X'130'	0	QCBP_KLENGTH	"304" Maximum of length Qcbp parameter list
48	(30)	X'30'	0	QCBP_LEN	"*-QCBP"

ISGYQCBP Cross Reference

Name	Hex Offset	Hex Value
QCBP	0	
QCBP_BASIC	0	
QCBP_END	30	
QCBP_ID	0	
QCBP_KCURRENTVERSION		
	30	1
QCBP_KID	30	C3C2D7
QCBP_KLENGTH	30	130
QCBP_KRFLGSMASK		
	30	E0
QCBP_KVERSION#1		
	30	1
QCBP_LEN	30	30
QCBP_QNAME	20	
QCBP_RFLGS	1A	
QCBP_RNAME@	8	
QCBP_RNAML	1C	
QCBP_SYS	1A	80
QCBP_SYSS	1A	40
QCBP_VERSION	4	
QCBP_WORKAREA@		
	28	

ISGYREPL Programming Interface information

Programming Interface information

ISGYREPL

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ISGYREPL Heading Information

Common Name: RNL Exit Parameter List
Macro ID: ISGYREPL
DSECT Name: REPL
Owning Component: Global Resource Serialization (SCSDS)
Eye-Catcher ID: REPL
Offset: 0
Length: 4
Storage Attributes: Subpool: 229
Key: 0
Residency: Above the 16M line
Size: LENGTH(REPL)
REPL -- X'0048' bytes
Created by: ISGGRX
Pointed to by: R1 points to the REPL on entry to the exit routine
Serialization: N/A
Function: The RNL Exit Parameter List provides an installation provided exit (installed at the ISGGNQXT exit point) the ability to modify attributes of an ENQ, RESERVE or DEQ request.
The exit routine may change any of the following values in the REPL. Appropriate changes will be made to the request.

Value	Flag
Repl_QName	Repl_RF1_ChangeQName
Repl_RName, Repl_RnameLen	Repl_RF1_ChangeRName (1)
Repl_Scope	Repl_RF1_ChangeScope
Repl_Ucb@	Repl_RF1_ChangeUCB@
(to bypass RNL processing)	Repl_RF1_BypassRNLs

(1) When changing the RName, do not alter Repl_RName alter the storage specified by the address. The routine calling the exit provides enough storage to save a 255 byte RName at that address.

ISGYREPL Map

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	REPL	
0	(0)	CHARACTER	4	REPL_ID	Eyecatcher
4	(4)	CHARACTER	8	REPL_QNAME	Request QNAME
12	(C)	ADDRESS	4	REPL_RNAME@	Pointer to request RNAME
16	(10)	SIGNED	1	REPL_RNAMELEN	Length of request RNAME
17	(11)	SIGNED	1	REPL_SCOPE	Request scope, see Repl_kScope values
18	(12)	CHARACTER	2		Reserved
20	(14)	ADDRESS	4	REPL_UCB@	Pointer to UCB (set for RESERVE or DEQ with UCB requests)
24	(18)	CHARACTER	6	REPL_VOLSER	VOLSER of RESERVE UCB
30	(1E)	CHARACTER	2		Reserved
32	(20)	ADDRESS	4	REPL_ASCB@	Pointer to requester's ASCB
36	(24)	ADDRESS	4	REPL_TCB@	Pointer to requester's TCB or directed TCB if TCB= was specified
40	(28)	CHARACTER	8	REPL_JOBNAME	Requester's Jobname
48	(30)	CHARACTER	8	REPL_SYSNAME	Requester's Sysname

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
56	(38)	CHARACTER	4	REPL_STATEFLAGS (0)	State flags
56	(38)	BITSTRING	1	REPL_STATEFLAGS1 (0)	First byte of state flags
		1...		REPL_SF1_ENQ	"X'80'" When 1, request is ENQ/RESERVE, when 0, request is DEQ
		.1..		REPL_SF1_RNLEQNO	"X'40'" RNL=NO was specified on the request: a change to the scope by the exit will not be honored
		..1.		REPL_SF1_AUTHORIZED	"X'20'" Caller is authorized
		...1		REPL_SF1_RETEQTEST	"X'10'" Request is RET=TEST (for ENQ requests)
		.... 1...		REPL_SF1_SHARE	"X'08'" For ENQ/RESERVE requests, when 1 request is for shared access, when 0, request is for exclusive access
57	(39)	CHARACTER	3		Reserved
60	(3C)	CHARACTER	4	REPL_REQUESTFLAGS (0)	Request flags
60	(3C)	BITSTRING	1	REPL_FLAGS1 (0)	First byte of state flags
		1...		REPL_RF1_BYPASSRNLS	"X'80'" When 1, request that RNL processing is to be bypassed
		.1..		REPL_RF1_CHANGEQNAME	"X'40'" When 1, request that the QNAME be changed
		..1.		REPL_RF1_CHANGERNAME	"X'20'" When 1, request that the RNAME be changed
		...1		REPL_RF1_CHANGESCOPE	"X'10'" When 1, request that the Scope be changed
		.... 1...		REPL_RF1_CHANGEUCB@	"X'08'" When 1, request that the UCB address be changed
61	(3D)	CHARACTER	3		Reserved
64	(40)	CHARACTER	8		Reserved
72	(48)	CHARACTER	1	REPL_END (0)	End of REPL

Comment

REPL Constants

End of Comment

72	(48)	X'C5D7D3'	0	REPL_KID	"C'REPL'" Used to identify control block
72	(48)	X'1'	0	REPL_KSCOPESYSTEM	"1" Scope=System
72	(48)	X'2'	0	REPL_KSCOPESYSTEMS	"2" Scope=Systems
72	(48)	X'48'	0	REPL_LEN	"*-REPL"

ISGYREPL Cross Reference

Name	Hex Offset	Hex Value
REPL	0	
REPL_ASCB@	20	
REPL_END	48	
REPL_FLAGS1	3C	
REPL_ID	0	
REPL_JOBNAME	28	
REPL_KID	48	C5D7D3
REPL_KSCOPESYSTEM	48	1
REPL_KSCOPESYSTEMS	48	2
REPL_LEN	48	48
REPL_QNAME	4	
REPL_REQUESTFLAGS	3C	
REPL_RF1_BYPASSRNLS	3C	80
REPL_RF1_CHANGEQNAME	3C	40
REPL_RF1_CHANGERNAME	3C	20
REPL_RF1_CHANGESCOPE	3C	10
REPL_RF1_CHANGEUCB@	3C	8
REPL_RNAME@	C	
REPL_RNAMELEN	10	
REPL_SCOPE	11	
REPL_SF1_AUTHORIZED	38	20
REPL_SF1_ENQ	38	80
REPL_SF1_RETEQTEST	38	10
REPL_SF1_RNLEQNO	38	40
REPL_SF1_SHARE	38	8
REPL_STATEFLAGS	38	
REPL_STATEFLAGS1	38	
REPL_SYSNAME	30	
REPL_TCB@	24	
REPL_UCB@	14	
REPL_VOLSER	18	

ITK Programming Interface information

Programming Interface information

ITK

End of Programming Interface information

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ITK Heading Information

Common Name: TABLE OF CONVERTER/INTERPRETER KEYS
Macro ID: IEFVKEYS
DSECT Name: None
Owning Component: MVS Converter (SC1B9)
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 provides constants for the key values found in the Converter Interpreter (C/I) Text string.

ITK Map

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0		
		....		ETEND	"X'00'" * NONE DICTIONARY END 19874

Comment

```
EQU X'01' DD RESERVED 19874
EQU X'02' DD RESERVED 19874
EQU X'03' DD RESERVED 19874
EQU X'04' DD RESERVED 19874
EQU X'05' DD RESERVED 19874
EQU X'06' DD RESERVED 19874
EQU X'07' DD RESERVED 19874
EQU X'08' DD RESERVED 19874
EQU X'09' DD RESERVED 19874
EQU X'0A' DD RESERVED 19874
EQU X'0B' DD RESERVED 19874
EQU X'0C' DD RESERVED 19874
EQU X'0D' DD RESERVED 19874
EQU X'0E' DD RESERVED 19874
EQU X'0F' DD RESERVED 19874
EQU X'10' DD RESERVED 19874
EQU X'11' DD RESERVED 19874
EQU X'12' DD RESERVED 19874
EQU X'13' DD RESERVED 19874
EQU X'14' DD RESERVED 19874
```

End of Comment

	...1 .1.1	EXPDTK	"X'15'" * DD EXPDT= MAJOR KEYWORD INTERNAL KEY - USED IN CONVERTER ONLY
	...1 .11.	RETPDK	"X'16'" * DD RETPD= MAJOR KEYWORD INTERNAL KEY - USED IN CONVERTER ONLY
	...1 .111	JDTOVRDK	"X'17'" * DD OVERRIDE FORM OF SJF KEYWORD
	...1 1...	SPLATK	"X'18'" * DD * - INTERNAL KEY NOT USED IN INTERNAL TEXT
	...1 1..1	DATAK	"X'19'" * DD DATA - INTERNAL KEY NOT USED IN INTERNAL TEXT
	...1 1.1.	JDTKWDK	"X'1A'" * DD JDT-DEFINED KEYWORD
	...1 1.11	PROTECTK	"X'1B'" * DD PROTECT=
	...1 11..	SUBSYSK	"X'1C'" * DD SUBSYS=

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		...1 11.1		CHARSK	"X'1D'" * DD CHARS=
		...1 111.		MODIFYK	"X'1E'" * DD MODIFY=
		...1 1111		FLASHK	"X'1F'" * DD FLASH=
		..1.		BURSTK	"X'20'" * DD BURST=
		..1. ...1		DSIDK	"X'21'" * DD DSID=
		..1. ..1.		MSVGPK	"X'22'" * DD MSVGP=
		..1. ..11		HOLDK	"X'23'" * DD HOLD= Y02668
		..1. .1..		SYSINCTK	"X'24'" * DD INTERNAL KEY- NUMBER SYSIN RECORDS SPOOLED BY JES Y02668
		..1. .1.1		DESTK	"X'25'" * DD DEST= Y02668
		..1. .11.		FRIDMK	"X'26'" * DD FRID= Y02670
		..1. .111		FREEK	"X'27'" * DD FREE= Y02670
		..1. 1...		AMPK	"X'28'" * DD AMP= Y01113
		..1. 1..1		FUNCMK	"X'29'" * DD FUNC= 21088
		..1. 1.1.		DIAGNSK	"X'2A'" * DD DIAGNS= I21042
		..1. 1.11		DLMK	"X'2B'" * DD DLM= 21009
		..1. 11..		FCBK	"X'2C'" * DD FCB= 20202
		..1. 11.1		TERMK	"X'2D'" * DD TERM= 20002
		..1. 111.		THRESHMK	"X'2E'" * DD THRESH= 20001
		..1. 1111		RESERVMK	"X'2F'" * DD RESERVE= 20002
		..11		PCIMK	"X'30'" * DD PCI= 20002
		..11 ...1		BUFMAXMK	"X'31'" * DD BUFMAX= 20002
		..11 ..1.		BUFOUTMK	"X'32'" * DD BUFOUT= 20002
		..11 ..11		BUFINMK	"X'33'" * DD BUFIN= 20002
		..11 .1..		BUFSIZMK	"X'34'" * DD BUFSIZE= 20002
		..11 .1.1		DYNAK	"X'35'" * DD DYNAM 20002
		..11 .11.		QNAMEK	"X'36'" * DD QNAME= 20002
		..11 .111		BUFOFFMK	"X'37'" * DD BUFOFF 19200
		..11 1...		OUTLIMK	"X'38'" * DD OUTLIM 19028
		..11 1..1		IPLTXIDK	"X'39'" * DD IPLTXID= Y01948
		..11 1.1.		COPIESK	"X'3A'" * DD COPIES= Y02668
		..11 1.11		GDSORGMK	"X'3B'" * DD GDSORG= 19874
		..11 11..		GNCPMK	"X'3C'" * DD GNCP= 19874
		..11 11.1		UCSK	"X'3D'" * DD UCS= 19874
		..11 111.		DUMMK	"X'3E'" * DD DUMMY 19874
		..11 1111		CHKPTK	"X'3F'" * DD CHKPT=
		.1..		DCBK	"X'40'" * DD DCB= 19874
		.1.. ...1		UNITK	"X'41'" * DD UNIT= 19874
		.1.. ..1.		LABELK	"X'42'" * DD LABEL= 19874
		.1.. ..11		VOLUMEK	"X'43'" * DD VOLUME= 19874
		.1.. .1..		AFFK	"X'44'" * DD AFF= 19874
		.1.. .1.1		SEPK	"X'45'" * DD SEP= 19874
		.1.. .11.		DISPK	"X'46'" * DD DISP= 19874
		.1.. .111		SPACEK	"X'47'" * DD SPACE= 19874
		.1.. 1...		SPLITK	"X'48'" * DD SPLIT= 19874
		.1.. 1..1		DDNAMEK	"X'49'" * DD DDNAME= 19874
		.1.. 1.1.		DSNAMEK	"X'4A'" * DD DSNAME= 19874
		.1.. 1.11		SYSOUTK	"X'4B'" * DD SYSOUT= 19874
		.1.. 11..		SUBALLOK	"X'4C'" * DD SUBALLOC= 19874
		.1.. 11.1		AFFMK	"X'4D'" * DD AFF= MINOR 19874
		.1.. 111.		SEPMK	"X'4E'" * DD SEP= MINOR 19874
		.1.. 1111		SERMK	"X'4F'" * DD SER= 19874
		.1.1		REFMK	"X'50'" * DD REF= 19874
		.1.1 ...1		EXPDTMK	"X'51'" * DD EXPDT= MINOR KEYWORD 19874
		.1.1 ..1.		RETPDMK	"X'52'" * DD RETPD= MINOR KEYWORD 19874
		.1.1 ..11		BFALNMK	"X'53'" * DD BFALN= 19874
		.1.1 .1..		BFTEKMK	"X'54'" * DD BFTEK= 19874
		.1.1 .1.1		BLKSIZMK	"X'55'" * DD BLKSIZE= 19874
		.1.1 .11.		BUFLMK	"X'56'" * DD BUFL= 19874
		.1.1 .111		BUFNOMK	"X'57'" * DD BUFNO= 19874
		.1.1 1...		BUFRQMK	"X'58'" * DD BUFRQ= 19874
		.1.1 1..1		CODEMK	"X'59'" * DD CODE= 19874
		.1.1 1.1.		CPRIMK	"X'5A'" * DD CPRI= 19874
		.1.1 1.11		CYLOFLMK	"X'5B'" * DD CYLOFL= 19874

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		.1.1 11..		HIARCHMK	"X'5C'" * DD HIARCHY= 19874
		.1.1 11.1		DENMK	"X'5D'" * DD DEN= 19874
		.1.1 111.		DSORGMK	"X'5E'" * DD DSORG= 19874
		.1.1 1111		EROPTMK	"X'5F'" * DD EROPT= 19874
		.11.		INTVLMK	"X'60'" * DD INTVL= 19874
		.11. ...1		KEYLENMK	"X'61'" * DD KEYLEN= 19874
		.11. ..1.		LIMCTMK	"X'62'" * DD LIMCT= 19874
		.11. ..11		LRECLMK	"X'63'" * DD LRECL= 19874
		.11. .1..		MODEMK	"X'64'" * DD MODE = 19874
		.11. .1.1		NCPMK	"X'65'" * DD NCP= 19874
		.11. .11.		NTMMK	"X'66'" * DD NTM= 19874
		.11. .111		OPTCDMK	"X'67'" * DD OPTCD= 19874
		.11. 1...		PRTSPMK	"X'68'" * DD PRTSP= 19874
		.11. 1..1		RECFMMK	"X'69'" * DD RECFM= 19874
		.11. 1.1.		RKPMK	"X'6A'" * DD RKP= 19874
		.11. 1.11		SOWAMK	"X'6B'" * DD SOWA= 19874
		.11. 11..		STACKMK	"X'6C'" * DD STACK= 19874
		.11. 11.1		TRTCHMK	"X'6D'" * DD TRTCH= 19874
		.11. 111.		DDK	"X'6E'" * DD DD 19874

Comment

```
EQU X'6F' EXEC RESERVED 19874
EQU X'70' EXEC RESERVED 19874
EQU X'71' EXEC RESERVED 19874
EQU X'72' EXEC RESERVED 19874
EQU X'73' EXEC RESERVED 19874
EQU X'74' EXEC RESERVED 19874
EQU X'75' EXEC RESERVED 19874
EQU X'76' EXEC RESERVED 19874
```

End of Comment

		.111 .111		MEMLPEK	"X'77'" * EXEC MEMLIMIT.
		.111 1...		MEMLEEK	"X'78'" * EXEC MEMLIMIT=
		.111 1..1		CONDDEK	"X'79'" * EXEC COND= IN CI TEXT OBTAINED FROM COND. OVERRIDE
		.111 1.1.		PRSTEPK	"X'7A'" * EXEC NAME ON EXEC STATEMENT THAT INVOKES A PROCEDURE
		.111 1.11		DYNMPEK	"X'7B'" * EXEC DYNAMNBR. Y02670
		.111 11..		DYNMEEK	"X'7C'" * EXEC DYNAMNBR= Y02670
		.111 11.1		PRFMPEK	"X'7D'" * EXEC PERFORM. Y02655
		.111 111.		PRFMEEK	"X'7E'" * EXEC PERFORM= Y02655
		.111 1111		ADRSPPEK	"X'7F'" * EXEC ADDRSPC. Y01029
		1...		ADRSPEEK	"X'80'" * EXEC ADDRSPC= Y01029
		1... ...1		SDPPEK	"X'81'" * EXEC DPRTY. 19874
		1... ..1.		SDPEEK	"X'82'" * EXEC DPRTY= 19874

Comment

```
EQU X'83' EXEC RESERVED Y02668
```

End of Comment

		1... .1..		RDEEK	"X'84'" * EXEC RD= 19874
		1... .1.1		RDPEK	"X'85'" * EXEC RD. 19874
		1... .11.		ROLLPEK	"X'86'" * EXE ROLL. 19874
		1... .111		ROLLEEK	"X'87'" * EXE ROLL= 19874
		1... 1...		REGINPEK	"X'88'" * EXEC REGION. 19874
		1... 1..1		REGINEEK	"X'89'" * EXEC REGION= 19874
		1... 1.1.		PGMEK	"X'8A'" * EXEC PGM= 19874
		1... 1.11		PROCEK	"X'8B'" * EXEC PROC= 19874
		1... 11..		ACCTPEK	"X'8C'" * EXEC ACCT. 19874
		1... 11.1		CONDPEK	"X'8D'" * EXEC COND. 19874
		1... 111.		PARMPEK	"X'8E'" * EXEC PARM. 19874
		1... 1111		TIMEPEK	"X'8F'" * EXEC TIME. 19874

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
		1..1		ACCTEEK	"X'90'" * EXEC ACCT= 19874
		1..1 ...1		CONDEEK	"X'91'" * EXEC COND= 19874
		1..1 ..1.		PARMEEK	"X'92'" * EXEC PARM= 19874
		1..1 ..11		TIMEEEK	"X'93'" * EXEC TIME= 19874
		1..1 .1..		EXECK	"X'94'" * EXEC EXEC 19874

Comment

```
EQU X'95' JOB RESERVED 19874
EQU X'96' JOB RESERVED 19874
EQU X'97' JOB RESERVED 19874
EQU X'98' JOB RESERVED 19874
EQU X'99' JOB RESERVED 19874
EQU X'9A' JOB RESERVED 19874
EQU X'9B' JOB RESERVED 19874
EQU X'9C' JOB RESERVED 19874
EQU X'9D' JOB RESERVED 19874
EQU X'9E' JOB RESERVED 19874
EQU X'9F' JOB RESERVED 19874
EQU X'A0' JOB RESERVED 19874
```

End of Comment

		1.1. ...1		MEMLIMJK	"X'A1'" * JOB MEMLIMIT=
		1.1. ..1.		JCLVERNK	"X'A2'" * JOB JCL VERSION NUMBER
		1.1. ..11		GROUPK	"X'A3'" * JOB GROUP=
		1.1. .1..		PASWORDK	"X'A4'" * JOB PASSWORD=
		1.1. .1.1		USERK	"X'A5'" * JOB USER=
		1.1. .11.		PRFMJK	"X'A6'" * JOB PERFORM= Y02655
		1.1. .111		ADRSPJK	"X'A7'" * JOB ADDRSPC= Y01029
		1.1. 1...		NOTIFYJK	"X'A8'" * JOB NOTIFY= 20001
		1.1. 1..1		TIMEJK	"X'A9'" * JOB TIME= 19874
		1.1. 1.1.		RESTARJK	"X'AA'" * JOB RESTART= 19874
		1.1. 1.11		RDJK	"X'AB'" * JOB RD= 19874
		1.1. 11..		ROLLJK	"X'AC'" * JOB ROLL= 19874
		1.1. 11.1		CLASSJK	"X'AD'" * JOB CLASS= 19874
		1.1. 111.		REGINJK	"X'AE'" * JOB REGION= 19874
		1.1. 1111		CONDJK	"X'AF'" * JOB COND= 19874
		1.11		PRTYJK	"X'B0'" * JOB PRTY= 19874
		1.11 ...1		TYPRUNJK	"X'B1'" * JOB TYPRUN= 19874
		1.11 ..1.		MSGCLAJK	"X'B2'" * JOB MSGCLASS= 19874
		1.11 ..11		MSGLEVJK	"X'B3'" * JOB MSGLEVEL= 19874
		1.11 .1..		JOBK	"X'B4'" * JOB JOB 19874

Comment

```
EQU X'B5' RESERVED RESERVED 19874
EQU X'B6' RESERVED RESERVED 19874
EQU X'B7' RESERVED RESERVED 19874
EQU X'B8' RESERVED RESERVED 19874
EQU X'B9' RESERVED RESERVED 19874
EQU X'BA' RESERVED RESERVED 19874
EQU X'BB' RESERVED RESERVED 19874
EQU X'BC' RESERVED RESERVED 19874
EQU X'BD' RESERVED RESERVED 19874
```

End of Comment

		1.11 111.		JDTVERBK	"X'BE'" * JDVB JDT-DEFINED VERB
		1.11 1111		IFVERBK	"X'BF'" * IF IF VERB
		11..		ELSVERBK	"X'C0'" * ELSE ELSE VERB
		11.. ...1		EIFVERBK	"X'C1'" * ENDIF ENDIF VERB

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
				Comment	
		EQU X'C2' RESERVED	RESERVED	19874	
		EQU X'C3' RESERVED	RESERVED	19874	
		EQU X'C4' RESERVED	RESERVED	19874	
		EQU X'C5' RESERVED	RESERVED	19874	
		EQU X'C6' RESERVED	RESERVED	19874	
		EQU X'C7' RESERVED	RESERVED	19874	
		EQU X'C8' RESERVED	RESERVED	19874	
		EQU X'C9' RESERVED	RESERVED	19874	
		EQU X'CA' RESERVED	RESERVED	19874	
		EQU X'CB' RESERVED	RESERVED	19874	
		EQU X'CC' RESERVED	RESERVED	19874	
		EQU X'CD' RESERVED	RESERVED	19874	
		EQU X'CE' RESERVED	RESERVED	19874	
		EQU X'CF' RESERVED	RESERVED	19874	
		EQU X'D0' RESERVED	RESERVED	19874	
		EQU X'D1' RESERVED	RESERVED	19874	
		EQU X'D2' RESERVED	RESERVED	19874	
		EQU X'D3' RESERVED	RESERVED	19874	
		EQU X'D4' RESERVED	RESERVED	19874	
		EQU X'D5' RESERVED	RESERVED	19874	
		EQU X'D6' RESERVED	RESERVED	19874	
		EQU X'D7' RESERVED	RESERVED	19874	
		EQU X'D8' RESERVED	RESERVED	19874	
		EQU X'D9' RESERVED	RESERVED	19874	
		EQU X'DA' RESERVED	RESERVED	19874	
		EQU X'DB' RESERVED	RESERVED	19874	
		EQU X'DC' RESERVED	RESERVED	19874	
		EQU X'DD' RESERVED	RESERVED	19874	
		EQU X'DE' RESERVED	RESERVED	19874	
		EQU X'DF' RESERVED	RESERVED	19874	
		EQU X'E0' RESERVED	RESERVED	19874	
		EQU X'E1' RESERVED	RESERVED	19874	
		EQU X'E2' RESERVED	RESERVED	19874	
		EQU X'E3' RESERVED	RESERVED	19874	
		EQU X'E4' RESERVED	RESERVED	19874	
		EQU X'E5' RESERVED	RESERVED	19874	
		EQU X'E6' RESERVED	RESERVED	19874	
		EQU X'E7' RESERVED	RESERVED	19874	
		EQU X'E8' RESERVED	RESERVED	19874	
		EQU X'E9' RESERVED	RESERVED	19874	
		EQU X'EA' RESERVED	RESERVED	19874	
		EQU X'EB' RESERVED	RESERVED	19874	
		EQU X'EC' RESERVED	RESERVED	19874	
		EQU X'ED' RESERVED	RESERVED	19874	
		EQU X'EE' RESERVED	RESERVED	19874	
		EQU X'EF' RESERVED	RESERVED FOR MULTI-BYTE KEY	19874	
				End of Comment	
	1111			INTKEY1	"X'F0'" * INTERNAL KEY 19874
	1111 ...1			INTKEY2	"X'F1'" * INTERNAL KEY 19874
	1111 ..1.			INTKEY3	"X'F2'" * INTERNAL KEY 19874
	1111 ..11			INTKEY4	"X'F3'" * INTERNAL KEY 19874
	1111 .1..			INTKEY5	"X'F4'" * INTERNAL KEY 19874
	1111 .1.1			INTKEY6	"X'F5'" * INTERNAL KEY RESERVED 19874
	1111 .11.			INTKEY7	"X'F6'" * INTERNAL KEY RESERVED 19874
	1111 .111			INTKEY8	"X'F7'" * INTERNAL KEY RESERVED 19874
	1111 1...			INTKEY9	"X'F8'" * INTERNAL KEY RESERVED 19874
	1111 1..1			INTKEYA	"X'F9'" * INTERNAL KEY RESERVED 19874
	1111 1.1.			INTKEYB	"X'FA'" * INTERNAL KEY RESERVED 19874
	1111 1.11			INTKEYC	"X'FB'" * INTERNAL KEY RESERVED 19874

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
				Comment	
		EQU X'FC' NONE			
		EQU X'FD' NONE			
				End of Comment	
		1111 111.		ENDK	"X'FE'" * NONE END KEY 19874
		1111 1111		ENDIND	"X'FF'" * NONE END OF MODULE INDICATOR 19874
				Comment	
		IF-EXPRESSION KEYS			
		NOTE:			
		THE KEYS FOR THE IF STATEMENT DO NOT HAVE TO BE UNIQUE FROM			
		KEYS ON THE OTHER STATEMENT TYPES SINCE THEY ARE NOT PROCESSED			
		THROUGH THE PDTS.			
				End of Comment	
		1		IFJRCK	"X'01'" * IF JOB LEVEL RC
		.... ..1.		IFSRCK	"X'02'" * IF STEP LEVEL RC
		11		IFRCK	"X'03'" * IF RC
		.... .1..		IFJABCCK	"X'04'" * IF JOB ABEND CODE
		.... .1.1		IFSABCCK	"X'05'" * IF STEP ABEND CODE
		.... .11.		IFUABCK	"X'06'" * IF USER ABEND CODE
		.... .111		IFSABCK	"X'07'" * IF SYSTEM ABEND CODE
		.... 1...		IFJABNDK	"X'08'" * IF JOB ABEND
		.... 1..1		IFSABNDK	"X'09'" * IF STEP ABEND
		.... 1.1.		IFSRUNK	"X'0A'" * IF STEP RUN
		.... 1.11		IFBOOLK	"X'0B'" * IF BOOLEAN
		.... 11..		IFOPERK	"X'0C'" * IF OPERATOR

ITK Cross Reference

Name	Hex Offset	Hex Value	Name	Hex Offset	Hex Value
ACCTEEK	0	90	COPIESK	0	3A
ACCTPEK	0	8C	CPRIMK	0	5A
ADRSPEEK	0	80	CYLOFLMK	0	5B
ADRSPJK	0	A7	DATAK	0	19
ADRSPPEK	0	7F	DCBK	0	40
AFFK	0	44	DDK	0	6E
AFFMK	0	4D	DDNAMEK	0	49
AMPK	0	28	DENMK	0	5D
BFALNMK	0	53	DESTK	0	25
BFTEKMK	0	54	DIAGNSK	0	2A
BLKSIZMK	0	55	DISPK	0	46
BUFINMK	0	33	DLMK	0	2B
BUFLMK	0	56	DSIDK	0	21
BUFMAXMK	0	31	DSNAMEK	0	4A
BUFNOMK	0	57	DSORGMK	0	5E
BUFOFFMK	0	37	DUMMK	0	3E
BUFOUTMK	0	32	DYNAK	0	35
BUFRQMK	0	58	DYNMEEK	0	7C
BUFSIZMK	0	34	DYNMPEK	0	7B
BURSTK	0	20	EIFVERBK	0	C1
CHARSK	0	1D	ELSVERBK	0	C0
CHKPTK	0	3F	ENDIND	0	FF
CLASSJK	0	AD	ENDK	0	FE
CODEMK	0	59	EROPTMK	0	5F
CONDDEK	0	79	ETEND	0	0
CONDEEK	0	91	EXECK	0	94
CONDJK	0	AF	EXPDTK	0	15
CONDPEK	0	8D	EXPDTMK	0	51

Name	Hex Offset	Hex Value
FCBK	0	2C
FLASHK	0	1F
FREEK	0	27
FRIDMK	0	26
FUNCMK	0	29
GDSORGMK	0	3B
GNCPMK	0	3C
GROUPK	0	A3
HIARCHMK	0	5C
HOLDK	0	23
IFBOOLK	0	B
IFJABCCK	0	4
IFJABNDK	0	8
IFJRCK	0	1
IFOPERK	0	C
IFRCK	0	3
IFSABCCK	0	5
IFSABCK	0	7
IFSABNDK	0	9
IFSRCK	0	2
IFSRUNK	0	A
IFUABCK	0	6
IFVERBK	0	BF
INTKEYA	0	F9
INTKEYB	0	FA
INTKEYC	0	FB
INTKEY1	0	F0
INTKEY2	0	F1
INTKEY3	0	F2
INTKEY4	0	F3
INTKEY5	0	F4
INTKEY6	0	F5
INTKEY7	0	F6
INTKEY8	0	F7
INTKEY9	0	F8
INTVLMK	0	60
IPLTXIDK	0	39
JCLVERNK	0	A2
JDTKWDK	0	1A
JDTOVRDK	0	17
JDTVERBK	0	BE
JOBK	0	B4
KEYLENMK	0	61
LABELK	0	42
LIMCTMK	0	62
LRECLMK	0	63
MEMLEEK	0	78
MEMLIMJK	0	A1
MEMLPEK	0	77
MODEMK	0	64
MODIFYK	0	1E
MSGCLAJK	0	B2
MSGLEVJK	0	B3
MSVGPK	0	22
NCPMK	0	65
NOTIFYJK	0	A8
NTMMK	0	66
OPTCDMK	0	67
OUTLIMK	0	38
PARMEEK	0	92
PARMPEK	0	8E
PASWORDK	0	A4
PCIMK	0	30
PGMEK	0	8A
PRFMEEK	0	7E
PRFMJK	0	A6
PRFMPEK	0	7D
PROCEK	0	8B
PROTECTK	0	1B
PRSTEPK	0	7A
PRTSPMK	0	68
PRTYJK	0	B0
QNAMEK	0	36
RDEEK	0	84
RDJK	0	AB
RDPEK	0	85
RECFMMK	0	69
REFMK	0	50
REGINEEK	0	89
REGINJK	0	AE
REGINPEK	0	88
RESERVMK	0	2F
RESTARJK	0	AA
RETPDK	0	16
RETPDMK	0	52
RKPMK	0	6A
ROLLEEK	0	87
ROLLJK	0	AC
ROLLPEK	0	86
SDPEEK	0	82
SDPPEK	0	81
SEPK	0	45
SEPMK	0	4E
SERMK	0	4F
SOWAMK	0	6B
SPACEK	0	47
SPLATK	0	18
SPLITK	0	48
STACKMK	0	6C
SUBALLOK	0	4C
SUBSYSK	0	1C
SYSINCTK	0	24
SYSOUTK	0	4B
TERMK	0	2D
THRESHMK	0	2E
TIMEEEK	0	93
TIMEJK	0	A9
TIMEPEK	0	8F
TRTCHMK	0	6D
TYPRUNJK	0	B1
UCSK	0	3D
UNITK	0	41
USERK	0	A5
VOLUMEK	0	43

ITTCTE Heading Information

Common Name: Component Trace Element
Macro ID: ITTCTE
DSECT Name: CTE
Owning Component: Component Trace (SCTRC)
Eye-Catcher ID: None
Storage Attributes: Subpool: Determined by the user component
Key: Determined by the user component
Residency: Determined by the user component
Size: Variable < 64K bytes on a halfword boundry.
WARNING: The size of the CTEVDATA area should not exceed 60K bytes. This is to allow for future expansions of the fixed portions of the CTE.
Created by: User component traces
Pointed to by: User components' component trace base
Serialization: determined by the user component
Function: 'CTE's are created by individual component traces and contain component specific trace information in key-length-data format.

ITTCTE Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	CTE	
0	(0)	CHARACTER	16	CTEFDATA	* Fixed length portion
0	(0)	CHARACTER	4	CTEPROG	* Prologue
0	(0)	SIGNED	2	CTELENP	* CTE length in bytes
2	(2)	SIGNED	2	CTEOFF	* Offset to CTEVDATA from CTE
4	(4)	CHARACTER	12	CTECDATA	* Common portion of CTE
4	(4)	BITSTRING	4	CTEFMTID	* Format id key
8	(8)	BITSTRING	8	CTETIME	* Time stamp
16	(10)	SIGNED	2	CTEVDATA (0)	* Variable portion, 64k byte limit

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0	CTEEPLG	
0	(0)	SIGNED	2	CTELENE	* CTE epilog used to place the halword length at the end of the CTE

ITTCTE Cross Reference

Name	Hex Offset	Hex Value
CTE	0	
CTECDATA	4	
CTEEPLG	0	
CTEFDATA	0	
CTEFMTID	4	
CTELENE	0	
CTELENP	0	
CTEOFF	2	
CTEPROG	0	
CTETIME	8	
CTEVDATA	10	

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ITTUIPRM Programming Interface information

Programming Interface information

ITTUIPRM

End of Programming Interface information

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ITTUIPRM Heading Information

Common Name: ITTUINIT parm block
Macro ID: ITTUIPRM
DSECT Name: IPRM
Owning Component: Component Trace (SCTRC)
Eye-Catcher ID: ITTUIPRM
Offset: 0
Length: 8
Storage Attributes: Subpool: Determined by the user component
Key: Determined by the user component
Residency: Determined by the user component
Size: Variable, 52 bytes in initial version
Created by: User component traces
INITIALIZED BY: User component traces
Pointed to by: Parameter list to ITTUINIT
Serialization: determined by the user component
Function: Supply unauthorized external CTRACE options from the tracing component to CTRACE component entry point ITTUINIT. ITTUIPR is passed fully-initialized to ITTUINIT. ITTUINIT updates token field IPRMTOK to a non-zero value when it is successful as well as supplying return code 0. ITTUINIT returns a zero IPRMTOK when it is not successful as well as supplying a non-zero return code.

ITTUIPRM Map

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
0	(0)	STRUCTURE	0	IPRM	, ITTUINIT parm block
0	(0)	CHARACTER	8	IPRMID	Identifier
8	(8)	ADDRESS	1	IPRMLVL	Modification level
8	(8)	X'1'	0	IPRMLVL1	"1" Initial modification level
9	(9)	BITSTRING	1	IPRMF	Options flags
		1...		IPRMFNW	"BIT0" NOWRAP option
10	(A)	ADDRESS	2	IPRMLEN	Length of ITTUIPRM passed
12	(C)	CHARACTER	8	IPRMCOMP	Component name
20	(14)	CHARACTER	8	IPRMFMTB	Format table name
28	(1C)	CHARACTER	8	IPRMDD	DDNAME for external CTRACE
36	(24)	BITSTRING	8	IPRMTOK	External CTRACE token (output)
44	(2C)	SIGNED	4	IPRMMAXL	Maximum ITTCTE length
48	(30)	SIGNED	4	IPRMVIRT	Virtual storage for buffers
52	(34)	SIGNED	4	IPRMEND (0)	End of ITTUIPRM

ITTUIPRM Cross Reference

Name	Hex Offset	Hex Value
IPRM	0	
IPRMCOMP	C	40404040
IPRMDD	1C	40404040
IPRMEND	34	
IPRMF	9	0
IPRMFMTB	14	40404040
IPRMFNW	9	80
IPRMID	0	C9E3E3E4
IPRMLEN	A	34
IPRMLVL	8	
IPRMLVL1	8	1
IPRMMAXL	2C	7D00
IPRMTOK	24	0
IPRMVIRT	30	200000

ITZENF60 Programming Interface information

Programming Interface information

ITZENF60

End of Programming Interface information

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ITZENF60 Heading Information

Common Name: ENF Signal 60 Parameter List
Macro ID: ITZENF60
DSECT Name: TTRENF60
Owning Component: Transaction Trace (SCTTR)
Eye-Catcher ID: ENF60
Offset: ENF60_ID-TTRENF60
Length: L'ENF60_ID
Storage Attributes: Key: 0
Residency: Above 16M line, in the private storage of the address space in which the listen exit receives control.
Size: See assembly listing
Created by: ITZCC
Pointed to by: N/A
Serialization: None
Function: Maps the ENF 60 parameter list received by ENF listen exits.
This event occurs when a Transaction Trace command is accepted.

ITZENF60 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	TTRENF60	ENF60 mapping
0	(0)	CHARACTER	6	ENF60_ID	Eye catcher 'ENF60 '
6	(6)	BITSTRING	1	ENF60_VERSION	Version of mapping
6	(6)	X'1'	0	ENF60_VONE	"1" Version 1
6	(6)	X'1'	0	ENF60_CVER	"ENF60_VONE" Current version
7	(7)	BITSTRING	1		Reserved
8	(8)	SIGNED	4	ENF60_LENGTH	Length of parameter list
12	(C)	SIGNED	4	ENF60_QUAL (0)	ENF signal 60 qualifiers
12	(C)	BITSTRING	1	ENF60_BYTE1	Qualifier Byte 1
		1...		ENF60_TON	"X'80'" TTrace is turned on
		.1..		ENF60_TFA	"X'40'" TTrace filter set addition
		..1.		ENF60_TFR	"X'20'" TTrace filter set removal
		...1		ENF60_TOFF	"X'10'" TTrace is turned off
13	(D)	BITSTRING	1	ENF60_BYTE2	Qualifier Byte 2
		1...		ENF60_WST	"X'80'" CTRACE External writer started
		.1..		ENF60_WSP	"X'40'" CTRACE External writer stopped
		..1.		ENF60_LTN	"X'20'" LATENT=N specified
		...1		ENF60_LTY	"X'10'" LATENT=Y specified
		.... 1...		ENF60_BUF	"X'08'" BUFSIZ= specified
14	(E)	BITSTRING	1	ENF60_BYTE3	Qualifier Byte 3
15	(F)	BITSTRING	1	ENF60_BYTE4	Qualifier Byte 4
16	(10)	CHARACTER	8	ENF60_SYSNM	Name of the system on which the event occurred
24	(18)	CHARACTER	7	ENF60_WTR	Writer procname
31	(1F)	CHARACTER	1		- reserved
32	(20)	SIGNED	4	ENF60_BFSZ	Buffer size (in binary)
36	(24)	BITSTRING	1	ENF60_SEQN	Filter seq. num for ON or OFF
37	(25)	BITSTRING	1	ENF60_LVL	Filter level indicator
38	(26)	BITSTRING	2		- reserved

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

					NOTE: The following command filter information must match the filter mapping in ITZYTTWA, ITZENF60, flag Wrk_CmdFlg in ITZDT and flag FLWK_CmdFlg in ITZFI. All changes must be ITZYTTFA, ITZYTTWA, ITZENF60 ITZDT and ITZFI at the same time.

				End of Comment	
40	(28)	BITSTRING	1	ENF60_CMDFLTR	
					Command filter area
40	(28)	BITSTRING	1	ENF60_CMDFLG	Filter composite flag
		1...		E60CTRAN	"X'80'" TRAN= specified
		.1..		E60CUSR	"X'40'" USER= specified
		..1.		E60CCOLL	"X'20'" COLL= specified
		...1		E60CLUNM	"X'10'" LU= specified
		.... 1...		E60CNET	"X'08'" NET= specified
		.... .1..		E60CPROC	"X'04'" PROC= specified
		.... ..1.		E60CPKG	"X'02'" PKG= specified
		1		E60CPLAN	"X'01'" PLAN= specified
41	(29)	BITSTRING	1	ENF60_CMDFLG2	
					Filter composite flag
		1...		E60CCON	"X'80'" CON= specified
		.1..		E60CCOR	"X'40'" COR= specified
		..1.		E60CPRF	"X'20'" PRF= specified
		...1		E60CPRS	"X'10'" PRS= specified
		.... 1...		E60CSLU	"X'08'" sourcelu (for ITZFI)
		.... .1..		E60CSUB	"X'04'" SUB= specified
		.... ..1.		E60CTC	"X'02'" TC= specified
		1		E60CLVL	"X'01'" display level (for ITZDT)
42	(2A)	BITSTRING	2	ENF60_CMDRSD	Reserved
44	(2C)	BITSTRING	10	ENF60_TRANFLT	
					Transaction Name filter parm
44	(2C)	BITSTRING	1	ENF60_TRANFLG	
					TRAN filter parameter
		1...		ENF60_TRANVLD	
					"X'80'" TRAN is valid
		.1..		ENF60_TRANWC	"X'40'" Wildcard exists for TRAN
45	(2D)	BITSTRING	1	ENF60_TRANLEN	
					Length of TRAN parameter
46	(2E)	CHARACTER	8	ENF60_TRANENTRY	
					TRAN filter parameter
54	(36)	BITSTRING	10	ENF60_USERFLT	
					USERSID filter parm
54	(36)	BITSTRING	1	ENF60_USERFLG	
					USERID filter parameter
		1...		ENF60_USERVLD	
					"X'80'" USER is valid
		.1..		ENF60_USERWC	"X'40'" Wildcard exists for USER
55	(37)	BITSTRING	1	ENF60_USERLEN	
					Length of USERID parameter
56	(38)	CHARACTER	8	ENF60_USERENTRY	
					USER filter parameter
64	(40)	BITSTRING	20	ENF60_COLLFLT	
					Collection Name filter parm
64	(40)	BITSTRING	1	ENF60_COLLFLG	
					Collection Name filter parm
		1...		ENF60_COLLVLD	
					"X'80'" Coll is valid
		.1..		ENF60_COLLWC	"X'40'" Wildcard exists for COLL
65	(41)	BITSTRING	1	ENF60_COLLLEN	

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
					Length of COLL parameter
66	(42)	CHARACTER	18	ENF60_COLLENTRY	
					COLL filter parameter
84	(54)	BITSTRING	10	ENF60_LUNMFLT	
					LUNAME filter parm
84	(54)	BITSTRING	1	ENF60_LUNMFLG	
					LUNAME filter parm
		1...		ENF60_LUNMVLD	
					"X'80'" LU is valid
		.1..		ENF60_LUNMWC	"X'40'" Wildcard exists for LU
85	(55)	BITSTRING	1	ENF60_LUNMLEN	
					Length of LU parameter
86	(56)	CHARACTER	8	ENF60_LUNMENTRY	
					LU filter parameter
94	(5E)	BITSTRING	10	ENF60_PROCFLT	
					PROC name filter parm
94	(5E)	BITSTRING	1	ENF60_PROCFLG	
					PROC name filter parm
		1...		ENF60_PROCVLD	
					"X'80'" PROC name is valid
		.1..		ENF60_PROCWC	"X'40'" Wildcard exists for PROC
95	(5F)	BITSTRING	1	ENF60_PROCLEN	
					Length of PROC parameter
96	(60)	CHARACTER	18	ENF60_PROCENTRY	
					PROC name filter parameter
114	(72)	BITSTRING	10	ENF60_PKGFLT	Pkg name filter parm
114	(72)	BITSTRING	1	ENF60_PKGFLG	Pkg name filter parm
		1...		ENF60_PKGVLD	"X'80'" Pkg name is valid
		.1..		ENF60_PKGWC	"X'40'" Wildcard exists for PKG
115	(73)	BITSTRING	1	ENF60_PKGLEN	Length of PKG parameter
116	(74)	CHARACTER	8	ENF60_PKGENTRY	
					Pkg name filter parameter
124	(7C)	BITSTRING	10	ENF60_NETFLT	NETID filter parm
124	(7C)	BITSTRING	1	ENF60_NETFLG	NETID filter parm
		1...		ENF60_NETVLD	"X'80'" NETID is valid
		.1..		ENF60_NETWC	"X'40'" Wildcard exists for NETID
125	(7D)	BITSTRING	1	ENF60_NETLEN	Length of NETID parameter
126	(7E)	CHARACTER	8	ENF60_NETENTRY	
					NETID filter parameter
134	(86)	BITSTRING	10	ENF60_PLANFLT	
					PLAN name filter parm
134	(86)	BITSTRING	1	ENF60_PLANFLG	
					PLAN name filter parm
		1...		ENF60_PLANVLD	
					"X'80'" PLAN name is valid
		.1..		ENF60_PLANWC	"X'40'" Wildcard exists for PLAN
135	(87)	BITSTRING	1	ENF60_PLANLEN	
					Length of PLAN parameter
136	(88)	CHARACTER	8	ENF60_PLANENTRY	
					PLAN name filter parameter
144	(90)	BITSTRING	10	ENF60_CONFLT	CON name filter parm
144	(90)	BITSTRING	1	ENF60_CONFLG	CON name filter parm
		1...		ENF60_CONVLD	"X'80'" CON name is valid
		.1..		ENF60_CONWC	"X'40'" Wildcard exists for CON
145	(91)	BITSTRING	1	ENF60_CONLEN	Length of CON parameter
146	(92)	CHARACTER	8	ENF60_CONENTRY	
					CON name filter parameter
154	(9A)	BITSTRING	20	ENF60_CORFLT	COR name filter parm
154	(9A)	BITSTRING	1	ENF60_CORFLG	COR name filter parm
		1...		ENF60_CORVLD	"X'80'" COR name is valid
		.1..		ENF60_CORWC	"X'40'" Wildcard exists for COR
155	(9B)	BITSTRING	1	ENF60_CORLEN	Length of COR parameter
156	(9C)	CHARACTER	18	ENF60_CORENTRY	
					COR name filter parameter

Offsets Dec	Offsets Hex	Type/Value	Len	Name (Dim)	Description
174	(AE)	BITSTRING	10	ENF60_PRFFLT	PRF name filter parm
174	(AE)	BITSTRING	1	ENF60_PRFFLG	PRF name filter parm
		1...		ENF60_PRFVLD	"X'80'" PRF name is valid
		.1..		ENF60_PRFWC	"X'40'" Wildcard exists for PRF
175	(AF)	BITSTRING	1	ENF60_PRFLEN	Length of PRF parameter
176	(B0)	CHARACTER	8	ENF60_PRFENTRY	
					PRF name filter parameter
184	(B8)	BITSTRING	34	ENF60_PRSFLT	PRS name filter parm
184	(B8)	BITSTRING	1	ENF60_PRSFLG	PRS name filter parm
		1...		ENF60_PRSVLD	"X'80'" PRS name is valid
		.1..		ENF60_PRSWC	"X'40'" Wildcard exists for PRS
185	(B9)	BITSTRING	1	ENF60_PRSLEN	Length of PRS parameter
186	(BA)	CHARACTER	32	ENF60_PRSENTRY	
					PRS name filter parameter
218	(DA)	BITSTRING	20	ENF60_RSVFLT	Reserved
218	(DA)	CHARACTER	20	ENF60_RSVENTRY	
					Reserved
238	(EE)	BITSTRING	20	ENF60_SUBFLT	SUB name filter parm
238	(EE)	BITSTRING	1	ENF60_SUBFLG	SUB name filter parm
		1...		ENF60_SUBVLD	"X'80'" SUB name is valid
		.1..		ENF60_SUBWC	"X'40'" Wildcard exists for SUB
239	(EF)	BITSTRING	1	ENF60_SUBLEN	Length of SUB parameter
240	(F0)	CHARACTER	18	ENF60_SUBENTRY	
					SUB name filter parameter
258	(102)	BITSTRING	10	ENF60_TCFLT	TC name filter parm
258	(102)	BITSTRING	1	ENF60_TCFLG	TC name filter parm
		1...		ENF60_TCVLD	"X'80'" TC name is valid
		.1..		ENF60_TCWC	"X'40'" Wildcard exists for TC
259	(103)	BITSTRING	1	ENF60_TCLEN	Length of TC parameter
260	(104)	CHARACTER	8	ENF60_TCENTRY	
					TC name filter parameter
268	(10C)	CHARACTER	124	ENF60RS1	Reserved
392	(188)	CHARACTER	8	ENF60RS2	Reserved
392	(188)	X'190'	0	ENF60END	"*" End of ENF60 Mapping
392	(188)	X'190'	0	TTRENF60_LEN	"*-TTRENF60"

ITZENF60 Cross Reference

Name	Hex Offset	Hex Value
ENF60_BFSZ	20	
ENF60_BUF	D	8
ENF60_BYTE1	C	
ENF60_BYTE2	D	
ENF60_BYTE3	E	
ENF60_BYTE4	F	
ENF60_CMDFLG	28	
ENF60_CMDFLG2		
	29	
ENF60_CMDFLTR		
	28	
ENF60_CMDRSD	2A	
ENF60_COLLENTRY		
	42	
ENF60_COLLFLG		
	40	
ENF60_COLLFLT		
	40	
ENF60_COLLLEN		
	41	
ENF60_COLLVLD		
	40	80
ENF60_COLLWC	40	40
ENF60_CONENTRY		
	92	
ENF60_CONFLG	90	
ENF60_CONFLT	90	
ENF60_CONLEN	91	
ENF60_CONVLD	90	80
ENF60_CONWC	90	40
ENF60_CORENTRY		
	9C	
ENF60_CORFLG	9A	
ENF60_CORFLT	9A	
ENF60_CORLEN	9B	
ENF60_CORVLD	9A	80
ENF60_CORWC	9A	40
ENF60_CVER	6	1
ENF60_ID	0	
ENF60_LENGTH	8	
ENF60_LTN	D	20
ENF60_LTY	D	10
ENF60_LUNMENTRY		
	56	
ENF60_LUNMFLG		
	54	
ENF60_LUNMFLT		
	54	

Name	Hex Offset	Hex Value
ENF60_LUNMLEN		
	55	
ENF60_LUNMVLD		
	54	80
ENF60_LUNMWC	54	40
ENF60_LVL	25	
ENF60_NETENTRY		
	7E	
ENF60_NETFLG	7C	
ENF60_NETFLT	7C	
ENF60_NETLEN	7D	
ENF60_NETVLD	7C	80
ENF60_NETWC	7C	40
ENF60_PKGENTRY		
	74	
ENF60_PKGFLG	72	
ENF60_PKGFLT	72	
ENF60_PKGLEN	73	
ENF60_PKGVLD	72	80
ENF60_PKGWC	72	40
ENF60_PLANENTRY		
	88	
ENF60_PLANFLG		
	86	
ENF60_PLANFLT		
	86	
ENF60_PLANLEN		
	87	
ENF60_PLANVLD		
	86	80
ENF60_PLANWC	86	40
ENF60_PRFENTRY		
	B0	
ENF60_PRFFLG	AE	
ENF60_PRFFLT	AE	
ENF60_PRFLEN	AF	
ENF60_PRFVLD	AE	80
ENF60_PRFWC	AE	40
ENF60_PROCENTRY		
	60	
ENF60_PROCFLG		
	5E	
ENF60_PROCFLT		
	5E	
ENF60_PROCLEN		
	5F	
ENF60_PROCVLD		
	5E	80
ENF60_PROCWC	5E	40
ENF60_PRSENTRY		
	BA	
ENF60_PRSFLG	B8	
ENF60_PRSFLT	B8	
ENF60_PRSLEN	B9	
ENF60_PRSVLD	B8	80
ENF60_PRSWC	B8	40
ENF60_QUAL	C	
ENF60_RSVENTRY		
	DA	
ENF60_RSVFLT	DA	
ENF60_SEQN	24	
ENF60_SUBENTRY		
	F0	
ENF60_SUBFLG	EE	
ENF60_SUBFLT	EE	
ENF60_SUBLEN	EF	
ENF60_SUBVLD	EE	80
ENF60_SUBWC	EE	40
ENF60_SYSNM	10	
ENF60_TCENTRY		
	104	
ENF60_TCFLG	102	
ENF60_TCFLT	102	
ENF60_TCLEN	103	
ENF60_TCVLD	102	80
ENF60_TCWC	102	40
ENF60_TFA	C	40
ENF60_TFR	C	20
ENF60_TOFF	C	10
ENF60_TON	C	80
ENF60_TRANENTRY		
	2E	
ENF60_TRANFLG		
	2C	
ENF60_TRANFLT		
	2C	
ENF60_TRANLEN		
	2D	
ENF60_TRANVLD		
	2C	80
ENF60_TRANWC	2C	40
ENF60_USERENTRY		
	38	
ENF60_USERFLG		
	36	
ENF60_USERFLT		
	36	
ENF60_USERLEN		
	37	
ENF60_USERVLD		
	36	80
ENF60_USERWC	36	40
ENF60_VERSION		
	6	
ENF60_VONE	6	1
ENF60_WSP	D	40
ENF60_WST	D	80
ENF60_WTR	18	
ENF60END	188	190
ENF60RS1	10C	
ENF60RS2	188	
E60CCOLL	28	20
E60CCON	29	80
E60CCOR	29	40
E60CLUNM	28	10
E60CLVL	29	1
E60CNET	28	8
E60CPKG	28	2
E60CPLAN	28	1
E60CPRF	29	20
E60CPROC	28	4
E60CPRS	29	10
E60CSLU	29	8
E60CSUB	29	4
E60CTC	29	2
E60CTRAN	28	80
E60CUSR	28	40
TTRENF60	0	
TTRENF60_LEN	188	190

ITZYRETC Programming Interface information

Programming Interface information

ITZYRETC

End of Programming Interface information

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ITZYRETC Heading Information

Common Name: Transaction Trace ITZEVENT Macro Return Codes
Macro ID: ITZYRETC
DSECT Name: N/A
Owning Component: Transaction Trace (SCTTR)
Eye-Catcher ID: NONE
Storage Attributes: Subpool: N/A
Key: N/A
Size: N/A
Created by: N/A

INITIALIZED BY : N/A
Pointed to by: N/A
Serialization: None
Function: This mapping macro contains the return codes and reason codes for the ITZEVENT macro.

NOTE: THIS IS A SET OF CONSTANTS, NOT AN ACTUAL DATA AREA. DATA AREA INFORMATION IS NOT APPLICABLE.

ITZYRETC Map

Offsets					
Dec	**Hex**	**Type/Value**	**Len**	**Name (Dim)**	**Description**
0	(0)	STRUCTURE	0		
0	(0)	X'0'	0	ITZGOOD	"0"
0	(0)	X'4'	0	ITZNOTR	"4"

Comment

Reason Codes
(Note that the reason codes are of the form "xxxxYYYY" where "xxxx" is used to contain internal diagnostic information)

End of Comment

0	(0)	BITSTRING	0	ITZNOTKN	"X'00000401'" Trace Token was zero
0	(0)	BITSTRING	0	ITZNOACT	"X'00000402'" Transaction Trace is not active
0	(0)	BITSTRING	0	ITZLATNT	"X'00000403'" Transaction is LATENT with LATENT=N

Appendix A. Accessibility

Accessibility features help a user who has a physical disability, such as restricted mobility or limited vision, to use software products successfully. The major accessibility features in z/OS enable users to:

- Use assistive technologies such as screen-readers and screen magnifier software
- Operate specific or equivalent features using only the keyboard
- Customize display attributes such as color, contrast, and font size.

Using assistive technologies

Assistive technology products, such as screen-readers, function with the user interfaces found in z/OS. Consult the assistive technology documentation for specific information when using it to access z/OS interfaces.

Keyboard navigation of the user interface

Users can access z/OS user interfaces using TSO/E or ISPF. Refer to *z/OS TSO/E Primer z/OS TSO/E User's Guide* and *z/OS ISPF User's Guide Volume I* for information about accessing TSO/E and ISPF interfaces. These guides describe how to use TSO/E and ISPF, including the use of keyboard shortcuts or function keys (PF keys). Each guide includes the default settings for the PF keys and explains how to modify their functions.

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This book primarily documents information that is NOT intended to be used as Programming Interfaces of z/OS.

This book also documents 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**.

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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 this book.

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.

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- DFSMS
- DFSMS/MVS
- DFSMSdfp
- DFSMSdss
- DFSMShsm
- DFSMSrmm
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- DRDA
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- MVS/SP
- MVS/XA
- NetSpool
- Open Class
- OpenEdition
- OS/2
- OS/390
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- PSF
- RACF
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- SP2
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I/O Supervisor (SC1C3)
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IEFSJDKY 502
SDUMP (SCDMP)
IHASDEXI 748
IHASDMSE 754
IHASDPD 764
IHASDRMT 768
IHATDRMT 792
SJF (BB131)
IEFSJOKY 508
SLIP (SCSLP)
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SRM (SC1CX)
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IRAENF55 958
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